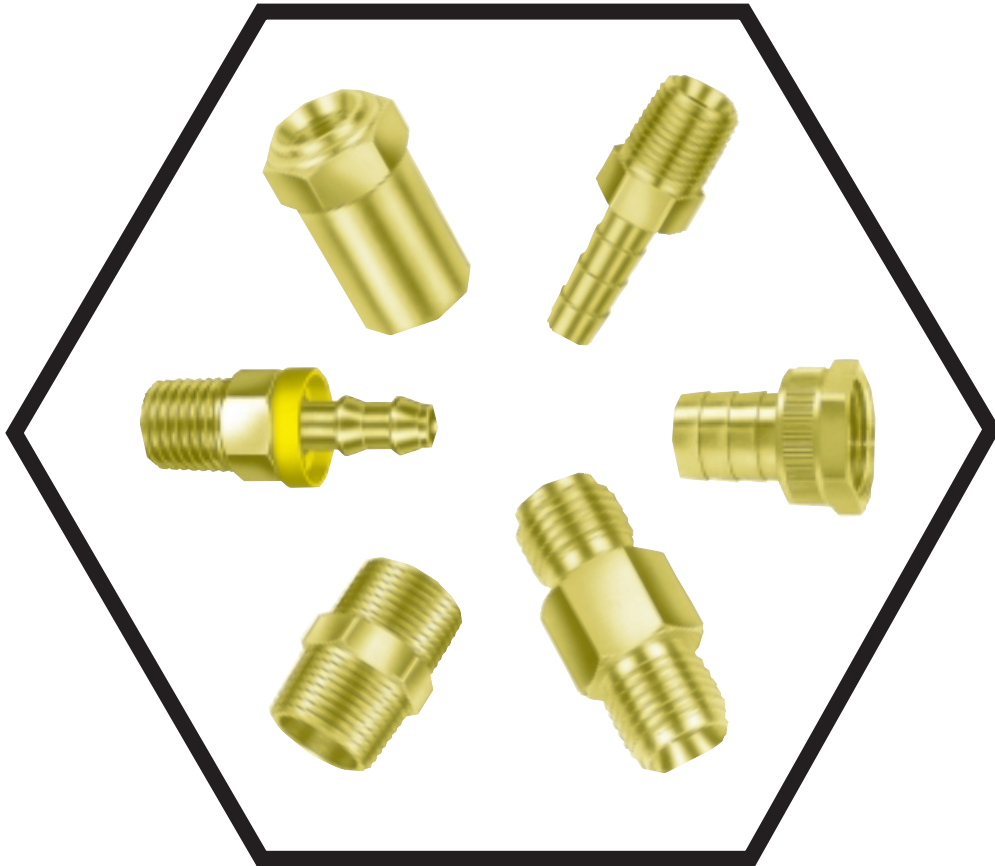


CL-01

# BRASS FITTINGS HANDBOOK



AMERICAN COUPLINGS CO.

Serving Industry Through  
Distributors Since 1929



## INDEX

SERIES  
NUMBER

PAGE

### STANDARD HOSE FITTINGS

<b>102</b>	Male Pipe . . . . .	4
<b>102-SS</b>	Male Pipe-Stainless Steel . . . . .	4
<b>103</b>	Male Pipe Swivel . . . . .	5
<b>104</b>	Female Pipe . . . . .	5
<b>124</b>	Female Swivel-Ball Seat . . . . .	6
<b>126</b>	Female Swivel-Gasket Seat . . . . .	6
<b>129</b>	90° Elbow, Male Pipe . . . . .	7
<b>142</b>	Male 45° SAE . . . . .	7
<b>143</b>	Female Swivel 45° SAE/37° JIC Dual Angle Seat . . . . .	8
<b>144</b>	Female Swivel 45° SAE . . . . .	8
<b>145</b>	Female Swivel 37° JIC . . . . .	8
<b>177</b>	90° Elbow Splicer . . . . .	9
<b>178</b>	Hose Splicer . . . . .	9
<b>179</b>	Tee Splicer . . . . .	9

### BRASS FERRULES & CRIMPING TOOL

<b>200</b>	Stamped Brass Ferrules . . . . .	10
<b>200-FC</b>	Ferrule Crimper . . . . .	10

### WELDING CONNECTORS

<b>152</b>	Right Hand Thread (Oxygen Line) . . . . .	11
<b>154</b>	Left Hand Thread (Acetylene Line) . . . . .	12
<b>156</b>	Adapter-Right Hand Thread X NPTF Thread . . . . .	12
<b>158</b>	Adapter-Left Hand Thread X NPTF Thread . . . . .	12

SERIES  
NUMBER

PAGE

### RE-USABLE FITTINGS

<b>180</b>	Ferrule Only . . . . .	14
<b>182</b>	Male Stem Only . . . . .	14
<b>183</b>	Re-Usable Set- Ferrule & Male Stem . . . . .	15
<b>184</b>	Female Swivel Stem Only . . . . .	16
<b>185</b>	Re-Usable Set- Ferrule & Female Swivel Stem . . . . .	16
<b>187</b>	Hose Splicer (Ferrules & Splicer) . . . . .	17

### LOK-ON HOSE FITTINGS (Push-On Style)

<b>271</b>	Male Pipe Swivel . . . . .	18
<b>272</b>	Male Pipe . . . . .	18
<b>273</b>	90° Elbow, Male Pipe . . . . .	19
<b>274</b>	Female Pipe . . . . .	19
<b>278</b>	Female Swivel-Ball Seat . . . . .	20
<b>280</b>	Female Swivel-Gasket Seat . . . . .	20
<b>282</b>	Male 45° SAE . . . . .	20
<b>284</b>	Female Swivel 45° SAE . . . . .	21
<b>286</b>	Male 37° JIC . . . . .	21
<b>287</b>	Female Swivel 45° SAE/37° JIC Dual Angle Seat . . . . .	21
<b>288</b>	Female Swivel 37° JIC . . . . .	22
<b>290</b>	Male Swivel SAE Inverted Flare . . . . .	22
<b>292</b>	Female SAE Inverted Flare . . . . .	22
<b>294</b>	Rigid Tube Shank . . . . .	23
<b>296</b>	Hose Splicer . . . . .	23

# Over 70 Years Of Manufacturing

**SERIES  
NUMBER**

**PAGE**

**BRASS PIPE FITTINGS**

<b>163</b>	Hex Head Plug . . . . .	24
<b>165</b>	Close Pipe Nipple . . . . .	24
<b>166</b>	Long Pipe Nipple . . . . .	25
<b>169</b>	90° Male Pipe Elbows . . . . .	25
<b>172</b>	Male Union-NPSM X NPTF . . . . .	26
<b>176</b>	Male Union-NPSM . . . . .	26
<b>228</b>	Female Cross . . . . .	26
<b>302</b>	90° Female Elbow . . . . .	27
<b>304</b>	90° Street Elbow . . . . .	27
<b>306</b>	45° Street Elbow . . . . .	27
<b>322</b>	Female Tee . . . . .	28
<b>324</b>	Male Branch Tee . . . . .	28
<b>326</b>	Street Tee . . . . .	28
<b>370</b>	Male Hex Nipple . . . . .	29
<b>371</b>	Female Hex Coupling . . . . .	29
<b>373</b>	Reducer Bushing . . . . .	29
<b>375</b>	Adapter-Female X Male . . . . .	30
<b>377</b>	Reducing Adapter-Double Female . . . . .	30
<b>379</b>	Male Reducing Hex Nipple . . . . .	30

In order to better serve you, American Couplings Co. continues to produce non-catalog sizes and products on a special quote/delivery basis. Please contact your ACC Representative for further details.

**SERIES  
NUMBER**

**PAGE**

**GARDEN HOSE FITTINGS**



<b>500</b>	Garden Hose Accessory Products . . . . .	31
<b>501</b>	Female Hose X Female Pipe- Non-Swivel . . . . .	32
<b>502</b>	Female Hose X Female Pipe- Swivel . . . . .	32
<b>503</b>	Female Hose X Male Pipe- Non-Swivel . . . . .	32
<b>504</b>	Female Hose X Male Pipe- Swivel . . . . .	32
<b>506</b>	Female Hose X Female Hose- Swivel . . . . .	33
<b>507</b>	Male Hose X Female Pipe . . . . .	33
<b>508</b>	Male Hose X Male Pipe . . . . .	33
<b>509</b>	Male Hose X Male Hose . . . . .	33
<b>513</b>	Hose Cap . . . . .	34
<b>514</b>	Male Hose X Male Pipe X Fem. Pipe . . . . .	34
<b>578</b>	Garden Hose Mender . . . . .	34
<b>585</b>	Short Shank Male . . . . .	34
<b>586</b>	Short Shank Female Swivel- Round Nut . . . . .	35
<b>587</b>	Short Shank Set (Male & Female Swivel)-Round Nut . . . . .	35
<b>588</b>	Short Shank Female Swivel- Hex Nut . . . . .	35
<b>589</b>	Short Shank Set (Male & Female Swivel)-Hex Nut . . . . .	35
<b>590</b>	Garden Hose Male . . . . .	36
<b>591</b>	Garden Hose Female Swivel . . . . .	36
<b>592</b>	Garden Hose Set (Male & Female Swivel) . . . . .	36
<b>593</b>	Long Shank Male . . . . .	37
<b>594</b>	Long Shank Female Swivel . . . . .	37
<b>595</b>	Long Shank Set (Male & Female Swivel) . . . . .	37



<b>GWH</b>	Grease Whip Hose Assemblies and Couplings . . . . .	38
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**Excellence**

# Standard Hose Fittings

American Couplings Company offers over 140 standard hose fittings in 14 different Series. All standard hose fittings are intended for use with hose clamps or crimped ferrules.

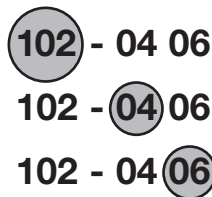
Part numbers for American Couplings Company standard hose fittings are easy to understand and use. The first three digits of the seven-digit part number signify a specific Product Series. The fourth and fifth digits identify the hose I.D. used with the fitting (measured in sixteenths of an inch). The final

two digits of the part number identify the thread size of the fitting (measured in sixteenths of an inch).

All American Couplings Company standard hose fittings are machined from free cutting brass rod CDA 353, 360 and 377 brass alloys and type 316 stainless steel.

Barb and thread size combinations not shown in the catalog can be furnished on a special quote basis. Please contact our Westmont, Illinois office at (800) 323-4440 for further information.

## How to Use American Couplings Company Standard Hose Fitting Part Numbers



### SERIES IDENTIFICATION

HOSE I.D. (Measured in sixteenths of an inch)

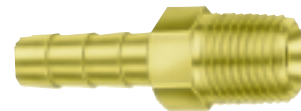
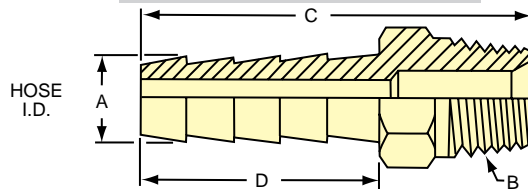
THREAD SIZE (Measured in sixteenths of an inch)



## 102 SERIES & 102-SS SERIES

Type 316 Stainless

**NPTF-MALE  
HOSE BARB**  
*National Pipe Tapered  
-Dryseal*



Part Number		Hose I.D. A	NPTF** Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg. *	Lbs. Per 100 Pcs.
102-0202	-SS	1/8	1/8-27	1.06	7/16	3	.46	100 *	2.2
102-0204			1/4-18	1.16	9/16	3	.46	100	3.3
102-0302		3/16	1/8-27	1.35	7/16	3	.75	100	2.5
102-0304			1/4-18	1.54	9/16	3	.75	100	4.0
102-0402	-SS	1/4	1/8-27	1.57	1/2	4	.97	100 *	2.9
102-0404	-SS		1/4-18	1.76	9/16	4	.97	100 *	4.3
102-0406	-SS		3/8-18	1.76	11/16	4	.97	100 *	5.6
102-0502		5/16	1/8-27	1.57	1/2	4	.97	100	3.0
102-0504			1/4-18	1.76	9/16	4	.97	100	4.2
102-0506			3/8-18	1.76	11/16	4	.97	100	5.6
102-0602		3/8	1/8-27	1.57	1/2	4	.97	100	3.8
102-0604	-SS		1/4-18	1.76	9/16	4	.97	100 *	4.8
102-0606	-SS		3/8-18	1.76	11/16	4	.97	100 *	6.1
102-0608	-SS		1/2-14	1.97	7/8	4	.97	50 *	11.7
102-0612	-SS		3/4-14	1.97	1-1/16	4	.97	50	15.3
102-0804	-SS	1/2	1/4-18	1.76	5/8	4	.97	100 *	7.3
102-0806	-SS		3/8-18	1.76	11/16	4	.97	100 *	7.5
102-0808	-SS		1/2-14	1.97	7/8	4	.97	50 *	12.2
102-0812	-SS		3/4-14	1.97	1-1/16	4	.97	50 *	16.0
102-1006			5/8	3/8-18	1.76	11/16	4	.97	100
102-1008		1/2-14		1.97	7/8	4	.97	50	11.6
102-1012		3/4-14		1.97	1-1/16	4	.97	50	16.2
102-1208	-SS	3/4	1/2-14	2.19	7/8	4	1.19	50 *	16.8
102-1212	-SS		3/4-14	2.19	1-1/16	4	1.19	25 *	18.9
102-1612		1	3/4-14	2.19	1-1/16	5	1.19	25	25.7
102-1616			1 - 11-1/2+	2.54	1-3/8	5	1.19	10	38.4

+ Capped

\*\* NPT Thread for 102-SS

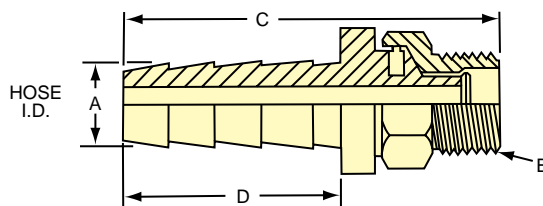
\* 102-SS Packaged to Order



# 103 & 104 SERIES

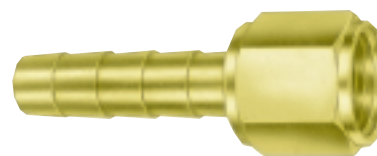
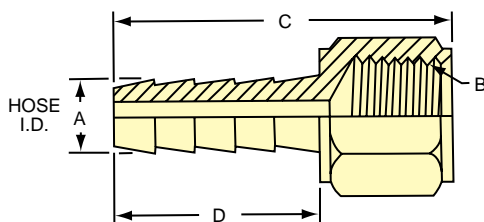


**NPTF-MALE SWIVEL  
HOSE BARB**  
*National Pipe Tapered  
-Dryseal*



Part Number	Hose I.D. A	NPTF Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
103-0404	1/4	1/4-18	2.12	9/16	4	.97	100	5.0
103-0604	3/8	1/4-18	2.12	9/16	4	.97	50	6.3
103-0606		3/8-18	2.12	11/16	4	.97	50	7.5
103-0806	1/2	3/8-18	2.12	11/16	4	.97	50	9.7
103-0808		1/2-14	2.33	7/8	4	.97	50	13.1
103-1212	3/4	3/4-14	2.33	1-1/16	4	.97	25	20.7

**NPTF-FEMALE  
HOSE BARB**  
*National Pipe Tapered  
-Dryseal*



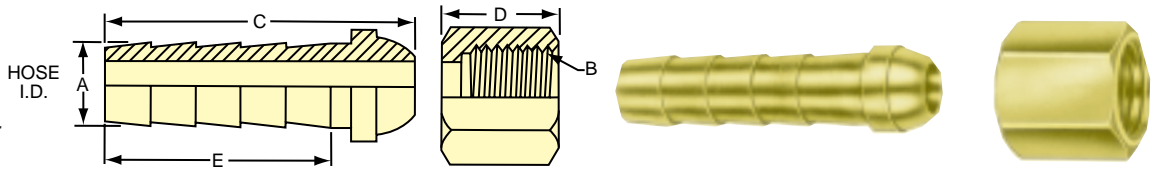
Part Number	Hose I.D. A	NPTF Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
104-0202	1/8	1/8-27	.96	1/2	3	.46	100	2.2
104-0204		1/4-18	1.15	5/8	3	.46	100	4.1
104-0302	3/16	1/8-27	1.25	1/2	3	.75	100	2.5
104-0304		1/4-18	1.44	5/8	3	.75	100	4.6
104-0402	1/4	1/8-27	1.47	1/2	4	.97	100	2.8
104-0404		1/4-18	1.66	5/8	4	.97	100	4.6
104-0406		3/8-18	1.66	3/4	4	.97	100	5.6
104-0502	5/16	1/8-27	1.47	9/16	4	.97	100	3.9
104-0504		1/4-18	1.66	5/8	4	.97	100	5.0
104-0506		3/8-18	1.66	3/4	4	.97	100	6.0
104-0602	3/8	1/8-27	1.47	9/16	4	.97	100	4.0
104-0604		1/4-18	1.66	5/8	4	.97	100	5.3
104-0606		3/8-18	1.66	3/4	4	.97	100	6.4
104-0608		1/2-14	1.66	15/16	4	.97	50	8.9
104-0804	1/2	1/4-18	1.66	5/8	4	.97	100	5.9
104-0806		3/8-18	1.66	3/4	4	.97	100	7.4
104-0808		1/2-14	1.66	15/16	4	.97	50	10.2
104-1212	3/4	3/4-14	2.19	1-3/16	4	1.19	25	24.1
104-1612	1	3/4-14	2.19	1-3/16	4	1.19	25	28.4
104-1616		1 - 11-1/2	2.32	1-3/16	4	1.19	10	42.4





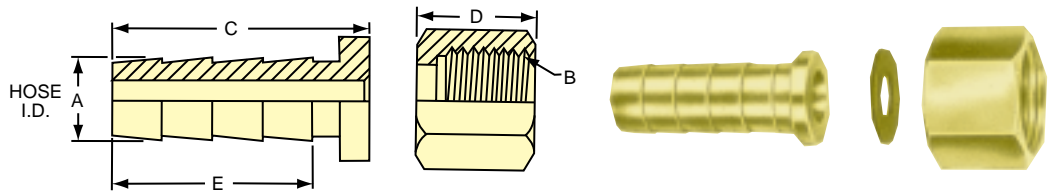
# 124 & 126 SERIES

**NPSM-  
FEMALE SWIVEL  
HOSE BARB**  
*National Pipe Straight  
-Ball Seat Type*



Part Number	Hose I.D. A	NPSM Thread B	Stem Length C	Nut Length D	Hex	No. of Barbs	Barb Length E	Std. Pkg.	Lbs. Per 100 Pcs.
124-0202	1/8	1/8-27	.79	.44	1/2	3	.46	100	2.5
124-0302	3/16	1/8-27	1.08	.44	1/2	3	.75	100	2.7
124-0304		1/4-18	1.17	.53	5/8	3	.75	100	4.5
124-0402	1/4	1/8-27	1.30	.44	1/2	4	.97	100	3.0
124-0404		1/4-18	1.39	.53	5/8	4	.97	100	4.6
124-0406		3/8-18	1.41	.63	3/4	4	.97	100	6.8
124-0504	5/16	1/4-18	1.39	.53	5/8	4	.97	100	5.0
124-0506		3/8-18	1.41	.63	3/4	4	.97	100	7.1
124-0604	3/8	1/4-18	1.37	.53	5/8	4	.97	100	4.8
124-0606		3/8-18	1.45	.63	3/4	4	.97	100	7.4
124-0608		1/2-14	1.54	.69	15/16	4	.97	50	12.9
124-0806	1/2	3/8-18	1.42	.63	3/4	4	.97	100	8.0
124-0808		1/2-14	1.54	.69	15/16	4	.97	50	13.0
124-1212	3/4	3/4-14	1.69	.75	1-1/8	4	1.19	25	17.7

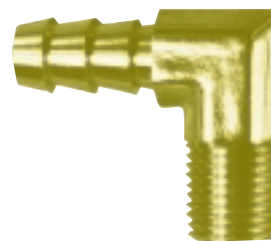
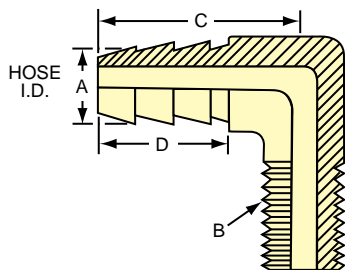
**NPSM-  
FEMALE SWIVEL  
HOSE BARB**  
*National Pipe Straight  
-Gasket Seat Type*



Part Number	Hose I.D. A	NPSM Thread B	Stem Length C	Nut Length D	Hex	No. of Barbs	Barb Length E	Std. Pkg.	Lbs. Per 100 Pcs.
126-0202	1/8	1/8-27	.69	.44	1/2	3	.46	100	2.0
126-0302	3/16	1/8-27	.98	.44	1/2	3	.75	100	2.7
126-0304		1/4-18	.98	.53	5/8	3	.75	100	4.0
126-0402	1/4	1/8-27	1.20	.44	1/2	4	.97	100	2.9
126-0404		1/4-18	1.20	.53	5/8	4	.97	100	4.1
126-0406		3/8-18	1.22	.63	3/4	4	.97	100	6.1
126-0504	5/16	1/4-18	1.20	.53	5/8	4	.97	100	4.3
126-0604	3/8	1/4-18	1.20	.53	5/8	4	.97	100	4.6
126-0606		3/8-18	1.22	.63	3/4	4	.97	100	6.5
126-0608		1/2-14	1.22	.69	15/16	4	.97	50	10.6
126-0806	1/2	3/8-18	1.22	.63	3/4	4	.97	100	7.1
126-0808		1/2-14	1.22	.69	15/16	4	.97	50	11.4
126-1212	3/4	3/4-14	1.47	.75	1-1/8	4	1.19	25	16.4

**Not Recommended with Water**

# 129 & 142 SERIES



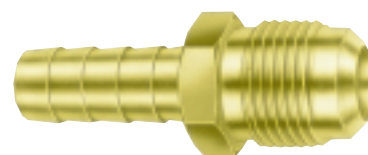
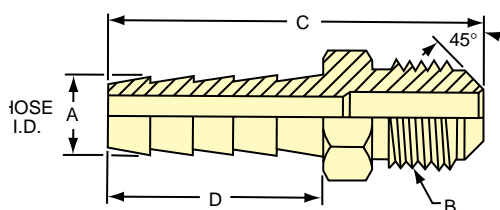
**90° ELBOW**  
Hose Barb  
to Male NPTF

NEW!  
NEW!  
NEW!

NEW!  
NEW!  
NEW!  
NEW!  
NEW!  
NEW!

Part Number	Hose I.D. A	NPTF Thread B	C	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
129-0302	3/16	1/8-27	1.02	3	.79	50	3.7
129-0402	1/4	1/8-27	1.02	3	.79	50	3.7
129-0404		1/4-18	1.20	3	.79	50	5.7
129-0502	5/16	1/8-27	1.03	3	.79	25	3.8
129-0504		1/4-18	1.16	3	.79	25	3.9
129-0506		3/8-18	1.16	3	.79	25	5.7
129-0602	3/8	1/8-27	1.03	3	.87	50	3.4
129-0604		1/4-18	1.20	3	.87	50	6.2
129-0606		3/8-18	1.22	3	.87	50	7.5
129-0804	1/2	1/4-18	1.17	3	.87	25	5.9
129-0806		3/8-18	1.24	3	.87	25	8.8
129-0808		1/2-14	1.31	3	.87	25	13.7
129-1006	5/8	3/8-18	1.31	3	.87	25	8.5
129-1008		1/2-14	1.34	3	.87	25	13.6
129-1208	3/4	1/2-14	1.42	3	.87	25	17.1
129-1212		3/4-14	1.44	3	.87	25	19.2
129-1612	1	3/4-14	1.65	4	.98	10	28.3
129-1616		1 - 11-1/2+	1.69	4	.98	10	42.2

+ Capped



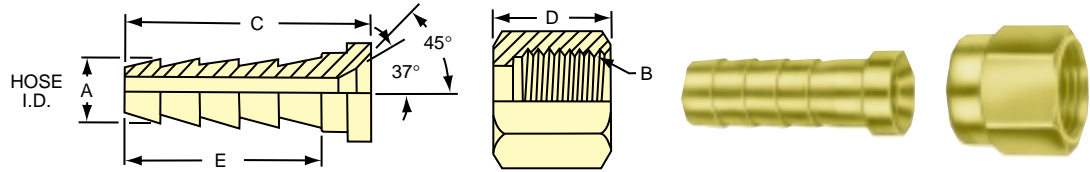
**MALE HOSE BARB**  
45° SAE

Part Number	Hose I.D. A	Tube O.D.	UNF Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
142-0307	3/16	1/4	7/16-20	1.50	7/16	3	.75	100	2.7
142-0407	1/4	1/4	7/16-20	1.72	7/16	4	.97	100	3.2
142-0410		3/8	5/8-18	1.82	5/8	4	.97	100	6.6
142-0508	5/16	5/16	1/2-20	1.75	1/2	4	.97	100	4.7
142-0610	3/8	3/8	5/8-18	1.82	5/8	4	.97	100	7.1
142-0612		1/2	3/4-16	1.97	3/4	4	.97	100	10.3
142-0812	1/2	1/2	3/4-16	1.97	3/4	4	.97	100	10.7



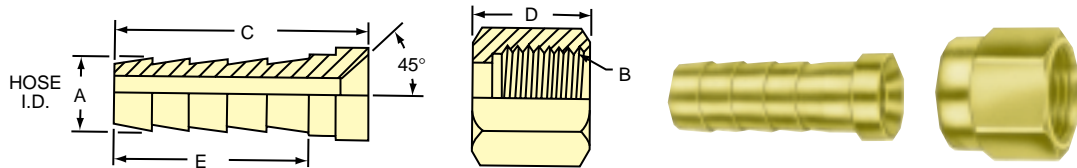
# 143, 144 & 145 SERIES

## FEMALE SWIVEL HOSE BARB 45° SAE / 37° JIC (Dual Angle Seat)



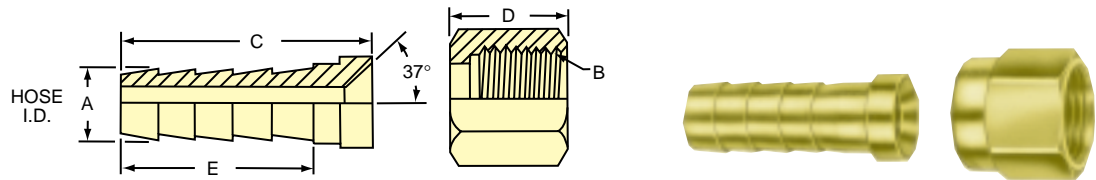
Part Number	Hose I.D. A	Tube O.D.	UNF Thread B	Stem Length C	Nut Length D	Hex	No. of Barbs	Barb Length E	Std. Pkg.	Lbs. Per 100 Pcs.
143-0307	3/16	1/4	7/16-20	1.03	.60	9/16	3	.75	100	3.9
143-0407	1/4	1/4	7/16-20	1.25	.60	9/16	4	.97	100	4.2
143-0408	5/16	5/16	1/2-20	1.31	.68	5/8	4	.97	100	5.2
143-0508	5/16	5/16	1/2-20	1.31	.68	5/8	4	.97	100	5.2
143-0612	3/8	1/2	3/4-16	1.34	.84	7/8	4	.97	50	10.6
143-0812	1/2	1/2	3/4-16	1.34	.84	7/8	4	.97	50	11.3
143-0814	1/2	5/8	7/8-14	1.34	.96	1-1/16	4	.97	50	18.0

## FEMALE SWIVEL HOSE BARB 45° SAE



Part Number	Hose I.D. A	Tube O.D.	UNF Thread B	Stem Length C	Nut Length D	Hex	No. of Barbs	Barb Length E	Std. Pkg.	Lbs. Per 100 Pcs.
144-0306	3/16	3/16	3/8-24	1.03	.45	7/16	3	.75	100	2.1
144-0410	1/4	3/8	5/8-18	1.27	.68	3/4	4	.97	100	6.8
144-0510	5/16	3/8	5/8-18	1.27	.68	3/4	4	.97	100	7.0
144-0610	3/8	3/8	5/8-18	1.27	.68	3/4	4	.97	100	7.4
144-0812	1/2	1/2	3/4-16	1.34	.84	7/8	4	.97	50	11.3

## FEMALE SWIVEL HOSE BARB 37° JIC



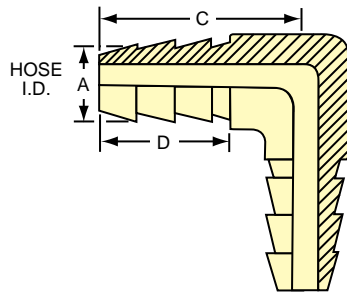
Part Number	Hose I.D. A	Tube O.D.	UNF Thread B	Stem Length C	Nut Length D	Hex	No. of Barbs	Barb Length E	Std. Pkg.	Lbs. Per 100 Pcs.
145-0609	3/8	3/8	9/16-18	1.24	.63	11/16	4	.97	100	6.5

# 177, 178 & 179 SERIES



**NEW!**

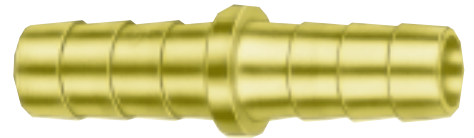
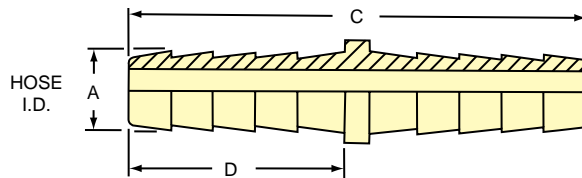
## HOSE BARB 90° ELBOW SPLICER



Part Number	Hose I.D. A	Length Centerline C	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
177-0404	1/4	1.15	3	.71	25	2.9
177-0505	5/16	1.18	3	.78	25	4.9
177-0606	3/8	1.26	3	.87	25	6.9
177-0808	1/2	1.37	3	.91	25	8.9

**NEW!**

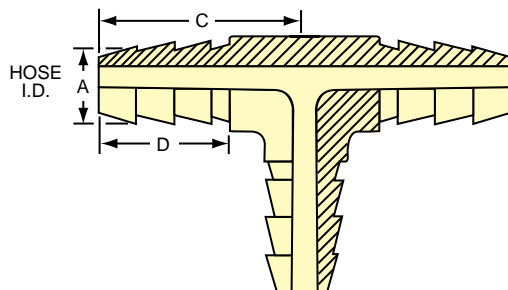
## HOSE SPLICER



Part Number	Hose I.D. A	Length C	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
178-0202	1/8	.97	3	.46	100	0.6
178-0303	3/16	1.56	3	.75	100	1.3
178-0404	1/4	2.03	4	.97	100	2.3
178-0505	5/16	2.06	4	.97	100	2.5
178-0606	3/8	2.06	4	.97	100	3.8
178-0808	1/2	2.06	4	.97	100	6.2
178-1010	5/8	2.06	4	.97	50	5.4
178-1212	3/4	2.50	4	1.19	50	12.8

**NEW!**

## HOSE BARB TEE SPLICER



Part Number	Hose I.D. A	Length Centerline C	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
179-0404	1/4	.94	3	.71	25	4.3
179-0505	5/16	1.18	3	.78	25	7.3
179-0606	3/8	1.26	3	.87	25	10.4
179-0808	1/2	1.37	3	.91	25	13.4

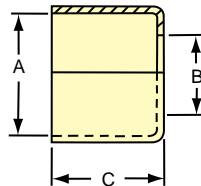
**NEW!**

# Brass Ferrules & Crimping Tool



## 200 SERIES

### STAMPED BRASS FERRULE



Part Number	Reference No.	Ferrule I.D. A	Ferrule Length C	Hole Size B	Gauge	Std. Pkg.	Lbs. Per 100 Pcs.
200-4000	619	.400	.47	.27	.020	100	.38
200-4530	769	.450	.56	.34	.016	100	.44
200-4750	4750	.478	.69	.33	.024	100	.87
200-5000	624	.500	.50	.34	.016	100	.45
200-5005	7322	.500	1.00	.34	.024	100	1.30
200-5250	625	.525	.50	.34	.016	100	.48
200-5255	7323	.525	1.00	.38	.024	100	1.30
200-5310	7324	.531	1.00	.44	.024	100	1.37
200-5500	626	.550	.48	.38	.016	100	.47
200-5620	7325	.562	1.00	.44	.024	100	1.46
200-5930	7326	.593	1.00	.44	.024	100	1.53
200-6250	II	.625	.50	.50	.019	100	.66
200-6255	7327	.625	1.00	.44	.024	100	1.65
200-6500	HH	.650	.50	.50	.019	100	.67
200-6560	7328	.656	1.00	.44	.024	100	1.72
200-6750	GG	.675	.52	.50	.019	100	.75
200-6900	7329	.687	1.00	.50	.024	100	1.80
200-7180	7330	.718	1.00	.63	.024	100	1.88
200-7250	EE	.725	.53	.50	.019	100	.85
200-7500	DD	.750	.53	.50	.019	100	.96
200-7505	7331	.750	1.00	.63	.024	100	1.98
200-7750	CC	.775	.53	.50	.016	50	.90
200-7810	7332	.781	1.00	.63	.024	50	2.08
200-8120	7333	.812	1.00	.63	.024	50	2.00
200-8750	7244A	.875	.84	.69	.024	50	1.93
200-9250	7113	.925	.84	.69	.025	50	1.83
200-9750	5028A	.975	.84	.69	.024	50	2.23
200-9950	7104A	1.150	.84	.88	.024	50	2.62



### 200-FC FERRULE CRIMPING TOOL

Standard Die Part	* Die Bore	** Hose O.D.
200-FC6A	.625	.640-.671
200-FC5	.578	.590-.625
200-FC4B	.531	.540-.562
200-FC4A	.484	.490-.520
200-FC6B	.687	.690-.710

Professional quality Ferrule Crimper provides fixed mount production capability or job-site portability. Shipped with 5 standard die sets for 1/4" single braid hose through 3/8" two braid hose.

Optional die sets available for 3/16" and 1/2" hoses

Optional Die Part	* Die Bore	** Hose O.D.
200-FC3	.375	.385-.406
200-FC8A	.750	.760-.781
200-FC8B	.812	.820-.843

\* See Ferrule I.D. above

\*\* Diameter with barbed insert installed

# Welding Hose Fittings

American Couplings Company offers 16 welding hose fittings in 4 different Series. Our welding hose fittings are manufactured to exacting specifications.

American Couplings Company welding hose fittings are packaged for easy storage and identification. Female swivel welding hose fittings (152 and 154 Series) are sold in stem and swivel nut sets. Pricing information on separate components is available upon request.

It is recommended that hose assemblies be fabricated using hose clamps or crimped ferrules in conjunction with hose barbs. The following letter size designations are commonly used for both oxygen and fuel gas fitting size identification:

**A-Size 3/8-24 UNF**

**B-Size 9/16-18 UNF**

## How to Use American Couplings Company Welding Hose Fitting Part Numbers

**152-0409**

**SERIES IDENTIFICATION**

**152-0409**

**HOSE I.D.**  
(Measured in sixteenths of an inch)

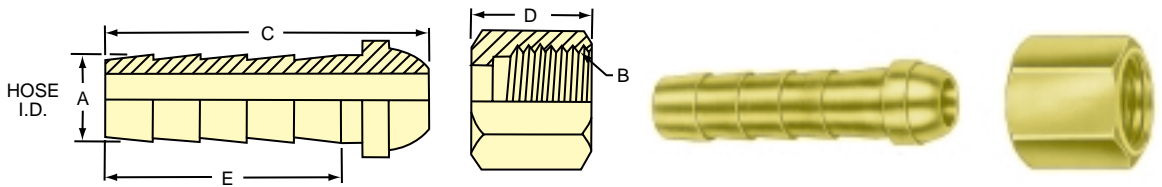
**152-0409**

**THREAD SIZE**  
(Measured in sixteenths of an inch)

## 152 SERIES



**WELDING  
HOSE COUPLING**  
*Right Hand Thread  
For Oxygen Line*



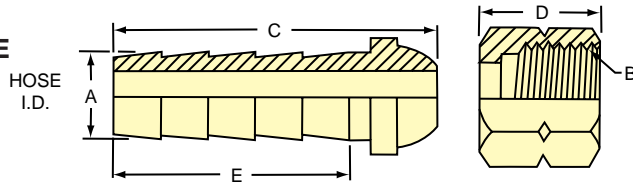
Part Number	Hose I.D. A	Right NF Thread B	Stem Length C	Nut Length D	Hex	No. of Barbs	Barb Length E	Std. Pkg.	Lbs. Per 100 Pcs.
152-0306		3/8-24	1.32	.45	7/16	4	.97	100	2.5
152-0309	3/16	9/16-18	1.43	.63	11/16	4	.97	100	6.4
152-0409	1/4	9/16-18	1.43	.63	11/16	4	.97	100	6.5
152-0509	5/16	9/16-18	1.43	.63	11/16	4	.97	100	6.8
152-0609	3/8	9/16-18	1.43	.63	11/16	4	.97	100	7.2





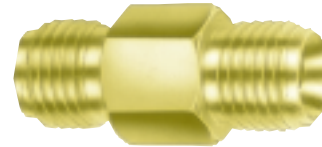
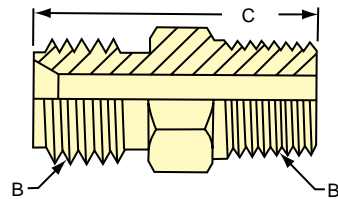
# 154, 156 & 158 SERIES

**WELDING HOSE COUPLING**  
 Left Hand  
 Thread For  
 Acetylene Line



Part Number	Hose I.D. A	Left NF Thread B	Stem Length C	Nut Length D	Hex	No. of Barbs	Barb Length E	Std. Pkg.	Lbs. Per 100 Pcs.
154-0306	3/16	3/8-24	1.32	.45	7/16	4	.97	100	2.5
154-0309	3/16	9/16-18	1.43	.63	11/16	4	.97	100	6.4
154-0409	1/4	9/16-18	1.43	.63	11/16	4	.97	100	6.5
154-0509	5/16	9/16-18	1.43	.63	11/16	4	.97	100	6.8
154-0609	3/8	9/16-18	1.43	.63	11/16	4	.97	100	7.2

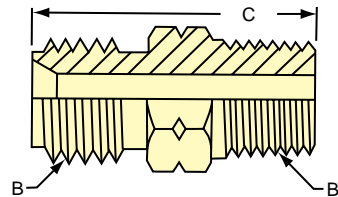
**WELDING HOSE ADAPTER**  
 Right Hand Thread



Part Number	Right NF Thread B	NPTF Thread B1	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
156-0904	9/16-18	1/4-18	1.30	5/8	100	5.8
156-0906	9/16-18	3/8-18	1.30	11/16	100	9.3
156-0909	9/16-18	9/16-18*	1.25	11/16	100	6.3

**\*Right NF Thread**

**WELDING HOSE ADAPTER**  
 Left Hand Thread



Part Number	Left NF Thread B	NPTF Thread B1	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
158-0904	9/16-18	1/4-18	1.30	5/8	100	5.8
158-0906	9/16-18	3/8-18	1.30	11/16	100	9.3
158-0909	9/16-18	9/16-18*	1.25	11/16	100	6.3

**\*Left NF Thread**

# Re-usable Hose Fittings

American Couplings Company offers over 80 re-usable fittings in 6 different Series. All re-usable fittings are of heavy-duty construction. Re-usable fittings are used when a more durable hose connection is required or ease of making a repair is a major consideration.

Three variables must be determined before ordering American Couplings Company re-usable fittings:

1. I.D. of hose to be used with fitting
2. O.D. of hose to be used with fitting
3. Connection thread size desired

Part numbers for re-usable hose fitting sets (183, 185 and 187 Series) are easy to understand and use. The first three digits of the seven-digit part number signify a specific Product Series. The fourth digit signifies the hose I.D. used with the fitting (measured in sixteenths of an inch). The fifth and sixth digits signify the hose O.D. used with the fitting (measured in sixteenths of an inch). The final digit of the part number identifies the thread size of the fitting (measured in sixteenths of an inch).

Note: Recommended for rubber covered hose

## How to Use American Couplings Company Re-usable Hose Fitting Part Numbers

**183-6116**

### SERIES IDENTIFICATION

**183-6116**

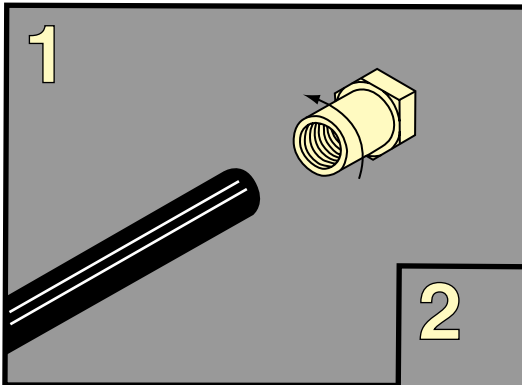
**HOSE I.D.**  
(Measured in sixteenths of an inch)

**183-6116**

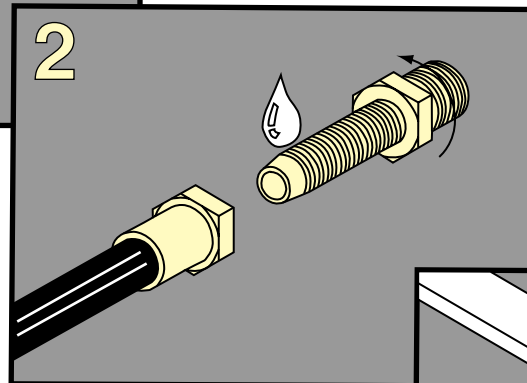
**HOSE O.D.**  
(Measured in sixteenths of an inch)

**183-6116**

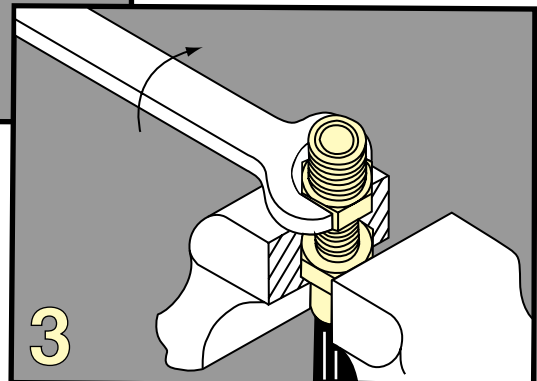
**THREAD SIZE**  
(Measured in sixteenths of an inch)



1  
Simply slip and twist ferrule on end of hose which has been trimmed flush. No skiving necessary.



2  
Apply a drop or two of lubricant to fitting before inserting into ferrule.

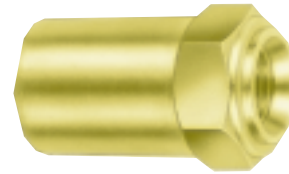
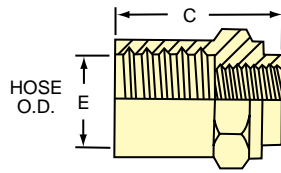


3  
Turn re-usable fitting into ferrule. Hose is expanded inside ferrule for perfect fit.

## How to install re-usable fittings without skiving or crimping

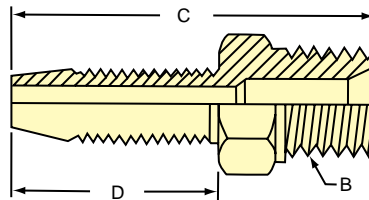


# 180 & 182 SERIES



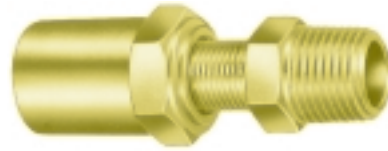
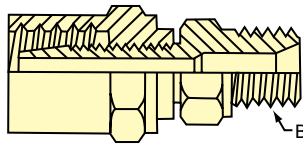
## RE-USABLE FERRULE

Part Number	Hose I.D.	Hose O.D. E	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
180-0408	1/4	1/2	1.02	11/16	100	5.2
180-0409		9/16	1.02	3/4	100	6.5
180-0410		5/8	1.02	13/16	100	6.7
180-0509	5/16	9/16	1.10	3/4	100	6.7
180-0510		5/8	1.10	13/16	100	7.4
180-0511		11/16	1.10	7/8	50	7.8
180-0610	3/8	5/8	1.10	13/16	50	6.8
180-0611		11/16	1.10	7/8	50	7.9
180-0612		3/4	1.10	7/8	50	5.9
180-0814	1/2	7/8	1.69	1-1/16	25	15.5
180-0815		15/16	1.69	1-1/8	25	17.2
180-0816		1	1.69	1-3/16	25	19.5



## RE-USABLE MALE STEM

Part Number	Hose I.D.	NPTF Thread B	Length C	Stem Length D	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
182-0402	1/4	1/8-27	1.68	1.07	9/16	100	4.7
182-0404		1/4-18	1.86	1.07	9/16	100	5.1
182-0406		3/8-18	1.86	1.07	11/16	100	6.3
182-0504	5/16	1/4-18	1.96	1.17	9/16	100	5.6
182-0506		3/8-18	1.96	1.17	11/16	100	6.8
182-0604	3/8	1/4-18	1.96	1.17	9/16	100	6.5
182-0606		3/8-18	1.96	1.17	11/16	100	7.8
182-0608		1/2-14	2.17	1.17	7/8	50	12.4
182-0804	1/2	1/4-18	2.43	1.64	11/16	50	11.8
182-0806		3/8-18	2.43	1.64	11/16	50	10.8
182-0808		1/2-14	2.64	1.64	7/8	50	15.8



## RE-USABLE MALE FITTING

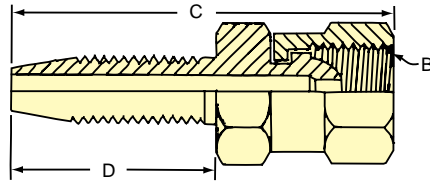
Part Number	Hose I.D.	Hose O.D.	NPTF Thread B	Stem Hex	Ferrule Hex	Std. Pkg.	Lbs. Per 100 Pcs.
183-4082	1/4	1/2	1/8-27	9/16	11/16	100	9.9
183-4092		9/16	1/8-27	9/16	3/4	100	11.2
183-4102		5/8	1/8-27	9/16	13/16	100	11.4
183-4084	1/4	1/2	1/4-18	9/16	11/16	50	10.3
183-4094		9/16	1/4-18	9/16	3/4	50	11.6
183-4104		5/8	1/4-18	9/16	13/16	50	11.8
183-4086	1/4	1/2	3/8-18	11/16	11/16	50	11.5
183-4096		9/16	3/8-18	11/16	3/4	50	12.8
183-4106		5/8	3/8-18	11/16	13/16	50	13.0
183-5094	5/16	9/16	1/4-18	9/16	3/4	50	12.3
183-5104		5/8	1/4-18	9/16	13/16	50	13.0
183-5114		11/16	1/4-18	9/16	7/8	50	13.4
183-5096	5/16	9/16	3/8-18	11/16	3/4	50	13.5
183-5106		5/8	3/8-18	11/16	13/16	50	14.2
183-5116		11/16	3/8-18	11/16	7/8	50	14.6
183-6104	3/8	5/8	1/4-18	9/16	13/16	50	13.3
183-6114		11/16	1/4-18	9/16	7/8	50	14.4
183-6124		3/4	1/4-18	9/16	7/8	50	12.4
183-6106	3/8	5/8	3/8-18	11/16	13/16	50	14.6
183-6116		11/16	3/8-18	11/16	13/16	50	15.7
183-6126		3/4	3/8-18	11/16	7/8	50	13.7
183-6108	3/8	5/8	1/2-14	7/8	13/16	50	19.2
183-6118		11/16	1/2-14	7/8	7/8	50	20.3
183-6128		3/4	1/2-14	7/8	7/8	50	18.3
183-8144	1/2	7/8	1/4-18	11/16	1-1/16	25	27.3
183-8154		15/16	1/4-18	11/16	1-1/8	25	29.0
183-8164		1	1/4-18	11/16	1-3/16	25	31.3
183-8146	1/2	7/8	3/8-18	11/16	1-1/16	25	26.3
183-8156		15/16	3/8-18	11/16	1-1/8	25	28.0
183-8166		1	3/8-18	11/16	1-3/16	25	30.3
183-8148	1/2	7/8	1/2-14	7/8	1-1/16	20	31.3
183-8158		15/16	1/2-14	7/8	1-1/8	20	33.0
183-8168		1	1/2-14	7/8	1-3/16	20	35.3

\*Not Assembled



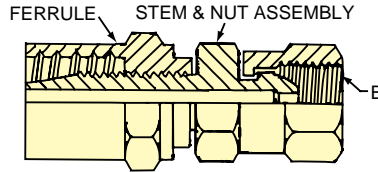
# 184 & 185 SERIES

## RE-USABLE FEMALE SWIVEL STEM



Part Number	Hose I.D.	NPSM Thread B	Length C	Stem Length D	Swivel Hex	Std. Pkg.	Lbs. Per 100 Pcs.
184-0404	1/4	1/4-18	1.94	1.07	11/16	100	7.9
184-0406		3/8-18	2.07	1.07	13/16	50	12.1
184-0504	5/16	1/4-18	2.12	1.17	11/16	100	8.5
184-0604	3/8	1/4-18	2.12	1.17	11/16	50	10.2
184-0606		3/8-18	2.20	1.17	13/16	50	12.8
184-0808	1/2	1/2-14	2.86	1.64	15/16	50	19.1

## RE-USABLE FEMALE SWIVEL FITTING

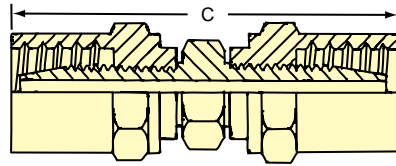


Part Number	Hose I.D.	Hose O.D.	NPSM Thread B	Swivel Hex	Ferrule Hex	Std. Pkg.	Lbs. Per 100 Pcs.
185-4084	1/4	1/2	1/4-18	11/16	11/16	50	12.9
185-4094		9/16	1/4-18	11/16	3/4	50	14.6
185-4104		5/8	1/4-18	11/16	13/16	50	14.9
185-4086	1/4	1/2	3/8-18	13/16	11/16	50	17.1
185-4096		9/16	3/8-18	13/16	3/4	50	18.8
185-4106		5/8	3/8-18	13/16	13/16	50	19.1
185-5094	5/16	9/16	1/4-18	11/16	3/4	50	14.7
185-5104		5/8	1/4-18	11/16	13/16	50	15.2
185-5114		11/16	1/4-18	11/16	7/8	50	15.9
185-6104	3/8	5/8	1/4-18	11/16	13/16	50	17.0
185-6114		11/16	1/4-18	11/16	7/8	50	18.1
185-6124		3/4	1/4-18	11/16	7/8	50	16.1
185-6106	3/8	5/8	3/8-18	13/16	13/16	50	19.6
185-6116		11/16	3/8-18	13/16	7/8	50	20.7
185-6126		3/4	3/8-18	13/16	7/8	50	18.7
185-8148	1/2	7/8	1/2-14	15/16	1-1/16	20	34.6
185-8158		15/16	1/2-14	15/16	1-1/8	20	36.3
185-8168		1	1/2-14	15/16	1-3/16	20	38.6

\*Not Assembled



## RE-USABLE HOSE SPLICER



Part Number	Hose I.D.	Hose O.D.	Length C	Splicer Hex	Ferrule Hex	Std. Pkg.	Lbs. Per 100 Pcs.
187-0408		1/2	2.28	9/16	11/16	50	16.0
187-0409	1/4	9/16	2.28	9/16	3/4	50	18.5
187-0410		5/8	2.28	9/16	13/16	50	19.0
187-0610		5/8	2.45	5/8	13/16	25	22.4
187-0611	3/8	11/16	2.45	5/8	7/8	25	24.6
187-0612		3/4	2.45	5/8	7/8	25	20.6

\*Not Assembled

## LOK-ON Hose Fittings

American Couplings Company offers over 110 LOK-ON fittings in 15 different Series. All American Couplings Company LOK-ON fittings are intended for use with LOK-ON (Push-On style) hose only. No hose clamps or ferrules are needed.

Part numbers for American Couplings Company LOK-ON fittings are easy to understand and use. The first three digits of the seven-digit part number signify a specific Product Series. The fourth and fifth digits identify the hose I.D. used with the fitting (measured in sixteenths of an inch). The final two digits of the part number identify the thread size of the fitting (measured in sixteenths of an inch).

### How to Use American Couplings Company LOK-ON Fitting Part Numbers

**287-0407**

**SERIES IDENTIFICATION**

**287-0407**

**HOSE I.D.**  
(Measured in sixteenths of an inch)

**287-0407**

**THREAD SIZE**  
(Measured in sixteenths of an inch)

\* Add "BC" suffix to part number for brass cap option.

## Just Push On – Fast, Easy!

### Assembly Instructions

1. Trim hose end with smooth square cut.
2. Lubricate either LOK-ON fitting or hose or both.
3. Insert LOK-ON fitting into hose until first barb is in hose.
4. Place end of fitting against a flat object (bench, wall, etc.) and grip the hose one inch from end. Push with a steady force until end of hose is covered by yellow plastic cap.

### Disassembly Instructions

1. Leaving LOK-ON fitting in place, make a one inch cut in the hose along the barbed end of the fitting. Note: Be careful not to nick barbs when cutting the hose.
2. With firm grip on hose, give a sharp downward pull to release the fitting from the hose.

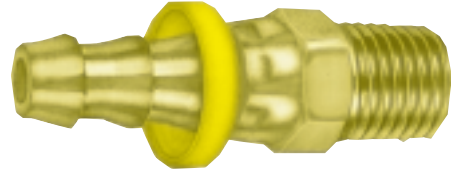
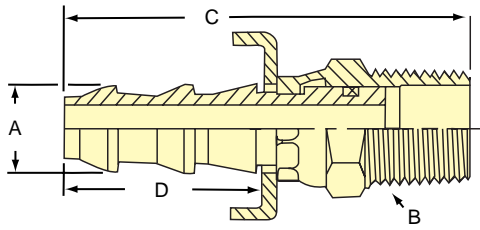
CAUTION: "LOK-ON" fittings will properly grip "LOCK-ON" hose only when pushed all the way in, with the cut end of the hose completely concealed by the plastic cap.



# 271 & 272 SERIES

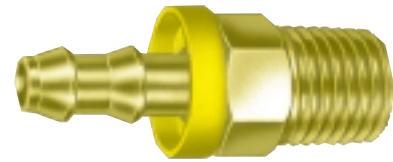
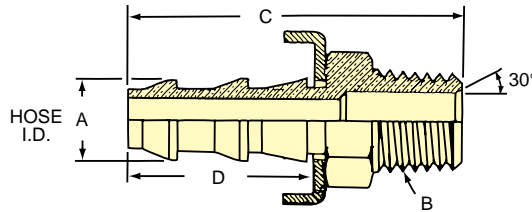
**NEW!**

**NPTF-MALE  
SWIVEL HOSE BARB**  
National Pipe  
Tapered-Dryseal



Part Number	Hose I.D. A	NPTF Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
271-0404	1/4	1/4-18	2.02	9/16	2	.87	50	6.2
271-0604	3/8	1/4-18	2.12	9/16	2	.97	50	7.5
271-0606		3/8-18	2.12	11/16	2	.97	25	9.0
271-0806	1/2	3/8-18	2.12	11/16	2	.97	25	10.4
271-0808		1/2-14	2.33	7/8	2	.97	25	14.8
271-1212	3/4	3/4-14	2.80	1-1/16	3	1.45	25	24.7

**NPTF-MALE  
HOSE BARB**  
National Pipe  
Tapered-Dryseal



Part Number	Hose I.D. A	NPTF Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
272-0402	1/4	1/8-27	1.42	7/16	2	.77	100	2.9
272-0404		1/4-18	1.61	9/16	2	.77	100	4.6
272-0406		3/8-18	1.61	11/16	2	.77	100	5.6
272-0502	5/16	1/8-27	1.42	7/16	2	.77	100	3.4
272-0504		1/4-18	1.61	9/16	2	.77	100	4.8
272-0602	3/8	1/8-27	1.60	9/16	2	.92	100	5.2
272-0604		1/4-18	1.76	9/16	2	.92	100	5.6
272-0606		3/8-18	1.76	11/16	2	.92	100	6.7
272-0608		1/2-14	1.97	7/8	2	.92	50	11.6
272-0612		3/4-14	1.97	1-1/16	2	.92	50	16.0
272-0804		1/2	1/4-18	1.86	11/16	2	1.02	50
272-0806	3/8-18		1.86	11/16	2	1.02	50	9.6
272-0808	1/2-14		2.07	7/8	2	1.02	50	12.5
272-0812	3/4-14		2.07	1-1/16	2	1.02	50	17.4
272-1006	5/8		3/8-18	2.34	3/4	3	1.50	25
272-1008		1/2-14	2.55	7/8	3	1.50	25	17.0
272-1012		3/4-14	2.55	1-1/16	3	1.50	25	19.3
272-1208	3/4	1/2-14	2.55	7/8	3	1.50	25	23.6
272-1212		3/4-14	2.55	1-1/16	3	1.50	25	20.7
272-1612	1	3/4-14	2.93	1-1/4	3	1.50	10	39.4
272-1616		1 - 11-1/2+	3.11	1-3/8	3	1.50	10	51.9

\* Add "BC" suffix to part number for brass cap option.

+ Capped

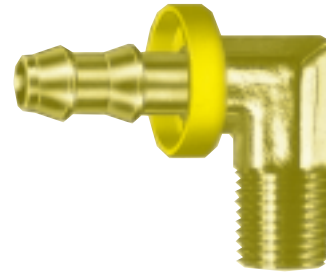
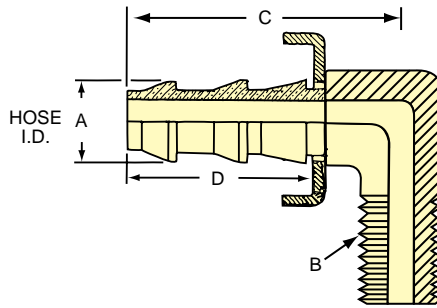


# 273 & 274 SERIES



**NEW!**

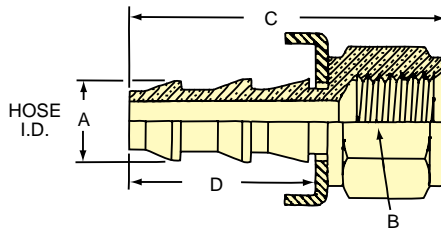
## 90° ELBOW HOSE TO MALE NPTF



Part Number	Hose I.D. A	NPTF Thread B	Length Centerline C	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
273-0402	1/4	1/8-27	1.22	2	.77	50	3.7
273-0404		1/4-18	1.40	2	.77	50	6.0
273-0604	3/8	1/4-18	1.40	2	.97	50	7.0
273-0606		3/8-18	1.51	2	.97	25	8.1
273-0806	1/2	3/8-18	1.54	2	1.07	25	10.9
273-0808		1/2-14	1.61	2	1.07	25	14.0
273-1212	3/4	3/4-14	2.23	3	1.50	25	22.2

\* Add "BC" suffix to part number for brass cap option.

## NPTF – FEMALE HOSE BARB *National Pipe Tapered-Dryseal*



Part Number	Hose I.D. A	NPTF Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
274-0402	1/4	1/8-27	1.32	1/2	2	.77	50	3.2
274-0404		1/4-18	1.51	5/8	2	.77	100	5.1
274-0406		3/8-18	1.51	3/4	2	.77	50	6.2
274-0602	3/8	1/8-27	1.47	9/16	2	.92	50	4.7
274-0604		1/4-18	1.66	5/8	2	.92	100	5.9
274-0606		3/8-18	1.66	3/4	2	.92	50	6.6
274-0804	1/2	1/4-18	1.76	11/16	2	1.02	50	6.0
274-0806		3/8-18	1.76	3/4	2	1.02	50	7.6
274-0808		1/2-14	1.76	15/16	2	1.02	50	10.4
274-0812		3/4-14	2.07	1-3/16	2	1.02	50	22.7
274-1008	5/8	1/2-14	2.24	15/16	3	1.48	25	13.1
274-1212	3/4	3/4-14	2.55	1-3/16	3	1.50	25	22.8

**NEW!**

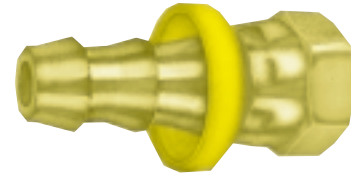
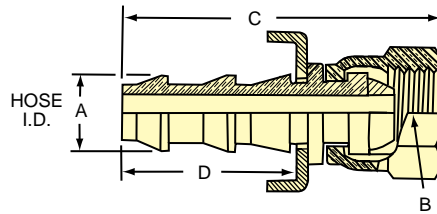
**NEW!**  
**NEW!**

\* Add "BC" suffix to part number for brass cap option.



# 278, 280 & 282 SERIES

## NPSM-FEMALE SWIVEL HOSE BARB National Pipe Straight-Ball Seat Type



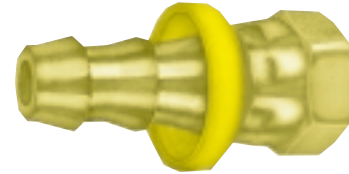
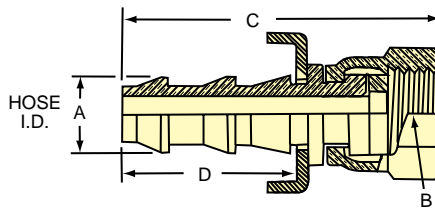
Part Number	Hose I.D. A	NPSM Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
278-0402	1/4	1/8-27	1.39	1/2	2	.77	50	3.1
278-0404		1/4-18	1.47	11/16	2	.77	100	5.9
278-0406		3/8-18	1.40	11/16	2	.77	50	8.6
278-0604	3/8	1/4-18	1.61	11/16	2	.92	100	7.2
278-0606		3/8-18	1.75	13/16	2	.92	100	9.5
278-0808	1/2	1/2-14	1.88	15/16	2	1.02	50	12.3
278-0812		3/4-14	2.36	1-3/16	2	1.02	50	18.7
278-1212	3/4	3/4-14	2.36	1-3/16	3	1.50	25	22.8

NEW!

NEW!

\* Add "BC" suffix to part number for brass cap option.

## NPSM-FEMALE SWIVEL HOSE BARB National Pipe Straight-Gasket Seat Type

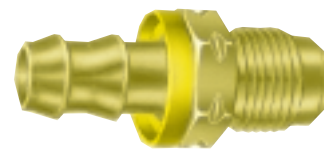
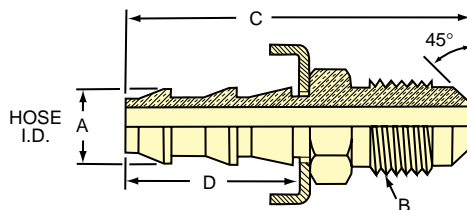


Part Number	Hose I.D. A	NPSM Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
280-0402	1/4	1/8-27	1.39	1/2	2	.77	50	3.0
280-0404		1/4-18	1.47	11/16	2	.77	50	5.5
280-0604	3/8	1/4-18	1.61	11/16	2	.92	50	7.2
280-0606		3/8-18	1.75	13/16	2	.92	50	9.0
280-0808	1/2	1/2-14	1.88	15/16	2	1.02	50	11.1
280-1212	3/4	3/4-14	2.36	1-3/16	3	1.50	25	21.1

NEW!

\* Add "BC" suffix to part number for brass cap option.

## MALE HOSE BARB 45° SAE



Part Number	Hose I.D. A	Tube O.D.	UNF Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
282-0407	1/4	1/4	7/16-20	1.50	7/16	2	.77	100	3.8
282-0408		5/16	1/2-20	1.59	1/2	2	.77	100	4.3
282-0610	3/8	3/8	*5/8-18	1.83	5/8	2	.92	100	7.7
282-0812	1/2	1/2	3/4-16	2.12	7/8	2	1.02	50	13.7
282-1217	3/4	3/4	*1-1/16-14	2.98	1-1/16	3	1.50	25	32.5

NEW!

NEW!

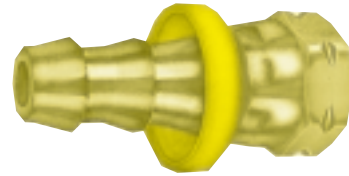
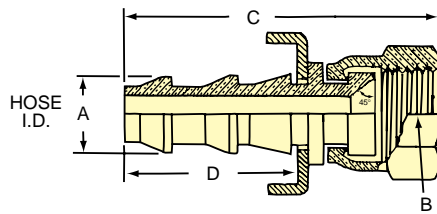
\* Notch in hex for SAE identification.

\*\* Add "BC" suffix to part number for brass cap option.

# 284, 286 & 287 SERIES



## FEMALE SWIVEL HOSE BARB 45° SAE

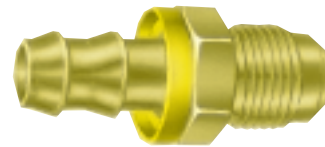
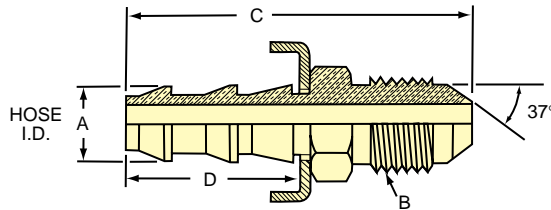


Part Number	Hose I.D. A	Tube O.D.	UNF Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
284-0410	1/4	3/8	*5/8-18	1.60	3/4	2	.77	100	6.8
284-0510	5/16	3/8	*5/8-18	1.60	3/4	2	.77	50	7.0
284-0610	3/8	3/8	*5/8-18	1.75	3/4	2	.92	50	7.5
284-1217	3/4	3/4	*1-1/16-14	2.54	1-1/4	3	1.50	25	23.7

\* Notch in nut for SAE identification.

\*\* Add "BC" suffix to part number for brass cap option.

## MALE HOSE BARB 37° JIC

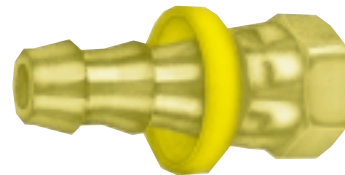
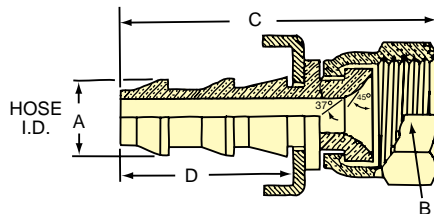


Part Number	Hose I.D. A	Tube O.D.	UNF Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
286-0407	1/4	1/4	7/16-20	1.59	1/2	2	.77	100	4.0
286-0409		3/8	9/16-18	1.63	5/8	2	.77	50	5.2
286-0609	3/8	3/8	9/16-18	1.78	5/8	2	.92	50	6.4
286-0812	1/2	1/2	3/4-16	1.98	7/8	2	1.02	50	12.4
286-1217	3/4	3/4	1-1/16-12	2.79	1-1/8	3	1.50	25	26.6



\* Add "BC" suffix to part number for brass cap option.

## FEMALE SWIVEL HOSE BARB 45° SAE / 37° JIC (Dual Angle Seat)



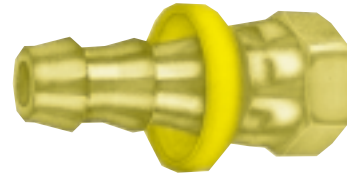
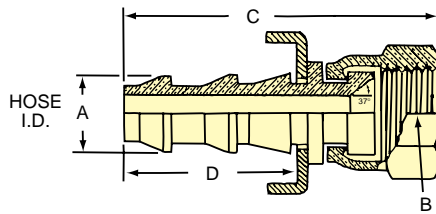
Part Number	Hose I.D. A	Tube O.D.	UNF Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
287-0407	1/4	1/4	7/16-20	1.50	9/16	2	.77	100	4.2
287-0408		5/16	1/2-20	1.60	5/8	2	.77	100	4.8
287-0612	3/8	1/2	3/4-16	1.82	7/8	2	.92	50	9.6
287-0812	1/2	1/2	3/4-16	1.93	7/8	2	1.02	50	11.3
287-0814		5/8	7/8-14	1.99	1	2	1.02	25	13.2
287-1014	5/8	5/8	7/8-14	2.47	1	3	1.50	25	18.3

\* Add "BC" suffix to part number for brass cap option.



# 288, 290 & 292 SERIES

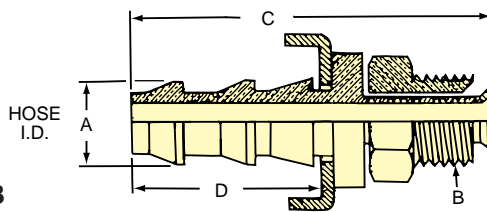
## FEMALE SWIVEL HOSE BARB 37° JIC



Part Number	Hose I.D. A	Tube O.D.	UNF Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
288-0409	1/4	3/8	9/16-18	1.60	11/16	2	.77	50	5.6
288-0609	3/8	3/8	9/16-18	1.75	11/16	2	.92	50	7.2
288-1217	3/4	3/4	1-1/16-12	2.53	1-1/4	3	1.50	25	23.1

\* Add "BC" suffix to part number for brass cap option.

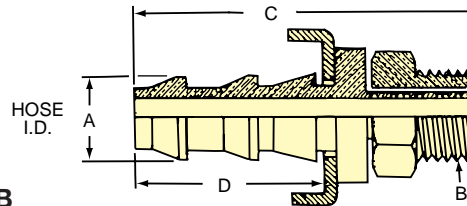
## SAE INVERTED FLARE MALE SWIVEL HOSE BARB



Part Number	Hose I.D. A	Tube O.D.	UN Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
290-0406	1/4	3/16	3/8-24	1.52	7/16	2	.77	50	3.5
290-0407		1/4	7/16-24	1.52	7/16	2	.77	100	3.3
290-0408		5/16	1/2-20	1.58	1/2	2	.77	100	4.0
290-0508	5/16	5/16	1/2-20	1.58	1/2	2	.77	50	4.3
290-0510		3/8	5/8-18	1.63	5/8	2	.77	50	6.3
290-0608	3/8	5/16	1/2-20	1.73	1/2	2	.92	50	6.0
290-0610		3/8	5/8-18	1.78	5/8	2	.92	100	7.0
290-0812	1/2	1/2	3/4-18	1.96	3/4	2	1.02	50	11.1
290-1014	5/8	5/8	7/8-18	2.50	7/8	3	1.50	25	16.3

\* Add "BC" suffix to part number for brass cap option.

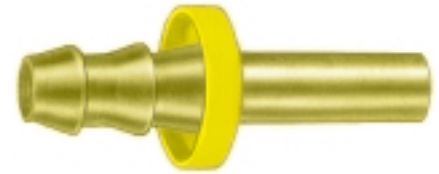
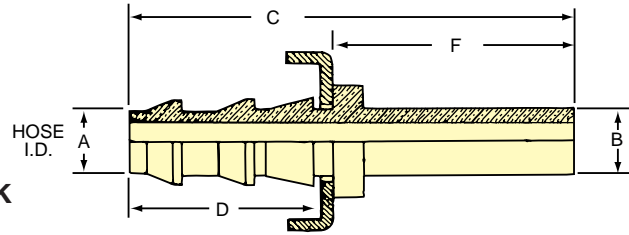
## SAE INVERTED FLARE RIGID FEMALE HOSE BARB



Part Number	Hose I.D. A	Tube O.D.	UN Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
292-0406	1/4	3/16	3/8-24	1.17	7/16	2	.77	50	2.6
292-0407		1/4	7/16-24	1.16	1/2	2	.77	50	2.8
292-0408		5/16	1/2-20	1.19	9/16	2	.77	50	3.0
292-0608	3/8	5/16	1/2-20	1.34	9/16	2	.92	50	4.7
292-0610		3/8	5/8-18	1.39	3/4	2	.92	50	5.9
292-0812	1/2	1/2	3/4-18	1.54	7/8	2	1.02	25	8.7

\* Add "BC" suffix to part number for brass cap option.

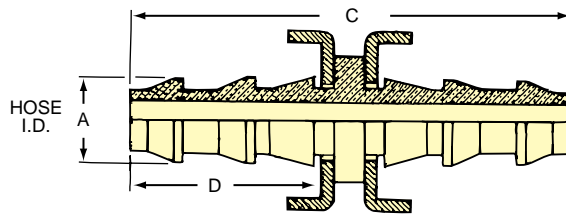
# 294 & 296 SERIES



**RIGID TUBE SHANK  
HOSE BARB**

Part Number	Hose I.D. A	Tube O.D. B	Length C	Tube Length F	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
294-0403		3/16	1.68	.86	2	.77	50	2.2
294-0404	1/4	1/4	1.88	1.06	2	.77	100	2.1
294-0405		5/16	1.88	1.06	2	.77	100	3.1
294-0606	3/8	3/8	2.03	1.06	2	.92	100	3.9
294-0808	1/2	1/2	2.13	1.06	2	1.02	50	5.9
294-1010	5/8	5/8	2.61	1.06	3	1.50	25	9.4

\* Add "BC" suffix to part number for brass cap option.



**HOSE SPLICER**

Part Number	Hose I.D. A	Length C	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
296-0404	1/4	1.73	2	.77	100	2.8
296-0505	5/16	1.73	2	.77	100	3.7
296-0606	3/8	2.05	2	.92	100	5.6
296-0808	1/2	2.25	2	1.02	50	7.7
296-1010	5/8	3.21	3	1.50	25	13.8
296-1212	3/4	3.21	3	1.50	25	15.6

\* Add "BC" suffix to part number for brass cap option.

# Brass Pipe Fittings

American Couplings Company offers over 120 pipe fitting products in 19 different Series. Straight adapters are available in male to male, male to female, and female to female configurations. Fitting shapes are available in elbow, tee and cross configurations. Brass pipe fittings are manufactured for low pressure line connection work.

Brass pipe fitting part numbers differ from hose fitting part numbers. The first three digits of the fitting part number signify a specific product Series. The fourth and fifth digit, as well as the sixth and seventh digits, identify thread sizes of the fitting, measured in sixteenths of an inch.

## How to Use American Couplings Company Brass Pipe Fitting Part Numbers

**379**-0604

379-**06**04

379-06**04**

**SERIES IDENTIFICATION**

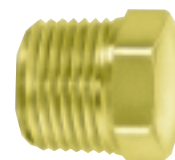
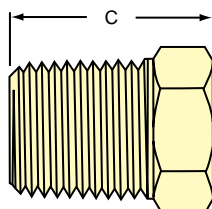
**THREAD SIZE**  
(Measured in sixteenths of an inch)

**THREAD SIZE**  
(Measured in sixteenths of an inch)



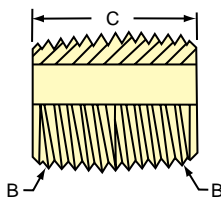
## 163 & 165 SERIES

### HEX HEAD PLUG NPT



Part Number	NPT Thread B	Overall Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
163-0200	1/8-27	.56	7/16	50	1.9
163-0400	1/4-18	.75	9/16	50	3.3
163-0600	3/8-18	.78	11/16	25	6.1
163-0800	1/2-14	.97	7/8	25	8.9
163-1200	3/4-14	1.06	1-1/16	25	22.4

### CLOSE PIPE NIPPLE NPT



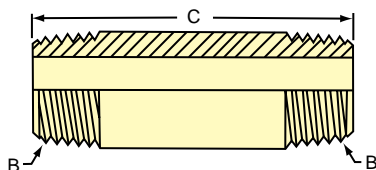
Part Number	NPT Thread B	Length C	Flow Dia.	Std. Pkg.	Lbs. Per 100 Pcs.
165-0202	1/8-27	.75	.250	50	1.4
165-0404	1/4-18	.88	.375	50	2.4
165-0606	3/8-18	1.00	.500	25	3.3
165-0808	1/2-14	1.12	.625	25	6.6
165-1212	3/4-14	1.31	.750	10	18.0



# 166 & 169 SERIES



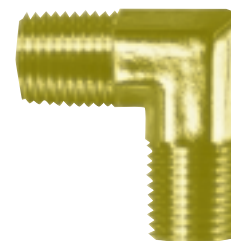
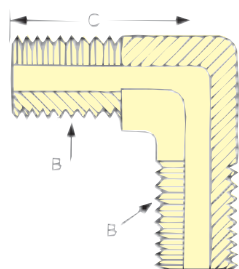
## LONG PIPE NIPPLE NPT



NOTE: Last two digits of part number represent overall length.

Part Number	NPT Thread B	Length C	Flow Dia.	Std. Pkg.	Lbs. Per 100 Pcs.
166-0215	1/8-27	1.50	.250	25	3.2
166-0220		2.00	.250	25	4.2
166-0225		2.50	.250	25	5.2
166-0230		3.00	.281	25	6.1
166-0235		3.50	.281	10	7.7
166-0240		4.00	.281	10	8.0
166-0415		1/4-18	1.50	.375	25
166-0420	2.00		.375	25	6.8
166-0425	2.50		.375	25	8.7
166-0430	3.00		.375	25	10.8
166-0435	3.50		.375	10	12.3
166-0440	4.00		.375	10	14.0
166-0450	5.00		.375	5	16.0
166-0615	3/8-18	1.50	.500	25	6.8
166-0620		2.00	.500	25	9.1
166-0625		2.50	.500	10	11.5
166-0630		3.00	.500	10	14.2
166-0635		3.50	.500	10	16.0
166-0640		4.00	.500	5	18.0
166-0815		1/2-14	1.50	.625	10
166-0820	2.00		.625	10	13.4
166-0825	2.50		.625	10	16.1
166-0830	3.00		.625	10	18.3
166-0835	3.50		.625	10	23.8
166-0840	4.00		.625	5	27.0
166-1220	3/4-14		2.00	.840	5
166-1225		2.50	.840	5	21.6
166-1230		3.00	.840	5	26.6
166-1235		3.50	.840	5	31.5

## 90° MALE PIPE ELBOW NPTF-Dryseal

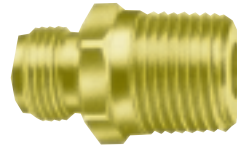
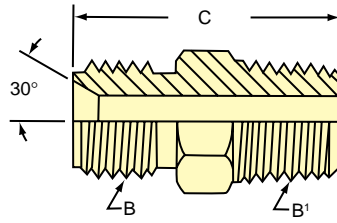


Part Number	NPTF Thread B	C	Std. Pkg.	Lbs. Per 100 Pcs.
169-0202	1/8-27	.65	25	2.2
169-0404	1/4-18	.83	25	5.3
169-0606	3/8-18	.94	25	8.8
169-0808	1/2-14	1.10	25	15.0



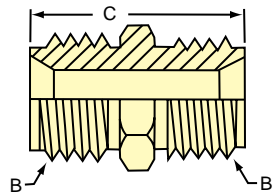


# 172 & 176 & 228 SERIES



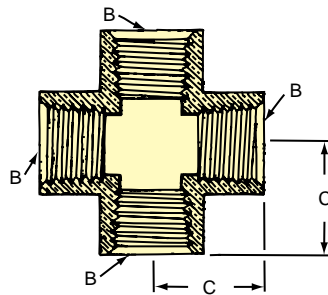
**MALE UNION**  
NPSM To NPTF

Part Number	NPSM Thread B	NPTF Thread B1	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
172-0202	1/8	1/8-27	.94	7/16	100	2.7
172-0402	1/4	1/8-27	1.06	9/16	100	4.2
172-0404		1/4-18	1.25	9/16	100	5.5
172-0604	3/8	1/4-18	1.28	11/16	100	7.0
172-0606		3/8-18	1.30	11/16	100	8.3
172-0608		1/2-14	1.47	7/8	50	13.4
172-0806	1/2	3/8-18	1.35	7/8	50	10.4
172-0808		1/2-14	1.53	7/8	50	13.4
172-1212	3/4	3/4-14	1.53	1-1/16	50	18.0



**MALE UNION**  
NPSM To NPSM

Part Number	NPSM Thread B	NPSM Thread B1	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
176-0202	1/8	1/8	.79	7/16	100	2.1
176-0404	1/4	1/4	1.09	9/16	100	4.4
176-0606	3/8	3/8	1.19	11/16	100	7.4
176-0808	1/2	1/2	1.31	7/8	50	10.8
176-1212	3/4	3/4	1.31	1-1/16	50	14.7



**FEMALE PIPE CROSS**  
NPTF-Dryseal

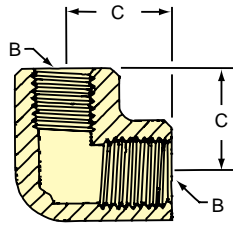
Part Number	NPTF Thread B	C	Std. Pkg.	Lbs. Per 100 Pcs.
228-0202	1/8-27	.55	25	9.4
228-0404	1/4-18	.60	25	15.6
228-0606	3/8-18	.78	25	25.0

# 302, 304 & 306 SERIES



## 90° FEMALE PIPE ELBOW

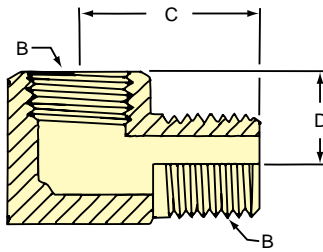
NPTF-Dryseal  
Ref. SAE 130238



Part Number	NPTF Thread B	C	Std. Pkg.	Lbs. Per 100 Pcs.
302-0202	1/8-27	.55	25	7.1
302-0404	1/4-18	.78	25	14.0
302-0606	3/8-18	.84	25	20.9
302-0808	1/2-14	1.09	25	35.3

## 90° STREET ELBOW

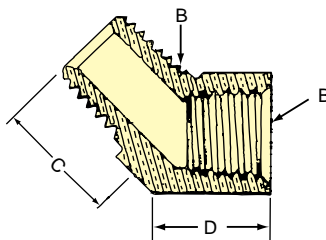
NPTF-Dryseal  
Ref. SAE 130239



Part Number	NPTF Thread B	C	D	Std. Pkg.	Lbs. Per 100 Pcs.
304-0202	1/8-27	.66	.48	25	4.2
304-0404	1/4-18	.91	.72	25	8.0
304-0606	3/8-18	.97	.78	25	14.0
304-0808	1/2-14	1.25	1.03	25	33.4

## 45° STREET ELBOW

NPTF-Dryseal  
Ref. SAE 130339

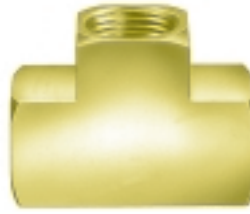
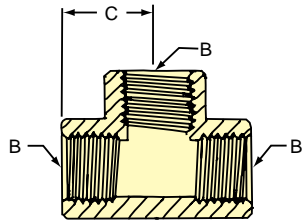


Part Number	NPTF Thread B	C	D	Std. Pkg.	Lbs. Per 100 Pcs.
306-0202	1/8-27	.50	.38	25	3.8
306-0404	1/4-18	.72	.56	25	8.9
306-0606	3/8-18	.78	.56	25	14.8
306-0808	1/2-14	1.00	.75	25	23.8



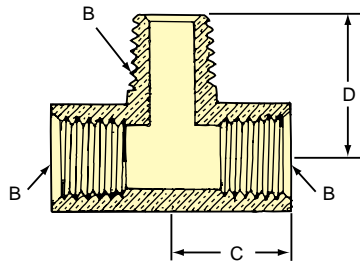
# 322, 324 & 326 SERIES

**FEMALE PIPE TEE**  
NPTF-Dryseal  
Ref. SAE 130438



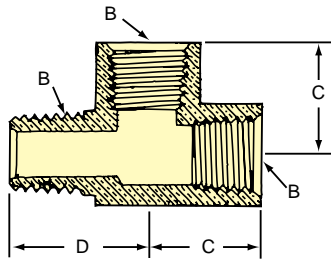
Part Number	NPTF Thread B	C	Std. Pkg.	Lbs. Per 100 Pcs.
322-0202	1/8-27	.55	25	6.0
322-0404	1/4-18	.78	25	17.2
322-0606	3/8-18	.84	25	25.9
322-0808	1/2-14	1.09	25	50.0

**MALE BRANCH TEE**  
NPTF-Dryseal  
Ref. SAE 130425



Part Number	NPTF Thread B	C	D	Std. Pkg.	Lbs. Per 100 Pcs.
324-0202	1/8-27	.55	.66	25	8.0
324-0404	1/4-18	.78	.91	25	16.2
324-0606	3/8-18	.84	.97	25	22.0
324-0808	1/2-14	1.09	1.25	25	45.0

**STREET TEE**  
NPTF-Dryseal  
Ref. SAE 130424



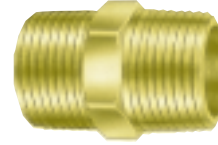
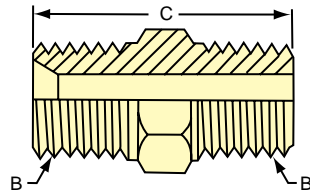
Part Number	NPTF Thread B	C	D	Std. Pkg.	Lbs. Per 100 Pcs.
326-0202	1/8-27	.55	.66	25	8.1
326-0404	1/4-18	.78	.91	25	15.6
326-0606	3/8-18	.84	.97	25	23.0
326-0808	1/2-14	1.09	1.25	25	46.5

# 370, 371 & 373 SERIES



## MALE HEX NIPPLE

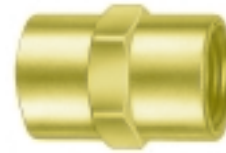
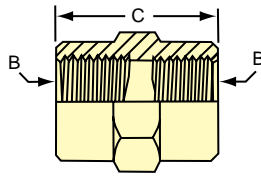
NPTF-Dryseal  
Ref. SAE 130137



Part Number	NPTF Thread B	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
370-0202	1/8-27	.97	7/16	50	2.7
370-0404	1/4-18	1.38	9/16	50	5.7
370-0606	3/8-18	1.41	11/16	25	8.8
370-0808	1/2-14	1.81	7/8	25	14.8
370-1212	3/4-14	1.75	1-1/16	25	21.2

## FEMALE HEX COUPLING

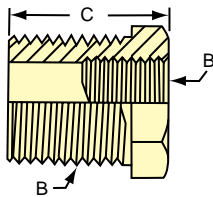
NPTF-Dryseal  
Ref. SAE 130138



Part Number	NPTF Thread B	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
371-0202	1/8-27	.75	9/16	25	2.5
371-0404	1/4-18	1.12	3/4	25	8.8
371-0606	3/8-18	1.12	7/8	25	10.9
371-0808	1/2-14	1.50	1-1/16	25	19.5

## REDUCER BUSHING

NPTF-Dryseal  
Ref. SAE 130140



Part Number	NPTF Thread B Exter.	NPTF Thread B1 Inter.	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
373-0402	1/4-18	1/8-27	.75	9/16	25	2.5
373-0602	3/8-18	1/8-27	.75	11/16	25	4.8
373-0604		1/4-18	.75	3/4	25	3.9
373-0802		1/8-27	1.00	7/8	25	13.0
373-0804	1/2-14	1/4-18	1.00	7/8	25	10.4
373-0806		3/8-18	1.00	7/8	25	6.9
373-1202*		1/8-27	.94	1-1/16	25	21.6
373-1204	3/4-14	1/4-18	1.00	1-1/8	25	19.7
373-1206		3/8-18	1.00	1-1/8	25	21.7
373-1208		1/2-14	1.00	1-1/8	25	12.2
373-1604*		1-11 1/2	1/4-18	1.12	1-3/8	25
373-1606*	3/8-18		1.12	1-3/8	25	29.8
373-1608	1/2-14		1.12	1-7/16	25	27.1
373-1612	3/4-14		1.12	1-7/16	25	23.4

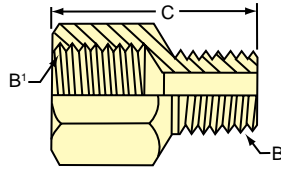
\*SAE does not provide a standard for these products.



# 375, 377 & 379 SERIES

## ADAPTER

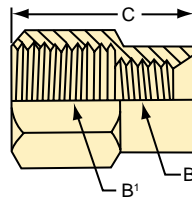
*NPTF-Dryseal*  
Ref. SAE 130139



Part Number	NPTF Thread B1 Inter.	NPTF Thread B Exter.	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
375-0202	1/8-27	1/8-27	.88	9/16	25	3.6
375-0402	1/4-18	1/8-27	1.06	3/4	25	7.1
375-0404	1/4-18	1/4-18	1.25	3/4	25	8.8
375-0604	3/8-18	1/4-18	1.25	7/8	25	10.6
375-0606	3/8-18	3/8-18	1.25	7/8	25	10.7
375-0806	1/2-14	3/8-18	1.47	1-1/16	25	18.9
375-0808	1/2-14	1/2-14	1.66	1-1/16	25	20.4
375-1208	3/4-14	1/2-14	1.69	1-3/8	10	22.6

## REDUCING ADAPTER

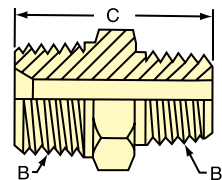
*NPTF-Dryseal*  
(Double Female)  
Ref. SAE 130138



Part Number	NPTF Thread B1	NPTF Thread B	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
377-0402	1/4-18	1/8-27	.97	3/4	25	5.3
377-0604	3/8-18	1/4-18	1.16	7/8	25	11.7
377-0806	1/2-14	3/8-18	1.38	1-1/16	10	20.4

## MALE REDUCING HEX NIPPLE

*NPTF-Dryseal*  
Ref. SAE 130137



Part Number	NPTF Thread B	NPTF Thread B1	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
379-0402	1/4-18	1/8-27	1.19	9/16	25	4.5
379-0602	3/8-18	1/8-27	1.22	11/16	10	6.8
379-0604	3/8-18	1/4-18	1.41	11/16	25	7.4
379-0806	1/2-14	3/8-18	1.62	7/8	10	14.4

# Garden Hose Fittings & Accessories

American Couplings Company offers over 70 Garden Hose Products in 23 different series and three different barb lengths. All Garden Hose Fittings are manufactured with standard barb configurations and are available in standard, long shank and short shank. They are intended for use with either hose clamps or crimped ferrules. Standard and Long Shank female swivel fittings feature both wrench tightening and round knurl for finger tightening. Short Shank female swivel garden hose fittings feature round knurl for finger tightening with a hex nut optional. All female swivel fittings are shipped assembled with a washer.

## How to Use American Couplings Company Garden Hose Fitting Part Numbers

**590-1212**

**SERIES IDENTIFICATION**

**590-1212**

**HOSE I.D.**  
(Measured in sixteenths of an inch)

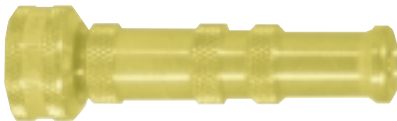
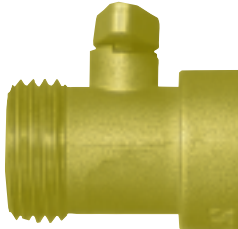



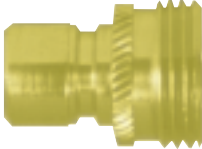
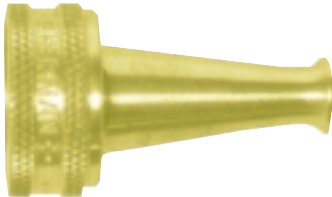
**590-1212**

**THREAD SIZE**  
(Measured in sixteenths of an inch)



**500 SERIES**

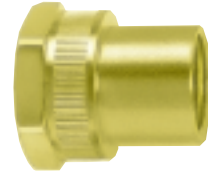
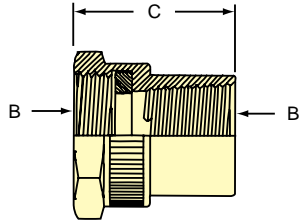


Part Number	Description	Image
500-AN4	<b>ADJUSTABLE NOZZLE – 4"</b> Machined Brass	
500-GHV	<b>FORGED BRASS BALL VALVE – 3/4NH-MALE X FEMALE</b> Stainless Ball, Teflon Seats 2" OAL	
 500-GHY	<b>DOUBLE VALVE “Y”</b> Swivel Hex Nut	
500-QCF	<b>FEMALE COUPLER</b>	
500-QCM	<b>MALE PLUG</b>	
500-QCK	<b>COMPLETE ASSEMBLY</b>	
500-SN2	<b>SWEEPER NOZZLE – 2"</b> Machined Brass	



# 501, 502, 503 & 504 SERIES

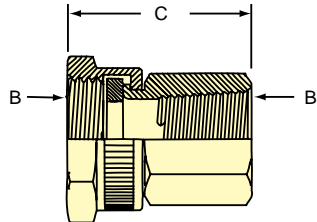
## FEMALE HOSE X FEMALE PIPE NON-SWIVEL NH X NPTF



Part Number	NH Thread B	NPTF Thread B1	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
501-1202	3/4 - 11-1/2	1/8-27	1.02	1-3/16	25	9.2
501-1204	3/4 - 11-1/2	1/4-18	1.12	1-3/16	25	9.8
501-1206	3/4 - 11-1/2	3/8-18	1.18	1-3/16	25	10.2
501-1208	3/4 - 11-1/2	1/2-14	1.32	1-3/16	25	10.6
501-1212	3/4 - 11-1/2	3/4-14	1.56	1-3/16	25	13.4

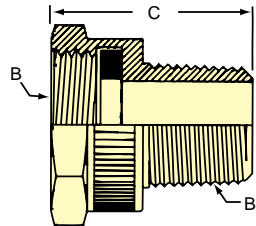


## FEMALE HOSE X FEMALE PIPE SWIVEL NH X NPTF



Part Number	NH Thread B	NPTF Thread B1	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
502-1208	3/4 - 11-1/2	1/2-14	1.06	1	25	14.0
502-1212	3/4 - 11-1/2	3/4-14	1.51	1-3/16	25	19.0

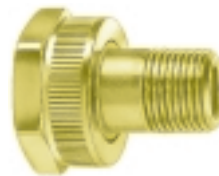
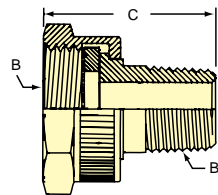
## FEMALE HOSE X MALE PIPE NON-SWIVEL NH X NPTF



Part Number	NH Thread B	NPTF Thread B1	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
503-1206	3/4 - 11-1/2	3/8-18	1.37	1-3/16	25	12.0
503-1208	3/4 - 11-1/2	1/2-14	1.37	1-3/16	25	13.0
503-1212	3/4 - 11-1/2	3/4-14	1.37	1-3/16	25	13.8



## FEMALE HOSE X MALE PIPE SWIVEL - INTERNAL HEX NH X NPTF



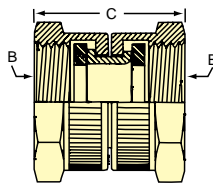
Part Number	NH Thread B	NPTF Thread B1	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
504-1204	3/4 - 11-1/2	1/4-18	1.30	1-3/16	25	11.3
504-1206	3/4 - 11-1/2	3/8-18	1.30	1-3/16	25	11.9
504-1208	3/4 - 11-1/2	1/2-14	1.49	1-3/16	25	14.4



# 506, 507, 508 & 509 SERIES

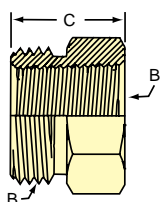


## FEMALE HOSE X FEMALE HOSE SWIVEL NH X NH



Part Number	NH Thread B	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
506-1212	3/4 - 11-1/2	1.32	1-3/16	25	14.1

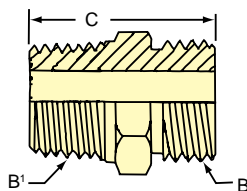
## MALE HOSE X FEMALE PIPE NH X NPTF



Part Number	NH Thread B	NPTF Thread B1	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
507-1204	3/4 - 11-1/2	1/4-18	.69	1-1/16	25	6.0
507-1206	3/4 - 11-1/2	3/8-18	.69	1-1/16	25	6.5
507-1208	3/4 - 11-1/2	1/2-14	.69	1-1/16	25	8.0
507-1212	3/4 - 11-1/2	3/4-14	1.31	1-3/16	25	20.4

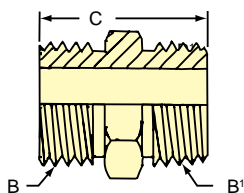


## MALE HOSE X MALE PIPE NH X NPTF



Part Number	NH Thread B	NPTF Thread B1	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
508-1206	3/4 - 11-1/2	3/8-18	1.25	1-1/16	25	12.9
508-1208	3/4 - 11-1/2	1/2-14	1.31	1-1/16	25	14.0
508-1212	3/4 - 11-1/2	3/4-14	1.31	1-1/16	25	16.4

## MALE HOSE X MALE HOSE NH X NH



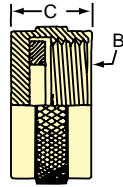
Part Number	NH Thread B	NH Thread B1	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
509-1212	3/4 - 11-1/2	3/4 - 11-1/2	1.13	1-1/16	25	13.4
509-1612	1 - 11-1/2*	3/4 - 11-1/2	1.31	1-3/8	25	30.8

\* NPSH Thread



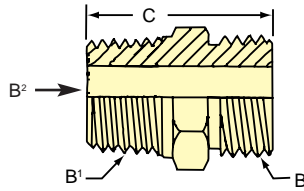
# 513, 514, 578 & 585 SERIES

## HOSE CAP ROUND



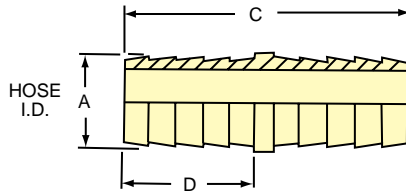
Part Number	NH Thread B	Length C	Std. Pkg.	Lbs. Per 100 Pcs.
513-1212	3/4 - 11-1/2	.625	25	6.4

## MALE HOSE X MALE PIPE X FEMALE PIPE NH X NPT X NPT



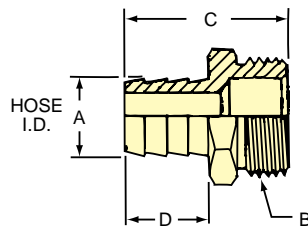
Part Number	NH Thread B	NPT Thread B1	NPT Thread B2	Length C	Hex	Std. Pkg.	Lbs. Per 100 Pcs.
514-1212	3/4 - 11-1/2	3/4-14	1/2-14	1.30	1-1/16	25	13.1

## GARDEN HOSE MENDER



Part Number	Hose I.D. A	Length C	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
578-1010	5/8	2.50	4	1.19	25	6.6
578-1212	3/4	2.50	4	1.19	25	12.8
578-1616	1	3.00	5	1.44	10	20.6

## SHORT SHANK MALE GARDEN HOSE FITTING

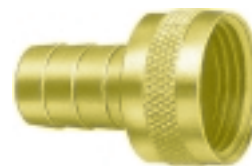
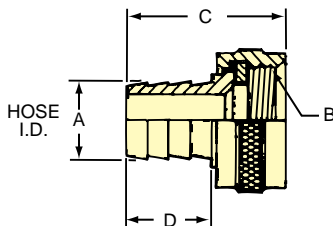


Part Number	Hose I.D. A	NH Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
585-0812	1/2	3/4 - 11-1/2	1.69	1-1/16	3	1.00	25	11.4
585-1012	5/8	3/4 - 11-1/2	1.69	1-1/16	3	1.00	25	11.9
585-1212	3/4	3/4 - 11-1/2	1.69	1-1/16	3	1.00	25	13.1

# 586, 587, 588 & 589 SERIES

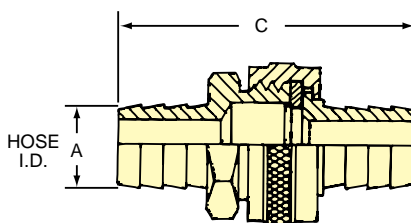


## SHORT SHANK FEMALE SWIVEL GARDEN HOSE FITTING (ROUND NUT)



Part Number	Hose I.D. A	NH Thread B	Length C	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
586-0812	1/2	3/4 - 11-1/2	1.63	3	1.00	25	9.9
586-1012	5/8	3/4 - 11-1/2	1.63	3	1.00	25	10.2
586-1212	3/4	3/4 - 11-1/2	1.63	3	1.00	25	11.3

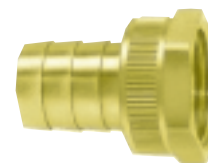
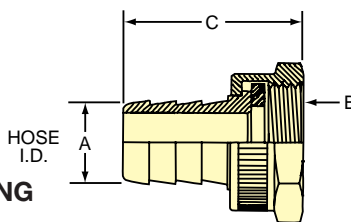
## SHORT SHANK GARDEN HOSE FITTING SET\* (ROUND NUT)



Part Number	Hose I.D. (Both Fittings) A	NH Thread B	Length C	No. of Barbs	Std. Pkg.	Lbs. Per 100 Pcs.
587-0808	1/2	3/4 - 11-1/2	2.95	3	20	21.3
587-1010	5/8	3/4 - 11-1/2	2.95	3	20	22.1
587-1212	3/4	3/4 - 11-1/2	2.95	3	20	24.4

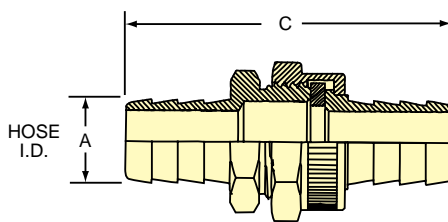
\* Not Assembled

## SHORT SHANK FEMALE SWIVEL GARDEN HOSE FITTING (HEX NUT)



Part Number	Hose I.D. A	NH Thread B	Length C	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
588-0812	1/2	3/4 - 11-1/2	1.63	3	1.00	25	9.9
588-1012	5/8	3/4 - 11-1/2	1.63	3	1.00	25	10.2
588-1212	3/4	3/4 - 11-1/2	1.63	3	1.00	25	11.3

## SHORT SHANK GARDEN HOSE FITTING SET\* (HEX NUT)



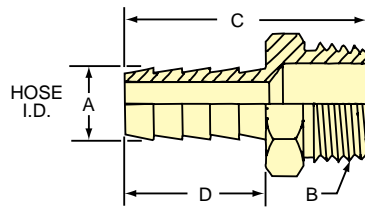
Part Number	Hose I.D. (Both Fittings) A	NH Thread B	Length C	No. of Barbs	Std. Pkg.	Lbs. Per 100 Pcs.
589-0808	1/2	3/4 - 11-1/2	2.95	3	20	21.3
589-1010	5/8	3/4 - 11-1/2	2.95	3	20	22.1
589-1212	3/4	3/4 - 11-1/2	2.95	3	20	24.4

\* Not Assembled



# 590, 591 & 592 SERIES

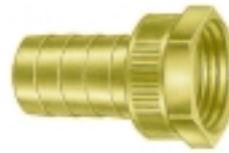
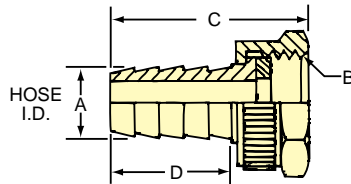
## MALE GARDEN HOSE FITTING



Part Number	Hose I.D. A	NH Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
590-0612	3/8	3/4 - 11-1/2	1.88	1-1/16	4	1.19	25	12.2
590-0812	1/2	3/4 - 11-1/2	1.88	1-1/16	4	1.19	25	12.9
590-1012	5/8	3/4 - 11-1/2	1.88	1-1/16	4	1.19	25	13.6
590-1212	3/4	3/4 - 11-1/2	1.88	1-1/16	4	1.19	25	15.3
590-1616	1	1 - 11-1/2*	2.32	1- 3/8	5	1.44	10	24.8

\* NPSH Thread

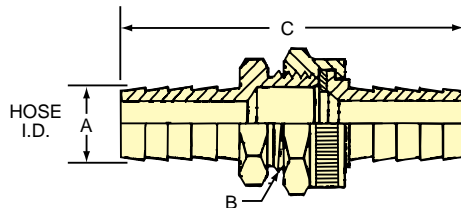
## FEMALE SWIVEL GARDEN HOSE FITTING



Part Number	Hose I.D. A	NH Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
591-0612	3/8	3/4 - 11-1/2	1.82	1-3/16	4	1.19	25	11.6
591-0812	1/2	3/4 - 11-1/2	1.82	1-3/16	4	1.19	25	12.5
591-1012	5/8	3/4 - 11-1/2	1.82	1-3/16	4	1.19	25	12.8
591-1212	3/4	3/4 - 11-1/2	1.82	1-3/16	4	1.19	25	14.7
591-1616	1	1 - 11-1/2*	2.25	1-7/16	5	1.44	10	25.2

\* NPSH Thread

## GARDEN HOSE FITTING SET\*\*



Part Number	Hose I.D. (Both Fittings) A	NH Thread B	Length C	No. of Barbs	Std. Pkg.	Lbs. Per 100 Pcs.
592-0606	3/8	3/4 - 11-1/2	3.32	4	20	23.8
592-0808	1/2	3/4 - 11-1/2	3.32	4	20	25.4
592-1010	5/8	3/4 - 11-1/2	3.32	4	20	27.2
592-1212	3/4	3/4 - 11-1/2	3.32	4	20	30.0
592-1616	1	1 - 11-1/2*	3.50	5	10	50.0

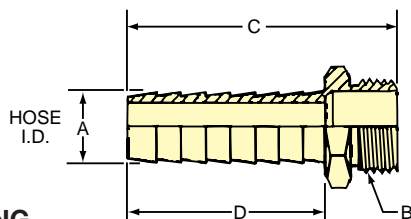
\* NPSH Thread

\*\* Not Assembled

# 593, 594 & 595 SERIES



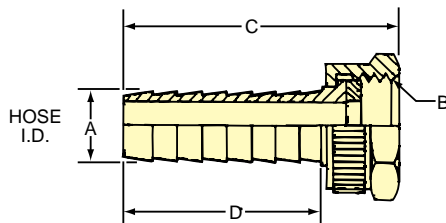
## LONG SHANK MALE GARDEN HOSE FITTING



Part Number	Hose I.D. A	NH Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
593-0812	1/2	3/4 - 11-1/2	2.72	1-1/16	7	2.03	25	13.8
593-1012	5/8	3/4 - 11-1/2	2.72	1-1/16	7	2.03	25	15.1
593-1212	3/4	3/4 - 11-1/2	2.72	1-1/16	7	2.03	25	17.9
593-1616	1	1 - 11-1/2*	2.90	1- 3/8	7	2.03	5	27.6

\* NPSH Thread

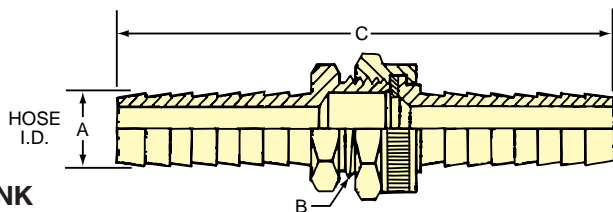
## LONG SHANK FEMALE SWIVEL GARDEN HOSE FITTING



Part Number	Hose I.D. A	NH Thread B	Length C	Hex	No. of Barbs	Barb Length D	Std. Pkg.	Lbs. Per 100 Pcs.
594-0812	1/2	3/4 - 11-1/2	2.66	1-3/16	7	2.03	25	13.2
594-1012	5/8	3/4 - 11-1/2	2.66	1-3/16	7	2.03	25	14.0
594-1212	3/4	3/4 - 11-1/2	2.66	1-3/16	7	2.03	25	16.5
594-1616	1	1 - 11-1/2*	2.84	1-7/16	7	2.03	5	29.4

\* NPSH Thread

## LONG SHANK GARDEN HOSE FITTING SET\*\*



Part Number	Hose I.D. (Both Fittings) A	NH Thread B	Length C	No. of Barbs	Std. Pkg.	Lbs. Per 100 Pcs.
595-0808	1/2	3/4 - 11-1/2	5.05	7	10	26.9
595-1010	5/8	3/4 - 11-1/2	5.05	7	10	29.0
595-1212	3/4	3/4 - 11-1/2	5.05	7	10	34.4
595-1616	1	1 - 11-1/2*	5.20	7	5	57.0

\* NPSH Thread

\*\* Not Assembled



# GWH SERIES

## GREASE WHIP HOSE ASSEMBLIES AND COUPLINGS



### FEATURES

- ACC MANUFACTURED ONE-PIECE BRASS CRIMP COUPLINGS
- 1/8-27 MALE NPT THREAD, SOLID BASE
- U.S. MANUFACTURED 3/16" I.D. HOSE – EXCEEDS SAE100R1-AT
- CHOICE OF PRE-MADE ASSEMBLIES IN POPULAR LENGTHS, CUSTOM LENGTH OPTIONS, OR COUPLINGS ONLY
- FOR USE WITH HAND GREASE GUNS ONLY

## HOSE ASSEMBLIES

Part Number	Assembly Length	Std. Pkg.
GWH-0800	8"	<b>Per Customer Requirement</b>
GWH-1200	12"	
GWH-1800	18"	
GWH-2400	24"	
GWH-3600	36"	
GWH-4800	48"	
GWH-6000	60"	



For lengths not listed, add \$.06 per inch (50 minimum)

## COUPLINGS

Part Number		Std. Pkg.
001-0055	1/8-27 Male NPT Thread, Drilled & Chamfered Base	100/1000
001-0260	1/8-27 Male NPT Thread, Solid Base	100/1000
001-0860	1/8-27 Female NPT Thread	100/1000



# WARRANTY

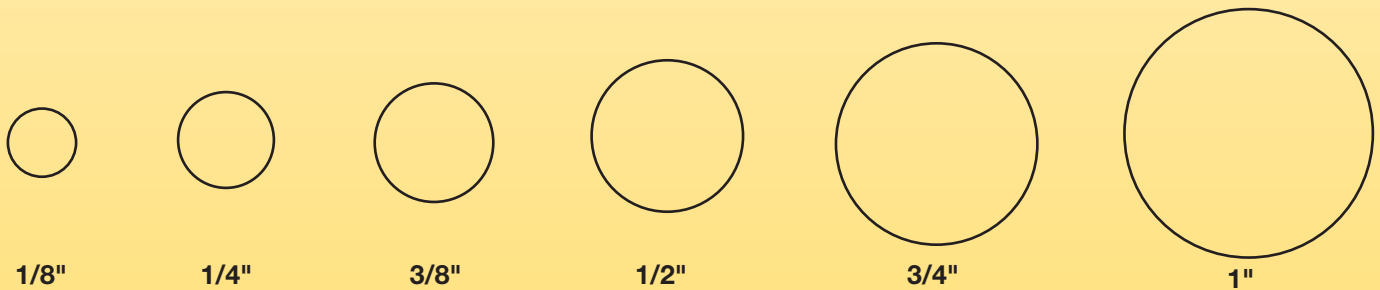
American Couplings Co. (the "Company") guarantees the products shown in this publication against defects in material and workmanship for one year from the date of shipment, provided the products are used under normal operating conditions. All claims for product defects are waived unless reported to the Company in writing within thirty days after a buyer has knowledge of such a defect. THE ABOVE GUARANTEE IS THE SOLE WARRANTY GIVEN BY THE COMPANY, AND ALL OTHER WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY DISCLAIMED AND EXCLUDED.

A buyer's sole and exclusive remedy for the breach of any warranty of the Company shall be the replacement of the products determined by the Company to be defective or, at the Company's option the refund of the invoiced price of such products. A buyer shall not recover special, indirect, or consequential damages for the breach of any warranty made by the Company to the buyer.

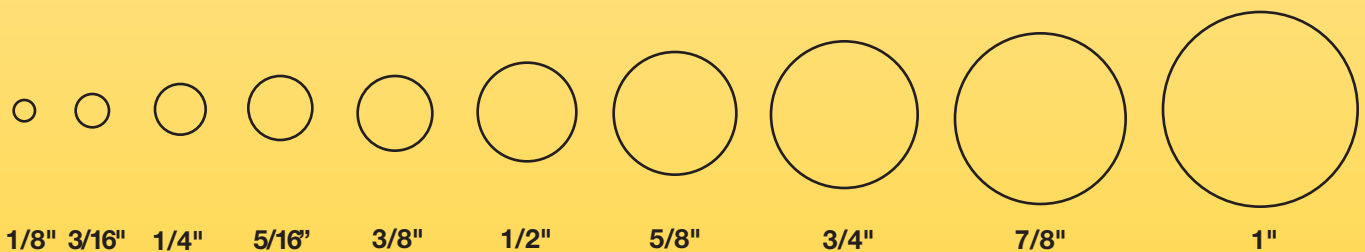
All brass fittings shown in this publication are manufactured from Alloy CDA 353, 360 or 377. The fittings should not be exposed to aggressive or destructive atmospheres which may corrode the fittings, including but not limited to ammonia, nitrogen, hydrocarbons or mercury atmospheres.

Additional application data and assistance can be obtained by writing the Company's Sales Department.

## SIZE COMPARISONS Actual Outside Diameters of Pipe Threads



## Actual Outside Diameters of Tubing



## Male Thread Profiles

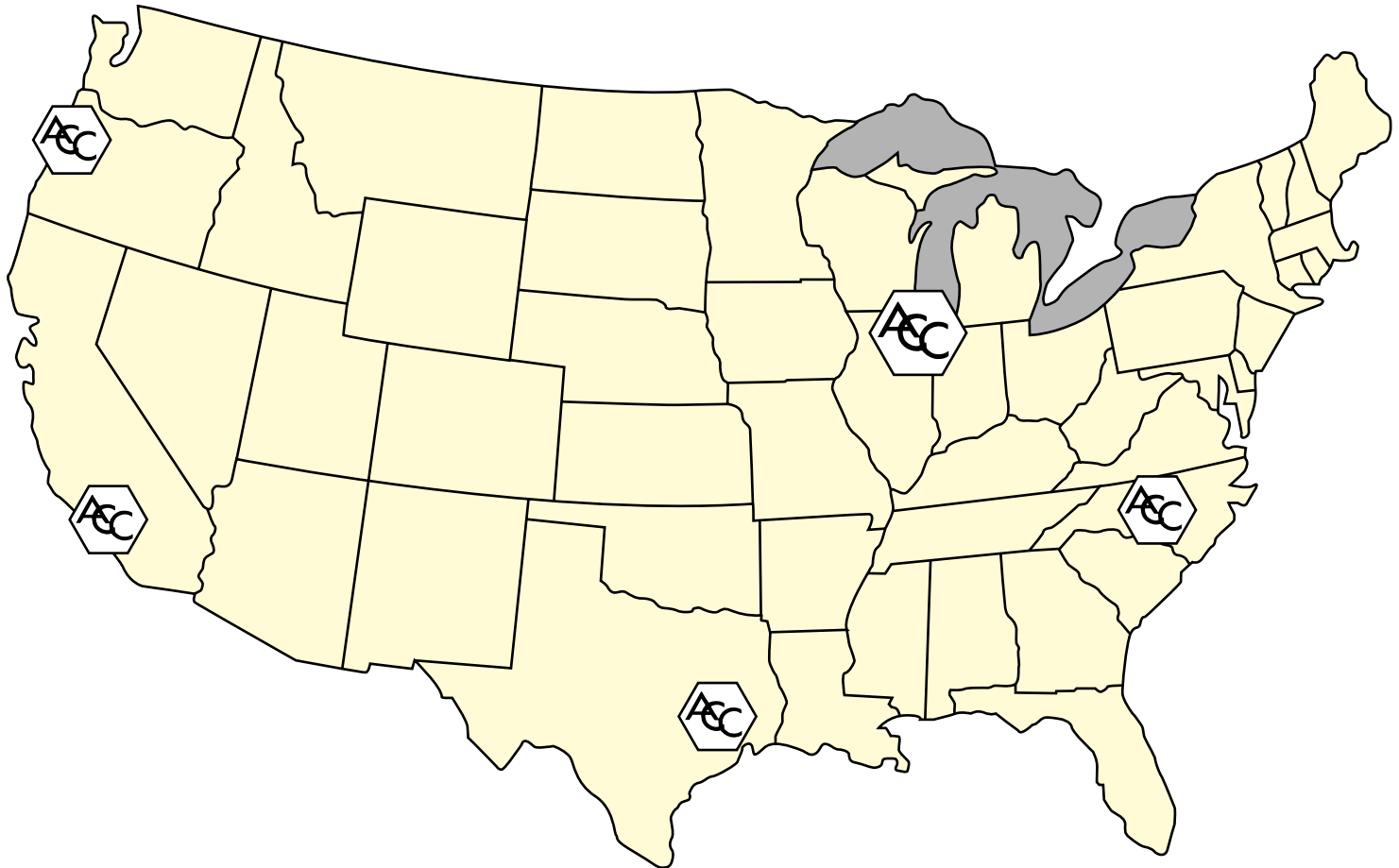




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# WAREHOUSE SERVICE CENTERS

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*Air  
Chiefs  
& Accessories*



**DIXON**  
BOSS  
**ON**

**SAFETY  
ALERT**

A short length whip hose is recommended on impact tools connected with these couplers to prevent premature wear caused by excessive vibration.

Dixon's couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling and retention device, and the proper application of the coupling to the hose are of utmost importance.

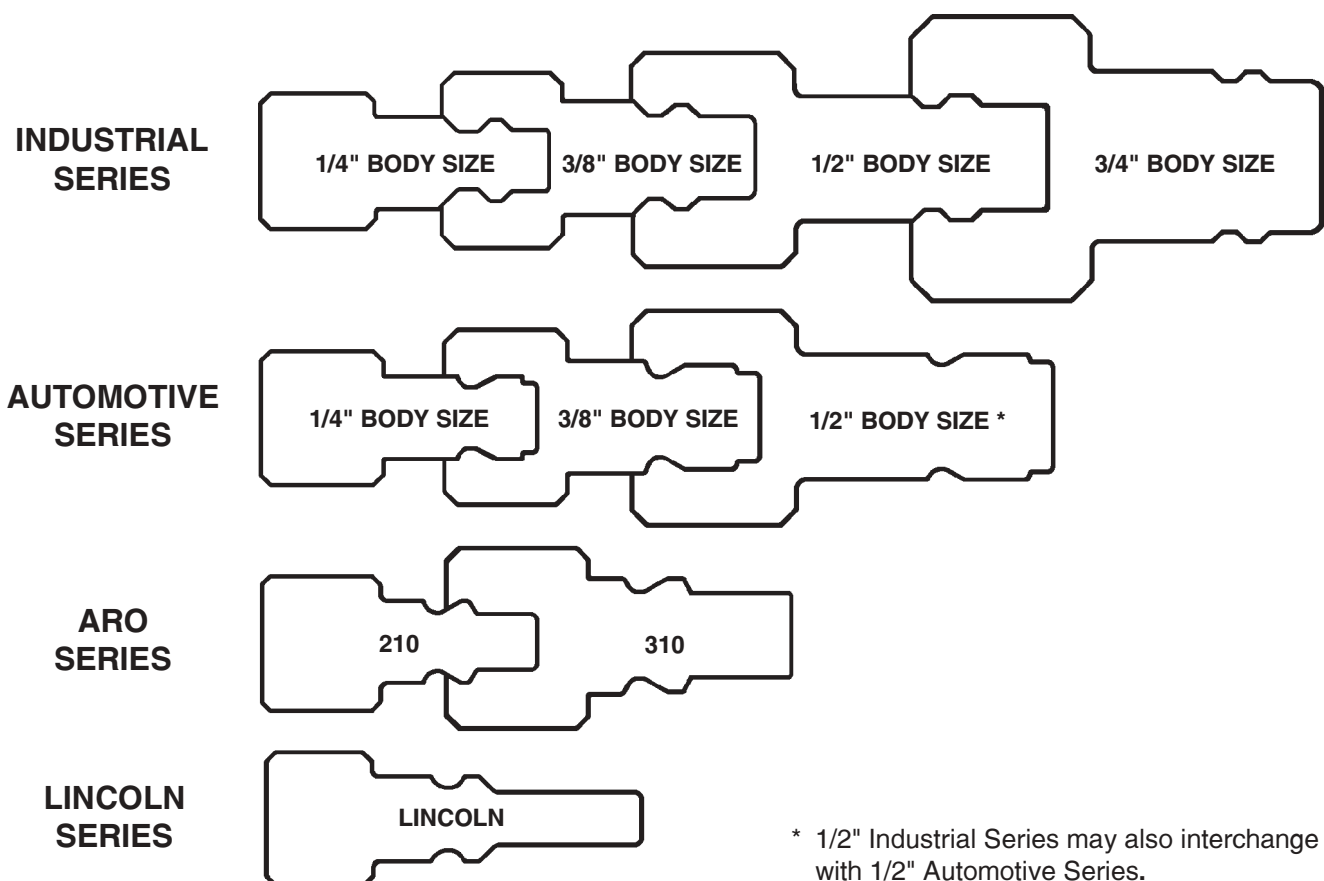
Users must consider the size, temperature, application, media, pressure and hose and coupling manufacturer's recommendations when selecting the proper hose assembly components. Dixon recommends that all hose assemblies be tested in accordance with the Rubber Manufacturers Association's recommendations and be inspected regularly (before each use) to ensure that they are not damaged or have become loose.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices such as safety clips or safety cables are recommended.

If any problem is detected, couplings must be removed from service immediately.

Dixon is available to consult, train and recommend the proper selection and application of all fittings we sell. We strongly recommend that distributors and end users make use of Dixon's Testing and Recommendation Services. Dixon can be contacted at 1-800-355-1991.

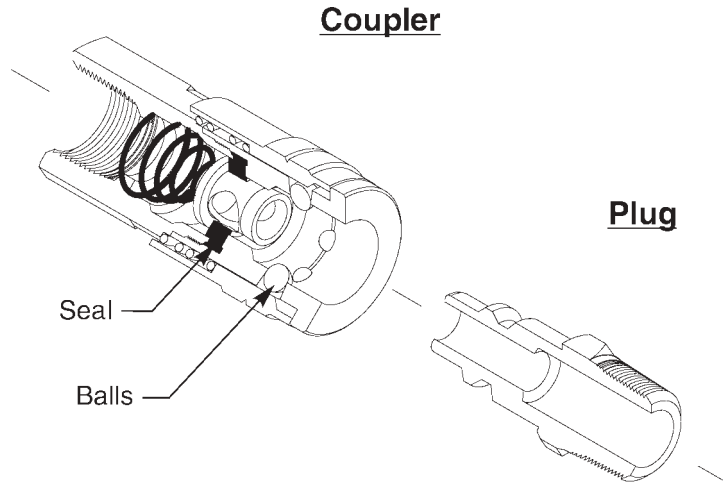
## Actual Size Profile Chart



### Recommended Applications:

- Plant Air
- Pneumatic Tools
- Low Pressure Fluid Transfer
- General Purpose Air Handling

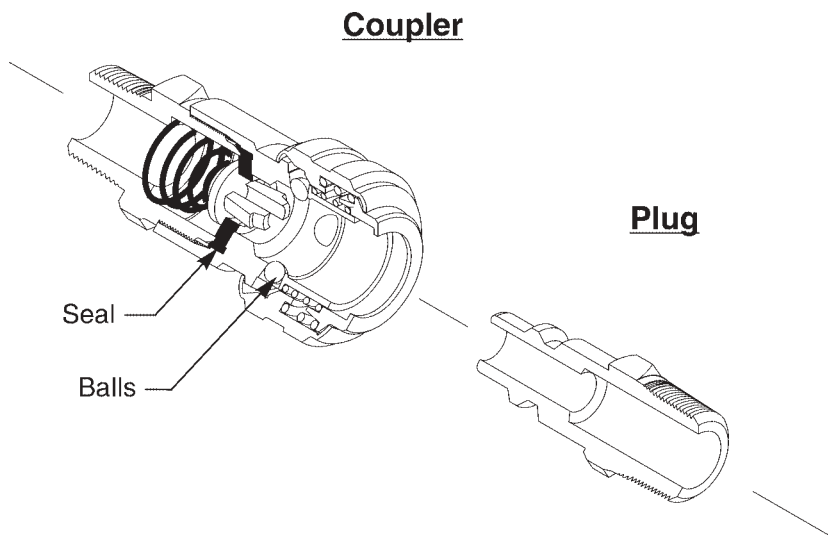
## Semi-Automatic Design



Semi-Automatic Quick-Connect Couplers are generally accepted as the fastest, easiest and most reliable means of joining low pressure pneumatic lines.

Hardened balls or pins engage a groove in the coupler plug to hold it securely against a soft positive seal gasket. This also permits the assembly to swivel, which helps to prevent kinking or twisting of the hose. A sliding sleeve releases the locking balls or pins when retracted, permitting the plug to be inserted or removed. The sleeve automatically returns to the locked position when released. An automatic shut-off valve in the coupler seals when being uncoupled, eliminating the need for a separate shut-off.

## Automatic Design



Automatic Quick-Connect coupling design allows the user to connect and disconnect the fitting with one hand. The sleeve action is designed opposite of the conventional design which reduces the chance of accidental disconnect when pulled across obstacles.

# Universal Couplers

Rated 150 PSI.

**AUTOMATIC - PUSH TO CONNECT**  
COUPLERS SHUT-OFF WHEN DISCONNECTED

1/4"

1/4"

Plugs

Flow Rating: 37 CFM at 100 PSI

Couplers

Universally compatible with multiple plug configurations.

Size	Part #
<b>MALE NPT</b>	
1/4"	<b>UDC21</b>
3/8"	<b>UDC2103</b>
<b>FEMALE NPT</b>	
1/4"	<b>UDC20</b>
3/8"	<b>UDC2023</b>
<b>HOSE SHANK</b>	
1/4"	<b>UDC2042</b>
3/8"	<b>UDC2044</b>

## Automotive

### AUTOMOTIVE INTERCHANGE

"Air Chief" will interchange with the more popular makes of Automotive Quick-Connect fittings which are accepted as "standard" such as Amflo, Dill, Milton and Truflate. There are some makes however, which do not interchange with any others. If you plan to interchange these couplings, make sure you have plug ends with the proper configuration. Rated **300 PSI**. Temp. range - **40° F** to **250° F**.

**SEMI-AUTOMATIC - PULL SLEEVE TO CONNECT**

COUPLERS SHUT-OFF WHEN DISCONNECTED

1/4"

STEEL  
Plugs

Flow Rating: 37 CFM at 100 PSI

1/4"

BRASS  
Couplers

Size	Part #	Size	Part #
<b>MALE NPT</b>		<b>MALE NPT</b>	
1/8"	<b>DCP101</b>	1/8"	<b>DC101</b>
1/4"	<b>DCP1</b>	1/4"	<b>DC1</b>
3/8"	<b>DCP103</b>	3/8"	<b>DC103</b>
<b>FEMALE NPT</b>		<b>FEMALE NPT</b>	
1/8"	<b>DCP221</b>	1/8"	<b>DC221</b>
1/4"	<b>DCP2</b>	1/4"	<b>DC2</b>
3/8"	<b>DCP223</b>	3/8"	<b>DC223</b>
<b>HOSE SHANK</b>		<b>HOSE SHANK</b>	
1/4"	<b>DCP142</b>	1/4"	<b>DC242</b>
3/8"	<b>DCP144</b>	5/16"	<b>DC243</b>
		3/8"	<b>DC244</b>
<b>PUSH-ON HOSE BARB</b>		<b>PUSH-ON HOSE BARB</b>	
1/4"	<b>DCP142L</b>	1/4"	<b>DC242L</b>
3/8"	<b>DCP144L</b>	3/8"	<b>DC244L</b>



# Automotive

SEMI-AUTOMATIC - PULL SLEEVE TO CONNECT  
COUPLERS SHUT-OFF WHEN DISCONNECTED

**3/8"**  
**STEEL**  
**Plugs**

Flow Rating: 70 CFM at 100 PSI

**3/8"**  
**STEEL**  
**Couplers**

Size	Part #	Size	Part #
<b>MALE NPT</b>		<b>MALE NPT</b>	
1/4"	<b>DCP7</b>	1/4"	<b>DC7</b>
3/8"	<b>DCP5</b>	3/8"	<b>DC5</b>
		1/2"	<b>DC504</b>
<b>FEMALE NPT</b>		<b>FEMALE NPT</b>	
1/4"	<b>DCP8</b>	1/4"	<b>DC8</b>
3/8"	<b>DCP6</b>	3/8"	<b>DC6</b>
1/2"	<b>DCP624</b>	1/2"	<b>DC624</b>
<b>HOSE SHANK</b>		<b>HOSE SHANK</b>	
1/4"	<b>DCP542</b>	1/4"	<b>DC642</b>
3/8"	<b>DCP544</b>	3/8"	<b>DC644</b>
		1/2"	<b>DC645</b>
<b>PUSH-ON HOSE BARB</b>		<b>PUSH-ON HOSE BARB</b>	
3/8"	<b>DCP544L</b>	1/4"	<b>DC642L</b>
		3/8"	<b>DC644L</b>

SEMI-AUTOMATIC - PULL SLEEVE TO CONNECT  
COUPLERS SHUT-OFF WHEN DISCONNECTED

**1/2"**  
**STEEL**  
**Plugs**

Flow Rating: 150 CFM at 100 PSI

**1/2"**  
**STEEL**  
**Couplers**

Size	Part #	Size	Part #
<b>MALE NPT</b>		<b>MALE NPT</b>	
3/8"	<b>DCP1703</b>	3/8"	<b>DC903</b>
1/2"	<b>DCP17</b>	1/2"	<b>DC9</b>
3/4"	<b>DCP1706</b>	3/4"	<b>DC906</b>
<b>FEMALE NPT</b>		<b>FEMALE NPT</b>	
3/8"	<b>DCP1823</b>	3/8"	<b>DC1023</b>
1/2"	<b>DCP18</b>	1/2"	<b>DC10</b>
3/4"	<b>DCP1826</b>	3/4"	<b>DC1026</b>
<b>HOSE SHANK</b>		<b>HOSE SHANK</b>	
3/8"	<b>DCP1744</b>	3/8"	<b>DC1044</b>
1/2"	<b>DCP1745</b>	1/2"	<b>DC1045</b>
3/4"	<b>DCP1746</b>	3/4"	<b>DC1046</b>

## INDUSTRIAL INTERCHANGE

"Air Chief" Industrial Quick-Connect Fittings are of the popular Industrial Interchange design and will interchange with many other brands. Rated to **300 PSI**. Interchanges with MIL Spec. C-4109. Temp. range - 40° to 250° F.

**1/4"**

**STEEL**

**Plugs**

Flow Rating: 37 CFM at 100 PSI

**1/4"**

**BRASS**

**Plugs**

Size	Part #
------	--------

**MALE NPT**

1/8"	<b>DCP2101</b>
1/4"	<b>DCP21</b>
3/8"	<b>DCP2103</b>



**FEMALE NPT**

1/8"	<b>DCP2021</b>
1/4"	<b>DCP20</b>
3/8"	<b>DCP2023</b>



**HOSE SHANK**

1/4"	<b>DCP2142</b>
5/16"	<b>DCP2143</b>
3/8"	<b>DCP2144</b>



**PUSH-ON  
HOSE BARB**

1/4"	<b>DCP2142L</b>
3/8"	<b>DCP2144L</b>



Size	Part #
------	--------

**MALE NPT**

1/8"	<b>DCP2101B</b>
1/4"	<b>DCP21B</b>
3/8"	<b>DCP2103B</b>

**FEMALE NPT**

1/4"	<b>DCP20B</b>
3/8"	<b>DCP2023B</b>

**HOSE SHANK**

1/4"	<b>DCP2142B</b>
3/8"	<b>DCP2144B</b>

**3/8"**

**STEEL**

**Plugs**

Flow Rating:  
70 CFM at 100 PSI

**1/2"**

**STEEL**

**Plugs**

Flow Rating:  
150 CFM at 100 PSI

Size	Part #
------	--------

**MALE NPT**

1/4"	<b>DCP2502</b>
3/8"	<b>DCP25</b>
1/2"	<b>DCP2504</b>



**FEMALE NPT**

1/4"	<b>DCP2622</b>
3/8"	<b>DCP26</b>
1/2"	<b>DCP2624</b>



**HOSE SHANK**

1/4"	<b>DCP2542</b>
3/8"	<b>DCP2544</b>
1/2"	<b>DCP2545</b>



**PUSH-ON  
HOSE BARB**

1/4"	<b>DCP2542L</b>
3/8"	<b>DCP2544L</b>



Size	Part #
------	--------

**MALE NPT**

3/8"	<b>DCP1703</b>
1/2"	<b>DCP17</b>
3/4"	<b>DCP1706</b>

**FEMALE NPT**

3/8"	<b>DCP1823</b>
1/2"	<b>DCP18</b>
3/4"	<b>DCP1826</b>

**HOSE SHANK**

3/8"	<b>DCP1744</b>
1/2"	<b>DCP1745</b>
3/4"	<b>DCP1746</b>



# Industrial

**SEMI-AUTOMATIC - PULL SLEEVE TO CONNECT**  
 COUPLERS SHUT-OFF WHEN DISCONNECTED  
 FOR AIR SERVICE ONLY

**AUTOMATIC - PUSH TO CONNECT**  
 COUPLERS SHUT-OFF WHEN DISCONNECTED  
 FOR AIR SERVICE ONLY

**1/4"**  
 BRASS  
 Couplers

Flow Rating: 37 CFM at 100 PSI

**1/4"**  
 BRASS  
 Couplers



Size	Part #
<b>MALE NPT</b>	
1/8"	DC2101
1/4"	DC21
3/8"	DC2103

Size	Part #
<b>MALE NPT</b>	
1/4"	DCB21
3/8"	DCB2103



<b>FEMALE NPT</b>	
1/8"	DC2021
1/4"	DC20
3/8"	DC2023

<b>FEMALE NPT</b>	
1/4"	DCB20
3/8"	DCB2023



<b>HOSE SHANK</b>	
1/4"	DC2042
5/16"	DC2043
3/8"	DC2044

<b>HOSE SHANK</b>	
1/4"	DCB2042
3/8"	DCB2044



<b>PUSH-ON HOSE BARB</b>	
1/4"	DC2042L
3/8"	DC2044L

**SEMI-AUTOMATIC - PULL SLEEVE TO CONNECT**  
 COUPLERS SHUT-OFF WHEN DISCONNECTED  
 FOR AIR SERVICE ONLY

**AUTOMATIC - PUSH TO CONNECT**  
 COUPLERS SHUT-OFF WHEN DISCONNECTED  
 FOR AIR SERVICE ONLY

**3/8"**  
 STEEL  
 Couplers

Flow Rating: 70 CFM at 100 PSI

**3/8"**  
 BRASS  
 Couplers



Size	Part #
<b>MALE NPT</b>	
1/4"	DC2502
3/8"	DC25
1/2"	DC2504

Size	Part #
<b>MALE NPT</b>	
1/4"	DCB2502
3/8"	DCB25
1/2"	DCB2504



<b>FEMALE NPT</b>	
1/4"	DC2622
3/8"	DC26
1/2"	DC2624

<b>FEMALE NPT</b>	
1/4"	DCB2622
3/8"	DCB26
1/2"	DCB2624



<b>HOSE SHANK</b>	
1/4"	DC2642
3/8"	DC2644
1/2"	DC2645

<b>HOSE SHANK</b>	
1/4"	DCB2642
3/8"	DCB2644
1/2"	DCB2645



<b>PUSH-ON HOSE BARB</b>	
1/4"	DC2642L
3/8"	DC2644L

# Industrial







**SEMI-AUTOMATIC - PULL SLEEVE TO CONNECT**  
 COUPLERS SHUT-OFF WHEN DISCONNECTED  
**FOR AIR SERVICE ONLY**

**AUTOMATIC - PUSH TO CONNECT**  
 COUPLERS SHUT-OFF WHEN DISCONNECTED  
**FOR AIR SERVICE ONLY**

**1/2"**
Flow Rating: 150 CFM at 100 PSI
**1/2"**

**STEEL**
**BRASS**

**Couplers**
**Couplers**

	Size	Part #		Size	Part #	
	<b>MALE NPT</b>			<b>MALE NPT</b>		
	3/8"	<b>DC903</b>		3/8"	<b>DCB903</b>	
	1/2"	<b>DC9</b>		1/2"	<b>DCB9</b>	
	3/4"	<b>DC906</b>		3/4"	<b>DCB906</b>	
	<b>FEMALE NPT</b>			<b>FEMALE NPT</b>		
	3/8"	<b>DC1023</b>		3/8"	<b>DCB1023</b>	
	1/2"	<b>DC10</b>		1/2"	<b>DCB10</b>	
	3/4"	<b>DC1026</b>		3/4"	<b>DCB1026</b>	
	<b>HOSE SHANK</b>			<b>HOSE SHANK</b>		
	3/8"	<b>DC1044</b>		3/8"	<b>DCB1044</b>	
	1/2"	<b>DC1045</b>		1/2"	<b>DCB1045</b>	
	3/4"	<b>DC1046</b>		3/4"	<b>DCB1046</b>	

# Industrial

## INDUSTRIAL INTERCHANGE







Interchanges with Hansen and Foster 3/4" Series. Rated 220 PSI.

**AUTOMATIC - PUSH TO CONNECT**  
 COUPLERS SHUT-OFF WHEN DISCONNECTED  
**DO NOT DISCONNECT UNDER PRESSURE**

**3/4"**
Flow Rating: 200 CFM at 100 PSI
**3/4"**

**STEEL**
**BRASS**

**Plugs**
**Couplers**

	Size	Part #		Size	Part #	
	<b>MALE NPT</b>			<b>MALE NPT</b>		
	1/2"	<b>DCP7104</b>		1/2"	<b>DC7104</b>	
	3/4"	<b>DCP7106</b>		3/4"	<b>DC7106</b>	
	1"	<b>DCP7108</b>		1"	<b>DC7108</b>	
	<b>FEMALE NPT</b>			<b>FEMALE NPT</b>		
	1/2"	<b>DCP7024</b>		1/2"	<b>DC7024</b>	
	3/4"	<b>DCP7026</b>		3/4"	<b>DC7026</b>	
	1"	<b>DCP7028</b>		1"	<b>DC7028</b>	
	<b>HOSE SHANK</b>			<b>HOSE SHANK</b>		
	1/2"	<b>DCP7145</b>		1/2"	<b>DC7045</b>	
	3/4"	<b>DCP7146</b>		3/4"	<b>DC7046</b>	
	1"	<b>DCP7148</b>		1"	<b>DC7048</b>	

# ARO Speed

## ARO SPEED INTERCHANGE

These semi-automatic quick connects interchange with both the ARO 210 and 310 Design.  
Rated **300 PSI**.

**SEMI-AUTOMATIC - PULL SLEEVE TO CONNECT**  
COUPLERS SHUT-OFF WHEN DISCONNECTED

**1/4"**

**STEEL**  
**Plugs**

Flow Rating: 37 CFM at 100 PSI

**1/4"**

**Couplers**

(210 Series)

Size	Part #	Size	Part #
<b>MALE NPT</b>		<b>MALE NPT</b>	
1/4"	<b>DCP37</b>	1/4"	<b>DC37</b>
3/8"	<b>DCP3703</b>	3/8"	<b>DC3703</b>
<b>FEMALE NPT</b>		<b>FEMALE NPT</b>	
1/4"	<b>DCP38</b>	1/4"	<b>DC38</b>
3/8"	<b>DCP3823</b>	3/8"	<b>DC3823</b>
<b>HOSE SHANK</b>		<b>HOSE SHANK</b>	
1/4"	<b>DCP3742</b>	1/4"	<b>DC3842</b>
3/8"	<b>DCP3744</b>	3/8"	<b>DC3844</b>
<b>PUSH-ON HOSE BARB</b>		<b>PUSH-ON HOSE BARB</b>	
1/4"	<b>DCP3742L</b>	1/4"	<b>DC3842L</b>
3/8"	<b>DCP3744L</b>	3/8"	<b>DC3844L</b>

**3/8"**

**STEEL**  
**Plugs**

Flow Rating: 70 CFM at 100 PSI

**3/8"**

**STEEL**  
**Couplers**

(310 Series)

Size	Part #	Size	Part #
<b>MALE NPT</b>		<b>MALE NPT</b>	
3/8"	<b>DCP35</b>	3/8"	<b>DC35</b>
<b>FEMALE NPT</b>		<b>FEMALE NPT</b>	
3/8"	<b>DCP36</b>	3/8"	<b>DC36</b>

# Lincoln Series

## LINCOLN INTERCHANGE

These sockets and plugs are interchangeable with Lincoln's "Long Stem" series. **Rated 300 PSI**.

**SEMI-AUTOMATIC - PULL SLEEVE TO CONNECT**  
COUPLERS SHUT-OFF WHEN DISCONNECTED

**STEEL**  
**Plugs**

Flow Rating: 37 CFM at 100 PSI









**BRASS**  
**Couplers**







Size	Part #	Size	Part #
<b>MALE NPT</b>		<b>MALE NPT</b>	
1/4"	<b>DCP27</b>	1/4"	<b>DC27</b>
<b>FEMALE NPT</b>		<b>FEMALE NPT</b>	
1/4"	<b>DCP28</b>	1/4"	<b>DC28</b>

# A Series

## Maximum Working Pressure - 500 PSI

"Air Chief" A Series are intended for use in compressed air service where the convenience of one hand operation and a compact profile is desired. Machined from solid Brass bar stock, Stainless Steel balls and springs maximize corrosion resistance.

1/8" BRASS Plugs		AUTOMATIC - PUSH TO CONNECT SLEEVE		1/8" BRASS Couplers	
		Flow Rating: 7 CFM at 90 PSI			
	Size: 1/8" Part #: <b>A1M1-B</b>		Size: 1/8" Part #: <b>1AM1-B</b>		
	Size: 1/8" Part #: <b>A1F1-B</b>		Size: 1/8" Part #: <b>1AF1-B</b>		
	Size: 1/8" Part #: <b>A1S1-B</b>		Size: 1/8" Part #: <b>1AS1-B</b>		
	Size: .125 x 1/4" Part #: <b>A1P1-B</b> Size: .170 x 1/4" Part #: <b>A1P1.5-B</b>		Size: .125 x 1/4" Part #: <b>1AP1-B</b> Size: .170 x 1/4" Part #: <b>1AP1.5-B</b>		

1/4" BRASS Plugs		AUTOMATIC - PUSH TO CONNECT SLEEVE		1/4" BRASS Couplers	
		Flow Rating: 25 CFM at 90 PSI			
	Size: 1/4" Part #: <b>A2M2-B</b>		Size: 1/4" Part #: <b>2AM2-B</b>		
	Size: 1/4" Part #: <b>A2F2-B</b>		Size: 1/4" Part #: <b>2AF2-B</b>		
	Size: 1/4" Part #: <b>A2S2-B</b>		Size: 1/4" Part #: <b>2AS2-B</b>		



# B Series

## Maximum Working Pressure: 150 PSI

- Designed for applications requiring less than 3 SCFM.
- Stainless Steel springs and balls provide corrosion resistance.

BRASS Plugs

BRASS Couplers

	Size: 1/8" Part #: <b>B1S1-B</b>		Size: 1/8" Part #: <b>1BM1-B</b>
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# Ball Swivels

## 1/4" Plugs x Male NPT

Rated 250 PSI.

Industrial Plug



MALE NPT

Size	Part #
1/4"	<b>DCP21SWIV</b>

ARO Plug



MALE NPT

Size	Part #
1/4"	<b>DCP37SWIV</b>

Automotive Plug



MALE NPT

Size	Part #
1/4"	<b>DCP1SWIV</b>

## Hose Shanks

Brass and hardened Steel construction.  
O-ring seals.  
"Wobble" action for increased flexibility with air driven tools.

### BALL SWIVEL

Hose Size	Male NPT	Part #
1/4"	1/4"	<b>D444S</b>
3/8"	1/4"	<b>D446S</b>



## Push-On Hose Barb

These fittings have a special barb design for secure grip in push-on type air hoses.

### PUSH-ON BALL SWIVEL

Hose Size	Male NPT	Part #
1/4"	1/4"	<b>D444SL</b>
3/8"	1/4"	<b>D446SL</b>



# In-Line Swivels

## Steel

This heavy-duty free turning swivel relieves the hose of twist and torsional strain which always occurs when hose is worked from a rigid outlet. For air service only. Rated to **250 PSI**. Minimum **PSI 35**.

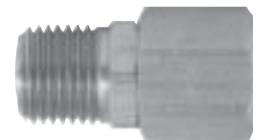


Part #	Male NPT	Female NPT
<b>SV17</b>	3/8"	1/2"
<b>SV20</b>	1/2"	1/2"
<b>SV26</b>	3/4"	3/4"

## Brass

For fast and efficient service that avoids hose kinking. Rated to **150 PSI**. For use with air only.

Part #	Male NPT	Female NPT
<b>D344R</b>	1/4"	1/4"
<b>D366R</b>	3/8"	3/8"



# Safety Blow Guns

**SAFETY**  
**ALERT**

**NOTE:** These Safety Blow Guns have a safety tip which prevents buildup of tip pressure in the event the outlet is obstructed or "dead ended". It complies with the requirements for OSHA 1910.242(B) and 1910.95 when used on air lines of 150 PSI or less.

## "Air Chief"

Basic safety blow gun for general purpose use. Tip pressure will not exceed **30 PSI**, yet gives a good blast of air for cleaning. **Safety glasses or shield must be worn when using any blow gun.**



**Part #**  
**D204-30**

- Large vinyl thumb grip provides additional user comfort.
- *Can now be used for water.*
- The area at the bottom of the blow gun is recessed to perfectly fit the user's fingers, allowing a firm, yet relaxed grip.
- 1/4" Female NPT

## Premium

The Premium Safety Blow Gun features a tough Zinc die cast body that is made to last in even the harshest environment.



**Part #**  
**D204-30P**

- Flat black powder coat finish and Nickel plated tip.
- Superior corrosion resistance.
- Ergonomic design of the body and large operating lever reduce user fatigue and discomfort, even during long term use.
- 1/4" Female NPT

## Booster

The Safety Air Booster Blow Gun features multiple venturi holes that maximize air volume while conforming to OSHA standards.



**Part #**  
**D204-30SB**

- Noncorrosive heavy wall, yet lightweight construction assures long life in rugged industrial environments while easing user fatigue.
- All Brass internal components assure rust free operation.
- Ergonomic design of the body and large operating lever reduce user fatigue and discomfort, even during long term use.
- 1/4" Female NPT

# Tipped Blow Guns

**SAFETY**  
**ALERT**

**CAUTION:** These blow guns do not have a safety by-pass to prevent buildup of tip pressure in the event of tip blockage. It may be used for cleaning purposes only if the air supply (inlet pressure) has been reduced to 30 PSI or less.

## Rubber Tipped



### Rubber Tipped

**Part #**  
**D201**

Provides leakproof seal between gun and fluid line or other opening. Also excellent for cleaning molds or delicate surfaces where a metal tip might scratch or otherwise harm critical areas.

## Brass Tipped



### Brass Tipped

**Part #**  
**D605**

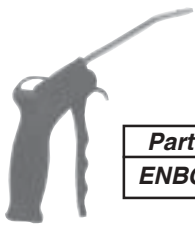
Ventless tip provides the most economical means of achieving a concentrated air stream for many blow-off applications.



# Pistol Grip Blow Guns

- Conforms to U.S. Dept. of Labor, OSHA Standard 1910.242 (B) allowing a maximum of 30 PSI outlet pressure at the nozzle when dead-ended.
- Conforms to U.S. Dept. of Labor, OSHA Standard 1910.95 regulating noise level exposure.
- Conforms to Title 41, Walsh-Healy Rules and Regulations P50-204.8, Safety and Health Standards.
- 1/4" Female NPT inlet.

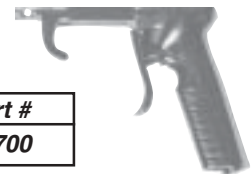
## Extended Nozzle Safety Safety



**Part #**  
**ENBG1**

- Slender 4" extended nozzle allows access to hard to reach places and holes as small as .200".
- Pressure rating - **150 PSI**
- Variable output trigger enables user to control air flow.
- Hook design near trigger provides finger protection as well as easy storage.
- Lightweight to help minimize user fatigue.
- Side holes allow air to escape if nozzle tip is dead-ended, thus preventing back pressure buildup.

- Contoured pistol-grip for safe, comfortable handling, even with greasy hands.
- Convenient "hang-up" hook.



**Part #**  
**PG700**

# Extensions & Tips

## Extensions

Size Extension	Part #
6"	<b>BGE6</b>
10"	<b>BGE10</b>
12"	<b>BGE12</b>

5/16" tip facilitates use in tight places.  
Blow gun tip thread is 1/8" NPT.



fits Rubber Tipped Blow Gun



**Part #**  
**D201RT**

fits all Safety Blow Guns  
and Tipped Blow Guns

**Part #**  
**SST10**



# "Coil-Chief" Self-Storage Air Hose

Repair/assembly kits include rigid or swivel male fittings, nut, insert, ferrule and spring guard.

\* Bulk hose needs assembly kits for ends.

- "Coil-Chief" comes standard with swivel on one end.
- Hose is yellow.

Part #	Size / Type
<b>RK090</b>	1/4" Rigid Male
<b>RK092</b>	1/4" Swivel Male
<b>RK110</b>	3/8" Rigid Male
<b>RK112</b>	3/8" Swivel Male
<b>RK118</b>	1/2" Rigid Male
<b>RK119</b>	1/2" Swivel Male

### Bulk Hose - No Fittings

Part #	Hose I.D. x Length
* <b>CC14100B</b>	1/4" x 100'
* <b>CC38100B</b>	3/8" x 100'
* <b>CC12100B</b>	1/2" x 100'



**Nylon Working Pressure: 200 PSI at 70° F**

Part #	Male NPT Size	Hose I.D. x Length
<b>CC1412</b>	1/4"	1/4" x 12'
<b>CC1425</b>	1/4"	1/4" x 25'
<b>CC1450</b>	1/4"	1/4" x 50'
<b>CC3825</b>	3/8"	3/8" x 25'
<b>CC3850</b>	3/8"	3/8" x 50'
<b>CC1225</b>	1/2"	1/2" x 25'
<b>CC1250</b>	1/2"	1/2" x 50'

### Polyurethane Self-Storing Air Hose

Part #	Male NPT Size	Hose I.D. x Length
<b>PU1410</b>	1/4"	1/4" x 10'
<b>PU1415</b>	1/4"	1/4" x 15'
<b>PU1425</b>	1/4"	1/4" x 25'
<b>PU3815</b>	3/8"	3/8" x 15'
<b>PU3820</b>	3/8"	3/8" x 20'
<b>PU3825</b>	3/8"	3/8" x 25'
<b>PU3850</b>	3/8"	3/8" x 50'
<b>PU1215</b>	1/2"	1/2" x 15'

Extremely flexible - resists kinking.  
Impervious to abrasions, heat and oil.  
Superior elasticity and coil memory.  
Both ends swivel.  
Hose is blue.

**Polyurethane Working Pressure: 125 PSI at 70° F.**





# Mufflers, Filters & Lubricators

## Conical Mufflers

Conical Mufflers are easy to install, threading the exhaust ports of air tool, valves, cylinders and other pneumatic equipment. They offer an economical method of reducing the noise levels below 90 dBA, conforming with OSHA standards. The 40 micron Sintered Bronze element is bonded directly to the Brass pipe thread fittings. *NOTE: These elements are not replaceable.*



Part #	Size	Overall Length	Hex
<b>CMF18</b>	1/8"	29/32	7/16
<b>CMF28</b>	1/4"	1 1/4	9/16
<b>CMF38</b>	3/8"	1 9/16	11/16
<b>CMF48</b>	1/2"	1 13/16	7/8
<b>CMF68</b>	3/4"	2 1/8	1 3/16
<b>CMF88</b>	1"	2 7/8	1 3/8

## Muffler/Filter Combination Units

These muffler/filters feature an exclusive replaceable, washable, oil-resistant Sintered Bronze element and solid Brass construction. For use with air valves, air motors, tire changers and other pneumatic equipment. It effectively reduces noise levels to conform to OSHA standards of below 90 dBA with minimal effect on the air flow.



Part #	Size
<b>MF101</b>	1/8"
<b>MF102</b>	1/4"
<b>MF103</b>	3/8"

## Mini In-Line Lubricators

These lubricators can be refilled under line pressure. Oil capacity is 1/4 fluid ounce. Flow rating is 22 SCFM at 100 PSIG. They are manufactured from Aluminum. **Maximum operating conditions: 200 PSIG and 175° F.**



Part #	NPT Inlet	NPT Outlet
<b>ML200</b>	1/4" Female	1/4" Female
<b>ML200M</b>	1/4" Female	1/4" Male
<b>ML300M</b>	3/8" Female	3/8" Male

## Mini In-Line Filters

Filter element rated at 5 microns. Either port may be used as an inlet port. Flow rating is 17 SCFM inlet pressure at 100 PSIG. **Maximum operating conditions: 200 PSIG and 175° F.**



Part #	Description
<b>MF200</b>	1/4" NPT Female x 1/4" NPT Male

# Safety Pop-Off Valves

ASME Code, National Board Certified Safety Valves are designed to protect un-fired pressure vessels from over-pressure. Equipped with a pull ring for manual testing. **Maximum temperature 400° F.**

## Heavy Duty

All Brass construction with Chrome Steel ball on a precision machined Brass seat.

Part #	Preset Press. PSI	SCFM
<b>SV30HD</b>	<b>30</b>	73
<b>SV100HD</b>	<b>100</b>	192
<b>SV125HD</b>	<b>125</b>	234
<b>SV150HD</b>	<b>150</b>	277
<b>SV175HD</b>	<b>175</b>	319
<b>SV200HD</b>	<b>200</b>	361

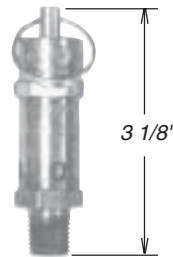
**1/2"  
Male  
NPT**



## Standard

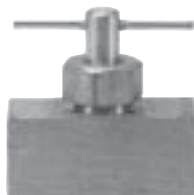
Part #	Preset Press. PSI	SCFM
<b>SV30</b>	<b>30</b>	24
<b>SV100</b>	<b>100</b>	64
<b>SV125</b>	<b>125</b>	78
<b>SV150</b>	<b>150</b>	92
<b>SV175</b>	<b>175</b>	106
<b>SV200</b>	<b>200</b>	120

**1/4"  
Male  
NPT**



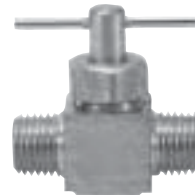
# Needle Valves

Metal-to-metal seats allow positive sealing and flow adjustment. Designed for air and water applications. **Maximum working pressure is 150 PSI.** Valves are constructed from Brass.



**Female x Female**

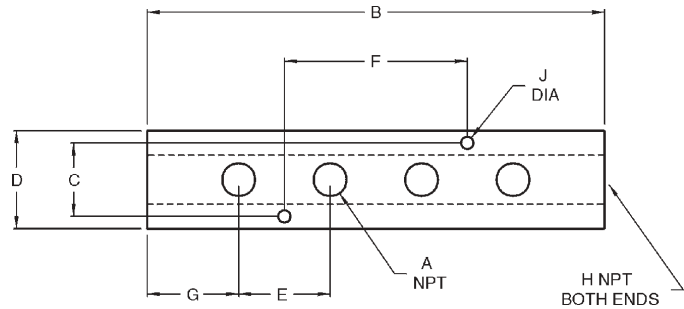
Part #	NPT x NPT
<b>NV2F</b>	1/8" x 1/8"
<b>NV4F</b>	1/4" x 1/4"



**Male x Male**

Part #	NPT x NPT
<b>NV4M</b>	1/4" x 1/4"

## ALUMINUM



Part #	NPT (4) Places	NPT (2) Places	A	B	C	D	E	F	G	H	J
<b>AMF32</b>	1/4 x 3/8		1/4	7 5/8	7/8	1 1/4	1 7/8	3 3/4	1	3/8	.20
<b>AMF42</b>	1/4 x 1/2		1/4	7 5/8	1 1/8	1 1/2	1 7/8	3 3/4	1	1/2	.20
<b>AMF43</b>	3/8 x 1/2		3/8	8	1 1/8	1 1/2	2	4	1	1/2	.20

Maximum working pressure is **300 PSI**.

## 3 IN 1

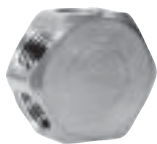


### SUGGESTED APPLICATIONS:

- Supply 3 air operated tools from a single hose.
- Mount to pipe at workbench or overhead. Permits use of air by more than one mechanic.
- Different tools in the shop use different styles of couplers. Mount 3 different style couplers on one manifold.

Part #	(1) Inlet Female NPT	(3) Outlet Female NPT
<b>D3404</b>	1/4" NPT	1/4" NPT
<b>D3406</b>	3/8" NPT	1/4" NPT
<b>D3408</b>	1/2" NPT	1/4" NPT

## FLAT HEX



The Flat Hex Manifold is designed to lay flat on the floor, safely distributing three hose lines to the work area.

Part #	(1) Inlet Female NPT	(3) Outlet Female NPT
<b>3122</b>	1/4" NPT	1/4" NPT
<b>3132</b>	3/8" NPT	1/4" NPT
<b>3133</b>	3/8" NPT	3/8" NPT



**Dixon Valve & Coupling Company**  
**800 High Street**  
**Chestertown, Maryland 21620**

**410-778-2002**

**Customer Service: 800-355-1991**

**Fax: 800-283-4966**

# Air King



*The Right Connection™*

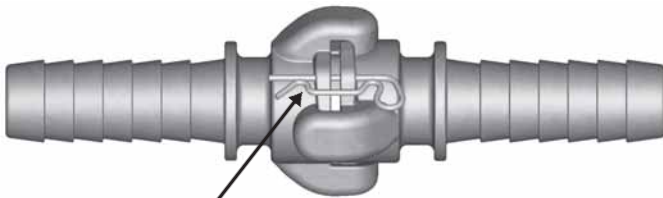
**SERVICE** - Dixon "Air King" couplings are recommended for use on air lines for virtually any type of pneumatic equipment. **The maximum recommended working pressure for Dixon "Air King" universal couplings is 150 PSI or less at ambient temperature (70° F).**

**FEATURES** - Dixon "Air King" fittings have a universal head which is identical for all parts (hose ends, male NPT and female NPT) within the 1/4" to 1" range. This enables any two fittings (within that range) to be directly connected regardless of hose shank or threaded size. Dixon "Air King" couplings with interlocking ferrule also have the standard "Air King" universal head. This enables any of the "Air King" with ferrule couplings to connect directly to any other "Air King" coupling within the 1/4" - 1" range. The ferrule comes attached to the fitting for easy installation. The ferrules can be swaged or crimped depending on your coupling installation equipment. Swaging and crimping dimensions are provided on page 9 of this brochure.

**CONNECTION** - Connections are made by pushing two heads together and turning one quarter turn in a clockwise direction. When this is done and the heads have seated properly, the small holes through the flange on the side of each coupling head will line up. An "Air King" Safety Clip should be inserted at this point to assure the "Air King" couplings will not become accidentally disconnected. If a Safety Clip is not available, insert a cotter pin or wire type retainer through the holes. The fitting is now ready to be put into service.

**DISCONNECTION** - Remove the safety clip, cotter pin or wire. Press the heads firmly together and turn them counterclockwise. The heads will then separate. **NEVER attempt to disconnect any hose while pressure is in the line.**

**INTERCHANGE** - Although "Air King" couplings may interchange with other manufacturers' fittings, **we do not recommend their use with other products.** Not all locking heads are made to the same standards as Dixon "Air King". Use with other brands of fittings may create an unsafe condition, due to poor design or worn equipment.



The use of an "Air King" Safety Clip, cotter pin, or wire type retainer is necessary to assure "Air King" Universal Couplings will not become accidentally disconnected. This guarantees the fittings are properly connected as a safety clip or pin will not go through the holes in the mating flanges until the couplings are locked in place. Only one "Air King" Safety Clip or wire type retainer is required for each "Air King" Universal Coupling Assembly.

Synthetic cord Lanyards (not pictured) are available separately for fastening the Safety Clip to the locking head (see page 6).

**"Air King" available to meet pressure requirements as specified in A-A-59553 commercial item description superseding Mil Spec. WWC-633D.**

### The Importance of "Whip Hose"

The constant vibration created by air tools, like air drills and pavement breakers, is destructive to air hose couplings, especially the quick-acting type. To provide a safer working environment, connect one end of a 3' to 10' length of air hose to the tool using Dixon's "No. 3500" Steel Nipple. This nipple is designed to specifically handle vibration applications. Connect the other end of hose to the air supply using the standard quick-acting coupling. The "Whip Hose" should remain permanently connected to the tool.

## SAFETY

Dixon's couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling, and retention devices; and the proper application of the coupling to the hose are of utmost importance. Users must consider the size, temperature, application, media, pressure, and hose and coupling manufacturer's recommendations when selecting the proper hose assembly components. Dixon recommends that all hose assemblies be tested in accordance with the Rubber Manufacturers Association's recommendations and be inspected regularly (before each use), to ensure that they are not damaged or have become loose.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices, such as safety clips and "King Cable" safety cables, are recommended. If any problem is detected, couplings must be removed from service immediately.

Dixon is always available for consultation concerning the couplings and accessories we sell. We will suggest the appropriate fittings, test those applications when necessary, and train distributors in assembly procedures. We strongly recommend that distributors and end users make use of these services.

Dixon can be contacted at 1-800-355-1991.

**SAFETY**  
**ALERT**

## Male N.P.T. Ends

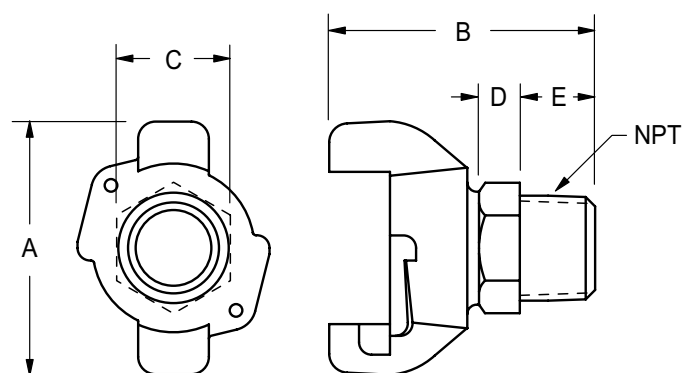
- Male NPT thread with hex for a wrench.
- Available in malleable iron, brass or 316 stainless steel (1/4" not available in Stainless Steel).
- Available in sizes 1/4" to 1".



	Malleable Iron		Brass		316 Stainless Steel
Size	Part #	pkg qty	Part #	pkg qty	Part #
1/4"	<b>AMB1</b>	25	<b>ABB1</b>	25	----
3/8"	<b>AMB</b>	25	<b>ABB</b>	25	<b>RAMB</b>
1/2"	<b>AM2</b>	50	<b>AB2</b>	50	<b>RAM2</b>
3/4"	<b>AM7</b>	50	<b>AB7</b>	50	<b>RAM7</b>
1"	<b>AM12</b>	50	<b>AB12</b>	50	<b>RAM12</b>

### Dimensions

Size	A	B	C	D	E	NPT
1/4"	2 1/2"	2 9/16"	1"	7/16"	5/8"	1/4"
3/8"	2 1/2"	2 9/16"	1"	7/16"	5/8"	3/8"
1/2"	2 1/2"	2 11/16"	1 1/8"	3/8"	13/16"	1/2"
3/4"	2 1/2"	2 13/16"	1 3/8"	3/8"	7/8"	3/4"
1"	2 1/2"	2 7/8"	1 1/2"	3/8"	7/8"	1"



*All dimensions are nominal.*

## Female N.P.T. Ends

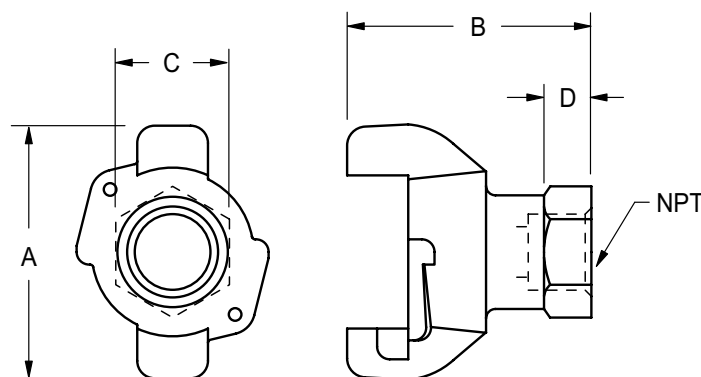
- Female NPT thread with hex for a wrench.
- Available in malleable iron, brass or 316 stainless steel (1/4" not available in Stainless Steel).
- Available in sizes 1/4" to 1".



	Malleable Iron		Brass		316 Stainless Steel
Size	Part #	pkg qty	Part #	pkg qty	Part #
1/4"	<b>AMC1</b>	25	<b>ABC1</b>	25	----
3/8"	<b>AMC</b>	25	<b>ABC</b>	25	<b>RAMC</b>
1/2"	<b>AM3</b>	50	<b>AB3</b>	50	<b>RAM3</b>
3/4"	<b>AM8</b>	50	<b>AB8</b>	50	<b>RAM8</b>
1"	<b>AM13</b>	50	<b>AB13</b>	50	<b>RAM13</b>

### Dimensions

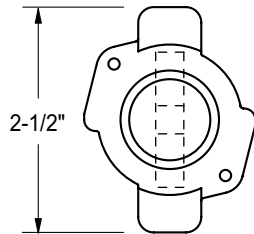
Size	A	B	C	D	NPT
3/8"	2 1/2"	2 7/16"	1 1/8"	3/8"	1/4"
1/2"	2 1/2"	2 7/16"	1 1/8"	3/8"	3/8"
5/8"	2 1/2"	2 7/16"	1 1/8"	3/8"	1/2"
3/4"	2 1/2"	2 1/2"	1 7/16"	3/8"	3/4"
1"	2 1/2"	2 1/16"	1 5/8"	3/8"	1"



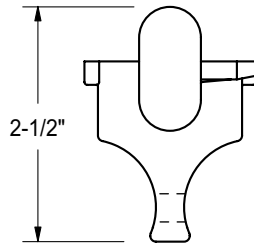
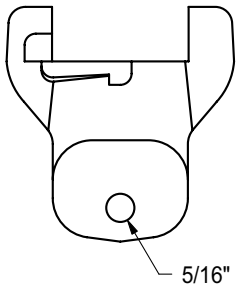
*All dimensions are nominal.*



## Blank Ends



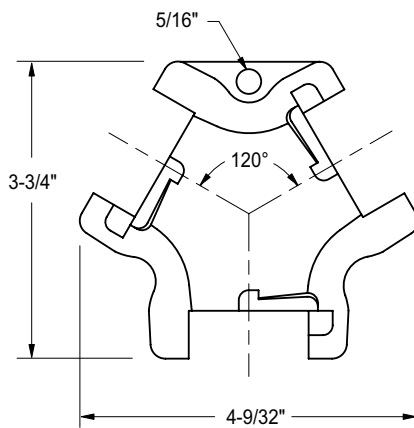
- Blank end fittings have no outlet and are used to block the line at any coupling point.
- The end opposite the coupling head is flat, with an eye for a chain to secure the fitting when not in use.
- Available in malleable iron, brass and 316 stainless steel.



Malleable Iron		Brass		316 Stainless Steel
Part #	pkg qty	Part #	pkg qty	Part #
<b>AM0</b>	25	<b>AB0</b>	25	<b>RAM0</b>

*All dimensions are nominal.*

## Triple Connections



- Triple connection consists of three universal coupling heads in a "Y" form that provides an extra outlet when connected to the line.
- Available in malleable iron or brass.

Malleable Iron		Brass	
Part #	pkg qty	Part #	pkg qty
<b>AM10</b>	25	<b>AB10</b>	25

*All dimensions are nominal.*



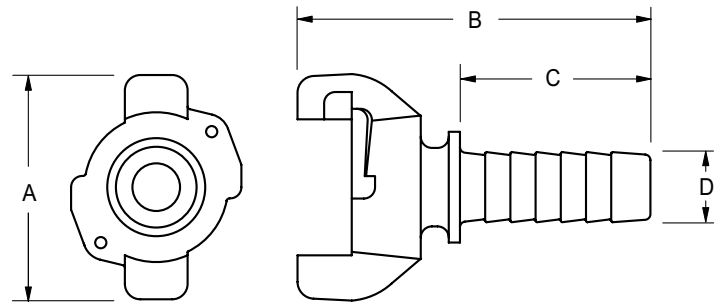
## Hose Ends

- Shanks are long and deeply corrugated.
- Available in malleable iron, brass or 316 stainless steel (5/8" not available in Stainless Steel).
- Available in sizes 3/8" to 1".

Size	Malleable Iron		Brass		316 Stainless Steel
	Part #	pkg qty	Part #	pkg qty	Parte #
3/8"	<b>AMH</b>	25	<b>ABH</b>	25	<b>RAMH</b>
1/2"	<b>AM1</b>	50	<b>AB1</b>	50	<b>RAM1</b>
5/8"	<b>AM5</b>	50	<b>AB5</b>	50	
3/4"	<b>AM6</b>	50	<b>AB6</b>	50	<b>RAM6</b>
1"	<b>AM11</b>	50	<b>AB11</b>	50	<b>RAM11</b>

### Dimensions

Size	A	B	C	D
3/8"	2 1/2"	3 1/2"	1 11/16"	7/16"
1/2"	2 1/2"	3 7/16"	1 5/8"	17/32"
5/8"	2 1/2"	4 1/4"	2 7/16"	11/16"
3/4"	2 1/2"	3 15/16"	2 1/8"	25/32"
1"	2 1/2"	4 25/32"	2 13/16"	1 1/16"



*All dimensions are nominal.*

## "AIR KING" Clamps

- Air King clamps should be used on all Air King shank fittings. Clamp fingers engage behind the universal head to anchor the coupling to the hose. The ridges on the underside provide additional retention.
- Available in zinc plated malleable iron in sizes 3/8" to 1".

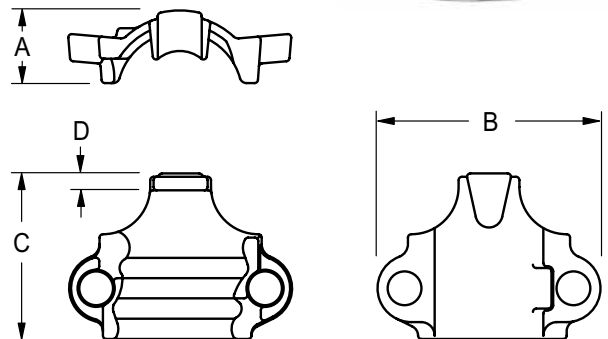
Size	Hose O.D.'s		Torque*	Part #	pkg qty
	From:	To:			
3/8"	11/16"	7/8"	6	<b>CD</b>	100
1/2"	1"	1 3/16"	6	<b>A4</b>	50
3/4"	1 1/8"	1 5/16"	12	<b>A9</b>	50
1"	1 5/16"	1 1/2"	12	<b>A10**</b>	50
1"	1 1/2"	1 13/16"	21	<b>A14</b>	50

\* Recommended torque rating in ft. lbs.

\*\* Can be used with **AM6** and **AM11**.

### Dimensions

Size	A	B	C	D
3/8"	15/32"	1 3/8"	1 7/16"	1/8"
1/2"	11/16"	2 1/16"	1 17/32"	5/32"
3/4"	7/8"	2 1/2"	1 21/32"	1/8"
1"	7/8"	2 19/32"	1 15/16"	9/32"
1"	1"	3 1/32"	2 1/4"	5/32"



*All dimensions are nominal.*

## "AIR KING" Safety Pins, Clips, Lanyards and Washers

The use of an "Air King" Safety Clip or wire type retainer is necessary to assure "Air King" Universal Couplings will not become accidentally disconnected. This guarantees the fittings are properly connected as the pin will not go through holes in mating flanges until the couplings are locked in place. Only one "Air King" Safety Clip or wire type retainer is required for each "Air King" Universal Coupling.



- Heavy duty.
- Oversized.
- **Sold only in bags of 25.**

### "AIR KING" Safety Pins

Wire Diameter	Part #
.058	<b>AKSP1</b>
.091	<b>AKSP25</b>



- Same size for all coupling sizes.
- **Sold only in bags of 25.**

### Standard Safety Clips

Part #
<b>AC1</b>



- Same size for all coupling sizes.

### Stainless Steel Clips

Part #
<b>AC7</b>



- Same size for all coupling sizes.
- Synthetic cord
- **Sold only in bags of 25.**

### Lanyards

Part #
<b>ACL8</b>



- Rubber temperature range: **-20° F to 160° F.**
- Neoprene temperature range: **-20° F to 190° F.**
- Neoprene is oil resistant.
- Same size for all coupling sizes.
- **Sold only in bags of 50.**

### Washers

Description	Part #
Rubber	<b>AWR4</b>
Neoprene	<b>AWS6</b>

## "AIR KING" 4-Lug Quick Acting Couplings

### Rubber Washer for 4-lug

Part #
<b>AWR14</b>
Fits all sizes

Size	Malleable Iron		Brass		pkg qty
	Part #		Part #		
1-1/4"	<b>AM16</b>		<b>AB16</b>		25
1-1/2"	<b>AM21</b>		<b>AB21</b>		25
2"	<b>AM26</b>		<b>AB26</b>		10
1-1/4"	<b>AM18</b>		<b>AB18</b>		25
1-1/2"	<b>AM23</b>		<b>AB23</b>		25
2"	<b>AM28</b>		<b>AB28</b>		20

Rated to 150 PSI



Hose Ends



Female N.P.T. Ends

Not to be used for steam service.

NOTE: Safety clips are same size for both 2-lug and 4-lug Universal Couplings.

See page 6.

Use safety clips on all Universal Coupling applications.

**SAFETY**  
ALERT

**Optional package**  
quantity shown

## "BOSS" Clamps

Hose I.D. Size	Hose O.D.'s From: To:		Plated Malleable Iron		Stainless Steel		Brass	
			Part #	pkg qty	Part #	Torque**	Part #	Torque**
1-1/4"	1-32/64"	1-50/64"	<b>BU18</b>	10	--	40	--	--
1-1/4"	1-44/64"	1-56/64"	<b>187*</b>	10	--	21	--	--
1-1/4"	1-50/64"	2-6/64"	<b>BU19</b>	10	--	40	--	--
1-1/4"	1-56/64"	2-4/64"	<b>206*</b>	20	--	21	--	--
1-1/4"	2-8/64"	2-24/64"	<b>B19</b>	10	<b>RB19</b>	40	<b>BB19</b>	28
1-1/2"	1-52/64"	2"	<b>BU22</b>	10	--	40	--	--
1-1/2"	2"	2-14/64"	<b>B22</b>	10	--	40	--	--
1-1/2"	2"	2-8/64"	<b>212*</b>	10	--	21	--	--
1-1/2"	2-4/64"	2-16/64"	<b>225*</b>	10	--	40	--	--
1-1/2"	2-12/64"	2-24/64"	<b>BU24</b>	10	<b>RBU24</b>	40	<b>BBU24</b>	28
1-1/2"	2-24/64"	2-36/64"	<b>B24</b>	10	<b>RB24</b>	40	<b>BB24</b>	28
1-1/2"	2-36/64"	2-48/64"	<b>B25</b>	10	--	40	--	--
2"	2-16/64"	2-32/64"	<b>250* †</b>	10	--	40	--	--
2"	2-22/64"	2-34/64"	<b>BU28</b>	10	--	60	--	--
2"	2-32/64"	2-48/64"	<b>275* †</b>	10	--	40	--	--
2"	2-32/64"	2-50/64"	<b>BU29</b>	10	<b>RBU29</b>	60	<b>BBU29</b>	40
2"	2-48/64"	3-4/64"	<b>B29</b>	10	<b>RB29</b>	60	<b>BB29</b>	40
2"	2-48/64"	3-4/64"	<b>306* †</b>	10	--	60	--	--
2"	3-6/64"	3-28/64"	<b>B30</b>	5	--	60	--	--



4-Bolt Type

2 Gripping Fingers



4-Bolt Type

4 Gripping Fingers\*

\* 4 gripping fingers.

\*\* Torque applies to plated malleable iron and stainless steel clamps.

- The bolts used in the "Boss" interlocking clamps are not standard bolts. They vary from standard bolts in their length, diameter, overall thread length and material hardness. These bolts can be retorqued, but it is **not** recommended that the bolts or clamps be reused, as they are designed for a single bend only. Dixon recommends using only factory supplied replacement bolts.
- Torque values for clamps are based on "dry bolts". The use of lubricant on bolts will adversely effect clamp performance.
- Do not lubricate nuts and bolts.
- Recommended torque rating in ft. lbs.

**SAFETY**  
ALERT

**SAFETY**  
ALERT

**Optional package**  
quantity shown

## In-Line Lubricators

Designed to protect portable or stationary air tools by efficiently oiling the tool mechanisms. Each time an air tool is operated, a fine mist of oil is injected into it along with the air from the compressor. Installation is recommended within 25 feet of the tool to be lubricated. Refer to the arrow for proper air flow direction. Transparent sight disc allows visual inspection of oil level. Oil flow is regulated by screwdriver screw adjustment. Not recommended for constant flow applications. Minimum flow rate is 30 SCFM.



NPT Size	Oil Capacity	Maximum Working Pressure	Air Flow at 70 PSI	Part #
1/2"	1.4 fluid ozs.	500 p.s.i.g.	30 s.c.f.m.	<b>PL300</b>
3/4"	3.7 fluid ozs.	200 p.s.i.g.	70 s.c.f.m.	<b>PL400</b>
3/4"	11.0 fluid ozs.	300 p.s.i.g.	70 s.c.f.m.	<b>PL400L</b>
1"	16.0 fluid ozs.	250 p.s.i.g.	100 s.c.f.m.	<b>PL500</b>

### Type of oil to use

Use any petroleum-base, non-detergent light weight oil (SAE 10/150SSU) which will readily break up into a mist, i.e., Mobil DTE light or comparable oil. **Do not use any synthetic oil or oils containing additives or solvents.**

## Compressor "Y"



Description	Part #
1" FNPT x two 3/4" MNPT	<b>Y10075</b>

Converts a single supply source to a dual outlet.

## "AIR KING" with Ferrules

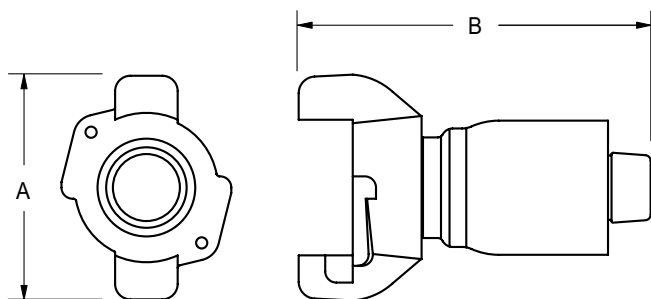


- Interchanges with other "Air King" fittings.
- Rated to **150 PSI** working pressure.
- Available in malleable iron and stainless steel.
- *Carbon steel ferrules.*
- Exclusive interlocking ferrule can be crimped or swaged depending on your coupling installation equipment (for crimp or swage diameter recommendations see page 9 of this brochure).

Size	O.D. Range		Part #	
	From:	To:	Malleable	Stainless
1/2"	27/32"	1 1/32"	<b>AM1WF</b>	----
3/4"	1 1/16"	1 11/32"	<b>AM6WF</b>	<b>RAM6WF</b>
1"	1 18/64"	1 34/64"	<b>AM11WF-1</b>	----
1"	1 30/64"	1 46/64"	<b>AM11WF</b>	----

### Dimensions

Size	A	B
1/2"	2 1/2"	3 7/16"
3/4"	2 1/2"	3 15/16"
1"	2 1/2"	4 25/32"



*All dimensions are nominal.*

## Crimped "AIR KING" Recommendation Guide

The chart at the right is only a guide. It will not apply to every coupling situation. In some instances alternative dies and crimping dimensions must be employed to ensure safety. Experience has shown that variances in the construction of similar hoses and couplings may cause some assemblies to react differently when crimped. It is not uncommon to find hose with an outer diameter that fluctuates from one end to the other or from production lot to production lot. These inconsistencies coupled with the inherent differences between textile or wire braid, hard or soft wall, the presence or absence of an internal spiral wire and the differences in hose coverings make it difficult to establish hard and fast rules. Therefore, it is imperative that hose dimensions are accurately measured, assemblies are tested, and documentation is maintained.

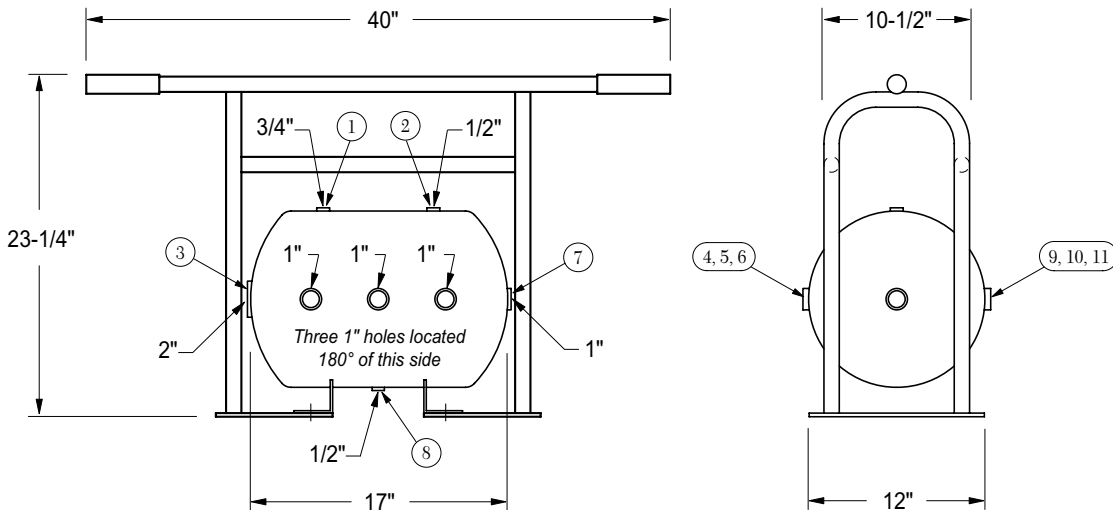
Hose Size	Part #	Fractional Hose O.D.	Swage Die Sizes	Die Part #	Crimp Diameter	% Reduction
Size(I.D.): 1/2"	<b>AM1WF</b>	54/64	1 3/16 x 29/32	<b>1&amp;3/16D4</b>	0.906	18.3%
		55/64	1 3/16 x 15/16	<b>1&amp;3/16D5</b>	0.937	13.2%
		56/64				16.9%
		57/64	1 3/16 x 31/32	<b>1&amp;3/16D3</b>	0.968	12.1%
		58/64				15.5%
		59/64	1 3/16 x 1	<b>1&amp;3/16D</b>	1.000	11.1%
		60/64				14.4%
		61/64				17.2%
		62/64	1 3/16 x 1 1/32	<b>1&amp;3/16D2</b>	1.031	13.4%
		63/64				16.1%
Crimped Length: 1-1/4"		1	1 3/16 x 1 1/16	<b>1&amp;3/16D1</b>	1.062	12.7%
		1-1/64				15.3%
		1-2/64	1 3/16 x 1 3/32	<b>1&amp;3/16D6</b>	1.093	12.0%
		1-4/64	1 1/2 x 1 5/32	<b>1&amp;1/2D6</b>	1.156	13.4%
		1-5/64				17.3%
		1-6/64	1 1/2 x 1 3/16	<b>1&amp;1/2D7</b>	1.187	11.9%
		1-7/64				15.8%
		1-8/64	1 1/2 x 1 7/32	<b>1&amp;1/2D5</b>	1.218	11.2%
		1-9/64				14.6%
		1-10/64				17.5%
Size(I.D.): 3/4"	<b>AM6WF and RAM6WF</b>	1-11/64	1 1/2 x 1 1/4	<b>1&amp;1/2D4</b>	1.250	13.0%
		1-12/64				16.2%
		1-13/64	1 1/2 x 1 9/32	<b>1&amp;1/2D3</b>	1.281	12.3%
		1-14/64				15.1%
		1-15/64	1 1/2 x 1 5/16	<b>1&amp;1/2D2</b>	1.312	11.5%
		1-16/64				14.4%
		1-17/64				16.9%
		1-18/64	1 1/2 x 1 11/32	<b>1&amp;1/2D</b>	1.343	13.5%
		1-19/64				15.9%
		1-20/64	1 1/2 x 1 3/8	<b>1&amp;1/2D1</b>	1.375	12.6%
Crimped Length: 1-1/4"		1-21/64				15.0%
		1-22/64	1 1/2 x 1 13/32	<b>1&amp;1/2D8</b>	1.406	12.1%
		1-18/64	1 11/16 x 1 3/8	<b>1&amp;11/16D4</b>	1.375	16.7%
		1-19/64				20.5%
		1-20/64	1 11/16 x 1 13/32	<b>1&amp;11/16D5</b>	1.406	15.0%
		1-21/64				18.6%
		1-22/64	1 11/16 x 1 7/16	<b>1&amp;11/16D8</b>	1.437	13.7%
		1-23/64				17.5%
		1-24/64	1 11/16 x 1 15/32	<b>1&amp;11/16D6</b>	1.468	12.8%
		1-25/64				16.1%
Size(I.D.): 1"	<b>AM11WF-1</b>	1-26/64	1 11/16 x 1 1/2	<b>1&amp;11/16D</b>	1.500	11.5%
		1-27/64				14.7%
		1-28/64				17.6%
		1-29/64	1 11/16 x 1 17/32	<b>1&amp;11/16D2</b>	1.531	13.9%
		1-30/64	1 7/8 x 1 17/32	<b>1&amp;7/8D8</b>	1.531	16.8%
		1-31/64	1 7/8 x 1 9/16	<b>1&amp;7/8D5</b>	1.562	12.8%
		1-32/64				15.4%
		1-33/64	1 7/8 x 1 19/32	<b>1&amp;7/8D6</b>	1.593	12.0%
		1-34/64				14.7%
		Crimped Length: 1-1/2"	<b>AM11WF</b>	1-35/64	1 7/8 x 1 5/8	<b>1&amp;7/8D7</b>
1-36/64						13.7%
1-37/64						15.9%
1-38/64	1 7/8 x 1 21/32			<b>1&amp;7/8D1</b>	1.656	12.9%
1-39/64						15.1%
1-40/64	1 7/8 x 1 11/16			<b>1&amp;7/8D</b>	1.687	12.4%
1-41/64						14.5%
1-42/64	1 7/8 x 1 23/32			<b>1&amp;7/8D2</b>	1.718	11.8%
1-43/64						14.0%
1-44/64	1 7/8 x 1 3/4			<b>1&amp;7/8D4</b>	1.750	11.3%
1-45/64				13.3%		
1-46/64				15.1%		

## ASME Air Receiver Manifold



### Compressor Air Receiver:

- Built to ASME Code, National Board registered
- 7 gallon capacity
- **200 PSI** working pressure
- All openings are female NPT thread
- Safety yellow painted



### Dixon 1217AR-4AK Air Receiver Manifold Assembly with "Air King" Outlet Ports includes the following:

Part # / locations	Description
<b>1217AR-4</b>	7 gallon ASME Compressed Air Receiver
<b>1217 Frame</b>	1 Protective Frame
location 1	1 <b>HB2F6M</b> 3/4" Male x 1/4" Female Hex Bushing 1 <b>GL345</b> 0-300 PSI Gauge
location 2	1 <b>HB2F4M</b> 1/2" Male x 1/4" Female Hex Bushing 1 <b>SV200</b> Safety Pop-Off Valve
location 3	1 <b>GM28</b> 2" Male Spud 1 <b>B27SC</b> Wing Nut Cap
locations 4, 5, 6, 7, 9, 10, 11	7 <b>HB6F8M</b> 1" Male x 3/4" Female Bushings 7 <b>BCN75</b> 3/4" Brass Hex Nipples 7 <b>BBLV75</b> Ball Valves 7 <b>SCVS6</b> Safety Shut-Off Valves 7 <b>AM7</b> "Air King" Universal Couplings  4 <b>1SELCSX100</b> 45° Street Elbow (1 each in locations 4, 6, 9 and 11 only)
location 8	1 <b>HB2F4M</b> 1/2" Male x 1/4" Female Hex Bushing 1 <b>D04</b> 1/4" Drain Cock
<b>1217AR-4AK</b>	Air King Receiver Manifold <b>Complete Assembly</b>
<b>Tank and Frame ONLY</b>	
<b>1217AR-4FR</b>	7 gallon ASME Compressed Air Receiver with Frame







Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

**Dixon Valve & Coupling Company**

800 High Street, Chestertown, MD 21620

Customer Service: 800.355.1991

Fax: 800.283.4966

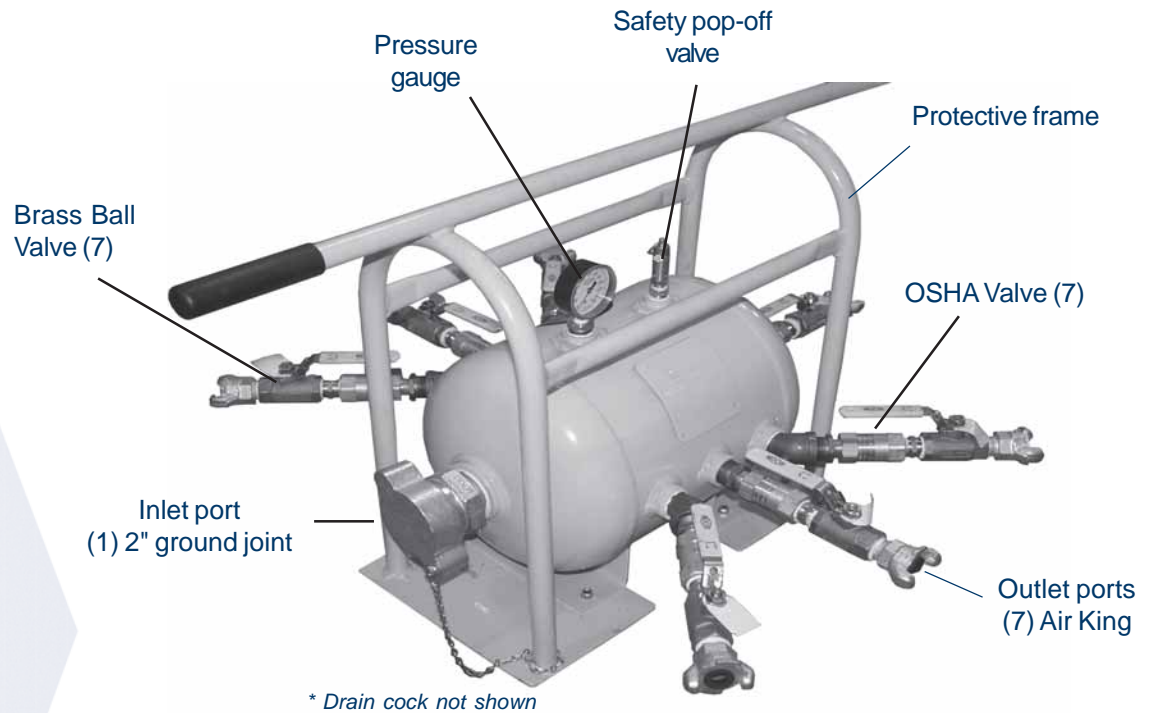
**[www.dixonvalve.com](http://www.dixonvalve.com)**



Part #: 1217AR-4AK

# Air Receiver Manifold Assembly with Air King Couplers

*Safely distributes compressed air to machines and tools.*



#### Service:

- 7 gallon capacity provides air reserve needed for operation of tools
- **200 PSI** maximum working pressure for tank (Working pressure of the system is limited to maximum working pressure of the components, i.e. 150 PSI for Air King)

#### Features:

- All tank outlets have female NPT threads
- Portable - easy carry handles standard
- Solid base with mounting holes standard
- Approximate tank dimensions are 12" x 17"; 40" x 24" with frame
- Painted safety orange

#### Components:

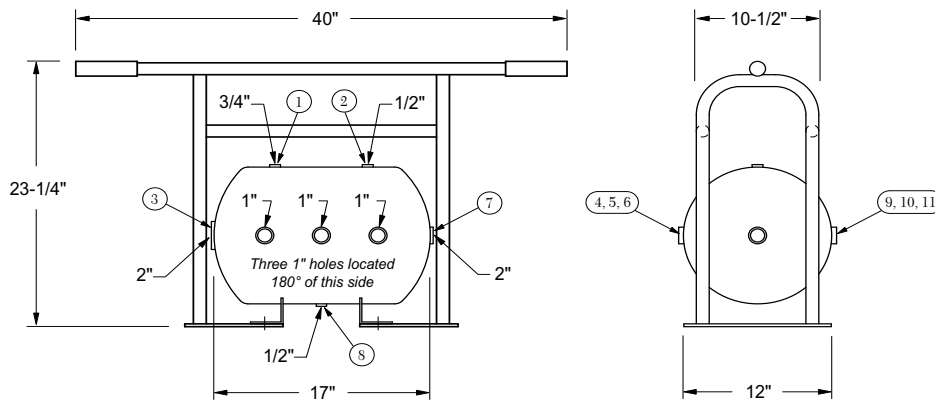
- Spring-loaded safety shut-off valves (Cut-off Flow Rate 160-180 CFM at 90 PSI)
- Safety pop-off valve (200 PSI) to protect against over-pressurizing of tank
- 0-300 PSI gauge
- Locking handle ball valves
- Drain valve provides for removal of accumulated oil and water

#### Codes and Standards:

- Built to ASME Code, National Board registered
- Conforms to OSHA Standards 1910.169 and 1926.306

## Hose Coupling Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the **Rubber Manufacturers Association** recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations.
- Call Dixon (1-800-355-1991) for advice on couplings, retention devices, and accessories for your application.



Dixon 1217AR-4AK air receiver manifold assembly with Air King outlet ports includes the following:

Part # / Locations	Description
<b>1217AR-4</b>	7 gallon ASME compressed air receiver
<b>1217 frame</b>	1 protective frame
Location 1	1 <b>HB2F6M</b> 3/4" male x 1/4" female hex bushing 1 <b>GL345</b> 0-300 PSI gauge
Location 2	1 <b>HB2F4M</b> 1/2" male x 1/4" female hex bushing 1 <b>SV200</b> safety pop-off valve
Location 3	1 <b>GM28</b> 2" male spud 1 <b>B27SC</b> wing nut cap
Locations 4, 5, 6, 9, 10, 11	6 <b>HB6F8M</b> 1" male x 3/4" female bushings 6 <b>BCN75</b> 3/4" brass hex nipples 6 <b>BBLV75</b> ball valves 6 <b>SCVS6</b> safety shut-off valves 6 <b>AM7</b> Air King universal couplings * 4 <b>1SELCSX100</b> 45° street elbow (1 each in locations 4, 6, 9 and 11 only)
Location 7	1 <b>HB2075</b> 2" male x 3/4" female bushing 1 <b>BCN75</b> 3/4" brass hex nipples 1 <b>BBLV75</b> ball valve 1 <b>SCVS6</b> safety shut-off valve 1 <b>AM7</b> Air King universal coupling *
Location 8	1 <b>HB2F4M</b> 1/2" male x 1/4" female hex bushing 1 <b>D04</b> 1/4" drain cock
<b>1217AR-4AK</b>	Labor cost for assembly of complete unit Air King receiver manifold <i>complete assembly</i>

\* Dixon recommends the use of safety clips and King safety cables on all air hose connections.



### Dixon Valve & Coupling Co.

800 High Street  
Chestertown, MD 21620  
877.963.4966  
Fax: 800.283.4966  
[www.dixonvalve.com](http://www.dixonvalve.com)

Printed in the USA

- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).

# Band Clamp



*The Right Connection™*

## Contents

page #

### Band Clamps

F and FO series .....	4
K series .....	5
Smooth ID .....	6
Band and Buckle .....	7

Clamp Selection Guide .....	8
-----------------------------	---

Preparing the Hose .....	9
--------------------------	---

### Tools

Clamp Cutter .....	10
Mallet .....	10
51960 Screw-Action .....	10
C2 Jack-Type .....	12
F1 .....	14
F100 .....	16
F175 .....	18
F38 .....	20
F40 .....	22

## General Safety

- Use Dixon couplings, retention devices and accessory products ***only*** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the **Rubber Manufacturers Association** recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (see OSHA references below)
- Call Dixon (1-800-355-1991) for advice on couplings, retention devices, and accessories for your application.

## Safety Recommendations

The use of band style clamps has proven to be an effective means of retaining hose couplings in industrial hose.

To achieve proper retention and sealing of the hose coupling in the hose, it is imperative that these clamps be installed correctly. Please follow the manufacturer's recommendations as to the proper selection and installation of band clamps.

When installing multiple clamps, the buckles must be offset around the hose, (reference page 8), eliminating the possibility of a straight line leak under the buckle area.



### **Improper installation of band clamps**

Clamps installed with buckles in-line.



### **Proper installation of band clamps**

Clamps installed with buckles equally rotated.

The first clamp should be installed just inside the mark on the hose furthest from the hose end (reference page 9).

Leaving excess band material turned back over the buckle does not improve the performance of the clamp. In fact, a safety hazard develops from this practice by leaving sharp edged material exposed.

## F and FO series clamps

### Material availability:

- Stainless steel -  
bands are 300 series and  
the buckles are 302 series
- Galvanized steel

### Installation tools:

- Center punch tools -  
F1, F38, F40, F100  
(other manufacturer's punch style tools may be used)



- *Double-wrapped*
- *Triple-punched*
- *Holds permanently*

The F series double-wrapped metal band clamp is formed to a given diameter with a tailpiece through the buckle.



**style F**  
(pre-formed)

I.D. Size	302 Stainless Steel Part #	Galvanized Steel Part #	Pkg Qty
3/8" Wide / .020 Thick		3/8" Wide / .025 Thick	
13/16"	<b>FS3</b>	<b>F3</b>	100
1-3/8"	<b>FS311</b>	<b>F311</b>	100
5/8" Wide / .022 Thick		5/8" Wide / .025 Thick	
1"	<b>FS4</b>	<b>F4</b>	100
1-1/4"	<b>FS5</b>	<b>F5</b>	100
5/8" Wide / .022 Thick		5/8" Wide / .031 Thick	
1-1/2"	<b>FS6</b>	<b>F6</b>	100
1-3/4"	<b>FS7</b>	<b>F7</b>	100
2"	<b>FS8</b>	<b>F8</b>	100
2-1/4"	<b>FS9</b>	<b>F9</b>	100
2-1/2"	<b>FS10</b>	<b>F10</b>	50
2-3/4"	<b>FS11</b>	<b>F11</b>	50
3"	<b>FS12</b>	<b>F12</b>	50
3-1/2"	<b>FS14</b>	<b>F14</b>	50
4"	<b>FS16</b>	<b>F16</b>	25
4-1/2"	<b>FS18</b>	<b>F18</b>	25
5"	<b>FS20</b>	<b>F20</b>	25
6"	<b>FS24</b>	<b>F24</b>	25
7"	<b>FS28</b>	<b>F28</b>	25
8"	<b>FS32</b>	<b>F32</b>	25

The FO clamp is open-ended and may be applied easily without sliding the clamp over the hose end.



**style FO**  
(open end)

I.D. Size	302 Stainless Steel Part #	Galvanized Steel Part #	Pkg Qty
3/8" Wide / .020 Thick		3/8" Wide / .025 Thick	
13/16"	<b>FOS3</b>	<b>FO3</b>	100
1-3/8"	<b>FOS311</b>	<b>FO311</b>	100
2"	<b>FOS316</b>	<b>FO316</b>	100
3-1/8"	<b>FOS325</b>	<b>FO325</b>	100
5/8" Wide / .022 Thick		5/8" Wide / .025 Thick	
2"	<b>FOS8</b>	<b>FO8</b>	100
2-1/2"	<b>FOS10</b>	<b>FO10</b>	50
5/8" Wide / .022 Thick		5/8" Wide / .031 Thick	
3"	<b>FOS12</b>	<b>FO12</b>	50
3-1/2"	<b>FOS14</b>	<b>FO14</b>	50
4"	<b>FOS16</b>	<b>FO16</b>	50
4-1/2"	<b>FOS18</b>	<b>FO18</b>	50
5"	<b>FOS20</b>	<b>FO20</b>	25
6"	<b>FOS24</b>	<b>FO24</b>	25
7"	<b>FOS28</b>	<b>FO28</b>	25
8"	<b>FOS32</b>	<b>FO32</b>	25
9"	---	<b>FO36</b>	25
10"	---	<b>FO40</b>	25
12"	---	<b>FO48</b>	25
14"	---	<b>FO56</b>	10



## K series clamps

Material availability:

- Stainless steel -  
bands are 300 series and  
the buckles are 302 series
- Galvanized steel

Installation tools:

- Center punch tools -  
F1, F40, F100
- Roll over tools -  
51960 with 51970 adapter  
(other manufacturer's tools may be used)



*Center punched*



*Rolled over*

The uniquely designed K clamp can be locked by a wide variety of manufacturer's tools. K clamps are designed to be slipped over the hose end before the fitting is inserted.



*Punch indentation  
for ease of center punching*

**Note:** 3/4" K Clamp must be applied with F-175 hand tool.

I.D. Size	Stainless Steel Part #	Galvanized Steel Part #	Pkg Qty
3/8" Wide / .025 Thick		3/8" Wide / .025 Thick	
13/16"	<b>KS3</b>	<b>K3</b>	100
1-3/8"	<b>KS311</b>	<b>K311</b>	100
5/8" Wide / .031 Thick		5/8" Wide / .030 Thick	
1"	<b>KS4</b>	<b>K4</b>	100
1-1/4"	<b>KS5</b>	<b>K5</b>	100
1-1/2"	<b>KS6</b>	<b>K6</b>	100
1-3/4"	<b>KS7</b>	<b>K7</b>	100
2"	<b>KS8</b>	<b>K8</b>	100
2-1/4"	<b>KS9</b>	<b>K9</b>	100
2-1/2"	<b>KS10</b>	<b>K10</b>	50
2-3/4"	<b>KS11</b>	<b>K11</b>	50
3"	<b>KS12</b>	<b>K12</b>	50
3-1/2"	<b>KS14</b>	<b>K14</b>	50
4"	<b>KS16</b>	<b>K16</b>	25
4-1/2"	<b>KS18</b>	<b>K18</b>	25
5"	<b>KS20</b>	<b>K20</b>	25
6"	<b>KS24</b>	<b>K24</b>	25
7"	<b>KS28</b>	<b>K28</b>	25
8"	<b>KS32</b>	<b>K32</b>	25

I.D. Size	Stainless Steel Part #	Pkg Qty
3/4" Wide / .030 Thick		
2"	<b>KS87501</b>	100
2-1/4"	<b>KS97501</b>	100
2-1/2"	<b>KS107501</b>	50
2-3/4"	<b>KS117501</b>	50
3"	<b>KS127501</b>	50
3-1/2"	<b>KS147501</b>	50
4"	<b>KS167501</b>	25
4-1/2"	<b>KS187501</b>	25
5"	<b>KS207501</b>	25
6"	<b>KS247501</b>	25
7"	<b>KS287501</b>	25
8"	<b>KS327501</b>	25

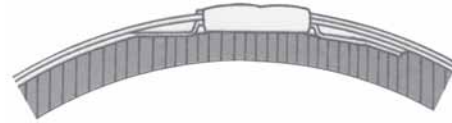
## Smooth I.D. clamps

Material availability:

- 201 stainless steel
- Galvanized steel

Installation tools:

- Roll over tools -  
51960 with 51970 adapter  
(other manufacturer's tools may be used)



*The smooth inside diameter produces a uniform clamping surface to prevent leak paths.*

As industrial hose made of stiffer, thinner, thermoplastics replaces soft, spongy thick-walled rubber, a new generation of hose clamps has been developed to prevent leak problems.



I.D. Size	201 Stainless Steel	Galvanized Carbon Steel	Pkg Qty
	Part #	Part #	
3/8" Wide / .025 Thick		3/8" Wide / .025 Thick	
13/16"	<b>JS201</b>	<b>JS301</b>	100
1"	<b>JS243</b>	<b>JS343</b>	100
1-3/8"	<b>JS202</b>	<b>JS302</b>	100
2"	<b>JS245</b>	<b>JS345</b>	100
3"	<b>JS246</b>	---	---
3-1/2"	<b>JS255</b>	---	---
1/2" Wide / .030 Thick		1/2" Wide / .030 Thick	
1"	<b>JS203</b>	<b>JS303</b>	100
1-1/4"	<b>JS204</b>	<b>JS304</b>	100
1-3/4"	<b>JS236</b>	<b>JS336</b>	100
2-3/4"	<b>JS230</b>	<b>JS330</b>	100

I.D. Size	201 Stainless Steel	Galvanized Carbon Steel	Pkg Qty
	Part #	Part #	
5/8" Wide / .030 Thick		5/8" Wide / .030 Thick	
1-1/2"	<b>JS205</b>	<b>JS305</b>	100
1-3/4"	<b>JS206</b>	<b>JS306</b>	100
2"	<b>JS207</b>	<b>JS307</b>	100
2-1/4"	<b>JS208</b>	<b>JS308</b>	100
2-1/2"	<b>JS209</b>	<b>JS309</b>	100
3/4" Wide / .030 Thick		3/4" Wide / .030 Thick	
2"	<b>JS227</b>	<b>JS327</b>	100
2-3/4"	<b>JS210</b>	<b>JS310</b>	50
3"	<b>JS211</b>	<b>JS311</b>	50
3-1/2"	<b>JS212</b>	<b>JS312</b>	50
4"	<b>JS213</b>	<b>JS313</b>	25
4-1/2"	<b>JS214</b>	<b>JS314</b>	25
5"	<b>JS215</b>	<b>JS315</b>	25
6"	<b>JS216</b>	<b>JS316</b>	25
7"	<b>JS218</b>	<b>JS318</b>	25
8"	<b>JS219</b>	<b>JS319</b>	25

## Band and Buckle

Material availability:

- Stainless steel
- Galvanized steel

Installation tools:

- Roll over tools -  
C2, 51960  
(other manufacturer's tools may be used)



The band and buckle system is an economical method of securing fittings to large diameter rubber hose (2" and above).

**Note:** Do not use strapping and buckles made of different metals.

Example: Stainless steel strapping must be used with stainless steel buckles.



**Strapping - 100 ft. per Box**

Width	Thick	Material	<b>Part #</b>
3/8"	.025	stainless	<b>SS375</b>
1/2"	.031	stainless	<b>SS500</b>
5/8"	.031	stainless	<b>SS625</b>
3/4"	.031	stainless	<b>SS750</b>
3/8"	.025	galvanized	<b>SG375</b>
1/2"	.031	galvanized	<b>SG500</b>
5/8"	.031	galvanized	<b>SG625</b>
3/4"	.031	galvanized	<b>SG750</b>



**Buckles**

Width	Material	<b>Part #</b>	Box Qty
3/8"	stainless	<b>CS375</b>	100
1/2"	stainless	<b>CS500</b>	100
5/8"	stainless	<b>CS625</b>	100
3/4"	stainless	<b>CS750</b>	50
3/8"	galvanized	<b>CG375</b>	100
1/2"	galvanized	<b>CG500</b>	100
5/8"	galvanized	<b>CG625</b>	100
3/4"	galvanized	<b>CG750</b>	50



**Caution!**

*Strapping edges can be extremely sharp!*

*All necessary precautions should be taken to prevent installer's hands from being cut during the assembly process.*

## Clamp Selection

### Pre-Formed Band Clamps

1. Measure the hose Outside Diameter (O.D.) with a diameter tape.
2. Select the clamp having an Inside Diameter (I.D.) as close to the measured hose O.D. but not less than 1/4".  
This is so that the clamps can be slid onto the hose before the couplings are inserted.

Example:     Hose O.D. is 2-11/16"     Use 3" I.D. clamp  
              Hose O.D. is 2-7/8"        Use 3-1/2" I.D. clamp

### Band and Buckle

#### Caution!

*Strapping edges can be extremely sharp! All necessary precautions should be taken to prevent installer's hands from being cut during the assembly process.*

1. Measure the hose Outside Diameter (O.D.) with a diameter tape.
2. Cut the proper length of strapping needed. This is the hose O.D. multiplied by two plus six inches.

Example:

Hose O.D.	13
Multiplied by two	<u>x 2</u>
Equals	26
Plus six inches	<u>+6</u>
Total length of strap	32"

3. Slide one end of the strap through the loop of the buckle. Make sure that the ears of the buckle are pointing up and are closest to the end of the strap.
4. Slide the buckle 2" - 3" down the strap. Using pliers, create a loop at the end of the strap. Bend down and under approximately 1/2" of strap.
5. Slide the buckle into the loop. Using pliers, crimp the strap to the buckle by squeezing tightly the end of the loop. Do not squeeze on the buckle loop.
6. Loop the strap around the hose and bring the strap end through the loop on the buckle. Loop the strap around the hose again and bring the strap end through the loop on the buckle.
7. Using pliers, pull the strap tail as tight as possible, then bend the strap tail up and slightly over the buckle. This will prevent the strap tail from sliding out from under the buckle.

**Note:** Do not use strapping and buckles made of different metals.  
Example: Stainless steel strapping must be used with stainless steel buckles.

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#### Notes:

1. Proper tension is achieved when the outside diameter of the band clamp is even with or slightly below the diameter of the hose. This is a rule of thumb measurement of proper clamp tension and can vary from one stem/hose combination to another. The installer's experience with a particular stem/hose combination will tell them when the clamp is properly tensioned.
2. Bend excessive clamp tail away from tool handles to avoid being cut by sharp edges.
3. When multiple clamps are used, clamp buckles must be offset to prevent a leak path.  
2 Clamps - Buckles at 180°. 3 Clamps - Buckles at 120°. 4 Clamps - Buckles at 90°.

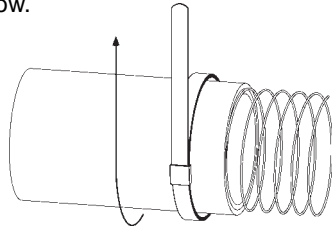
## Preparing the hose for assembly

### Cut Hose to Length.

#### Cut Ends Square. (Lack of a square cut on the hose end can reduce coupling retention.)

For hoses having a helical wire:

1. Determine the direction the helical wire is pointing in. This is necessary as proper installation of pre-formed band clamps and bands and buckles rely upon proper orientation of the clamp tail with the helical wire. See illustration below.



2. If helical wire is not used for static grounding, trim the wire back into the carcass of the hose. This is to prevent injury during use of the assembly.

### Clean Hose I.D.

#### Mark the hose for proper clamp placement.

All styles of band clamps (both pre-formed and bands & buckles) require proper placement to achieve maximum retention. Place marks on hose for proper clamp placement as follows:

1. Determine shank serration style
  - a. Symmetrical (all serrations the same size).  
Example: Combination nipples, suction couplings, etc.
  - b. Pronounced (some serrations are higher than the other serrations).  
Example: Cam and groove, King round nipples, etc.
2. Symmetrical Shanks
  - a. Determine number of clamps required. Reference Dixon's Pressure Chart for correct number of clamps to install based on coupling style and size.
  - b. Place the shank next to the hose to simulate the shank being fully inserted.
  - c. Place a mark on the hose that corresponds with the point of the last serration.
  - d. When multiple clamps are required, place corresponding number of marks equally spaced from one another and the hose end.
  - e. Do not place a clamp directly on the hose end. Leave 1/4" to 3/8" space between the hose end and the last clamp installed.
3. Pronounced shanks
  - a. Place the shank next to the hose to simulate the shank being fully inserted.
  - b. Place a mark on the hose that corresponds with the point of each pronounced serration.
  - c. The correct number of clamps to install will be equal to the number of marks placed on the hose.

### Static Grounding.

When required, proper static grounding is essential. Typically, this is accomplished by bending the built-in static wire or the helical wire (or wires) inside the hose I.D. so that it contacts the metal coupling. Caution should be taken to bend in no more wire than necessary. Usually 1/2" of wire bent in is sufficient. Other methods of static grounding are available and may be required due to hose type, hose manufacturer or style of coupling to be installed. Always contact the hose manufacturer for proper static grounding techniques for that particular hose. Improper static grounding can lead to fire, explosions, reduced assembly life, damage to property and injury or death to personnel.

### Seal the Hose Ends.

At each end of the hose, the reinforcement is exposed to the outside elements. This exposure can lead to premature assembly failure especially if the end of the assembly is laying in a puddle of water or puddle of product. If the assembly is to be subjected to these conditions, the hose ends must be sealed. Typically, rubber cement or shellac is used. Contact the hose manufacturer for recommendations. Wire reinforced hoses can corrode to the point of failure near the clamp. Textile or fabric reinforced hoses can wick water or product to anywhere in the length of the hose and exit the cover at the weakest spot.

### Coupling Lubricant.

The coupling shank and the hose I.D. are to be lubricated prior to coupling insertion. Dixon recommends using Dixon Coupling Lubricant (DCL10 pint, DCL80 gallon). Do not use hand soap, oil, grease, WD 40, Silicone spray, or other substances that may attack the tube material and / or reduce coupling retention.

## Installation Tools

### Clamp Cutter

- Material: malleable iron with rubber covered handles
- Weight: 2.11 lbs.
- Length: 14"



Part #

F550

### Mallet

- Material: ductile iron head, wooden handle
- Weight: 2.25 lbs.
- Length: 12"



Part #

F225

## 51960 Installation Tool

Screw-action type tool for installing band and buckles.

- Material: plated steel
- Weight: 4.00 lbs.
- Length: 12"



Part #

51960

## 51970 Roll-Over Attachment

Adapter for 51960 for installing preformed clamps. For vise applications *only*.

- Material: plated steel
- Weight: 1.15 lbs.
- Length: 10-1/2"



Part #

51970

## Operating Instructions for the 51960 Installation Tool

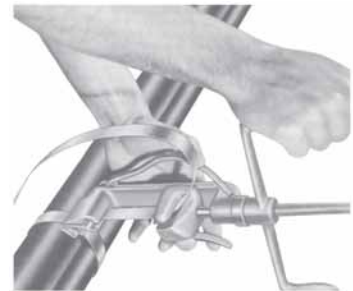
### 1

Hold the tool in the left hand so that the cutter bail is on the bottom and the pulling dog lever is on top. Slide the strap tail through the slot on the right side of the tool.



### 2

Press down on pulling-dog lever and rotate handle to begin tightening. Tighten strap to desired tension. Simultaneously relieve some tension while pushing the tool away as far as possible.



### 3

Pull the cutter bail to cut the strap tail. Tap the buckle ears down to hold the cut strap tail in place.



## Operating Instructions for the 51960 with 51970 Roll-Over Attachment

- 1) Slide the 51970 Roll - over attachment on to the head of the 51960 Screw - action tool.
- 2) With handle of 51970 facing installer, place 51960 in a vise and tighten.
- 3) Slide the clamp tail through the slot on the 51970.
- 4) Press down on pulling-dog lever and rotate handle to begin tightening.
- 5) Tighten clamp to desired tension.
- 6) Simultaneously relieve some tension while rolling hose towards cutter.
- 7) When clamp buckle engages cutter, pull handle.



## Part Identification for the C2 Installation Tool

This lightweight, side and front entry, jack-type clamping tool is specially designed to provide easy installation of the band and buckle system. Tool adjusts tension and locks buckle in place.

- Material: steel
- Weight: 3.30 lbs.
- Length: 14"



**Part #**

**C2**

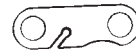
*For applying 3/8" and 5/8" band clamps*

*Illustrations are not in correct proportion to one another.*

Qty Per Tool	Part Description	Part #
1	Holding dog	C-207
2	Puller links	FX-211A
2	Puller links	FX-211B
1	Puller link pin	C-212
1	Pulling dog	FX-214
1	Pulling dog spring	FA-217
1	Pulling dog pin	F-233
1	Ball handle assembly	FA-220
1	Pusher puller assembly	CA-231
3	Retaining rings	F-242
1	Cutter	EXP-201
1	Crescent ring	F-232
1	Cutter handle	C-200
1	Holding dog pin	F-233
1	Holding dog spring	F-217
1	1/8" x 3/8" roll pin	C-243
2	3/16" x 5/8" roll pin	C-236



C-207



FX-211A



FX-211B



C-212



FX-214



FA-217



F-233



FA-220



CA-231



F-242



EXP-201



F-232



C-200



F-233



F-217



C-243



C-236

### Sliding Jack Replacement Kit

F205K

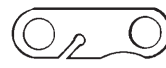
(Kit fits the F100, F175 and C2 Tools)



FX-214



FA-217



FX-211A

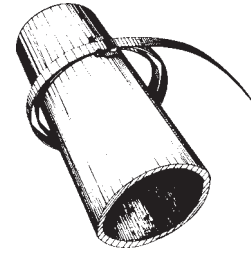


FX-211B

## Operating Instructions for the C2 Installation Tool

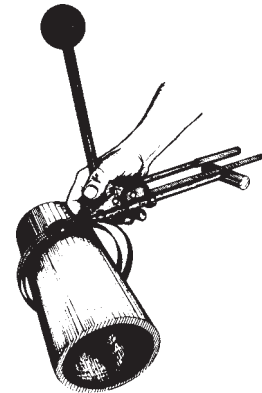
**1**

Pull strapping from carton and cut off. Slide clamp on strap and bend end under at ear side of clamp. Bring opposite end of strap around object twice, each time passing under clamp bridge.



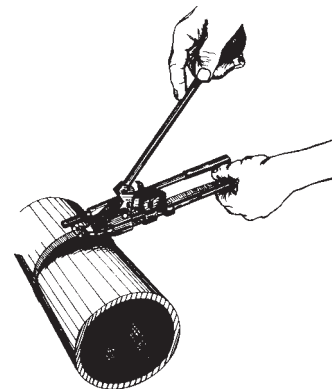
**2**

Raise ball handle to forward position and insert strapping. Slide tool forward.



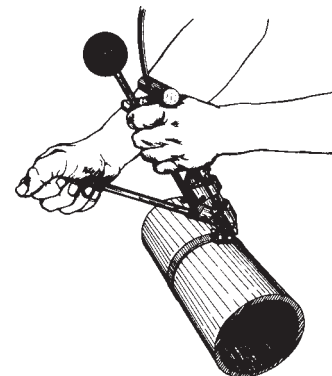
**3**

Slide cutter handle forward for alignment. Jack ball handle to reach desired tension.



**4**

Retract cutter handle and raise to 90-110°. To cut strapping, rotate cutter handle. Increase locking bend by rotating tool forward. Apply thumb pressure on tab as you remove tool. Bend ears with hammer.



## Part Identification for the F1 Installation Tool

*For applying 5/8" band clamps*

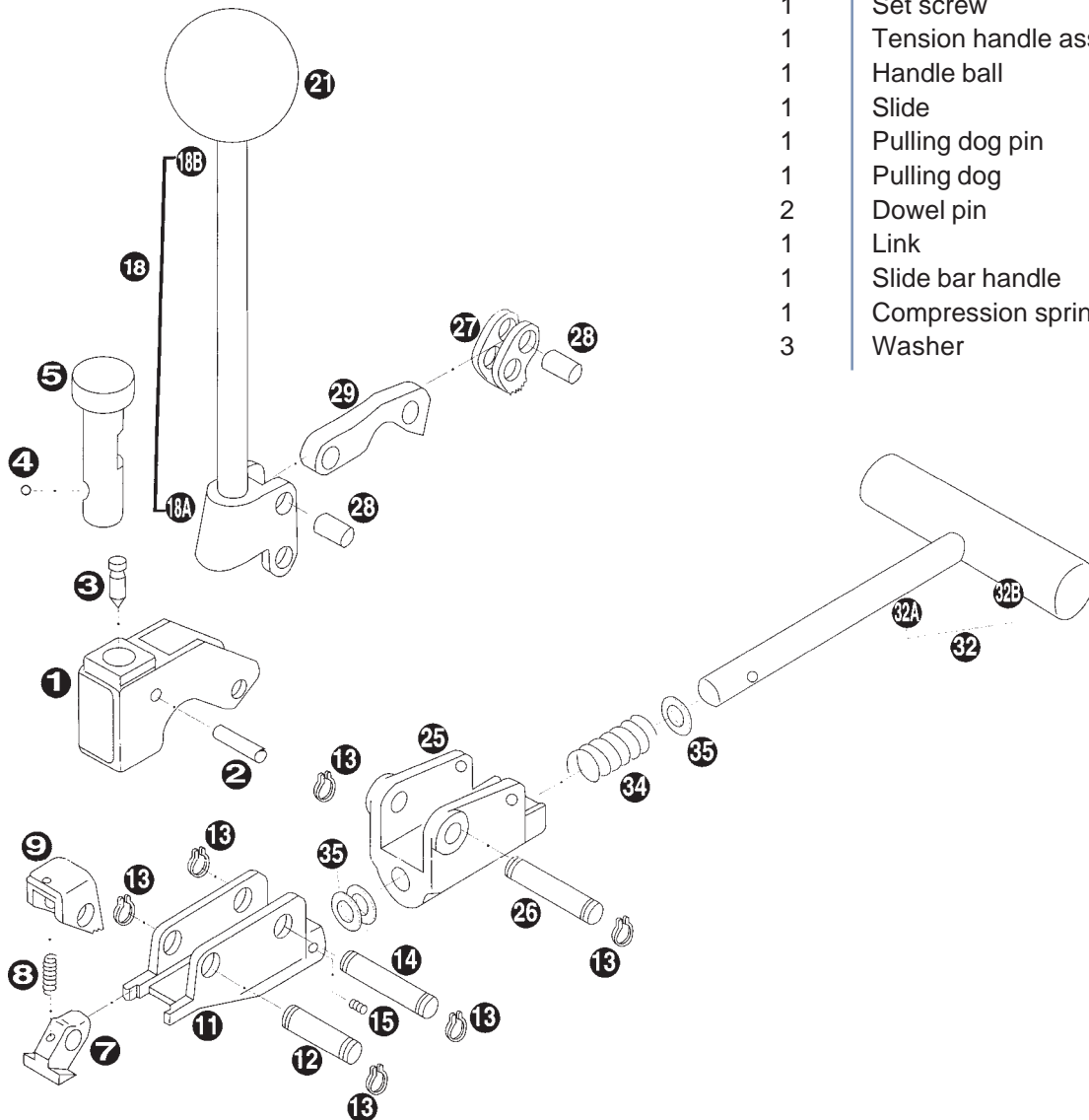


- Material: steel
- Weight: 3.27 lbs.
- Length: 12"

Part #

F1

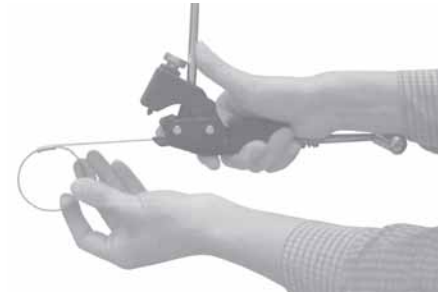
Qty Per Tool	Part Description	Part #
1	Head	1
1	Spring pin	2
1	Punch	3
1	Retaining ball	4
1	Punch holder	5
1	Pusher nose	7
1	Spring	8
1	Holding dog	9
1	Nose	11
1	Holding dog pin	12
6	Retaining ring	13
1	Head pivot pin	14
1	Set screw	15
1	Tension handle assembly	18
1	Handle ball	21
1	Slide	25
1	Pulling dog pin	26
1	Pulling dog	27
2	Dowel pin	28
1	Link	29
1	Slide bar handle	32
1	Compression spring	34
3	Washer	35



## Operating Instruction for the F1 Installation Tool

### 1

Push tension handle all the way forward. Insert the clamp tail and push all the way into tool.



### 2

Tighten the clamp with short downward strokes. Tension handle should be in down position at completion of tightening clamp.

If clamp tension needs to be released before locking, move slide back against spring. This raises the pulling dog.



### 3

Holding tension handle down, lock clamp by hitting punch at least twice with mallet.



### 4

Hold hose and raise the tool back and forth to break off clamp tail. Remove from tool by operating tension handle. When tail has moved through holding dog, raise tension handle and pull tail free.



## Part Identification for the F100 Installation Tool

- Material: steel
- Weight: 2.50 lbs.
- Length: 13"



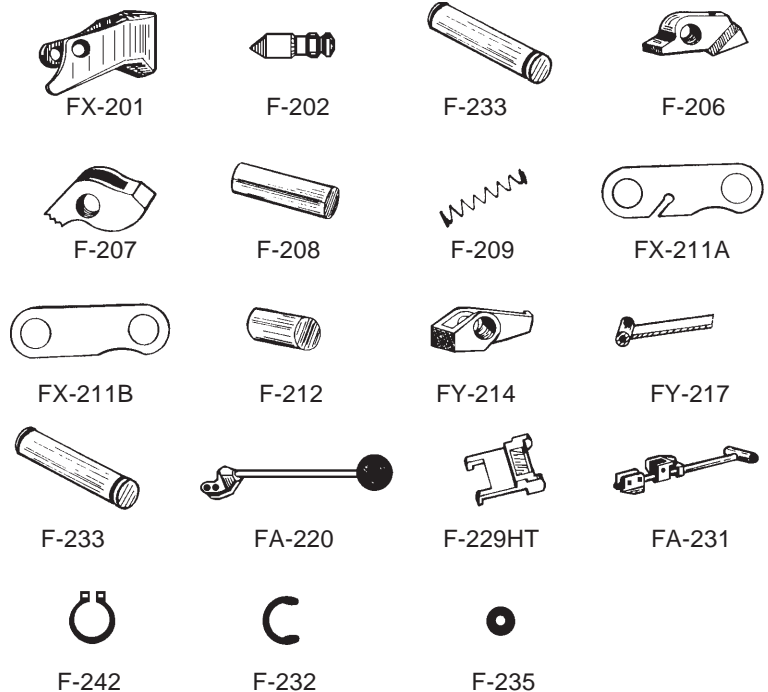
Part #

**F100**

For applying 3/8" and 5/8" band clamps

Illustrations are not in correct proportion to one another.

Qty Per Tool	Part Description	Part #
1	Punch head	FX-201
1	Punch	F-202
1	Punch head pin	F-233
1	Pusher nose	F-206
1	Holding dog	F-207
1	Pusher nose pin	F-208
1	Holding dog spring	F-209
2	Puller links	FX-211A
2	Puller links	FX-211B
1	Puller link pin	F-212
1	Pulling dog	FY-214
1	Pulling dog spring	FY-217
1	Pulling dog pin	F-233
1	Ball handle assembly	FA-220
1	3/8" clamp adapter	F-229HT
1	Pusher puller assembly	FA-231
3	Retaining rings	F-242
1	Crescent ring	F-232
1	Punch retainer ring	F-235



### Sliding Jack Replacement Kit

FY205K

(Kit fits the F100 and C2 Tools)



FY-214



FY-217



FX-211A

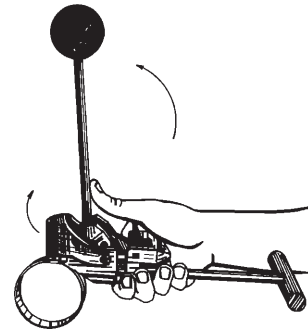


FX-211B

## Operating Instructions for the F100 Installation Tool

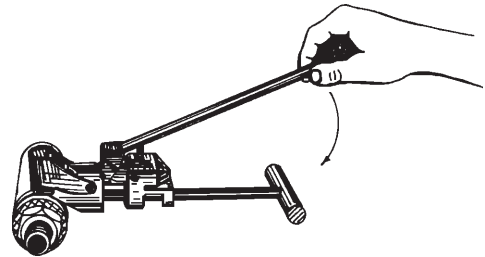
### 1

Hold tool as shown with ball handle all the way forward. Insert clamp and push the end entirely into the tool until the lock is held in pusher housing jaws.



### 2

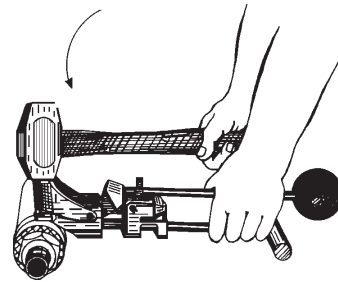
Slip the hose with nipple inserted into the clamp and locate clamp directly over groove - (position of groove can be laid out on hose with chalk), tighten the clamp with downward strokes of ball handle, using short strokes after initial slack is out so that ball handle finishes in down position.



### 3

Hold the tool with clamp resting on Vee block, vise or other solid surface. Swing punch head down against lock and strike hard with mallet; this locks the clamp. Raise punch head to free punch. Hold hose to keep from turning and raise both handles of tool up together which will break off band at lock.

**(optional)** Peen corners of the lock down smooth. To remove cut off end from tool, operate ball handle to work it through holding dog. Then press release lever and pull strip out toward rear of tool.

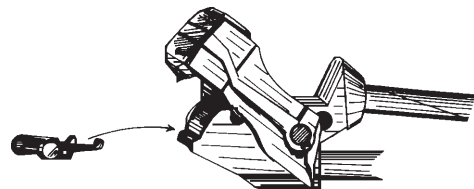


*Instructions for using adapter to apply 3/8" width clamps*

### 4

The F100 tool described above, as shipped, is ready for use in applying all sizes of 5/8" standard and heavy duty hose clamps. To apply the 3/8" wide clamps use the adapter (F-229).

To insert the adapter, hold the tool with the punch head (FX-201) raised as shown and place the adapter under the pusher nose with the bent ends up and push back until the shoulder rests against the front of the pusher nose. The F-229 clamp adapter under the pusher nose (F-206) centers the narrower clamp in the tool.



## Part Identification for the F175 Installation Tool

- Material: steel
- Weight: 3.35 lbs.
- Length: 13"



**Part #**

**F175**

*For applying 3/4" band clamps - K series*

*Illustrations are not in correct proportion to one another.*

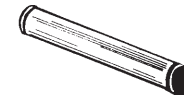
Qty Per Tool	Part Description	Part #
1	Punch head	F-201750
1	Punch	F-202
1	Punch head pin	F-204
1	Pusher nose	F-206
1	Holding dog	F-207
1	Pusher nose pin	F-208
1	Holding dog spring	F-209
2	Puller links	FX-211A
2	Puller links	FX-211B
1	Puller link pin	F-212
1	Pulling dog	FX-214
1	Pulling dog spring	FA-217
1	Pulling dog pin	F-233
1	Ball handle assembly	FA-220
1	Pusher puller assembly	FA-231750
4	Retaining rings	F-242
1	Wrench	F-224



F-201750



F-202



F-204



F-206



F-207



F-208



F-209



FX-211A



FX-211B



F-212



FX-214



FA-217



FA-233



FA220



FA-231750



F-242



F-232

### Sliding Jack Replacement Kit F205K

(Kit fits the F100, F175 and C2 Tools)



FX-214



FA-217



FX-211A



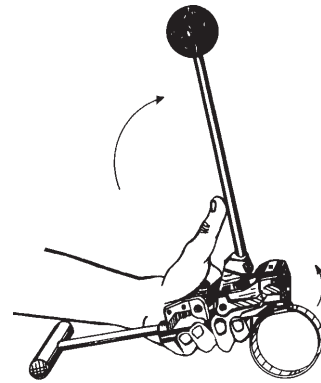
FX-211B



## Operating Instructions for the F175 Installation Tool

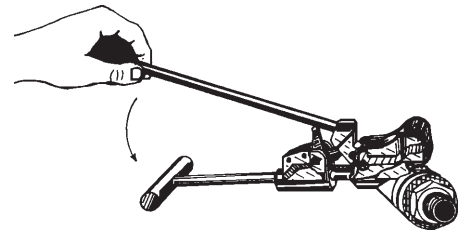
### 1

Hold tool as shown with ball handle all the way forward. Insert clamp and push the end entirely into the tool until the lock is held in pusher housing jaws.



### 2

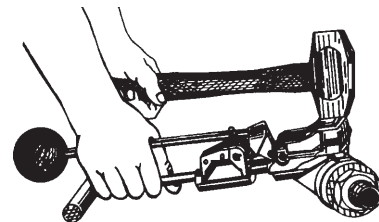
Slip the hose with nipple inserted into the clamp and locate clamp directly over groove - (position of groove can be laid out on hose with chalk), tighten the clamp with downward strokes of ball handle, using short strokes after initial slack is out so that ball handle finishes in down position.



### 3

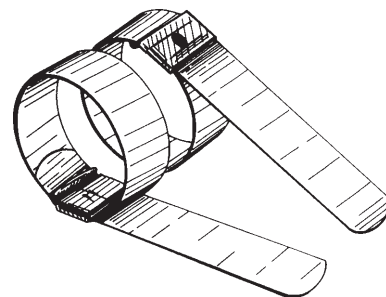
Hold the tool with clamp resting on Vee block, vise or other solid surface. Swing punch head down against lock and strike hard with mallet; this locks the clamp. Raise punch head to free punch. Hold hose to keep from turning and raise both handles of tool up together which will break off band at lock.

**(optional)** Peen corners of the lock down smooth. To remove cut off end from tool, operate ball handle to work it through holding dog. Then press release lever and pull strip out toward rear of tool.



### 4

The F175 tool is to be used for applying 3/4" wide preformed K clamps.



## Part Identification for the F38 Installation Tool

Small portable hand tool.

- Material: steel
- Weight: 0.84 lbs.
- Length: 10"



**Part #**

**F38**

*For applying 3/8" and 5/8" band clamps F series*

Qty Per Tool	Part Description	Part #
1	Frame	FA-285
1	Punch and holder	FA-289
1	Winder	FF-290
2	Retaining ring	F-292
1	Ratchet wrench	FA-298

*Illustrations are not in correct proportion to one another.*



FA-285



FA-289



FF-290



FA-298

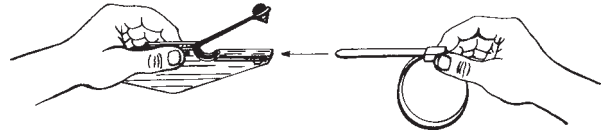


F-292

## Operating Instructions for the F38 Installation Tool

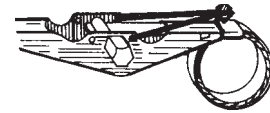
**1**

Push end of clamp completely into slotted end of clamp tool. For 3/8" width clamp use narrow slotted end.



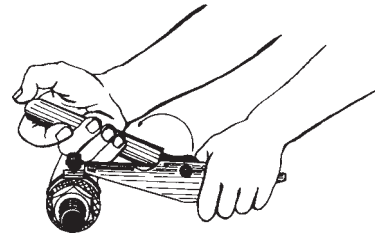
**2**

Push winder into frame with slot engaging clamp end. Ratchet wrench attached to winder.



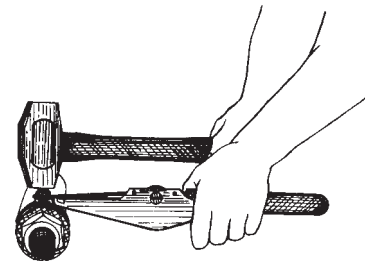
**3**

Push forward with sufficient strokes until desired tension is obtained.



**4**

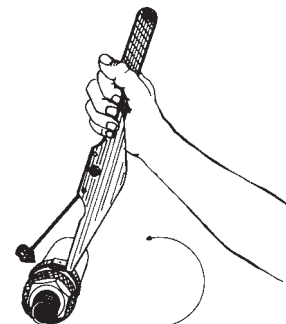
Push punch down on lock and while holding tension with wrench, strike firm blow with hammer, thus locking the clamp.



**5**

Raise punch and while holding tension with wrench, swing frame forward and up against edge of lock, breaking off tail piece.

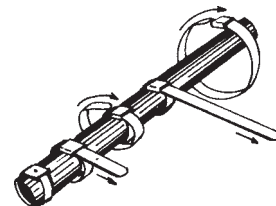
**(optional)** Peen corners of the lock smooth. Twist up tail and when it is free, pull out of winder. To move punch from one end to other end, squeeze legs of punch holder and reengage in holes at opposite end.



**6**

To use open end clamps, wrap and lace the clamp twice around, threading each wrap through the lock, apply clamp-tool and use as above.

**Note:** On applications such as glass, radiator spud or objects where punching would be injurious, pull tension - raise clamp tool to bend strip at right angle - remove winder - clip off 1/4" above the bend - fold end, close over lock.



## Part Identification for the F40 Installation Tool

Intermediate size tool with anti-backlash ratchet.

- Material: steel
- Weight: 1.17 lbs.
- Length: 11"



**Part #**

**F40**

*For applying 3/8" and 5/8" band clamps*

Qty Per Tool	Part Description	Part #
1	Frame	F-240
1	Punch and holder	FCA-289
1	Winder	FF-290
2	Retaining ring	F-292
1	Ratchet wrench	FA-298
1	Lever	E-293
1	3/8" clamp adapter	FC-229
1	Spring	641104F1
1	Ball	E-295

*Illustrations are not in correct proportion to one another.*



F-240



FCA-289



FF-290



F-292



FA-298



E-293



FC-229



641104

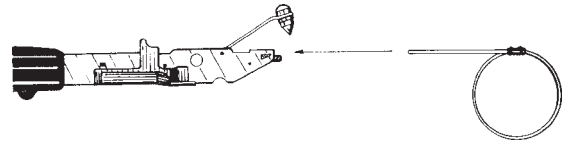


E-295

## Operating Instructions for the F40 Installation Tool

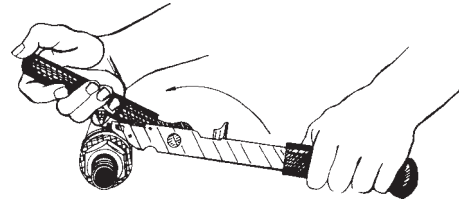
**1**

Push end of clamp into slotted end of clamp tool. Rotate ratchet wrench to engage clamp end in slot in winder.



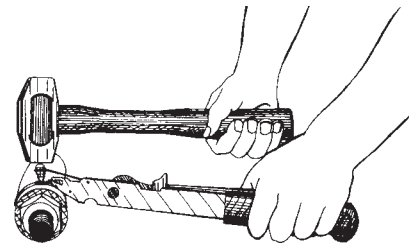
**2**

Push ratchet wrench forward with sufficient strokes until desired tension is obtained.



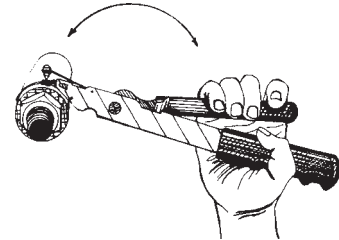
**3**

Grip ratchet wrench and tool together. Push punch down on lock and strike firm blow with hammer, thus locking the clamp tension.



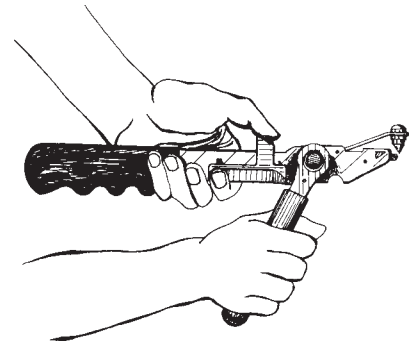
**4**

Raise punch and while holding wrench and tool together, rotate tool forward and up against edge of the lock, breaking off tail piece.



**5**

To remove tail piece, rotate wrench until tail is free from slot in tool. With thumb, slide lever and remove winder and wrench from tool.



**6**

For application of 3/8" wide clamps, swing 3/8" adapter to forward position and follow steps 1 through 5.



Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

**Dixon Valve & Coupling Company**

800 High Street, Chestertown, MD 21620

Customer Service: 800.355.1991

Fax: 800.283.4966

**[www.dixonvalve.com](http://www.dixonvalve.com)**

# New!



The Right Connection™

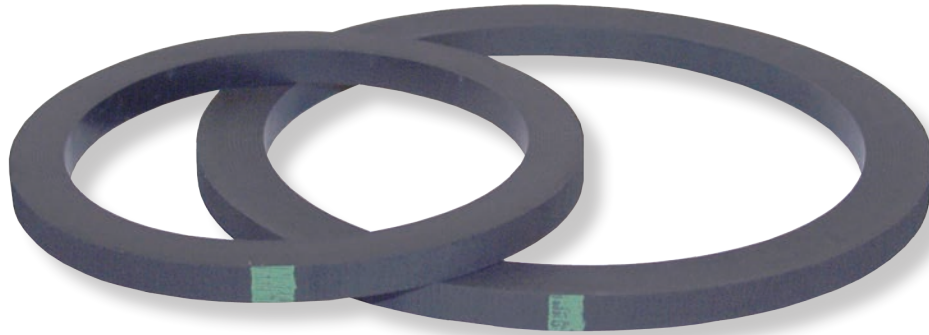
## Buna Cam & Groove Gaskets Formulated for Today's Motor Fuels

Today's motor fuels are quite complex. It is extremely rare to find motor fuels in their pure form such as straight, plain gasoline or diesel. Modern fuels may contain many hi-tech additives, and 'Bio' products such as Biodiesel and Ethanol. To top it off each oil company can use a different blend of additives; the result is that the standard Buna-N gasket is no longer compatible with today's fuels.

With the goal of being able to provide a cam and groove gasket that works with these modern fuels, Dixon has researched and tested various materials to produce a unique Buna blend specially formulated to stand up to these new fuel blends.

---

### Buna Fuel Cam and Groove Gaskets



- formulated for use with ethanol, bio-diesel and many fuel additives
- drop in replacement for other cam and groove gasket materials
- gaskets are black with green stripe for easy identification

Size	Description	Part #
3"	Buna fuel cam and groove gasket with green stripe	<b>300-G-BF</b>
4"	Buna fuel cam and groove gasket with green stripe	<b>400-G-BF</b>

**For more information on the new Buna Fuel cam and groove gaskets call 800.355.1991!**

---

**Dixon Valve & Coupling Co.**  
800 High Street • Chestertown, MD 21620  
ph 800.355.1991 • fx 800.283.4966  
[www.dixonvalve.com](http://www.dixonvalve.com)



# Dixon Global Cam and Groove



*The Right Connection™*

# Type A Adapters

Male Adapter x Female NPT



Size	Aluminum Part #	Size	Brass Part #	Size	Stainless Steel Part #
¾"	G75-A-AL	¾"	G75-A-BR	¾"	G75-A-SS
1"	G100-A-AL	1"	G100-A-BR	1"	G100-A-SS
1¼"	G125-A-AL	1¼"	G125-A-BR	1¼"	G125-A-SS
1½"	G150-A-AL	1½"	G150-A-BR	1½"	G150-A-SS
2"	G200-A-AL	2"	G200-A-BR	2"	G200-A-SS
2½"	G250-A-AL	2½"	G250-A-BR	2½"	G250-A-SS
3"	G300-A-AL	3"	G300-A-BR	3"	G300-A-SS
4"	G400-A-AL	4"	G400-A-BR	4"	G400-A-SS
6"	G600-A-AL	--	---	6"	G600-A-SS

See page 7 for material specifications.

# Type F Adapters

Male Adapter x Male NPT



Size	Aluminum Part #	Size	Brass Part #	Size	Stainless Steel Part #
¾"	G75-F-AL	¾"	G75-F-BR	¾"	G75-F-SS
1"	G100-F-AL	1"	G100-F-BR	1"	G100-F-SS
1¼"	G125-F-AL	1¼"	G125-F-BR	1¼"	G125-F-SS
1½"	G150-F-AL	1½"	G150-F-BR	1½"	G150-F-SS
2"	G200-F-AL	2"	G200-F-BR	2"	G200-F-SS
2½"	G250-F-AL	2½"	G250-F-BR	2½"	G250-F-SS
3"	G300-F-AL	3"	G300-F-BR	3"	G300-F-SS
4"	G400-F-AL	4"	G400-F-BR	4"	G400-F-SS
6"	G600-F-AL	--	---	6"	G600-F-SS

See page 7 for material specifications.

## SAFETY

### HOSE COUPLING SAFETY

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, [www.osha.gov](http://www.osha.gov).)
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.

# Type E Adapters

Male Adapter x Hose Shank



Size	Aluminum Part #
¾"	G75-E-AL
1"	G100-E-AL
1¼"	G125-E-AL
1½"	G150-E-AL
2"	G200-E-AL
2½"	G250-E-AL
3"	G300-E-AL
4"	G400-E-AL
6"	G600-E-AL

Size	Brass Part #
¾"	G75-E-BR
1"	G100-E-BR
1¼"	G125-E-BR
1½"	G150-E-BR
2"	G200-E-BR
2½"	G250-E-BR
3"	G300-E-BR
4"	G400-E-BR
--	---

Size	Stainless Steel Part #
¾"	G75-E-SS
1"	G100-E-SS
1¼"	G125-E-SS
1½"	G150-E-SS
2"	G200-E-SS
2½"	G250-E-SS
3"	G300-E-SS
4"	G400-E-SS
6"	G600-E-SS

See page 7 for material specifications.

# Type DP Adapters

Dust Plug



Size	Aluminum Part #
¾"	G75-DP-AL
1"	G100-DP-AL
1¼"	G125-DP-AL
1½"	G150-DP-AL
2"	G200-DP-AL
2½"	G250-DP-AL
3"	G300-DP-AL
4"	G400-DP-AL
6"	G600-DP-AL

Size	Brass Part #
¾"	G75-DP-BR
1"	G100-DP-BR
1¼"	G125-DP-BR
1½"	G150-DP-BR
2"	G200-DP-BR
2½"	G250-DP-BR
3"	G300-DP-BR
4"	G400-DP-BR
--	---

Size	Stainless Steel Part #
¾"	G75-DP-SS
1"	G100-DP-SS
1¼"	G125-DP-SS
1½"	G150-DP-SS
2"	G200-DP-SS
2½"	G250-DP-SS
3"	G300-DP-SS
4"	G400-DP-SS
6"	G600-DP-SS

See page 7 for material specifications.

Dust plugs are NOT to be used in pressure applications for safety and environmental reasons.

# Type C Couplers

Female Coupler x Hose Shank



Size	Aluminum Part #
3/4"	G75-C-AL
1"	G100-C-AL
1 1/4"	G125-C-AL
1 1/2"	G150-C-AL
2"	G200-C-AL
2 1/2"	G250-C-AL
3"	G300-C-AL
4"	G400-C-AL
6"	G600-C-AL

Size	Brass Part #
3/4"	G75-C-BR
1"	G100-C-BR
1 1/4"	G125-C-BR
1 1/2"	G150-C-BR
2"	G200-C-BR
2 1/2"	G250-C-BR
3"	G300-C-BR
4"	G400-C-BR
--	---

Size	Stainless Steel Part #
3/4"	G75-C-SS
1"	G100-C-SS
1 1/4"	G125-C-SS
1 1/2"	G150-C-SS
2"	G200-C-SS
2 1/2"	G250-C-SS
3"	G300-C-SS
4"	G400-C-SS
6"	G600-C-SS

See page 7 for material specifications.

# Type D Couplers

Female Coupler x Female NPT



Size	Aluminum Part #
3/4"	G75-D-AL
1"	G100-D-AL
1 1/4"	G125-D-AL
1 1/2"	G150-D-AL
2"	G200-D-AL
2 1/2"	G250-D-AL
3"	G300-D-AL
4"	G400-D-AL
6"	G600-D-AL

Size	Brass Part #
3/4"	G75-D-BR
1"	G100-D-BR
1 1/4"	G125-D-BR
1 1/2"	G150-D-BR
2"	G200-D-BR
2 1/2"	G250-D-BR
3"	G300-D-BR
4"	G400-D-BR
--	---

Size	Stainless Steel Part #
3/4"	G75-D-SS
1"	G100-D-SS
1 1/4"	G125-D-SS
1 1/2"	G150-D-SS
2"	G200-D-SS
2 1/2"	G250-D-SS
3"	G300-D-SS
4"	G400-D-SS
6"	G600-D-SS

See page 7 for material specifications.

# Type B Couplers

Female Coupler x Male NPT



Size	Aluminum Part #
¾"	G75-B-AL
1"	G100-B-AL
1¼"	G125-B-AL
1½"	G150-B-AL
2"	G200-B-AL
2½"	G250-B-AL
3"	G300-B-AL
4"	G400-B-AL
6"	G600-B-AL

Size	Brass Part #
¾"	G75-B-BR
1"	G100-B-BR
1¼"	G125-B-BR
1½"	G150-B-BR
2"	G200-B-BR
2½"	G250-B-BR
3"	G300-B-BR
4"	G400-B-BR
--	---

Size	Stainless Steel Part #
¾"	G75-B-SS
1"	G100-B-SS
1¼"	G125-B-SS
1½"	G150-B-SS
2"	G200-B-SS
2½"	G250-B-SS
3"	G300-B-SS
4"	G400-B-SS
6"	G600-B-SS

See page 7 for material specifications.

# Type DC Dust Caps

Dust Cap



Size	Aluminum Part #
¾"	G75-DC-AL
1"	G100-DC-AL
1¼"	G125-DC-AL
1½"	G150-DC-AL
2"	G200-DC-AL
2½"	G250-DC-AL
3"	G300-DC-AL
4"	G400-DC-AL
6"	G600-DC-AL

Size	Brass Part #
¾"	G75-DC-BR
1"	G100-DC-BR
1¼"	G125-DC-BR
1½"	G150-DC-BR
2"	G200-DC-BR
2½"	G250-DC-BR
3"	G300-DC-BR
4"	G400-DC-BR
--	---

Size	Stainless Steel Part #
¾"	G75-DC-SS
1"	G100-DC-SS
1¼"	G125-DC-SS
1½"	G150-DC-SS
2"	G200-DC-SS
2½"	G250-DC-SS
3"	G300-DC-SS
4"	G400-DC-SS
6"	G600-DC-SS

See page 7 for material specifications.

Dust caps are NOT to be used in pressure applications for safety and environmental reasons.



# Handle Assemblies for Aluminum and Brass Couplers



Investment Cast Stainless Steel Handle



Brass Handle

Size	Description	Part #
3/4"	investment cast stainless steel	<b>G75HRP</b>
1"	investment cast stainless steel	<b>G100HRP</b>
1 1/4" - 2 1/2"	brass	<b>G125HRP</b>
3" - 4"	brass	<b>G34HRP</b>
6"	brass	<b>G600HRP</b>

Assembly includes handles, rings, pins

# Handle Assemblies for Stainless Steel Couplers



Sintered Stainless Steel Handle

Size	Description	Part #
3/4"	sintered stainless steel	<b>G75HRPSS</b>
1"	sintered stainless steel	<b>G100HRPSS</b>
1 1/4" - 2 1/2"	sintered stainless steel	<b>G125250HRPSS</b>
3" - 4"	sintered stainless steel	<b>G300400HRPSS</b>
6"	sintered stainless steel	<b>G600HRPSS</b>

Assembly includes handles, rings, pins

# Stainless Steel Ring



Description	Part #
stainless steel ring	<b>R200SS</b>

These products have been manufactured to Dixon's qualifications and are available for sale in North America through the Dixon Distribution System of warehouses.

## Dixon Global Cam and Groove Specifications

Dixon Global Cam and Groove couplers and adapters are produced to interchange with all product produced to *Mil-C-27487F*.  
*Designed for use with liquids, consult Dixon for specific recommendations.*

### Aluminum Couplers and Adapters

Size (inches)	¾" and 1"	1¼" through 2"	2½"	3"	4"	6"
Pressure (psig)	250	250	150	125	100	75
Body	A380 Permanent Mold					356T6 Permanent Mold
Handles	Investment Cast 316 Stainless	Forged Brass				
Rings	Zinc Plated Carbon Steel					
Pins	Carbon Steel					
Gaskets	Buna					

### Benefits of Permanent Mold Castings vs. Most Imported Pressure Die Castings

- permanent mold process *reduces metal turbulence* virtually eliminating pin hole porosity that is commonly found in die castings
- eliminating pin hole porosity allows machined surfaces to be *pressure tight with consistent mechanical and physical properties*
- permanent mold castings have a *stronger impact resistance and will not shatter*
- permanent mold process *does not allow trapped gas in the fittings, resulting in a smooth, strong finish for the coupling*

### Brass Couplers and Adapters

Size (inches)	¾" and 1"	1¼" through 2"	2½"	3"	4"	6"
Pressure (psig)	250	250	150	125	100	n / a
Body	Forged Brass, ASTM #38000					
Handles	Investment Cast 316 Stainless	Forged Brass				
Rings	Zinc Plated Carbon Steel					
Pins	Carbon Steel					
Gaskets	Buna					

### Stainless Steel Couplers and Adapters

Size (inches)	¾" and 1"	1¼" through 2"	2½"	3"	4"	6"
Pressure (psig)	250	250	150	125	100	75
Body	316 Stainless Steel Investment Cast CF8M, ASTM #A743					
Handles	316 Sintered Stainless Steel					
Rings	316 Stainless Steel					
Pins	303 Stainless Steel					
Gaskets	Buna					



Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for fire protection, food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining and manufacturing.



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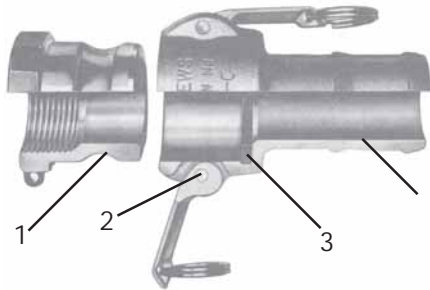
# CAM & GROOVE



Couplings & Accessories

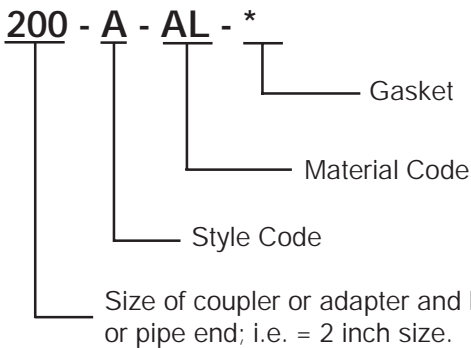
## Cam and Groove Information

### "ANDREWS"



1. Precision machined to rigid tolerances.
2. Durable stainless steel cam arm pins will not rust or bind, for greater strength and safety.
3. Recess holds gasket firmly in place - assures proper placement.
4. Long shank design allows proper banding thus eliminating the major cause of hose damage.

### ANDREWS ORDERING SYSTEM



*If coupling is a reducing size, the coupler or adapter is the first size (i.e. 4030-C is 4 inch coupler to 3 inch hose shank.)*

### Operation of Cam and Groove

1. To make connection, simply slide the adapter into the coupler and with normal hand pressure, press the cam levers down.
2. Uncoupling is as quick and simple as coupling. Just lift the cam arms and remove the adapter.

### "BOSS-LOCK"

"Boss-Lock" Cam & Groove provides a **unique patented safety feature.**



The Cast-in lugs allow safety clips to be attached once the lugs are passed through slots in the special cam lever arms. These clips prevent the coupler from being unlocked until they are removed, providing a **positive locking action.**

### Pull Ring Safety Clips



Dixon has developed the **Pull Ring Safety Clip** to simplify the locking action on "Boss-Lock" couplers. No more inserting clips or dangling lanyards, just a twist and it's locked, giving you a low profile **positive locking action.**

The Pull Ring Safety Clip will be phased into stock on all "Boss-Lock" couplers as inventory is replaced.

#### Buy with Confidence

*"Boss-Lock" Investment Stainless Steel Cam Arms are Guaranteed!!!*

Should you ever break a "Boss-Lock" Investment Stainless Steel Cam Arm, simply return it to the nearest warehouse for a free replacement.

## SPECIFICATIONS ON OUR CAM AND GROOVE

#### Specifications:

"Andrews", "Boss-Lock" and "EZ Boss-Lock" Cam and Groove couplers and adapters are produced to interchange with all product produced to **Mil-C-27487F**. No standard exists for the 1/2" and 8" fittings, and generally these sizes do not interchange with other manufacturers.  
*Dust Caps and Dust Plugs are NOT to be used in Pressure Applications for safety and environmental reasons.*

#### Pressure Ratings:

**Designed for use with Liquids**, consult Dixon for specific recommendations.



Recommendations based on the use of mating Dixon fittings at ambient temperature (70° F) with standard Buna-N Seal installed. For use at elevated temperature or other unusual operating conditions, consult the factory.

"Andrews", "Boss-Lock" and "EZ Boss-Lock" Couplers and Adapters Maximum Working Pressure						
Sizes	1/2"	3/4"-2"	2 1/2"	3"	4"	5" & 6"
PSI	150	250	150	125	100	75

## "EZ BOSS-LOCK"

No more fumbling with clamps, wire, clips or pins . . .  
*Just close the handles and the locking mechanism is engaged.*

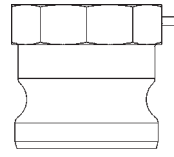


### Unlike other safety couplings . . .

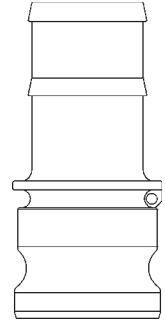
- The EZ Boss-Lock is extremely **EASY TO OPEN!!!** *The release lever is under your thumb when you want to open the fitting. ERGONOMIC.*
- The EZ Boss-Lock is resistant to accidental disconnection when being dragged. *The release lever opens in the direction opposite to the cam arm, so movements that tend to open the release lever also tend to close the cam arm!!!*
- The EZ Boss-Lock alerts you if it is not properly engaged. *If the rotating lever is not flush with the handle, it is not properly engaged.*
- The EZ Boss-Lock has no sliding pins to jam. *The EZ Boss-Lock's rotating action helps keep the locking device free of debris.*
- The EZ Boss-Lock has no sliding pins to pop open. *The EZ Boss-Lock is designed to protect critical parts from impact and to withstand rugged use.*
- The EZ Boss-Lock can be supplied with special shanks custom suited to your needs. *The EZ Boss-Lock is available with Swaged and PF shank designs, for hard to couple chemical hoses.*
- The EZ Boss-Lock cam arm assemblies are made of investment cast Stainless Steel with plated Carbon Steel pull rings.
- The EZ Boss-Lock is easier to insert into the hose tubes on Tank Trucks, and easier to use in restricted spaces. *This is due to the smaller maximum O.D. and a more snag free exterior.*
- The EZ Boss-Lock Cam Arm assemblies can be retrofitted onto Undamaged Stainless Steel Boss-Lock. *This allows you to protect your investment in Stainless Steel Boss-Lock couplings while you upgrade.*
- The EZ Boss-Lock is Made in the USA.

*All measurements in this brochure are for reference only and are subject to change. Where dimensions are critical, please consult the factory. For products not shown or special application questions, please consult the factory.*

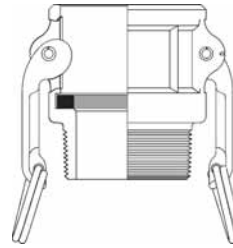
## CAM & GROOVE LINE DRAWINGS



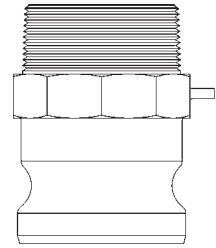
**TYPE A**  
(male adapter x female NPT)



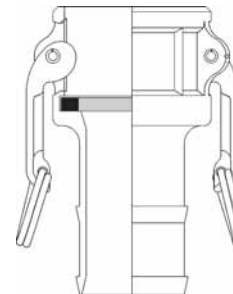
**TYPE E**  
(male adapter x hose shank)



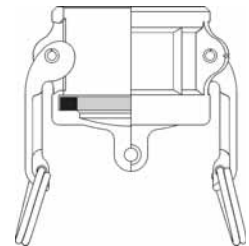
**TYPE B**  
(female coupler x male NPT)



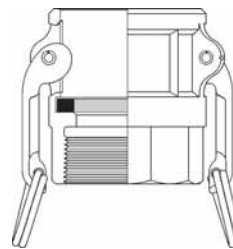
**TYPE F**  
(male adapter x male NPT)



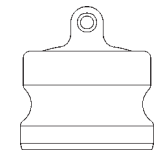
**TYPE C**  
(female coupler x hose shank)



**TYPE DC \***  
(dust cap)



**TYPE D**  
(female coupler x female NPT)



**TYPE DP \***  
(dust plug)

**NOTE:** Line drawings are representative of the Dixon / "Andrews" line of cam and groove.

*\* Dust Caps and Dust Plugs are NOT to be used in Pressure Applications for safety and environmental reasons.*

**WARNING:**  
**UNDER NO CIRCUMSTANCES**  
 should Cam and Groove couplings  
 be used for compressed air  
 or steam service!

**SAFETY**  
**ALERT**

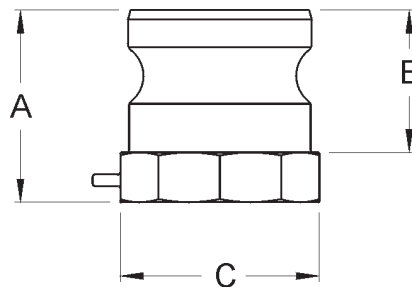


Male Adapter x Female NPT

	Aluminum	Aluminum Hard Coat	Brass	Unplated Malleable Iron	Plated Malleable Iron	Stainless Steel
Size	Part #	Part #	Part #	Part #	Part #	Part #
1/2"	50-A-AL	----	50-A-BR	----	----	50-A-SS
3/4" x 1/2"	7550-A-AL	----	7550-A-BR	----	----	7550-A-SS
3/4"	75-A-AL	----	75-A-BR	----	75-A-PM	75-A-SS
1"	100-A-AL	----	100-A-BR	----	100-A-PM	100-A-SS
1 1/4"	125-A-AL	----	125-A-BR	----	----	125-A-SS
1 1/2"	150-A-AL	150-A-ALH	150-A-BR	150-A-MI	150-A-PM	150-A-SS
2"	200-A-AL	200-A-ALH	200-A-BR	200-A-MI	200-A-PM	200-A-SS
2 1/2"	250-A-AL	----	250-A-BR	----	250-A-PM	250-A-SS
3"	300-A-AL	300-A-ALH	300-A-BR	300-A-MI	300-A-PM	300-A-SS
4"	400-A-AL	400-A-ALH	400-A-BR	400-A-MI	400-A-PM	400-A-SS
5"	500-A-AL	----	----	500-A-MI	----	500-A-SS
6"	600-A-AL	600-A-ALH	600-A-BR	----	600-A-PM	600-A-SS
8" AND*	800-A-AL	----	----	----	----	----
8" BL*	801-A-AL	----	----	----	----	----

- \* "Andrews" and "Boss-Lock" Cam and Groove Couplings **DO NOT INTERCHANGE IN THE 8" SIZE.**
- The 8" "Boss-Lock" were designed to interchange with 8" Cam & Groove Couplings manufactured by P.T. Coupling.

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ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS

Size	1/2"	3/4" x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8" AND	8" BL
<b>A</b> Overall Length	1 9/16	1 5/8	1 7/16	1 11/16	2 3/16	2 7/32	2 19/32	2 3/4	2 3/4	3 1/8	3 17/32	3 3/8	4 13/16	4 7/16
<b>B</b> Adapter Length	1	1	1	1 5/16	1 9/16	1 5/8	1 7/8	1 15/16	2	2 1/16	2 5/16	2 1/4	3 9/16	2 1/4
<b>C</b> Distance Across Flats	1	1 5/16	1 5/16	1 1/2	2	2 9/32	2 25/32	3 1/4	3 7/8	5	5 15/16	7 3/4*	10 5/8*	10 5/8*

STAINLESS STEEL DIMENSIONS

Size	1/2"	3/4" x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8" AND	8" BL
<b>A</b> Overall Length	1 9/16	1 19/32	1 1/2	1 31/32	2 3/16	2 3/16	2 19/32	2 11/16	2 29/32	3 11/64	3 5/16	3 1/4	----	----
<b>B</b> Adapter Length	1	1	1	1 5/16	1 9/16	1 5/8	1 7/8	1 15/16	2	2 1/16	2 5/16	2 1/4	----	----
<b>C</b> Distance Across Flats	1	1 5/16	1 5/16	1 1/2	2	2 1/4	2 11/16	3 1/4	3 3/4	5	6 3/4*	6 3/4*	----	----

\* Distance Over Lugs.



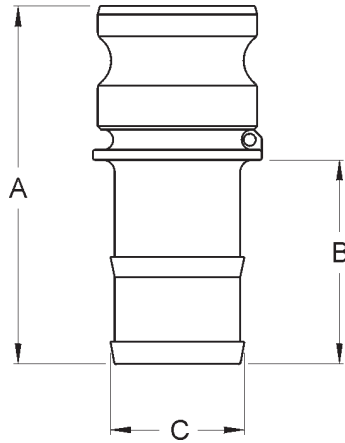


Male Adapter x Hose Shank

	Aluminum	Aluminum Hard Coat	Brass	Unplated Malleable Iron	Plated Malleable Iron	Stainless Steel
Size	Part #	Part #	Part #	Part #	Part #	Part #
1/2"	50-E-AL	----	50-E-BR	----	----	50-E-SS
3/4" x 1/2"	7550-E-AL	----	7550-E-BR	----	7550-E-PM	7550-E-SS
3/4"	75-E-AL	----	75-E-BR	----	75-E-PM	75-E-SS
1"	100-E-AL	----	100-E-BR	----	100-E-PM	100-E-SS
1 1/4"	125-E-AL	----	125-E-BR	----	125-E-PM	125-E-SS
1 1/2"	150-E-AL	150-E-ALH	150-E-BR	150-E-MI	150-E-PM	150-E-SS
2"	200-E-AL	200-E-ALH	200-E-BR	200-E-MI	200-E-PM	200-E-SS
2 1/2"	250-E-AL	----	250-E-BR	----	----	250-E-SS
3"	300-E-AL	300-E-ALH	300-E-BR	300-E-MI	300-E-PM	300-E-SS
4"	400-E-AL	400-E-ALH	400-E-BR	400-E-MI	400-E-PM	400-E-SS
5"	500-E-AL	----	----	----	----	500-E-SS
6"	600-E-AL	600-E-ALH	600-E-BR	----	600-E-PM	600-E-SS
8" AND*	800-E-AL	----	----	----	----	----
8" BL*	801-E-AL	----	----	----	----	----

- \* "Andrews" and "Boss-Lock" Cam and Groove Couplings **DO NOT INTERCHANGE IN THE 8" SIZE.**
- The 8" "Boss-Lock" were designed to interchange with 8" Cam & Groove Couplings manufactured by P.T. Coupling.

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**ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS**

Size	1/2"	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8" AND	8" BL
<b>A</b> Overall Length	2 1/2	2 3/4	3	3 13/16	4 15/16	5 1/16	5 5/8	6 1/4	6 7/8	7 3/16	7 5/32	9 13/16	11 13/16	11
<b>B</b> Hose Shank Length	1 7/16	1 5/16	2	2 1/2	2 13/16	2 15/16	3 1/4	3 3/4	4 3/16	4 1/4	4 1/4	6 3/4	8	8
<b>C</b> Hose Shank O.D.	9/16	19/32	27/32	1 3/64	1 11/32	1 9/16	2 1/16	2 19/32	3 3/32	4 3/32	5 3/32	6 3/32	8 1/16	8 1/16

**STAINLESS STEEL DIMENSIONS**

Size	1/2"	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8" AND
<b>A</b> Overall Length	2 7/16	2 3/4	3	4 25/64	4 7/8	5	5 17/32	6 1/4	6 11/16	6 53/64	7 15/16	8 5/8	-----
<b>B</b> Hose Shank Length	1 7/16	1 5/16	2	2 43/64	2 7/8	2 15/16	3 5/32	3 3/4	4	4 1/4	4 15/16	5 1/2	-----
<b>C</b> Hose Shank O.D.	9/16	9/16	13/16	1 3/64	1 5/16	1 9/16	2 1/16	2 19/32	3 3/32	4 3/32	5 3/32	6 3/32	-----



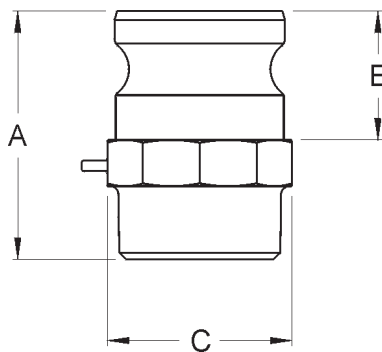
Male Adapter x Male NPT

	Aluminum	Aluminum Hard Coat	Brass	Unplated Malleable Iron	Plated Malleable Iron	Stainless Steel
Size	Part #	Part #	Part #	Part #	Part #	Part #
1/2"	50-F-AL	----	50-F-BR	----	----	50-F-SS
3/4" x 1/2"	7550-F-AL	----	7550-F-BR	----	----	7550-F-SS
3/4"	75-F-AL	----	75-F-BR	----	75-F-PM	75-F-SS
1"	100-F-AL	----	100-F-BR	----	100-F-PM	100-F-SS
1 1/4"	125-F-AL	----	125-F-BR	----	----	125-F-SS
1 1/2"	150-F-AL	150-F-ALH	150-F-BR	150-F-MI	150-F-PM	150-F-SS
2"	200-F-AL	200-F-ALH	200-F-BR	200-F-MI	200-F-PM	200-F-SS
2 1/2"	250-F-AL	----	250-F-BR	----	250-F-PM	250-F-SS
3"	300-F-AL	300-F-ALH	300-F-BR	300-F-MI	300-F-PM	300-F-SS
4"	400-F-AL	400-F-ALH	400-F-BR	400-F-MI	400-F-PM	400-F-SS
5"	500-F-AL	----	----	----	----	----
6"	600-F-AL	600-F-ALH	600-F-BR	----	600-F-PM	600-F-SS
8" AND*	800-F-AL	----	----	----	----	----
8" BL*	801-F-AL	----	----	----	----	----

\* "Andrews" and "Boss-Lock" Cam and Groove Couplings **DO NOT INTERCHANGE IN THE 8" SIZE.**

- The 8" "Boss-Lock" were designed to interchange with 8" Cam & Groove Couplings manufactured by P.T. Coupling.

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ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS

Size	1/2"	3/4" x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8" AND	8" BL
<b>A</b> Overall Length	2 1/8	2 7/16	2 1/16	2 3/8	2 15/16	3 5/32	3 17/32	4 3/8	4 15/32	4 21/32	4 1/2	5 17/32	6 15/16	6 3/8
<b>B</b> Adapter Length	1	1	1	1 5/16	1 9/16	1 5/8	1 7/8	1 15/16	2	2 1/16	2 5/16	2 1/4	3 9/16	3 1/16
<b>C</b> Distance Across Flats	1	1 5/16	1 3/8	1 1/2	1 7/8	2 1/4	2 11/16	3 1/4	3 3/4	5	6 1/2*	8 1/32*	10 5/8*	10 5/8*

STAINLESS STEEL DIMENSIONS

Size	1/2"	3/4" x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8" AND	8" BL
<b>A</b> Overall Length	2 1/8	2 1/4	2 1/16	2 23/32	2 15/16	3 1/8	3 21/32	4 5/16	4 17/32	4 59/64	-----	4 15/16	-----	-----
<b>B</b> Adapter Length	1	1	1	1 5/16	1 9/16	1 5/8	1 7/8	1 15/16	2	2 1/16	-----	2 1/4	-----	-----
<b>C</b> Distance Across Flats	1	1 5/16	1 5/16	1 1/2	1 7/8	2 1/4	2 11/16	3 1/4	3 3/4	5	-----	7 3/4*	-----	-----

\* Distance Over Lugs





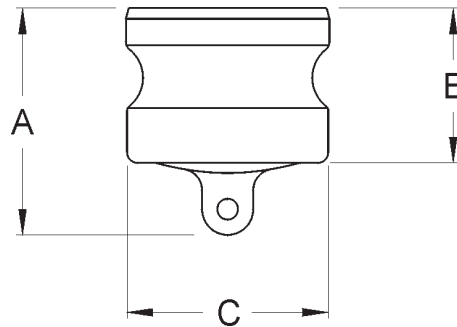
Dust Plug

Size	Aluminum Part #	Aluminum Hard Coat Part #	Brass Part #	Unplated Malleable Iron Part #	Plated Malleable Iron Part #	Stainless Steel Part #
1/2"	50-DP-AL	----	50-DP-BR	----	----	50-DP-SS
3/4"	75-DP-AL	----	75-DP-BR	----	----	75-DP-SS
1"	100-DP-AL	----	100-DP-BR	----	100-DP-PM	100-DP-SS
1 1/4"	125-DP-AL	----	125-DP-BR	125-DP-MI	125-DP-PM	125-DP-SS
1 1/2"	150-DP-AL	150-DP-ALH	150-DP-BR	150-DP-MI	150-DP-PM	150-DP-SS
2"	200-DP-AL	200-DP-ALH	200-DP-BR	200-DP-MI	200-DP-PM	200-DP-SS
2 1/2"	250-DP-AL	----	250-DP-BR	----	250-DP-PM	250-DP-SS
3"	300-DP-AL	300-DP-ALH	300-DP-BR	300-DP-MI	300-DP-PM	300-DP-SS
4"	400-DP-AL	400-DP-ALH	400-DP-BR	400-DP-MI	400-DP-PM	400-DP-SS
5"	500-DP-AL	----	----	----	----	----
6"	600-DP-AL	600-DP-ALH	600-DP-BR	----	----	600-DP-SS
8" AND*	800-DP-AL	----	----	----	----	----
8" BL*	801-DP-AL	----	----	----	----	----

- \* "Andrews" and "Boss-Lock" Cam and Groove Couplings **DO NOT INTERCHANGE IN THE 8" SIZE.**
- The 8" "Boss-Lock" were designed to interchange with 8" Cam & Groove Couplings manufactured by P.T. Coupling.

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*Dust caps and Dust Plugs are NOT to be used in Pressure Applications for safety and environmental reasons.*



**ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS**

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8" AND	8" BL
<b>A</b> Overall Length	1 1/4	1 1/4	1 11/32	2 3/8	2 13/32	2 7/8	2 9/16	2 13/16	3 1/16	3 11/16	3 3/16	5 1/4	4 1/2
<b>B</b> Adapter Length	1	1	1 5/16	1 9/16	1 5/8	1 7/8	1 15/16	2	2 1/16	2 5/16	2 1/4	3 1/4	2 3/4
<b>C</b> Outside O.D.	1 1/4	1 1/4	1 7/16	1 25/32	2 3/32	2 31/64	2 63/64	3 19/32	4 45/64	5 47/64	6 59/64	9 7/64	8 59/64

**STAINLESS STEEL DIMENSIONS**

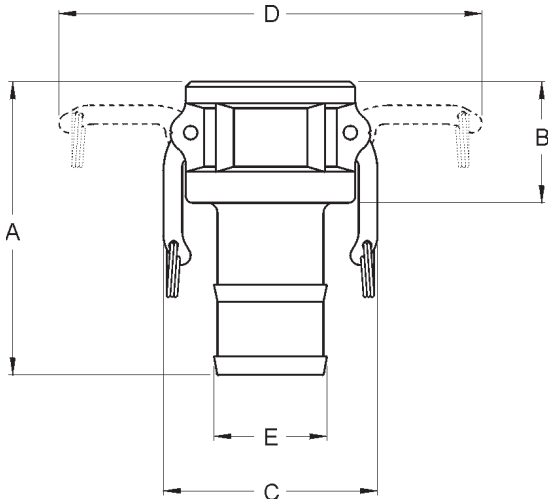
Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8" AND	8" BL
<b>A</b> Overall Length	1 1/4	1 1/4	1 11/32	2	2 1/2	2 3/4	2 7/8	2 27/32	3 1/8	-----	3 3/8	-----	-----
<b>B</b> Adapter Length	1	1	1 5/16	1 9/16	1 5/8	1 7/8	1 15/16	2	2 1/16	-----	2 1/4	-----	-----
<b>C</b> Outside O.D.	1 1/4	1 1/4	1 7/16	1 25/32	2 3/32	2 31/64	2 63/64	3 19/32	4 45/64	-----	6 59/64	-----	-----

# Dixon "Andrews" Type C Couplers



Female Coupler x Hose Shank

	Aluminum	Aluminum Hard Coat	Brass	Unplated Malleable Iron	Stainless Steel
Size	Part #	Part #	Part #	Part #	Part #
1/2"	50-C-AL	----	50-C-BR	----	50-C-SS
3/4"	75-C-AL	----	75-C-BR	----	75-C-SS
1"	100-C-AL	----	100-C-BR	----	100-C-SS
1 1/4"	----	----	----	----	125-C-SS
1 1/2"	150-C-AL	150-C-ALH	150-C-BR	150-C-MI	150-C-SS
2"	200-C-AL	200-C-ALH	200-C-BR	200-C-MI	200-C-SS
2 1/2"	----	----	----	----	250-C-SS
3"	300-C-AL	300-C-ALH	300-C-BR	300-C-MI	300-C-SS
4"	400-C-AL	400-C-ALH	400-C-BR	400-C-MI	400-C-SS
5"	500-C-AL	----	----	----	500-C-SS
6"	600-C-AL	600-C-ALH	600-C-BR	----	600-C-SS
8" *	800-C-AL	----	----	----	----



\* "Andrews" and "Boss-Lock" Cam and Groove Couplings **DO NOT INTERCHANGE IN THE 8" SIZE.**



- See "Boss-Lock" for 1 1/4" and 2 1/2" couplers.
- The 8" "Andrews" design has 4 cam arms. 1/2" Andrews has only one cam arm.
- **Finger rings are not supplied on 1/2" - 1" "Andrews" couplings.**

### ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
A Overall Length	2 21/32	3 3/4	4 7/32	4 41/64	4 25/32	5 19/32	-----	6 1/2	6 9/16	6 9/16	9 3/8	11 13/16
B Coupler Length	1 7/32	1 1/4	1 19/32	1 59/64	1 7/8	2 11/32	-----	2 5/16	2 5/16	2 5/16	2 5/8	3 13/16
C Distance Across Closed Cam Arms	1 17/32	2 1/8	2 7/16	3 1/4	3 9/16	3 15/16	-----	5 15/32	6 9/16	7 9/16	10 3/32	12 1/32
D Distance Across Open Cam Arms	2 11/16	4 3/8	5 3/16	7 5/32	7 7/16	7 13/16	-----	10 3/32	11 3/16	12 3/16	16 1/4	19 31/32
E Hose Shank O.D.	9/16	13/16	1 3/64	1 5/16	1 9/16	2 1/16	-----	3 3/32	4 3/32	5 3/32	6 3/32	8 1/16

### STAINLESS STEEL DIMENSIONS

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"
A Overall Length	3 1/4	3 11/16	4 1/4	4 41/64	4 27/32	5 3/8	6	6 3/8	6 17/32	7 3/8	8 3/32
B Coupler Length	1 1/4	1 1/4	1 9/16	1 29/32	1 29/32	2 7/32	2 1/4	2 3/8	2 9/32	2 7/16	2 19/32
C Distance Across Closed Cam Arms	1 17/32	2 1/8	2 7/16	3 1/4	3 9/16	3 15/16	4 7/16	5 15/32	6 9/16	7 9/16	10 3/32
D Distance Across Open Cam Arms	2 11/16	4 3/8	5 3/16	7 5/32	7 7/16	7 13/16	8 11/32	10 3/32	11 3/16	12 3/16	16 1/4
E Hose Shank O.D.	9/16	13/16	1 3/64	1 5/16	1 9/16	2 1/16	2 19/32	3 3/32	4 3/32	5 3/32	6 3/32

# "Boss-Lock" Type C Couplers



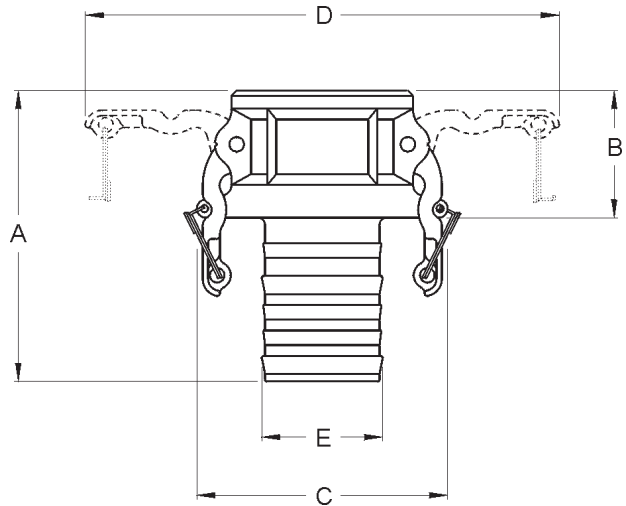
Female Coupler x Hose Shank

	Aluminum	Brass	Plated Malleable Iron	Stainless Steel
Size	Part #	Part #	Part #	Part #
3/4" 1/2"	----	----	----	RC050BL
3/4"	AC075	BC075	IC075	RC075BL
1"	AC100	BC100	IC100	RC100BL
1 1/4"	AC125	BC125	----	RC125BL
1 1/2"	AC150	BC150	IC150	RC150BL
2"	AC200	BC200	IC200	RC200BL
2 1/2"	AC250	BC250	----	----
3"	AC300	BC300	IC300	RC300BL
4"	AC400	BC400	IC400	RC400BL
6"	AC600	BC600	IC600	----
8" *	AC800	----	----	----

\* "Andrews" and "Boss-Lock" Cam and Groove Couplings **DO NOT INTERCHANGE IN THE 8" SIZE.**



- The 8" "Boss-Lock" design has 2 cam arms.
- All "Boss-Lock" Couplers come with SAFETY CLIPS.
- The 8" "Boss-Lock" were designed to interchange with 8" Cam & Groove Couplings manufactured by P.T. Coupling.



### ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS

Size	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
A Overall Length	-----	4 25/64	4 57/64	5 7/16	4 29/32	5 19/32	6 1/16	6 19/64	6 9/16	-----	8 3/8	11 13/16
B Coupler Length	-----	1 33/64	1 35/64	2 3/32	2 5/32	2 7/32	2 1/4	2 19/64	2 5/16	-----	2 5/8	2 13/16
C Distance Across Safety Lugs	-----	2 19/32	2 29/32	3 39/64	3 29/32	4 5/16	4 13/16	5 9/16	6 11/16	-----	9 5/8	11 5/8
D Distance Across Open Cam Arms	-----	5 13/32	5 9/16	7 15/32	7 25/32	8 5/32	8 21/32	9 29/32	11	-----	16 5/32	18 11/64
E Hose Shank O.D.	-----	13/16	1 3/64	1 5/16	1 9/16	2 1/16	2 19/32	3 3/32	4 3/32	-----	6 3/32	8 1/16

### STAINLESS STEEL DIMENSIONS

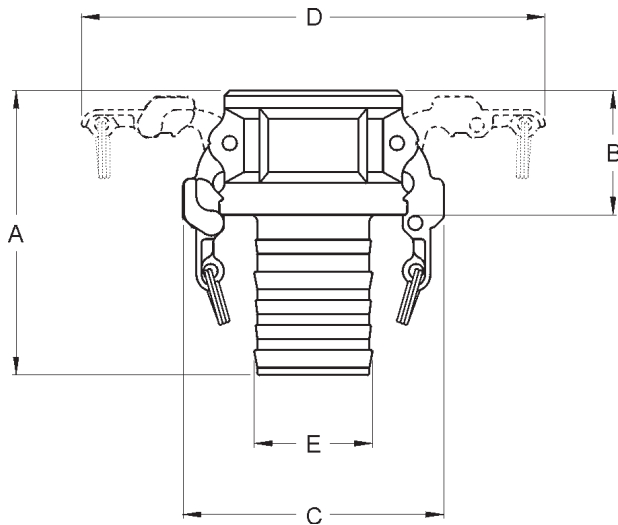
Size	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
A Overall Length	3 7/64	3 7/8	4 17/32	5 7/16	4 27/32	5	-----	6 9/32	7 3/8	-----	-----	-----
B Coupler Length	1 27/64	1 7/16	1 9/16	2 3/32	2 5/32	2 3/16	-----	2 9/32	2 5/16	-----	-----	-----
C Distance Across Safety Lugs	2 25/32	2 25/32	2 29/32	3 39/64	3 29/32	4 5/16	-----	5 9/16	6 11/16	-----	-----	-----
D Distance Across Open Cam Arms	5 13/32	5 13/32	5 9/16	7 15/32	7 25/32	8 5/32	-----	9 29/32	11	-----	-----	-----
E Hose Shank O.D.	9/16	13/16	1 3/64	1 5/16	1 9/16	2 1/16	-----	3 3/32	4 3/32	-----	-----	-----

# "EZ Boss-Lock" Type C Couplers



Female Coupler x Hose Shank

	Aluminum	Brass	Stainless Steel
Size	Part #	Part #	Part #
1/2"	----	----	RC050EZ
3/4"	AC075EZ	BC075EZ	RC075EZ
1"	AC100EZ	BC100EZ	RC100EZ
1 1/4"	----	BC125EZ	RC125EZ
1 1/2"	AC150EZ	BC150EZ	RC150EZ
2"	AC200EZ	BC200EZ	RC200EZ
2 1/2"	AC250EZ	BC250EZ	----
3"	AC300EZ	BC300EZ	RC300EZ
4"	AC400EZ	BC400EZ	RC400EZ
6"	AC600EZ	----	RC600EZ
8" *	AC800EZ	----	----



- \* "Andrews" and "Boss-Lock" Cam and Groove Couplings **DO NOT INTERCHANGE IN THE 8" SIZE.**
- SAFETY ALERT**
- The 8" "EZ Boss-Lock" design has 2 cam arms.
  - UNDER NO CIRCUMSTANCES** should the "EZ Boss-Lock" cam arms be used on any fitting not specifically produced for their use.
  - The "EZ Boss-Lock" cam arms **CANNOT** be retrofitted onto existing Aluminum, Brass or Plated Malleable Iron Boss-Lock already in service.

## ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS

Size	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
A Overall Length	3 7/64	4 25/64	4 57/64	5 7/16	4 29/32	5 19/32	6 1/16	6 19/64	6 9/16	8 3/8	11 13/16
B Coupler Length	1 27/64	1 33/64	1 35/64	2 3/32	2 5/32	2 7/32	2 1/4	2 19/64	2 5/16	2 5/8	2 13/16
C Distance Across Closed Cam Arms	3 3/32	3 3/32	3 1/4	3 29/32	4 7/32	4 19/32	5 3/32	5 23/32	6 27/32	10 1/32	12 1/32
D Distance Across Open Cam Arms	6 7/32	6 7/32	6 3/8	7 15/32	7 25/32	8 5/32	8 21/32	9 29/32	11	16 25/32	18 25/32
E Hose Shank O.D.	9/16	13/16	1 3/64	1 5/16	1 9/16	2 1/16	2 19/32	3 3/32	4 3/32	6 3/32	8 1/16

## STAINLESS STEEL DIMENSIONS

Size	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
A Overall Length	3 7/64	3 7/8	4 17/32	5 7/16	4 27/32	5	-----	6 9/32	7 3/8	8 3/32	-----
B Coupler Length	1 27/64	1 7/16	1 9/16	2 3/32	2 5/32	2 3/16	-----	2 9/32	2 5/16	2 19/32	-----
C Distance Across Closed Cam Arms	3 3/32	3 3/32	3 1/4	3 29/32	4 7/32	4 19/32	-----	5 23/32	6 27/32	10 1/32	-----
D Distance Across Open Cam Arms	5 13/32	5 13/32	5 9/16	7 15/32	7 25/32	8 5/32	-----	9 29/32	11	16 5/32	-----
E Hose Shank O.D.	9/16	13/16	1 3/64	1 5/16	1 9/16	2 1/16	-----	3 3/32	4 3/32	6 3/32	-----

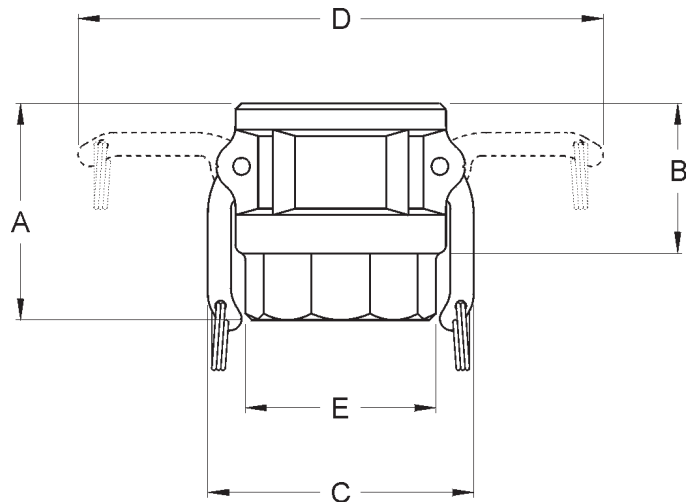


Female Coupler x Female NPT

	Aluminum	Aluminum Hard Coat	Brass	Unplated Malleable Iron	Stainless Steel
Size	Part #	Part #	Part #	Part #	Part #
1/2"	50-D-AL	-----	50-D-BR	-----	50-D-SS
3/4"	75-D-AL	-----	75-D-BR	-----	75-D-SS
1"	100-D-AL	-----	100-D-BR	-----	100-D-SS
1 1/4"	-----	-----	-----	-----	125-D-SS
1 1/2"	150-D-AL	150-D-ALH	150-D-BR	150-D-MI	150-D-SS
2"	200-D-AL	200-D-ALH	200-D-BR	200-D-MI	200-D-SS
2 1/2"	-----	-----	-----	-----	250-D-SS
3"	300-D-AL	300-D-ALH	300-D-BR	300-D-MI	300-D-SS
4"	400-D-AL	400-D-ALH	400-D-BR	400-D-MI	400-D-SS
5"	500-D-AL	-----	500-D-BR	500-D-MI	500-D-SS
6"	600-D-AL	600-D-ALH	600-D-BR	-----	600-D-SS
8" *	800-D-AL	-----	-----	-----	-----

- \* "Andrews" and "Boss-Lock" Cam and Groove Couplings **DO NOT INTERCHANGE IN THE 8" SIZE**. The 8" "Andrews" design has 4 cam arms.
- See "Boss-Lock" for 1 1/4" and 2 1/2" couplers.
- Finger rings are not supplied on 1/2" - 1" "Andrews" couplings.
- 1/2" Andrews has only one cam arm.

**SAFETY ALERT**



### ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
<b>A</b> Overall Length	2	2 5/32	2 9/16	2 27/32	2 7/8	2 27/32	-----	3 11/16	3 15/16	3 3/4	4 11/32	6
<b>B</b> Coupler Length	1 7/32	1 3/8	1 9/16	1 15/16	1 27/32	1 15/16	-----	2 3/8	2 5/16	2 5/16	2 5/8	4 1/4
<b>C</b> Distance Across Closed Cam Arms	1 17/32	2 1/8	2 7/16	3 1/4	3 9/16	3 1/4	-----	5 15/32	6 9/16	7 9/16	10 3/32	12 1/32
<b>D</b> Distance Across Open Cam Arms	2 11/16	4 3/8	5 3/16	7 5/32	7 7/16	7 5/32	-----	10 3/32	11 3/16	12 3/16	16 1/4	19 3/32
<b>E</b> Distance Across Flats	1 1/16	1 9/32	1 19/32	2	2 3/16	2 5/8	-----	3 7/8	5 1/16	6"	7 25/32*	10 3/4*

### STAINLESS STEEL DIMENSIONS

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
<b>A</b> Overall Length	1 7/8	2 1/16	2 1/2	2 27/32	2 27/32	3 13/64	3 7/16	3 19/32	3 47/64	4 1/16	4 1/16	-----
<b>B</b> Coupler Length	1 1/4	1 1/4	1 9/16	1 15/16	1 29/32	2 7/32	2 1/4	2 9/32	2 21/64	2 7/16	2 19/32	-----
<b>C</b> Distance Across Closed Cam Arms	1 17/32	2 1/8	2 7/16	3 1/4	3 9/16	3 15/16	4 7/16	5 15/32	6 9/16	7 9/16	10 3/32	-----
<b>D</b> Distance Across Open Cam Arms	2 11/16	4 3/8	5 3/16	7 5/32	7 7/16	7 13/16	8 11/32	10 3/32	11 3/16	12 13/16	16 1/4	-----
<b>E</b> Distance Across Flats	1 1/16	1 5/16	1 5/8	2	2 3/16	2 11/16	3 5/16	3 3/4	4 7/8	6 13/32*	7 5/8*	-----

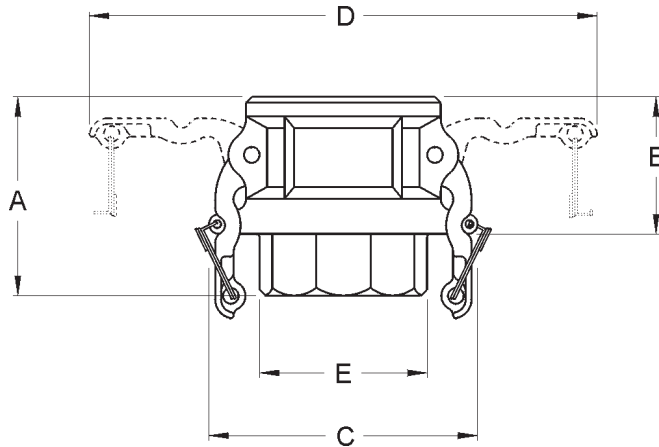
\* Distance Across Lugs.

# "Boss-Lock" Type D Couplers



Female Coupler x Female NPT

	Aluminum	Brass	Plated Malleable Iron	Stainless Steel
Size	Part #	Part #	Part #	Part #
3/4" x 1/2"	AD050	BD050	----	RD050BL
3/4"	AD075	BD075	ID075	RD075BL
1"	AD100	BD100	ID100	RD100BL
1 1/4"	AD125	BD125	----	RD125BL
1 1/2"	AD150	BD150	ID150	RD150BL
2"	AD200	BD200	ID200	RD200BL
2 1/2"	AD250	BD250	----	----
3"	AD300	BD300	ID300	RD300BL
4"	AD400	BD400	ID400	RD400BL
5"	AD500	----	----	----
6"	AD600	BD600	ID600	----
8" *	AD800	----	----	----



\* "Andrews" and "Boss-Lock" Cam and Groove Couplings **DO NOT INTERCHANGE IN THE 8" SIZE.**

**SAFETY ALERT**

- The 8" "Boss-Lock" design has 2 cam arms.
- All "Boss-Lock" Couplers come with SAFETY CLIPS.
- The 8" "Boss-Lock" were designed to interchange with 8" Cam & Groove Couplings manufactured by P.T. Coupling.

### ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS

Size	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
<b>A</b> Overall Length	2	2 15/64	2 35/64	3 3/32	3 7/32	3 1/4	3 11/16	3 55/64	3 13/16	3 15/16	4 5/8	4 1/2
<b>B</b> Coupler Length	1 27/64	1 33/64	1 35/64	2 3/32	2 3/32	2 7/32	2 1/4	2 19/64	2 5/16	2 5/16	2 5/8	2 13/16
<b>C</b> Distance Across Safety Lugs	2 19/32	2 19/32	2 29/32	3 39/64	3 29/32	4 5/16	4 13/16	5 9/16	6 11/16	7 25/32	9 5/8	11 5/8
<b>D</b> Distance Across Open Cam Arms	5 13/32	5 13/32	5 9/16	7 15/32	7 25/32	8 5/32	8 21/32	9 29/32	11	12 1/32	16 5/32	18 11/64
<b>E</b> Distance Across Flats	1 3/16	1 3/8	1 5/8	2	2 9/32	2 5/8	3 5/16	3 7/8	4 7/8	6	8 5/32*	9 7/8*

### STAINLESS STEEL DIMENSIONS

Size	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
<b>A</b> Overall Length	2	2 1/64	2 1/2	3 3/32	2 27/32	3 3/16	-----	3 19/32	3 13/16	-----	-----	-----
<b>B</b> Coupler Length	1 27/64	1 7/16	1 9/16	2 3/32	2 5/32	2 3/16	-----	2 9/32	2 5/16	-----	-----	-----
<b>C</b> Distance Across Safety Lugs	2 25/32	2 25/32	2 29/32	3 39/64	3 29/32	4 5/16	-----	5 9/16	5 11/16	-----	-----	-----
<b>D</b> Distance Across Open Cam Arms	5 13/32	5 13/32	5 9/16	7 15/32	7 25/32	8 5/32	-----	9 55/64	11	-----	-----	-----
<b>E</b> Distance Across Flats	1 3/16	1 3/8	1 5/8	2	2 3/16	2 11/16	-----	3 3/4	5 3/16	-----	-----	-----

\* Distance Across Lugs.



Female Coupler x Female NPT

	Aluminum	Brass	Stainless Steel
Size	Part #	Part #	Part #
3/4" x 1/2"	-----	-----	RD050EZ
3/4"	AD075EZ	BD075EZ	RD075EZ
1"	AD100EZ	BD100EZ	RD100EZ
1 1/4"	-----	BD125EZ	RD125EZ
1 1/2"	AD150EZ	BD150EZ	RD150EZ
2"	AD200EZ	BD200EZ	RD200EZ
2 1/2"	AD250EZ	BD250EZ	-----
3"	AD300EZ	BD300EZ	RD300EZ
4"	AD400EZ	BD400EZ	RD400EZ
5"	AD500EZ	-----	-----
6"	AD600EZ	-----	RD600EZ
8" *	AD800EZ	-----	-----

\* "Andrews" and "Boss-Lock" Cam and Groove Couplings  
**DO NOT INTERCHANGE IN THE 8" SIZE.**

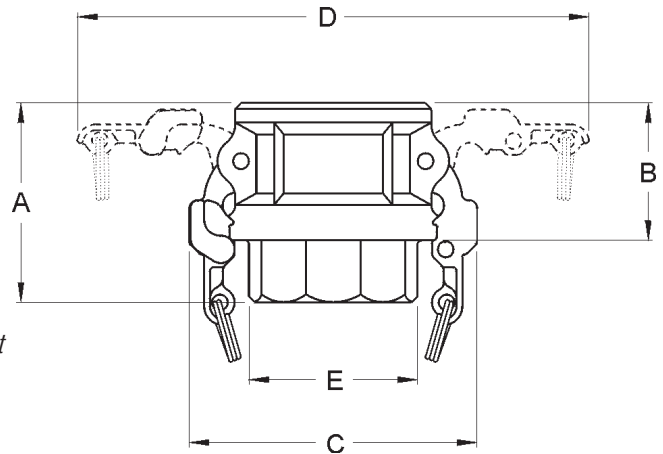
• The 8" "EZ Boss-Lock" design has 2 cam arms.



**UNDER NO CIRCUMSTANCES should the "EZ Boss-Lock" cam arms be used on any fitting not specifically produced for their use.**

The Aluminum, Brass and Malleable Iron are made from sand castings. To insure proper functioning of the "EZ Boss-Lock" cam arm assemblies, we sort the castings to insure there is sufficient length and orientation on the lugs on the main casting to engage the lever. We also buff or grind the rougher sand cast surface to insure that the lever will move freely.

**The "EZ Boss-Lock" cam arms CANNOT be retrofitted onto existing Aluminum, Brass or Plated Malleable Iron Boss-Lock already in service.**



### ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS

Size	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
A Overall Length	-----	2 15/64	2 35/64	3 3/32	3 7/32	3 1/4	3 11/16	3 55/64	3 13/16	3 15/16	4 5/8	4 1/2
B Coupler Length	-----	1 33/64	1 35/64	2 3/32	2 3/32	2 7/32	2 1/4	2 19/64	2 5/16	2 5/16	2 5/8	2 13/16
C Distance Across Closed Cam Arms	-----	3 3/32	3 1/4	3 29/32	4 7/32	4 19/32	5 3/32	5 23/32	6 27/32	7 7/8	10 1/32	12 1/32
D Distance Across Open Cam Arms	-----	6 7/32	6 3/8	7 15/32	7 25/32	8 5/32	8 21/32	9 29/32	11	12 1/16	16 25/32	18 25/32
E Distance Across Flats	-----	1 3/8	1 5/8	2	2 9/32	2 5/8	3 5/16	3 7/8	4 7/8	6	8 5/32*	9 7/8*

### STAINLESS STEEL DIMENSIONS

Size	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
A Overall Length	2	2 1/64	2 1/2	3 3/32	2 27/32	3 3/16	-----	3 19/32	3 13/16	-----	4 1/16	-----
B Coupler Length	1 27/64	1 7/16	1 9/16	2 3/32	2 5/32	2 3/16	-----	2 9/32	2 5/16	-----	2 19/32	-----
C Distance Across Closed Cam Arms	3 3/32	3 3/32	3 1/4	3 29/32	4 7/32	4 19/32	-----	5 23/32	6 27/32	-----	10 1/32	-----
D Distance Across Open Cam Arms	6 7/32	6 7/32	6 3/8	7 15/32	7 25/32	8 5/32	-----	9 29/32	11	-----	16 25/32	-----
E Distance Across Flats	1 3/16	1 3/8	1 5/8	2	2 3/16	2 11/16	-----	9 55/64	5 3/16	-----	7 5/8*	-----

\* Distance Across Lugs

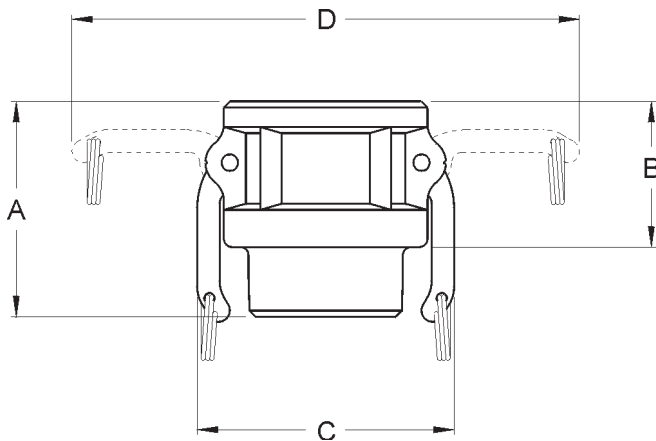


# Dixon "Andrews" Type B Couplers



Female Coupler x Male NPT

Size	Aluminum Part #	Aluminum Hard Coat Part #	Brass Part #	Unplated Malleable Iron Part #	Stainless Steel Part #
1/2"	50-B-AL	----	50-B-BR	----	50-B-SS
3/4"	75-B-AL	----	75-B-BR	----	75-B-SS
1"	100-B-AL	----	100-B-BR	----	100-B-SS
1 1/2"	150-B-AL	150-B-ALH	150-B-BR	150-B-MI	150-B-SS
2"	200-B-AL	200-B-ALH	200-B-BR	200-B-MI	200-B-SS
2 1/2"	----	----	----	----	250-B-SS
3"	300-B-AL	300-B-ALH	300-B-BR	----	300-B-SS
4"	400-B-AL	400-B-ALH	400-B-BR	300-B-MI	400-B-SS
5"	500-B-AL	----	----	400-B-MI	600-B-SS
6"	600-B-AL	600-B-ALH	----	----	----
8" *	800-B-AL	----	----	----	----



\* "Andrews" and "Boss-Lock" Cam and Groove Couplings **DO NOT INTERCHANGE IN THE 8" SIZE.**

• See "Boss-Lock" for 1 1/4" and 2 1/2" couplers.

• The 8" "Andrews" design has 4 cam arms.

• **Finger rings are not supplied on 1/2" - 1" "Andrews" couplings.**

• 1/2" Andrews has only one cam arm.



### ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
<b>A</b> Overall Length	2	2 3/16	2 17/32	2 7/8	2 13/16	3 9/32	----	3 15/16	4 1/32	4 3/16	4 7/16	8 7/16
<b>B</b> Coupler Length	1 7/32	1 3/8	1 19/32	1 31/32	1 29/32	2 7/32	----	2 15/16	2 11/32	2 5/16	2 5/8	3 13/16
<b>C</b> Distance Across Closed Cam Arms	1 17/32	2 1/8	2 7/16	3 1/4	3 9/16	3 15/16	----	5 15/32	6 9/16	7 9/16	10 3/32	12 1/32
<b>D</b> Distance Across Open Cam Arms	2 11/16	4 3/8	5 3/16	7 5/32	7 7/16	7 13/16	----	10 3/32	11 3/16	12 3/16	16 1/4	19 31/32

### STAINLESS STEEL DIMENSIONS

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
<b>A</b> Overall Length	1 7/8	2 1/8	2 9/16	2 27/32	2 31/32	3 9/32	3 7/16	3 59/64	4 1/64	----	4 35/64	----
<b>B</b> Coupler Length	1 1/4	1 1/4	1 9/16	1 29/32	1 29/32	2 7/32	2 1/4	2 9/32	2 9/32	----	2 19/32	----
<b>C</b> Distance Across Closed Cam Arms	1 17/32	2 1/8	2 7/16	3 1/4	3 9/16	3 15/16	4 7/16	5 15/32	6 9/16	----	10 3/32	----
<b>D</b> Distance Across Open Cam Arms	2 11/16	4 3/8	5 3/16	7 5/32	7 7/16	7 13/16	8 11/32	10 3/32	11 3/16	----	16 1/4	----



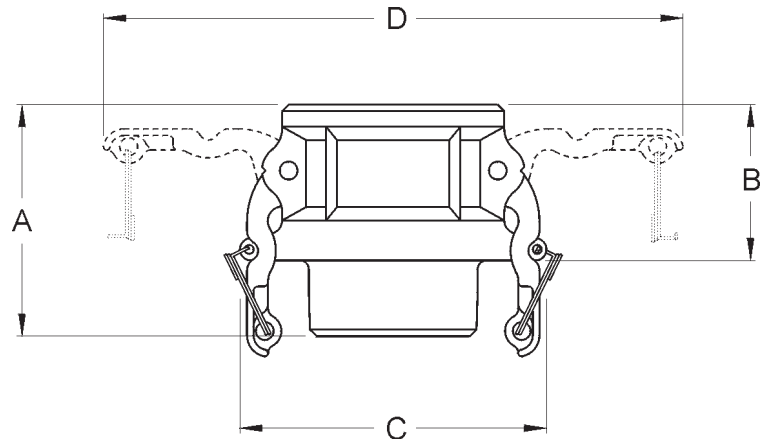
Female Coupler x Male NPT

	Aluminum	Brass	Plated Malleable Iron	Stainless Steel
Size	Part #	Part #	Part #	Part #
3/4" x 1/2"	AB050	BB050	IB050	RB050BL
3/4"	AB075	BB075	IB075	RB075BL
1"	AB100	BB100	IB100	RB100BL
1 1/4"	AB125	BB125	-----	RB125BL
1 1/2"	AB150	BB150	IB150	RB150BL
2"	AB200	BB200	IB200	RB200BL
2 1/2"	AB250	BB250	-----	-----
3"	AB300	BB300	IB300	RB300BL
4"	AB400	BB400	IB400	RB400BL
5"	-----	-----	-----	-----
6"	AB600	BB600	-----	-----
8" *	AB800	-----	-----	-----

\* "Andrews" and "Boss-Lock" Cam and Groove Couplings **DO NOT INTERCHANGE IN THE 8" SIZE.**

**SAFETY ALERT**

- The 8" "Boss-Lock" design has 2 cam arms.
- All "Boss-Lock" Couplers come with SAFETY CLIPS.
- The 8" "Boss-Lock" were designed to interchange with 8" Cam & Groove Couplings manufactured by P.T. Coupling.



### ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS

Size	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
<b>A</b> Overall Length	2 15/64	2 5/16	2 35/64	3 5/32	3 5/32	3 9/32	3 7/8	4	4 1/16	-----	4 23/32	7 1/8
<b>B</b> Coupler Length	1 27/64	1 33/64	1 35/64	2 3/32	2 3/32	1 27/64	2 1/4	2 5/16	2 5/16	-----	2 19/32	2 13/16
<b>C</b> Distance Across Safety Lugs	2 19/32	2 19/32	2 29/32	3 39/32	3 29/32	4 5/16	4 13/16	5 9/16	6 11/16	-----	9 5/8	11 5/8
<b>D</b> Distance Across Open Cam Arms	5 13/32	5 13/32	5 9/16	7 15/32	7 25/32	5 13/32	8 21/32	9 55/64	11	-----	16 5/32	18 11/64

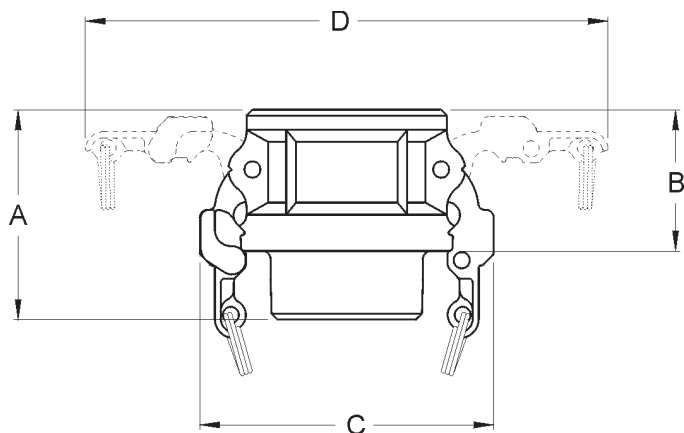
### STAINLESS STEEL DIMENSIONS

Size	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
<b>A</b> Overall Length	2 19/64	2 5/16	2 9/16	3 3/16	3 7/32	3 9/32	-----	3 59/64	4 1/16	-----	-----	-----
<b>B</b> Coupler Length	1 27/64	1 33/64	1 35/64	2 3/32	2 3/32	2 7/32	-----	2 9/32	2 5/16	-----	-----	-----
<b>C</b> Distance Across Safety Lugs	2 25/32	2 25/32	2 29/32	3 39/64	3 29/32	4 5/16	-----	5 9/16	6 11/16	-----	-----	-----
<b>D</b> Distance Across Open Cam Arms	5 13/32	5 13/32	5 9/16	7 15/32	7 25/32	8 5/32	-----	9 29/32	11	-----	-----	-----



Female Coupler x Male NPT

	Aluminum	Brass	Stainless Steel
Size	Part #	Part #	Part #
3/4" x 1/2"	----	----	RB050EZ
3/4"	----	BB075EZ	RB075EZ
1"	----	BB100EZ	RB100EZ
1 1/4"	AB100EZ	BB125EZ	RB125EZ
1 1/2"	AB150EZ	BB150EZ	RB150EZ
2"	AB200EZ	BB200EZ	RB200EZ
3"	AB300EZ	BB300EZ	RB300EZ
4"	AB400EZ	BB400EZ	RB400EZ
6"	AB600EZ	----	RB600EZ



**UNDER NO CIRCUMSTANCES** should the "EZ Boss-Lock" cam arms be used on any fitting not specifically produced for their use.

The Aluminum, Brass and Malleable Iron are made from sand castings. To insure proper functioning of the "EZ Boss-Lock" cam arm assemblies, we sort the castings to insure there is sufficient length and orientation on the lugs on the main casting to engage the lever. We also buff or grind the rougher sand cast surface to insure that the lever will move freely.

**The "EZ Boss-Lock" cam arms *CANNOT* be retrofitted onto existing Aluminum, Brass or Plated Malleable Iron Boss-Lock already in service.**

**ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS**

Size	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
<b>A</b> Overall Length	-----	2 5/16	2 9/16	3 3/16	3 5/32	3 9/32	-----	4	4 1/16	-----	4 23/32	-----
<b>B</b> Coupler Length	-----	1 33/64	1 9/16	2 3/32	2 3/32	2 7/32	-----	2 5/16	2 5/16	-----	2 19/32	-----
<b>C</b> Distance Across Closed Cam Arms	-----	3 3/32	3 1/4	3 29/32	4 7/32	4 19/32	-----	5 23/32	6 27/32	-----	10 1/32	-----
<b>D</b> Distance Across Open Cam Arms	-----	6 7/32	6 3/8	7 15/32	7 25/32	8 5/32	-----	9 29/32	11	-----	16 25/32	-----

**STAINLESS STEEL DIMENSIONS**

Size	3/4 x 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
<b>A</b> Overall Length	2 19/64	2 1/4	2 9/16	3 3/16	3 7/32	3 1/4	-----	3 59/64	4 1/16	-----	4 35/64	-----
<b>B</b> Coupler Length	1 27/64	1 19/64	1 9/16	2 3/32	2 5/32	2 3/16	-----	2 9/32	2 5/16	-----	2 19/32	-----
<b>C</b> Distance Across Closed Cam Arms	3 3/32	3 3/32	3 1/4	3 29/32	4 7/32	4 19/32	-----	5 23/32	6 27/32	-----	10 1/32	-----
<b>D</b> Distance Across Open Cam Arms	6 7/32	6 7/32	6 3/8	7 15/32	7 25/32	8 5/32	-----	9 29/32	11	-----	16 25/32	-----



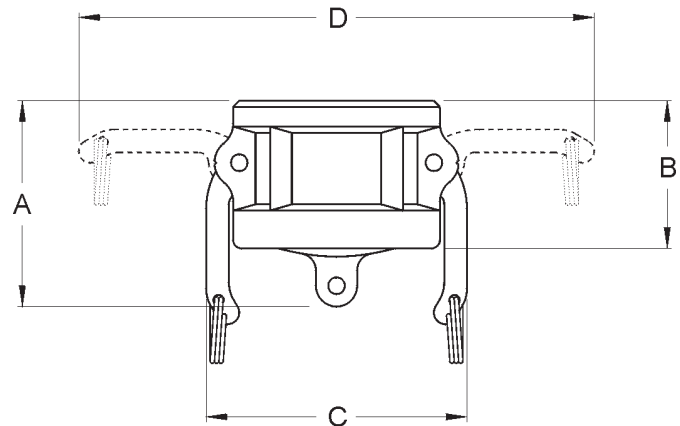
Type DC Dust Cap

	Aluminum	Aluminum Hard Coat	Brass	Unplated Malleable Iron	Stainless Steel
Size	Part #	Part #	Part #	Part #	Part #
1/2"	50-DC-AL	----	50-DC-BR	----	50-DC-SS
3/4"	75-DC-AL	----	75-DC-BR	----	75-DC-SS
1"	100-DC-AL	----	100-DC-BR	----	100-DC-SS
1 1/2"	150-DC-AL	150-DC-ALH	150-DC-BR	----	150-DC-SS
2"	200-DC-AL	200-DC-ALH	200-DC-BR	200-DC-MI	200-DC-SS
3"	300-DC-AL	300-DC-ALH	300-DC-BR	----	250-DC-SS
4"	400-DC-AL	400-DC-ALH	400-DC-BR	300-DC-MI	300-DC-SS
5"	500-DC-AL	----	500-DC-BR	400-DC-MI	400-DC-SS
6"	600-DC-AL	600-DC-ALH	----	----	500-DC-SS
8" *	800-DC-AL	----	----	----	600-DC-SS

Dust Caps and Dust Plugs are NOT to be used in Pressure Applications for safety and environmental reasons.

- \* "Andrews" and "Boss-Lock" Cam and Groove Couplings **DO NOT INTERCHANGE IN THE 8" SIZE.**
- \*\* See "Boss-Lock" for 1 1/4" and 2 1/2" couplers.
- The 8" "Andrews" Dust Cap has 2 cam arms, unlike the Andrews Type D, which has 4.
- Finger rings are not supplied on 1/2" - 1" "Andrews" couplings.
- 1/2" Andrews has only one cam arm.

**SAFETY ALERT**



### ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
A Overall Length	1 13/16	2 1/16	2 11/32	2 9/16	2 23/32	3 1/64	-----	3 1/8	3 21/32	3 1/2	3 13/16	5 7/16
B Coupler Length	1 1/4	1 3/8	1 21/32	2	1 7/8	2 7/32	-----	2 1/4	2 5/16	2 5/16	2 5/8	3 13/16
C Distance Across Closed Cam Arms	1 17/32	2 1/8	2 7/16	3 1/4	3 9/16	3 15/16	-----	5 15/32	6 9/16	7 9/16	10 3/32	12 1/32
D Distance Across Open Cam Arms	2 11/16	4 3/8	5 3/16	7 5/32	7 7/16	7 13/16	-----	10 3/32	11 3/16	12 3/16	16 1/4	19 31/32

### STAINLESS STEEL DIMENSIONS

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
A Overall Length	1 3/4	1 3/4	2 3/16	-----	2 13/16	3 3/32	3 1/16	3 1/8	3 35/64	3 3/8	3 3/4	-----
B Coupler Length	1 1/4	1 1/4	1 9/16	-----	1 29/32	2 7/32	2 1/4	2 9/32	2 9/32	2 7/16	2 19/32	-----
C Distance Across Closed Cam Arms	1 17/32	2 1/8	2 7/16	-----	3 9/16	3 15/16	4 7/16	5 15/32	6 9/16	7 9/16	10 3/32	-----
D Distance Across Open Cam Arms	2 11/16	4 3/8	5 3/16	-----	7 7/16	7 13/16	8 11/32	10 3/32	11 3/16	12 3/16	16 1/4	-----

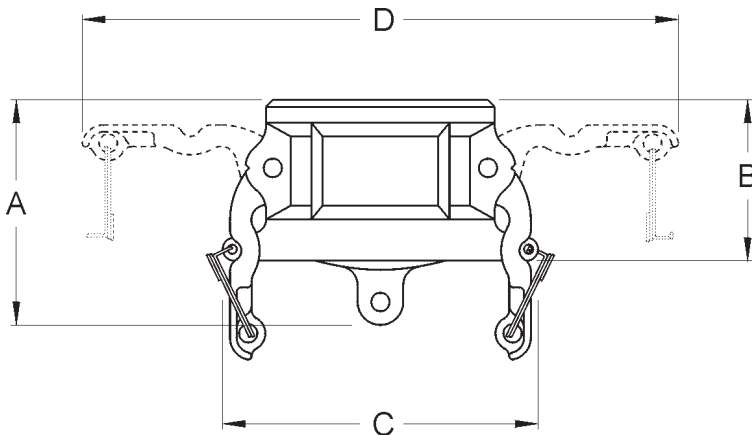
# Dixon "Boss-Lock" Type H Dust Cap



Type H Dust Cap

	Aluminum	Brass	Plated Malleable Iron	Stainless Steel
Size	Part #	Part #	Part #	Part #
3/4"	AH075	BH075	IH075	RH075BL
1"	AH100	BH100	IH100	RH100BL
1 1/4"	AH125	BH125	----	RH125BL
1 1/2"	AH150	BH150	IH150	RH150BL
2"	AH200	BH200	IH200	RH200BL
2 1/2"	AH250	BH250	IH250	----
3"	AH300	BH300	IH300	RH300BL
4"	AH400	BH400	IH400	RH400BL
6"	AH600	BH600	IH600	----
8" *	AH800	----	----	----

Dust Caps and Dust Plugs are NOT to be used in Pressure Applications for safety and environmental reasons.



- \* "Andrews" and "Boss-Lock" Cam and Groove Couplings DO NOT INTERCHANGE IN THE 8" SIZE. **SAFETY ALERT**
- The 8" "Boss-Lock" design has 2 cam arms.
- All "Boss-Lock" Couplers come with SAFETY CLIPS.
- The 8" "Boss-Lock" were designed to interchange with 8" Cam & Groove Couplings manufactured by P.T. Coupling.

### ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS

Size	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
A Overall Length	2 1/16	2 7/32	2 3/4	2 15/16	3 1/16	3 7/32	3 1/8	3 3/8	-----	3 7/8	4 9/16
B Coupler Length	1 31/64	1 9/16	2 3/32	2 3/32	2 3/16	2 1/4	2 19/64	2 5/16	-----	2 19/32	2 13/16
C Distance Across Safety Lugs	2 19/32	2 29/32	3 39/64	3 29/32	4 5/16	4 13/16	5 9/16	6 11/16	-----	9 5/8	11 5/8
D Distance Across Open Cam Arms	5 13/32	5 9/16	7 15/32	7 25/32	8 5/32	8 21/32	9 29/32	11	-----	16 5/32	18 11/64

### STAINLESS STEEL DIMENSIONS

Size	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
A Overall Length	1 15/16	2 3/16	2 3/4	2 13/16	3 1/16	-----	3 1/8	3 3/8	-----	-----	-----
B Coupler Length	1 7/16	1 9/16	2 3/32	2 5/32	2 3/16	-----	2 9/32	2 5/16	-----	-----	-----
C Distance Across Safety Lugs	2 25/32	2 29/32	3 39/64	3 29/32	4 5/16	-----	5 9/16	6 11/16	-----	-----	-----
D Distance Across Open Cam Arms	5 13/32	5 9/16	7 15/32	7 25/32	8 5/32	-----	9 29/32	11	-----	-----	-----



Dust Cap

	Aluminum	Brass	Stainless Steel
Size	Part #	Part #	Part #
3/4"	-----	BH075EZ	RH075EZ
1"	AH100EZ	BH100EZ	RH100EZ
1 1/4"	-----	-----	RH125EZ
1 1/2"	AH150EZ	BH150EZ	RH150EZ
2"	AH200EZ	BH200EZ	RH200EZ
2 1/2"	AH250EZ	-----	-----
3"	AH300EZ	BH300EZ	RH300EZ
4"	AH400EZ	BH400EZ	RH400EZ
6"	AH600EZ	-----	RH600EZ

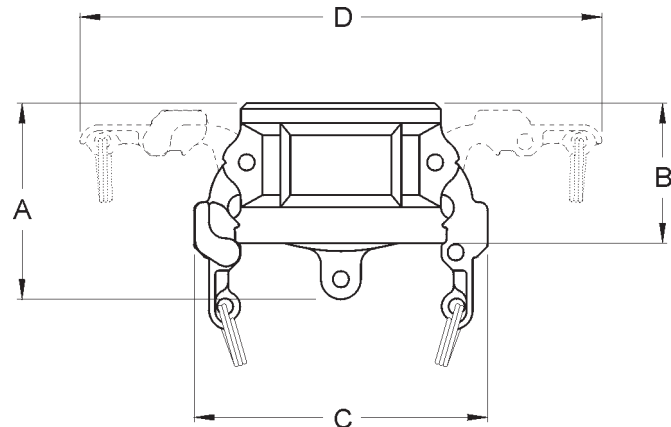
Dust Caps and Dust Plugs are NOT to be used in Pressure Applications for safety and environmental reasons.

UNDER NO CIRCUMSTANCES should the "EZ Boss-Lock" cam arms be used on any fitting not specifically produced for their use.

**SAFETY**  
**ALERT**

The Aluminum, Brass and Malleable Iron are made from sand castings. To insure proper functioning of the "EZ Boss-Lock" cam arm assemblies, we sort the castings to insure there is sufficient length and orientation on the lugs on the main casting to engage the lever. We also buff or grind the rougher sand cast surface to insure that the lever will move freely.

The "EZ Boss-Lock" cam arms **CANNOT** be retrofitted onto existing Aluminum, Brass or Plated Malleable Iron Boss-Lock already in service.



### ALUMINUM, BRASS and MALLEABLE IRON DIMENSIONS

Size	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
A Overall Length	2 1/16	2 7/32	-----	2 15/16	3 1/16	3 7/32	3 1/8	3 3/8	3 7/8
B Coupler Length	1 31/64	1 9/16	-----	2 3/32	2 3/16	2 1/4	2 19/64	2 5/16	2 19/32
C Distance Across Closed Cam Arms	3 3/32	3 1/4	-----	4 7/32	4 19/32	5 3/32	5 23/32	6 27/32	10 1/32
D Distance Across Open Cam Arms	6 7/32	6 3/8	-----	7 25/32	8 5/32	8 21/32	9 29/32	11	16 25/32

### STAINLESS STEEL DIMENSIONS

Size	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
A Overall Length	1 15/16	2 3/16	2 3/4	2 13/16	3 1/16	-----	3 1/8	3 3/8	3 3/4
B Coupler Length	1 7/16	1 9/16	2 3/32	2 5/32	2 3/16	-----	2 9/32	2 5/16	2 19/32
C Distance Across Closed Cam Arms	3 3/32	3 1/4	3 29/32	4 7/32	4 19/32	-----	5 23/32	6 27/32	10 1/32
D Distance Across Open Cam Arms	5 13/32	5 9/16	7 15/32	7 25/32	8 5/32	-----	9 29/32	11	16 5/32



## Swaged "EZ Boss-Lock" Type C Couplers



Coupler x Hose Shank  
with Ferrule

Size	Minimum Hose O.D.	Maximum Hose O.D.	Stainless Steel Part #
3/4"	1 6/64"	1 22/64"	RC075EZ-70
1"	1 29/64"	1 35/64"	RC100EZ-20
1"	1 9/16"	1 11/16"	RC100EZ-70

Developed specifically for chemical transport hoses having **Crosslinked Polyethylene (XLPE)** or **Ultra High Molecular Weight Polyethylene (UHMW)** tubes. Swaged "Boss-Lock" provides you with a permanently attached Cam and Groove fitting when superior coupling retention is required. In testing tank transport hoses from a wide variety of manufacturers, the Swaged "Boss-Lock" fitting proved itself to be **the clear winner in overall performance**.

Fittings are also available on special order for other sizes or hose O.D.'s. *Consult the Factory for pricing and availability.*

*Consult the Factory for pricing and availability of the special equipment required for installation.*

**SAFETY**  
**ALERT**

## Notched "EZ Boss-Lock" Type C Couplers



Coupler x Hose Shank



Ferrule

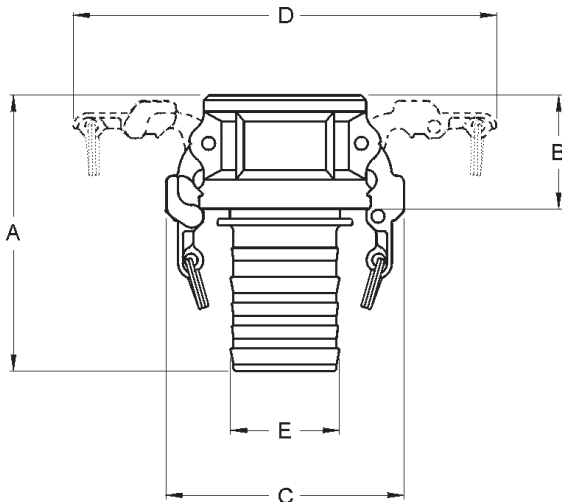
Size	Minimum Hose O.D.	Maximum Hose O.D.	Stainless Steel Part #	Stainless Steel Notched Ferrule Part #
1 1/2"	1 15/16"	2 3/16"	RC150EZNO	GAS2334NO
1 1/2"	2 1/16"	2 11/32"	RC150EZNO	GAS2370NO
2"	2 15/32"	2 11/16"	RC200EZNO	GAS2709NO
2"	2 21/32"	2 27/32"	RC200EZNO	GAS2885NO
3"	3 15/32"	3 23/32"	RC300EZNO	GAS3760NO
3"	3 47/64"	3 27/32"	RC300EZNO	GAS3885NO
4"	4 5/8"	4 47/64"	RC400EZNO	GAS5010NO

The largest advantage of the Notched "EZ Boss-Lock" design is that the coupling can be removed from a damaged hose by cutting away the ferrule, without necessarily damaging the fitting. **After inspection to determine its suitability for reuse**, it can be reinstalled into another hose by **using a new ferrule**.

The Notched EZ "Boss-Lock" system allows you to better manage your inventories. You can stock one coupling and two ferrules, and thereby cover the same hose range with less inventory. **You must purchase a fitting and the matching ferrule to create an assembly.**

*Dixon stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances for safety reasons, do not use other manufacture's stems or ferrules with Dixon Cam and Groove or Holedall products.*

**SAFETY**  
**ALERT**



### STAINLESS STEEL DIMENSIONS

Size	1 1/2"	2"	3"	4"
<b>A</b> Overall Length	5 7/16	5 11/32	6 19/32	7 3/8
<b>B</b> Coupler Length	2 5/32	2 3/16	2 9/32	2 5/16
<b>C</b> Distance Across Closed Cam Arms	4 7/32	4 19/32	5 23/32	6 27/32
<b>D</b> Distance Across Open Cam Arms	7 25/32	8 5/32	9 29/32	11
<b>E</b> Hose Shank O.D.	1 9/16	2 1/16	3 3/32	4 3/32



Size	Minimum Hose O.D.	Maximum Hose O.D.	Stainless Steel Part #
3/4"	1 6/64"	1 22/64"	RE075-1370
1"	1 29/64"	1 35/64"	RE100-1620
1"	1 9/16"	1 11/16"	RE100-1770

Developed specifically for chemical transport hoses having **Crosslinked Polyethylene (XLPE) or Ultra High Molecular Weight Polyethylene (UHMW)** tubes. Swaged "Boss-Lock" provides you with a permanently attached Cam and Groove fitting when superior coupling retention is required.

In testing tank transport hoses from a wide variety of manufacturers, the Swaged "Boss-Lock" fitting proved itself to be **the clear winner in overall performance**. Fittings are also available on special order for other sizes or hose O.D.'s. *Consult the Factory for pricing and availability. Consult the Factory for pricing and availability of the special equipment required for installation.*

**SAFETY**  
**ALERT**



Adapter x Hose Shank with Ferrule

## Notched "Boss-Lock" Type E Adapters

Size	Minimum Hose O.D.	Maximum Hose O.D.	Stainless Steel Part #	Stainless Steel Notched Ferrule Part #
1 1/2"	1 15/16"	2 3/16"	RE150NO	GAS2334NO
1 1/2"	2 1/16"	2 11/32"	RE150NO	GAS2370NO
2"	2 15/32"	2 11/16"	RE200NO	GAS2709NO
2"	2 21/32"	2 27/32"	RE200NO	GAS2885NO
3"	3 15/32"	3 23/32"	RE300NO	GAS3760NO
3"	3 47/64"	3 27/32"	RE300NO	GAS3885NO
4"	4 5/8"	4 47/64"	RE400NO	GAS5010NO

The largest advantage of the Notched "Boss-Lock" design is that the coupling can be removed from a damaged hose by cutting away the ferrule, without necessarily damaging the fitting. **After inspection to determine its suitability for reuse**, it can be reinstalled into another hose by **using a new ferrule**.

The Notched "Boss-Lock" system allows you to better manage your inventories. You can stock one coupling and two ferrules, and thereby cover the same hose range with less inventory. **You must purchase a fitting and the matching ferrule to create an assembly.**

*Dixon stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances for safety reasons, do not use other manufacture's stems or ferrules with Dixon Cam and Groove or Holedall products.*

**SAFETY**  
**ALERT**



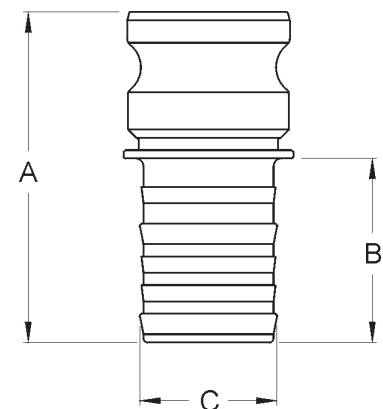
Adapter x Hose Shank



Ferrule

### STAINLESS STEEL DIMENSIONS

Size	1 1/2"	2"	3"	4"
<b>A</b> Overall Length	4 11/16	5 3/64	6 3/8	7 3/16
<b>B</b> Hose Shank Length	2 3/4	2 13/16	4	4 1/4
<b>C</b> Hose Shank O.D.	1 9/16	2 1/16	3 3/32	4 3/32



Contact the Factory for swage and crimp recommendations.

## Notched NOS Shank Adapters and Couplers

### Dixon "Andrews" Notched NOS Shank Cam and Groove Couplers



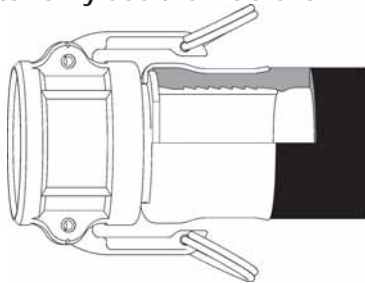
Coupler x Hose Shank



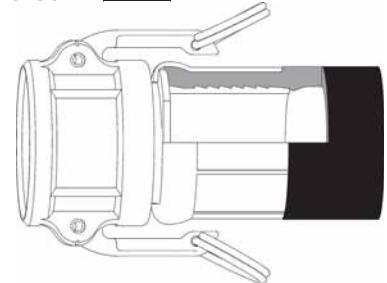
Ferrule

Size	Stainless Steel Part #	Fits Hose O.D.		304 Stainless Steel Ferrule Part #
		From:	To:	
1-1/2"	150CNOSSS	1 15/16"	2 3/16"	GAS2334NOS
1-1/2"	150CNOSSS	2 1/16"	2 11/32"	GAS2370NOS
2"	200CNOSSS	2 15/32"	2 11/16"	GAS2709NOS
2"	200CNOSSS	2 21/32"	2 27/32"	GAS2885NOS
3"	300CNOSSS	3 15/32"	3 23/32"	GAS3760NOS
3"	300CNOSSS	3 47/64"	3 27/32"	GAS3885NOS

Note: Only use the NOS shank *with* the NOS ferrules. **SAFETY**



Swaged Assembly



Crimped Assembly

### Notched NOS Shank Cam and Groove Adapters



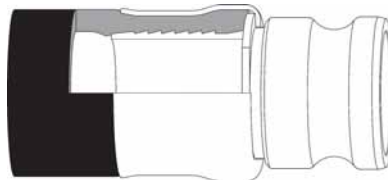
Adapter x Hose Shank



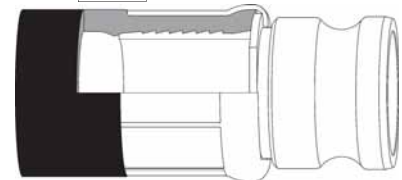
Ferrule

Size	Stainless Steel Part #	Fits Hose O.D.		304 Stainless Steel Ferrule Part #
		From:	To:	
1-1/2"	150ENOSSS	1 15/16"	2 3/16"	GAS2334NOS
1-1/2"	150ENOSSS	2 1/16"	2 11/32"	GAS2370NOS
2"	200ENOSSS	2 15/32"	2 11/16"	GAS2709NOS
2"	200ENOSSS	2 21/32"	2 27/32"	GAS2885NOS
3"	300ENOSSS	3 15/32"	3 23/32"	GAS3760NOS
3"	300ENOSSS	3 47/64"	3 27/32"	GAS3885NOS

Note: Only use the NOS shank *with* the NOS ferrules. **SAFETY ALERT**



Swaged Assembly



Crimped Assembly

### Swaged "Boss-Lock" Type C Cam and Groove Couplers



Coupler x Hose Shank



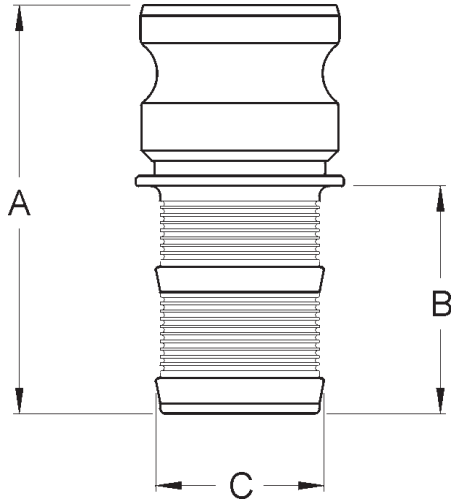
Ferrule

Size	Stainless Steel Part #	Minimum Hose O.D.	Maximum Hose O.D.	Stainless Steel Notched Ferrule Part #
1 1/2"	RC150BLNO	2 1/16"	2 11/32"	GAS2370NO
2"	RC200BLNO	2 15/32"	2 11/16"	GAS2709NO
2"	RC200BLNO	2 21/32"	2 27/32"	GAS2885NO
3"	RC300BLNO	3 15/32"	3 23/32"	GAS3760NO
3"	RC300BLNO	3 47/64"	3 27/32"	GAS3885NO
4"	RC400BLNO	4 5/8"	4 47/64"	GAS5010NO

The largest advantage of the Notched "Boss-Lock" design is that the coupling can be removed from a damaged hose by cutting away the ferrule, without necessarily damaging the fitting.

**After inspection to determine its suitability for reuse**, it can be reinstalled into another hose by **using a new ferrule**. **SAFETY ALERT**

The Notched "Boss-Lock" system allows you to better manage your inventories. You can stock one coupling and two ferrules, and thereby cover the same hose range with less inventory. **You must purchase a fitting and the matching ferrule to create an assembly.** **SAFETY ALERT**



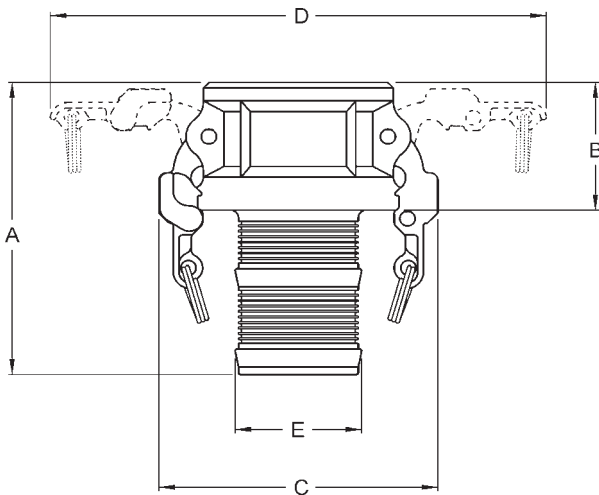
**DIMENSIONS**



*Type E Adapter x Special Hose Shank*

Size	1 1/2"	2"	3"
<b>A</b> Overall Length	5 1/64	5 13/32	6 3/4
<b>B</b> Hose Shank Length	2 3/4	2 13/16	4
<b>C</b> Hose Shank O.D.	1 9/16	2 1/16	3 3/32

Size	Stainless Steel Part #
1 1/2"	<b>RE150PF</b>
2"	<b>RE200PF</b>
3"	<b>RE300PF</b>



**DIMENSIONS**



*Type C Coupler x Special Hose Shank*

Size	1 1/2"	2"	3"
<b>A</b> Overall Length	5 7/16	5	7
<b>B</b> Coupler Length	2 3/32	2 3/16	2 5/16
<b>C</b> Distance Across Closed Cam Arms	4 7/32	4 19/32	5 23/32
<b>D</b> Distance Across Open Cam Arms	7 25/32	8 5/32	9 29/32
<b>E</b> Hose Shank O.D.	1 9/16	2 1/16	3 3/32





Size	Stainless Steel Part #
1 1/2"	<b>RC150EZPF</b>
2"	<b>RC200EZPF</b>
3"	<b>RC300EZPF</b>

The shank design on these fittings was developed specifically for chemical transport hoses having **Crosslinked Polyethylene (XLPE)** or **Ultra High Molecular Weight Polyethylene (UHMW)** tubes, where shank retention can be a problem when using conventional band clamps.

In testing tank transport hoses from a wide variety of manufacturers, the "Boss-Lock-PF" fitting showed significant improvement in hose coupling retention over the conventional Cam and Groove shank design.

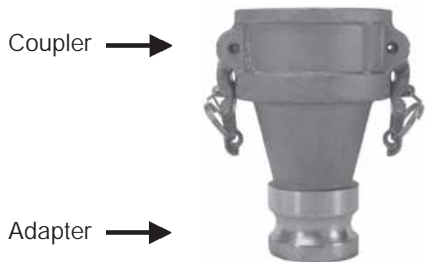
Other sizes are available on special order. *Consult the Factory for pricing and availability.* For best results we recommend the use of 3/4" wide band clamps found in the current Dixon Price List.

## Dixon / "Andrews" Reducing Couplers x Adapters

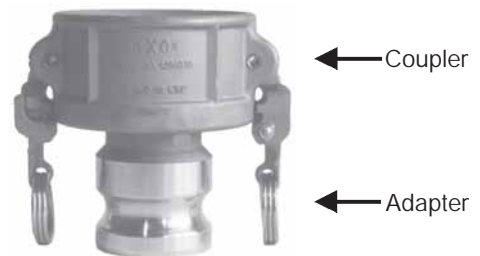
Coupler x Adapter	Aluminum Part #	Aluminum Hard Coat Part #	Brass Part #	Malleable Iron Part #	Stainless Steel Part #		
 <p>Coupler →</p>	1" x 1 1/2"	1015-DA-AL	----	----	1015-DA-SS		
	1 1/2" x 1"	1510-DA-AL	----	----	1510-DA-SS		
	1 1/2" x 2"	1520-DA-AL	----	----	1520-DA-SS		
	2" x 1"	2010-DA-AL	----	----	2010-DA-SS		
	2" x 1 1/2"	2015-DA-AL	----	----	2015-DA-SS		
	2" x 2 1/2"	2025-DA-AL	----	----	2025-DA-SS		
 <p>Adapter →</p>	2" x 3"	2030-DA-AL	----	----	2030-DA-SS		
	2" x 4"	2040-DA-AL	----	----	2040-DA-SS		
	2 1/2" x 2"	----	----	----	2520-DA-SS		
	2 1/2" x 3"	----	----	----	2530-DA-SS		
	3" x 1 1/2"	3015-DA-AL	----	----	3015-DA-SS		
	3" x 2"	3020-DA-AL	3020-DA-ALH	3020-DA-BR	3020-DA-MI	3020-DA-SS	
	3" x 2 1/2"	3025-DA-AL	----	----	3025-DA-SS		
	3" x 4"	3040-DA-AL	----	3040-DA-BR	3040-DA-SS		
	3" x 6"	3060-DA-AL	----	----	3060-DA-SS		
	4" x 2"	4020-DA-AL	----	----	4020-DA-SS		
 <p>Coupler →</p>	4" x 2 1/2"	4025-DA-AL	----	----	4025-DA-SS		
	4" x 3"	4030-DA-AL	4030-DA-ALH	4030-DA-BR	4030-DA-MI	4030-DA-SS	
	4" x 5"	4050-DA-AL	----	----	----		
	4" x 6"	4060-DA-AL	----	----	4060-DA-SS		
	5" x 3"	5030-DA-AL	----	----	5030-DA-SS		
	5" x 4"	5040-DA-AL	----	----	5040-DA-SS		
	 <p>Adapter →</p>	5" x 6"	5060-DA-AL	----	----	5060-DA-SS	
		6" x 3"	6030-DA-AL	----	----	6030-DA-SS	
		6" x 4"	6040-DA-AL	----	6040-DA-BR	6040-DA-MI	6040-DA-SS
		6" x 5"	6050-DA-AL	----	----	6050-DA-SS	
8" x 6"	8060-DA-AL*	----	----	----			

\* Two cam arm, "Andrews" design.

## "Boss-Lock" and "EZ Boss-Lock" Reducing Couplers x Adapters



**BOSS-LOCK**



**EZ BOSS-LOCK**

Coupler x Adapter	Aluminum Part #	Stainless Steel Part #
2" x 3"	ADA2030	RDA2030BL
2 1/2" x 2"	ADA2520	-----
2 1/2" x 3"	ADA2530	-----
3" x 2"	ADA3020	RDA3020BL
3" x 4"	ADA3040	RDA3040BL
4" x 2"	ADA4020	RDA4020BL
4" x 3"	ADA4030	RDA4030BL
6" x 4"	ADA6040	RDA6040BL
8" x 6"	ADA8060	-----

Coupler x Adapter	Aluminum Part #	Stainless Steel Part #
2" x 3"	ADA2030EZ	RDA2030EZ
3" x 2"	ADA3020EZ	RDA3020EZ
3" x 4"	ADA3040EZ	RDA3040EZ
4" x 2"	ADA4020EZ	RDA4020EZ
4" x 3"	ADA4030EZ	RDA4030EZ
6" x 4"	ADA6040EZ	RDA6040EZ

All measurements in this brochure are for reference only and are subject to change. Where dimensions are critical, please consult the factory. For products not shown or special application questions, please consult the factory.



**Dixon Valve & Coupling Company**  
**800 High Street**  
**Chestertown, MD 21620**



The Right Connection™

# CBC-Lok® Tube Fittings

Introducing a tube fitting line that is fully interchangeable with Swagelok® and Parker A-Lok®

## Applications

- high pressure
- high temperature
- nitrogen
- helium
- flammable gases
- hydraulic gases
- corrosive media

## Safety Guidelines

- Never connect, disconnect or remake a fitting with pressure in the system.
- Make sure all fittings are properly installed.
- It is not recommended to go beyond the pressure rating of the tubing. Elongation could occur in the tubing, shrinking the wall thickness and cause potential harm.
- For proper sealing it is recommended that the tubing and fittings be of like material.
- Always use proper thread lubricant and sealants on tapered pipe threads.
- Never bleed a system by loosening a fitting.

### Suggested Working Pressures For Tubing

Tube OD	Tube Wall	PSI
1/4"	0.28	<b>4000</b>
	0.35	<b>5100</b>
	0.49	<b>7500</b>
	0.65	<b>10100</b>
3/8"	0.35	<b>3300</b>
	0.49	<b>4800</b>
	0.65	<b>6600</b>
1/2"	0.49	<b>3800</b>
	0.65	<b>5100</b>
	0.83	<b>6700</b>

## Installation

CBC-Lok® fittings come completely assembled.

1. Cut tubing squarely and clean tube end thoroughly to remove burrs.
2. Insert the tubing into the assembly making sure the tubing seats firm against the shoulder of the body and the nut is finger tight.
3. Tighten the nut with a wrench 1¼ turns, while holding the body with a second wrench.

## Features

- double collet (ferrule) swaging action
- two positive seal points
- Ty-Cor™ process applied to rear collet (ferrule)
- ASTM material construction
- material: 316 stainless steel
- temperature ratings: **-325°F to 1200°F** (-198°C to 648°C)
- pressure ratings: see charts below, *ratings listed are for reference only.*

### Suggested Working Pressures For Pipe Threads

Tube OD	Pipe Thread	PSI
1/4"	male	<b>7500</b>
	female	<b>6100</b>
3/8"	male	<b>7250</b>
	female	<b>5000</b>
1/2"	male	<b>6900</b>
	female	<b>4700</b>

## 316 Stainless Steel Male Connectors

Tube OD	Male NPT	Interchanges	Part #	Pkg Qty
1/4"	1/8"-27	400-1-2	<b>4-DMC-2</b>	10
	1/4"-18	400-1-4	<b>4-DMC-4</b>	10
	3/8"-18	400-1-6	<b>4-DMC-6</b>	10
	1/2"-14	400-1-8	<b>4-DMC-8</b>	10
3/8"	1/4"-18	600-1-4	<b>6-DMC-4</b>	10
	3/8"-18	600-1-6	<b>6-DMC-6</b>	10
	1/2"-14	600-1-8	<b>6-DMC-8</b>	10
1/2"	1/4"-18	810-1-4	<b>8-DMC-4</b>	10
	3/8"-18	810-1-6	<b>8-DMC-6</b>	10
	1/2"-14	810-1-8	<b>8-DMC-8</b>	10



## 316 Stainless Steel Female Connectors

Tube OD	Female NPT	Interchanges	Part #	Pkg Qty
1/4"	1/4"-18	400-7-4	<b>4-DFC-4</b>	10
3/8"	1/4"-18	600-7-4	<b>6-DFC-4</b>	10
1/2"	1/2"-14	810-7-8	<b>8-DFC-8</b>	10



## 316 Stainless Steel Male Elbows

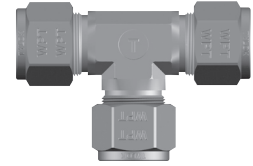
Tube OD	Male NPT	Interchanges	Part #	Pkg Qty
1/4"	1/8"-27	400-2-2	<b>4-DME-2</b>	10
	1/4"-18	400-2-4	<b>4-DME-4</b>	10
3/8"	1/4"-18	600-2-4	<b>6-DME-4</b>	10
	3/8"-18	600-2-6	<b>6-DME-6</b>	10
1/2"	1/2"-14	810-2-8	<b>8-DME-8</b>	10





### 316 Stainless Steel Union Tees

Tube OD	Interchanges	Part #	Pkg Qty
1/4"	400-3	<b>4-DTTT-4</b>	10
3/8"	600-3	<b>6-DTTT-6</b>	10
1/2"	810-3	<b>8-DTTT-8</b>	10



### 316 Stainless Steel Unions

Tube OD	Interchanges	Part #	Pkg Qty
1/4"	400-6	<b>4-DU</b>	10
3/8"	600-6	<b>6-DU</b>	10
1/2"	810-6	<b>8-DU</b>	10



### 316 Stainless Steel Bulkhead Unions

Tube OD	Interchanges	Part #	Pkg Qty
1/4"	400-61	<b>4-DBHU-4</b>	10
3/8"	600-61	<b>6-DBHU-6</b>	10
1/2"	810-61	<b>8-DBHU-8</b>	10



### 316 Stainless Steel Caps

Tube OD	Interchanges	Part #	Pkg Qty
1/4"	400-C	<b>4-DCAP</b>	10
3/8"	600-C	<b>6-DCAP</b>	10
1/2"	810-C	<b>8-DCAP</b>	10



### 316 Stainless Steel Plugs

Tube OD	Interchanges	Part #	Pkg Qty
1/4"	400-P	<b>4-DF PLUG</b>	10
3/8"	600-P	<b>6-DF PLUG</b>	10
1/2"	810-P	<b>8-DF PLUG</b>	10



### 316 Stainless Steel Front Collets

Tube OD	Interchanges	Part #	Pkg Qty
1/4"	403-1	<b>DFC-4</b>	10
3/8"	603-1	<b>DFC-6</b>	10
1/2"	813-1	<b>DFC-8</b>	10



### 316 Stainless Steel Rear Collets

Tube OD	Interchanges	Part #	Pkg Qty
1/4"	404-1	<b>DRC-4</b>	10
3/8"	604-1	<b>DRC-6</b>	10
1/2"	814-1	<b>DRC-8</b>	10



### 316 Stainless Steel Nuts

Tube OD	Interchanges	Part #	Pkg Qty
1/4"	402-1	<b>DN-4</b>	10
3/8"	602-1	<b>DN-6</b>	10
1/2"	812-1	<b>DN-8</b>	10



**Dixon Valve & Coupling Co.**  
 800 High Street • Chestertown, MD 21620  
 ph 800.355.1991 • fx 800.283.4966  
[www.dixonvalve.com](http://www.dixonvalve.com)



# Coupling Equipment

*Dixon offers a variety of equipment to assemble fittings to hose.*

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## Hose Crimpers

- Hose crimper provides "big tool" crimping advantages at a fraction of the cost
- Rugged, portable and easy to use
- Crimps standard brass or aluminum ferrules
- Available in two styles to accommodate a wider hose OD range (*model# 855* shown)




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## Ferrule Crimpers

- Crimps brass ferrules
- Available in two styles, manually or air operated (*model# 5111A* shown - [manual style])




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## Pinch-On Clamp Tools

- Pinches clamps
- Available in three styles, standard, long handle and heavy duty (*model# 1098* shown - [standard])




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## Band Clamp Tools

- Secures band clamps
- Mallet and cutter accessories available
- Available in several styles to suit your needs; portable, intermediate, hand held, jack type and screw action (*model# F1* shown - [hand held])




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## Coupling Inserters

- Inserts hose shank into hose
- Coupling Lubricant is also available
- Available with a hand pump or air/hydraulic pump (*model# C196* shown - [hand pump])







## Hydraulic Crimper

- Designed to crimp permanent attached Holedall couplings up to 4"
- Can be operated by one person
- Capable of crimping over 1,000 parts per hour (model# **CM4002203PAC** shown)

## Holedall Coupling Machines



- Designed to swage or internally expand permanent attached Holedall couplings
- Can be operated by one person
- Available in several designs to accommodate a wider range of coupling attachment needs (model# **25TONRAM** shown).

## Hand Hydrotest Pump



- Designed for use in testing pipe lines, pressure tanks and pressure vessels (model# **HHTP** shown)

## Hydrostatic Test Pumps



- Safe cost effective way of testing hose prior to service.
- Available in a pneumatic or electric design (model# **PTP** shown - [pneumatic])

## Hose Room Accessories



- A variety of products are available to aid in hose assembly
- Soft hose mallet, hose knife, diameter tape and tubing cutters (model# **DRK15** shown - [hose knife])

## Hose Coupling Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the **Rubber Manufacturers Association** recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations.
- Call Dixon (1-800-355-1991) for advice on couplings, retention devices, and accessories for your application.



### Dixon Valve & Coupling Co.

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# Dixon Crimp Fittings



*The Right Connection™*

## Grooved Style External Crimp Ferrules for Cam and Groove



### Features:

- Designed to be used on Dixon grooved hose shanks
- Turnover edge is precut for easy ferrule removal
- Streamlined and safe final assembly
- For crimp specifications please refer to the appropriate Dixon Die/Crimp Chart

### Accommodates Hose I.D. Sizes:

- 1½" and 2" features .063" ferrule wall thickness
- 3" and 4" features .125" ferrule wall thickness

### Configurations:

- male adapter x hose shank
- female coupler x hose shank (pictured)

### Coupling Material:

- aluminum

### Ferrule Material:

- carbon steel

---

## Notched Style External Crimp Ferrules for Cam and Groove



### Features:

- For crimp specifications please refer to the appropriate Dixon Die/Crimp Chart

### Accommodates Hose I.D. Sizes:

- 1½", 2", 3", 4"

### Configurations:

- male adapter x notched standard shank (NO)
- female coupler x notched standard shank (NO)
- male adapter x notched short shank (NOS)
- female coupler x notched short shank (NOS)

### Coupling Material:

- stainless steel

### Ferrule Material:

- stainless steel

---

## 3500 Steel Nipples



### Features:

- a low profile and streamlined appearance
- working pressure: 600 PSI
- For air and water service only

### Accommodates Hose I.D. Sizes:

- ½", ¾", 1"

### Configurations:

- male NPT x hose shank

### Coupling Material:

- zinc plated steel

### Ferrule Material:

- carbon steel

## Dixon Air King Couplings

**Features:**

- working pressure: 150 PSI
- For air and water service only

**Accommodates Hose I.D. Sizes:**

- ½", ¾", 1"

**Configurations:**

- universal head x hose shank

**Coupling Material:**

- iron, stainless steel

**Ferrule Material:**

- plated steel



## Surelock Quick Acting Couplings

**Features:**

- working pressure: 500 PSI
- For air and water service only

**Accommodates Hose I.D. Sizes:**

- ½", ¾", 1", 1½", 2"

**Configurations:**

- surelock head x hose shank

**Coupling Material:**

- iron

**Ferrule Material:**

- plated steel



## Dix-Lock Quick Acting Couplings

**Features:**

- working pressure: 300 PSI

**Accommodates Hose I.D. Sizes:**

- ½" and ¾"

**Configurations:**

- female head x hose shank
- male head x hose shank
- male locking head x hose shank

**Coupling Material:**

- plated steel, brass, stainless steel

**Ferrule Material:**

- plated steel



## Dual-Lock Quick Acting Couplings

**Features:**

- working pressure: 300 PSI

**Accommodates Hose I.D. Sizes:**

- ½" and ¾"

**Configurations:**

- locking head x hose shank

**Coupling Material:**

- yellow zinc coated steel

**Ferrule Material:**

- plated steel



## Light Duty Ferrules



### Features:

- light-weight and medium-weight ferrules for air
- medium-weight ferrules for fluids

### Ferrule I.D. sizes available:

- 0.478" - 1.500"

### Ferrule Material:

- brass, stainless steel

---

## Light Duty Crimping Equipment



*work bench style*

*manually operated  
tools pictured*



*portable style*

### Features:

- crimps light-weight and medium-weight ferrules to hose and tubing
- crimping dies sold separately

### Accommodates Hose I.D. Sizes:

- ¼", ½", ¾", 1"

### Configurations:

- manually operated portable tools
- manually operated tool for work bench installation
- air operated tool for work bench installation

---

## HOSE COUPLING SAFETY

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, [www.osha.gov](http://www.osha.gov).)
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.

The charts supplied are only a guide. They will not apply to every coupling situation. In some instances alternative dies and crimping dimensions must be employed to ensure safety. Experience has shown that variances in the construction of similar hoses and couplings may cause some assemblies to react differently when crimped. It is not uncommon to find hose with an outer diameter that fluctuates from one end to the other or from production lot to production lot. These inconsistencies coupled with the inherent differences between textile or wire braid, hard or soft wall, the presence or absence of an internal spiral wire and the differences in hose coverings make it difficult to establish hard and fast rules. Therefore, its imperative that hose dimensions are accurately measured, assemblies are tested, and documentation is maintained.

**Crimped Dix-Lock and Dual-Lock**

Hose I.D.	Part #	Hose O.D.		Crimp Diameter (±0.005)	Crimp Length		% Reduction
		Fractional	Decimal		QM/QB	PHL	
1/2"	<b>QM3WF</b>	54/64	0.844	0.925	1-1/8	1-1/4	18.9
	<b>QB3WF</b>	55/64	0.859	0.940	1-1/8	1-1/4	18.1
	<b>QM22WF</b>	56/64	0.875	0.950	1-1/8	1-1/4	18.9
	<b>QB22WF</b>	57/64	0.891	0.965	1-1/8	1-1/4	18.4
	<b>QM33WF</b>	58/64	0.906	0.975	1-1/8	1-1/4	19.0
	<b>QB33WF</b>	59/64	0.922	0.990	1-1/8	1-1/4	18.5
		60/64	0.938	1.005	1-1/8	1-1/4	18.0
		61/64	0.953	1.015	1-1/8	1-1/4	18.5
	<b>PHL8WF</b>	62/64	0.969	1.030	1-1/8	1-1/4	18.1
		63/64	0.984	1.040	1-1/8	1-1/4	18.6
		1	1.000	1.055	1-1/8	1-1/4	18.2
		1-1/64	1.016	1.065	1-1/8	1-1/4	18.8
		1-2/64	1.031	1.080	1-1/8	1-1/4	18.3
3/4"	<b>QM4WF</b>	1-10/64	1.156	1.220	1-1/4		18.5
	<b>QB4WF</b>	1-11/64	1.171	1.235	1-1/4		18.0
	<b>QM23WF</b>	1-12/64	1.187	1.244	1-1/4		18.7
	<b>QB23WF</b>	1-13/64	1.203	1.260	1-1/4		18.1
		1-14/64	1.218	1.270	1-1/4		18.8
	<b>QM44WF</b>	1-15/64	1.234	1.285	1-1/4		18.2
	<b>QB44WF</b>	1-16/64	1.250	1.295	1-1/4		18.8
		1-17/64	1.265	1.310	1-1/4		18.4
	<b>PHL12WF</b>	1-18/64	1.281	1.320	1-1/4		18.8
		1-19/64	1.296	1.335	1-1/4		18.5
		1-20/64	1.312	1.345	1-1/4		19.0
		1-21/64	1.328	1.360	1-1/4		18.5
		1-22/64	1.343	1.370	1-1/4		19.0

**Crimped 3500 Nipples**

Hose I.D.	Part #	Hose O.D.		Crimp Diameter (±0.005)	Crimp Length	% Reduction
		Fractional	Decimal			
1/2"	<b>3512WF</b>	54/64	0.844	0.906	1-1/4	21.1
		55/64	0.859	0.906	1-1/4	24.5
		56/64	0.875	0.938	1-1/4	19.3
		57/64	0.891	0.938	1-1/4	22.6
		58/64	0.906	0.969	1-1/4	17.8
3/4"	<b>3514WF</b>	1-10/64	1.156	1.218	1-7/16	17.8
		1-11/64	1.171	1.218	1-7/16	20.7
		1-12/64	1.187	1.218	1-7/16	23.6
		1-13/64	1.203	1.250	1-7/16	19.4
		1-14/64	1.218	1.250	1-7/16	22
1"	<b>3518WF</b>	1-30/64	1.468	1.500	1-15/16	23
		1-31/64	1.484	1.531	1-15/16	19
		1-32/64	1.500	1.531	1-15-16	21.6
		1-33/64	1.515	1.563	1-15/16	17.9
		1-34/64	1.531	1.563	1-15/16	20.3

## Crimped Air King Couplings

Hose I.D.	Part #	Hose O.D.		Crimp Diameter (±0.005)	Crimp Length	% Reduction	
		Fractional	Decimal				
1/2"	<b>AM1WF</b>	54/64	0.843	0.906	1-1/4	18.3	
		55/64	0.859	0.937	1-1/4	13.2	
		56/64	0.875	0.937	1-1/4	16.9	
		57/64	0.890	0.968	1-1/4	12.1	
		58/64	0.906	0.968	1-1/4	15.5	
		59/64	0.921	1.000	1-1/4	11.1	
		60/64	0.937	1.000	1-1/4	14.4	
		61/64	0.953	1.000	1-1/4	17.2	
		62/64	0.968	1.031	1-1/4	13.4	
		63/64	0.984	1.031	1-1/4	16.1	
		1	1.000	1.062	1-1/4	12.7	
		1-1/64	1.015	1.062	1-1/4	15.3	
		1-2/64	1.031	1.093	1-1/4	12.0	
		3/4"	<b>AM6WF RAM6WF</b>	1-4/64	1.062	1.156	1-1/4
1-5/64	1.078			1.156	1-1/4	17.3	
1-6/64	1.093			1.187	1-1/4	11.9	
1-7/64	1.109			1.187	1-1/4	15.8	
1-8/64	1.125			1.218	1-1/4	11.2	
1-9/64	1.140			1.218	1-1/4	14.6	
1-10/64	1.156			1.218	1-1/4	17.5	
1-11/64	1.171			1.250	1-1/4	13.0	
1-12/64	1.187			1.250	1-1/4	16.2	
1-13/64	1.203			1.281	1-1/4	12.3	
1-14/64	1.218			1.281	1-1/4	15.1	
1-15/64	1.234			1.312	1-1/4	11.5	
1-16/64	1.250			1.312	1-1/4	14.4	
1-17/64	1.265			1.312	1-1/4	16.9	
1-18/64	1.281			1.343	1-1/4	13.5	
1-19/64	1.296			1.343	1-1/4	15.9	
1-20/64	1.312			1.375	1-1/4	12.6	
1-21/64	1.328			1.375	1-1/4	15.0	
1-22/64	1.343			1.406	1-1/4	12.1	
1"	<b>AM11WF-1</b>			1-18/64	1.281	1.375	1-1/2
		1-19/64	1.296	1.375	1-1/2	20.5	
		1-20/64	1.312	1.406	1-1/2	15.0	
		1-21/64	1.328	1.406	1-1/2	18.6	
		1-22/64	1.343	1.437	1-1/2	13.7	
		1-23/64	1.359	1.437	1-1/2	17.5	
		1-24/64	1.375	1.468	1-1/2	12.8	
		1-25/64	1.390	1.468	1-1/2	16.1	
		1-26/64	1.406	1.500	1-1/2	11.5	
		1-27/64	1.421	1.500	1-1/2	14.7	
		1-28/64	1.437	1.500	1-1/2	17.6	
		1-29/64	1.453	1.531	1-1/2	13.9	
		<b>AM11WF-1 AM11WF</b>	1-30/64	1.468	1.531	1-1/2	16.8
			1-31/64	1.484	1.562	1-1/2	12.8
	1-32/64		1.500	1.562	1-1/2	15.4	
	1-33/64		1.515	1.593	1-1/2	12.0	
	1-34/64		1.531	1.593	1-1/2	14.7	
	<b>AM11WF</b>	1-35/64	1.546	1.625	1-1/2	11.1	
		1-36/64	1.562	1.625	1-1/2	13.7	
		1-37/64	1.578	1.625	1-1/2	15.9	
		1-38/64	1.593	1.656	1-1/2	12.9	
		1-39/64	1.609	1.656	1-1/2	15.1	
		1-40/64	1.625	1.687	1-1/2	12.4	
		1-41/64	1.640	1.687	1-1/2	14.5	
		1-42/64	1.656	1.718	1-1/2	11.8	
		1-43/64	1.671	1.718	1-1/2	14.0	
		1-44/64	1.687	1.750	1-1/2	11.3	
		1-45/64	1.703	1.750	1-1/2	13.3	
		1-46/64	1.718	1.750	1-1/2	15.1	



## Crimped Surelock Couplings

Hose I.D.	Part #	Hose O.D.		Crimp Diameter (±0.005)	Crimp Length	% Reduction
		Fractional	Decimal			
½"	<b>SL050CR</b>	54/64	0.843	0.969	1-1/4	16.6
		55/64	0.859	0.969	1-1/4	20.2
		56/64	0.875	0.969	1-1/4	23.5
		57/64	0.890	1.000	1-1/4	18.6
		58/64	0.906	1.000	1-1/4	21.7
		59/64	0.921	1.031	1-1/4	17.2
		60/64	0.937	1.031	1-1/4	20.2
		61/64	0.953	1.032	1-1/4	23.0
		62/64	0.968	1.063	1-1/4	18.8
		63/64	0.984	1.063	1-1/4	21.5
		1	1.000	1.094	1-1/4	17.7
		1-1/64	1.015	1.094	1-1/4	20.2
		1-2/64	1.031	1.094	1-1/4	22.5
		¾"	<b>SL075CR</b>	1-4/64	1.062	1.156
1-5/64	1.078			1.156	1-1/4	22.7
1-6/64	1.093			1.188	1-1/4	17.1
1-7/64	1.109			1.188	1-1/4	20.7
1-8/64	1.125			1.188	1-1/4	24.0
1-9/64	1.140			1.219	1-1/4	19.0
1-10/64	1.156			1.219	1-1/4	22.2
1-11/64	1.171			1.250	1-1/4	17.6
1-12/64	1.187			1.250	1-1/4	20.6
1-13/64	1.203			1.250	1-1/4	23.3
1-14/64	1.218			1.281	1-1/4	19.2
1-15/64	1.234			1.281	1-1/4	21.8
1-16/64	1.250			1.313	1-1/4	18.0
1-17/64	1.265			1.313	1-1/4	20.5
1-18/64	1.281			1.313	1-1/4	22.8
1-19/64	1.296			1.344	1-1/4	19.3
1-20/64	1.312			1.344	1-1/4	21.6
1-21/64	1.328			1.375	1-1/4	18.3
1-22/64	1.343			1.375	1-1/4	20.4
1"	<b>SL100CR</b>			1-30/64	1.468	1.500
		1-31/64	1.484	1.531	1-1/2	18.0
		1-32/64	1.500	1.531	1-1/2	20.6
		1-33/64	1.515	1.531	1-1/2	23.0
		1-34/64	1.531	1.563	1-1/2	19.3
		1-35/64	1.546	1.563	1-1/2	21.7
		1-36/64	1.562	1.594	1-1/2	18.3
		1-37/64	1.578	1.594	1-1/2	20.5
		1-38/64	1.593	1.625	1-1/2	17.3
		1-39/64	1.609	1.625	1-1/2	19.4
		1-40/64	1.625	1.625	1-1/2	21.4
		1-41/64	1.640	1.656	1-1/2	18.5
		1-42/64	1.656	1.656	1-1/2	20.4
		1-43/64	1.671	1.688	1-1/2	17.6
		1-44/64	1.687	1.688	1-1/2	19.5
		1-45/64	1.703	1.688	1-1/2	21.3
1-46/64	1.718	1.719	1-1/2	18.6		
1½"	<b>SL150CR</b>	2-1/64	2.015	2.094	2-7/8	19.9
		2-2/64	2.031	2.094	2-7/8	22.3
		2-3/64	2.046	2.125	2-7/8	18.8
		2-4/64	2.062	2.125	2-7/8	21.1
		2-5/64	2.078	2.125	2-7/8	23.2
		2-6/64	2.093	2.156	2-7/8	20.0
		2-7/64	2.109	2.156	2-7/8	22.0
		2-8/64	2.125	2.188	2-7/8	19.0
2"	<b>SL200CR</b>	2-41/64	2.640	2.718	3	20.1
		2-42/64	2.656	2.750	3	17.3
		2-43/64	2.671	2.750	3	19.2
		2-44/64	2.687	2.750	3	21.0
		2-45/64	2.703	2.781	3	18.3
		2-46/64	2.718	2.781	3	20.1
		2-47/64	2.734	2.813	3	17.6
		2-48/64	2.750	2.813	3	19.3

Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for fire protection, food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

**Dixon Valve & Coupling Company**

800 High Street, Chestertown, MD 21620

Customer Service: 877.963.4966

Fax: 800.283.4966

**[www.dixonvalve.com](http://www.dixonvalve.com)**

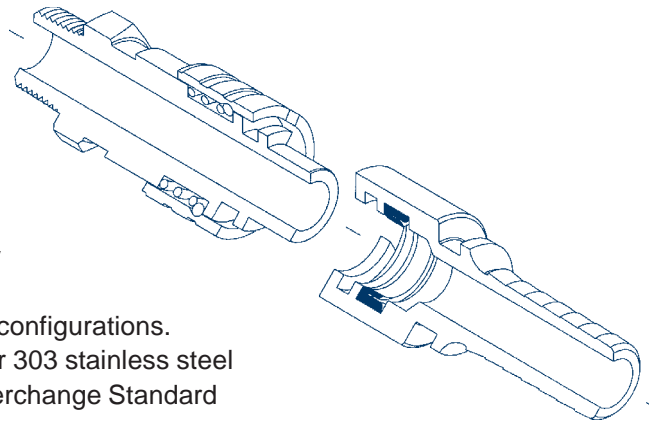
# Dix-Lock



*The Right Connection™*

## Features

- Convenient Push-Twist and Click connection
- Dual-guide sleeve tabs ensure smooth action
- Corrosion resistant componentry improves performance
- Highly versatile selection of end configurations.
- Available in plated steel, brass or 303 stainless steel
- Conforms to the MIL-C-3486 Interchange Standard



## Performance Specifications

Body Size	Working Pressure		Failure Pressure		Vacuum Data	Flow Capacity $\Delta p=6\text{PSI}$ (90PSI @ 68°F)	Locking Mechanism
	PSI	bar	PSI	bar			
1/2"	300	21	3000	207	Not Recommended	125 SCFM	latch tabs

## Material Configuration

Body Size	Structural Components	Seals	Operating Components
Couplers	Standard	Zinc plated steel body	Nitrile (Buna-N)
	Optional	Brass and 303 stainless steel	
Nipples	Standard	Zinc plated steel body & sleeve	Phosphor bronze retaining ring & spring
	Optional	Brass and 303 stainless steel	Steel flanged sleeve

## Dimensional Specifications

Dimensional Reference Graphic (inches)	Body Size	End Size	Overall Length (A)				O.D. (B)	Hex Size (if applicable)
			Female NPTF	Female BSPP	Male NPTF	Collar Barb		
	1/2"	3/8"	1.63	-	1.77	2.98	1.54	1-3/8"
	1/2"	1/2"	1.63	-	1.77	3.37	1.54	1-3/8"
	1/2"	3/4"	1.63	-	1.77	3.37	1.54	1-3/8"
	1/2"	3/8"	2.73	-	3.65	4.36	1.40	1-1/8"
	1/2"	1/2"	2.73	-	3.65	4.63	1.40	1-1/8"
	1/2"	3/4"	3.34	-	3.74	4.77	1.40	1-3/8"

### The Importance of "Whip Hose"

The constant vibration created by air tools, like air drills and pavement breakers, is destructive to air hose couplings, especially the quick-acting type. To provide a safer working environment, connect one end of a 3' to 10' length of air hose to the tool using Dixon's "No. 3500" Steel Nipple. This nipple is designed to specifically handle vibration applications. Connect the other end of hose to the air supply using the standard quick-acting coupling. The "Whip Hose" should remain permanently connected to the tool.

## SAFETY

Dixon's couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling, and retention devices; and the proper application of the coupling to the hose are of utmost importance. Users must consider the size, temperature, application, media, pressure, and hose and coupling manufacturer's recommendations when selecting the proper hose assembly components. Dixon recommends that all hose assemblies be tested in accordance with the Rubber Manufacturers Association's recommendations and be inspected regularly (before each use), to ensure that they are not damaged or have become loose.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices, such as safety clips and "King Cable" safety cables, are recommended. If any problem is detected, couplings must be removed from service immediately.


Dixon is always available for consultation concerning the couplings and accessories we sell. We will suggest the appropriate fittings, test those applications when necessary, and train distributors in assembly procedures. We strongly recommend that distributors and end users make use of these services.

Dixon can be contacted at 1-800-355-1991.



## "Dix-Lock" Quick Acting Couplings

- It takes a minimum of 5 PSI to get a positive seal
- "Dix-Lock" is rated to **300 PSI**

Body Size	Hose Shank Size	Material	Part #	Pkg Qty	Male Head x Hose End
1/2"	3/8"	plated steel	<b>QM2</b>	25	
1/2"	1/2"	plated steel	<b>QM3</b>	25	
1/2"	3/4"	plated steel	<b>QM4</b>	25	
1/2"	3/8"	brass	<b>QB2</b>	-	
1/2"	1/2"	brass	<b>QB3</b>	-	
1/2"	3/4"	brass	<b>QB4</b>	-	
1/2"	3/4"	stainless steel	<b>QSS4</b>	-	

Body Size	Hose Shank Size	Material	Part #	Pkg Qty	Female Head x Hose End
1/2"	3/8"	plated steel	<b>QM21</b>	25	
1/2"	1/2"	plated steel	<b>QM22</b>	25	
1/2"	3/4"	plated steel	<b>QM23</b>	25	
1/2"	3/8"	brass	<b>QB21</b>	-	
1/2"	1/2"	brass	<b>QB22</b>	-	
1/2"	3/4"	brass	<b>QB23</b>	-	
1/2"	3/4"	stainless steel	<b>QSS23</b>	-	

Body Size	NPT Thread Size	Material	Part #	Pkg Qty	Male Head x Male NPT End
1/2"	3/8"	plated steel	<b>QM41</b>	25	
1/2"	1/2"	plated steel	<b>QM42</b>	25	
1/2"	3/4"	plated steel	<b>QM43</b>	25	
1/2"	3/8"	brass	<b>QB41</b>	-	
1/2"	1/2"	brass	<b>QB42</b>	-	
1/2"	3/4"	brass	<b>QB43</b>	-	
1/2"	3/4"	stainless steel	<b>QSS43</b>	-	

Body Size	NPT Thread Size	Material	Part #	Pkg Qty	Female Head x Male NPT End
1/2"	3/8"	plated steel	<b>QM61</b>	25	
1/2"	1/2"	plated steel	<b>QM62</b>	25	
1/2"	3/4"	plated steel	<b>QM63</b>	25	
1/2"	3/8"	brass	<b>QB61</b>	-	
1/2"	1/2"	brass	<b>QB62</b>	-	
1/2"	3/4"	brass	<b>QB63</b>	-	
1/2"	3/4"	stainless steel	<b>QSS63</b>	-	

Optional Pkg./Box Quantity Shown


## "Dix-Lock" Quick Acting Couplings


- It takes a minimum of 5 PSI to get a positive seal
- "Dix-Lock" is rated to **300 PSI**

Male Head x Female NPT End	Body Size	NPT Thread Size	Material	Part #	Pkg Qty
	1/2"	3/8"	plated steel	<b>QM81</b>	25
	1/2"	1/2"	plated steel	<b>QM82</b>	25
	1/2"	3/4"	plated steel	<b>QM83</b>	25
	1/2"	3/8"	brass	<b>QB81</b>	-
	1/2"	1/2"	brass	<b>QB82</b>	-
	1/2"	3/4"	brass	<b>QB83</b>	-
	1/2"	3/4"	stainless steel	<b>QSS83</b>	-

Female Head x Female NPT End	Body Size	NPT Thread Size	Material	Part #	Pkg Qty
	1/2"	3/8"	plated steel	<b>QM101</b>	25
	1/2"	1/2"	plated steel	<b>QM102</b>	25
	1/2"	3/4"	plated steel	<b>QM103</b>	25
	1/2"	3/8"	brass	<b>QB101</b>	-
	1/2"	1/2"	brass	<b>QB102</b>	-
	1/2"	3/4"	brass	<b>QB103</b>	-
	1/2"	3/4"	stainless steel	<b>QSS103</b>	-

Optional Pkg./Box Quantity Shown

Male Locking Head x Hose Shank	Body Size	Hose Shank Size	Material	Part #
	1/2"	1/2"	plated steel	<b>QM33</b>
	1/2"	3/4"	plated steel	<b>QM44</b>
	1/2"	1/2"	brass	<b>QB33</b>
	1/2"	3/4"	brass	<b>QB44</b>

Male Locking Head x Male NPT	Body Size	NPT Thread Size	Material	Part #
	1/2"	1/2"	plated steel	<b>QM66</b>
	1/2"	3/4"	plated steel	<b>QM88</b>
	1/2"	1/2"	brass	<b>QB66</b>
	1/2"	3/4"	brass	<b>QB88</b>

### POSITIVE SAFETY LOCK

With locking nut in place sleeve cannot be moved to open coupling.




Not for use with "Air King" or "Boss" clamps.

## "Dix-Lock" Quick-Acting Couplings with Ferrules

- "Dix-Lock" Quick-acting Couplings with ferrules can be crimped or swaged-on
- Rated to **300 PSI** working pressure
- Plated steel ferrule
- For crimp or swage diameter recommendations see page 6

Body Size	Hose ID	O.D. Range		Material	Part #	Male Head
		From:	To:			
1/2"	1/2"	27/32"	1-1/32"	plated steel	<b>QM3WF</b>	
1/2"	3/4"	1-5/32"	1-11/32"	plated steel	<b>QM4WF</b>	
1/2"	1/2"	27/32"	1-1/32"	brass	<b>QB3WF</b>	
1/2"	3/4"	1-5/32"	1-11/32"	brass	<b>QB4WF</b>	

Body Size	Hose ID	O.D. Range		Material	Part #	Female Head
		From:	To:			
1/2"	1/2"	27/32"	1-1/32"	plated steel	<b>QM22WF</b>	
1/2"	3/4"	1-5/32"	1-11/32"	plated steel	<b>QM23WF</b>	
1/2"	1/2"	27/32"	1-1/32"	brass	<b>QB22WF</b>	
1/2"	3/4"	1-5/32"	1-11/32"	brass	<b>QB23WF</b>	

Body Size	Hose ID	O.D. Range		Material	Part #	Male Locking Head
		From:	To:			
1/2"	1/2"	27/32"	1-1/32"	plated steel	<b>QM33WF</b>	
1/2"	3/4"	1-5/32"	1-11/32"	plated steel	<b>QM44WF</b>	
1/2"	1/2"	27/32"	1-1/32"	brass	<b>QB33WF</b>	
1/2"	3/4"	1-5/32"	1-11/32"	brass	<b>QB44WF</b>	

Note: Also available in stainless steel, contact the factory for further information.

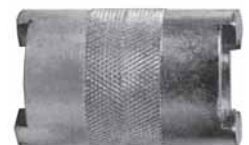
### "Dix-Lock" Gaskets (Buna-N)

Part #
<b>QBM2</b>



### "Dix-Lock" Converter

Part #	Material	Pkg Qty
<b>QMO</b>	Steel	25





## "KING" Safety Cables

**SAFETY ALERT**

When hose, couplings or clamps fail, or there is an accidental separation of the assembly, King Safety Cables minimize damage to equipment and injuries to operators. KING SAFETY CABLE reaches across the hose fittings to provide standby safety for hose. Spring-loaded loops in the cable ends open easily to pass over the couplings for a firm grip on the hose. Thoroughly tested with years of service. A positive safeguard for air hose connections - helps you meet today's safety standards. *KING SAFETY CABLE must be installed in the extended position (no slack).*

**Features:**

- Hose-to-hose or hose-to-rigid outlet
- King Cable is the low cost answer to eliminate injuries caused by broken air hose connections
- Highly resistant to rust and corrosion
- No tools needed - Easy to install and remove



Hose End Tool End

**Style WSR, for hose-to-tool service**

Cable	Part #	Hose I.D.	Length	Maximum Working Pressure PSI
1/8"	<b>WSR1</b>	1/2" to 1-1/4"	20-1/4"	200
3/16"	<b>WSR3</b>	1/2" to 2"	28"	200
1/4"	<b>WSR2</b>	1-1/2" to 3"	38"	200
3/8"	<b>WSR4</b>	4"	44"	200



Hose End Hose End

**Style W, for hose-to-hose service**

Cable	Part #	Hose I.D.	Length	Maximum Working Pressure PSI
1/8"	<b>WB1</b>	1/2" to 1-1/4"	20-1/4"	200
3/16"	<b>WB3</b>	1/2" to 2"	28"	200
1/4"	<b>WA2</b>	1-1/2" to 3"	38-1/4"	200
3/8"	<b>WA4</b>	4"	44"	200

Note: Cables are shipped with safety restraint labels attached. Labels are not pictured. Other cable options are available.

Reference OSHA regulations standards - 29 CFR, 1915.131, 1926.302, and 1926.603.

## Crimped "Dix-Lock" Recommendation Guide

The chart at the right is only a guide. It will not apply to every coupling situation. In some instances alternative dies and crimping dimensions must be employed to ensure safety. Experience has shown that variances in the construction of similar hoses and couplings may cause some assemblies to react differently when crimped. It is not uncommon to find hose with an outer diameter that fluctuates from one end to the other or from production lot to production lot. These inconsistencies coupled with the inherent differences between textile or wire braid, hard or soft wall, the presence or absence of an internal spiral wire and the differences in hose coverings make it difficult to establish hard and fast rules. Therefore, its imperative that hose dimensions are accurately measured, assemblies are tested, and documentation is maintained.

Part#

**QM3WF, QB3WF, QM22WF, QB22WF, QM33WF, QB33WF**









Hose I.D.	Measured Hose O.D.		Crimp Length	"Dix-Lock" Crimp O.D. ± .005
	Fractional	Decimal		
1/2"	54/64"	0.844	1-1/8"	0.968
1/2"	55/64"	0.859	1-1/8"	0.968
1/2"	56/64"	0.875	1-1/8"	0.968
1/2"	57/64"	0.891	1-1/8"	1.000
1/2"	58/64"	0.906	1-1/8"	1.000
1/2"	59/64"	0.922	1-1/8"	1.031
1/2"	60/64"	0.938	1-1/8"	1.031
1/2"	61/64"	0.953	1-1/8"	1.062
1/2"	62/64"	0.969	1-1/8"	1.062
1/2"	63/64"	0.984	1-1/8"	1.062
1/2"	1"	1.000	1-1/8"	1.093
1/2"	1-1/64"	1.016	1-1/8"	1.093
1/2"	1-2/64"	1.031	1-1/8"	1.093

Part#

**QM4WF, QB4WF, QM23WF, QB23WF, QM44WF, QB44WF**

Hose I.D.	Measured Hose O.D.		Crimp Length	"Dix-Lock" Crimp O.D. ± .005
	Fractional	Decimal		
3/4"	1-10/64"	1.156	1-1/4"	1.218
3/4"	1-11/64"	1.172	1-1/4"	1.218
3/4"	1-12/64"	1.188	1-1/4"	1.218
3/4"	1-13/64"	1.203	1-1/4"	1.250
3/4"	1-14/64"	1.219	1-1/4"	1.250
3/4"	1-15/64"	1.234	1-1/4"	1.281
3/4"	1-16/64"	1.250	1-1/4"	1.281
3/4"	1-17/64"	1.266	1-1/4"	1.281
3/4"	1-18/64"	1.281	1-1/4"	1.312
3/4"	1-19/64"	1.297	1-1/4"	1.312
3/4"	1-20/64"	1.313	1-1/4"	1.343
3/4"	1-21/64"	1.328	1-1/4"	1.343
3/4"	1-22/64"	1.344	1-1/4"	1.375

## "Dix-Lock" Interchange Guide

Size	Material	Dixon Part #	Perfecting Part #	Bowes Part #	National Part #		
3/8"	steel	<b>QM2</b>	HM3E	51522	BMH6		
	brass	<b>QB2</b>	HM3B	51462	B-BMH6		
1/2"	steel	<b>QM3</b>	HM4E	51524	BMH8		
	brass	<b>QB3</b>	HM4B	51464	B-BMH8		
3/4"	steel	<b>QM4</b>	HM6E	51526	BMH12		
	brass	<b>QB4</b>	HM6B	51466	B-BMH12		
<b>Female Head x Hose End</b>							
3/8"	steel	<b>QM21</b>	HF3E	51532	BFH6		
	brass	<b>QB21</b>	HF3B	51472	B-BFH6		
1/2"	steel	<b>QM22</b>	HF4E	51534	BFH8		
	brass	<b>QB22</b>	HF4B	51474	B-BFH8		
3/4"	steel	<b>QM23</b>	HF6E	51536	BFH12		
	brass	<b>QB23</b>	HF6B	51476	B-BFH12		
<b>Male Head x Male NPT End</b>							
3/8"	steel	<b>QM41</b>	OM3E	51542	BMM6		
	brass	<b>QB41</b>	OM3B	51482	B-BMM6		
1/2"	steel	<b>QM42</b>	OM4E	51544	BMM8		
	brass	<b>QB42</b>	OM4B	51484	B-BMM8		
3/4"	steel	<b>QM43</b>	OM6E	51546	BMM12		
	brass	<b>QB43</b>	OM6B	51486	B-BMM12		
<b>Female Head x Male NPT End</b>							
3/8"	steel	<b>QM61</b>	OF3E	51552	BFM6		
	brass	<b>QB61</b>	OF3B	51492	B-BFM6		
1/2"	steel	<b>QM62</b>	OF4E	51554	BFM8		
	brass	<b>QB62</b>	OF4B	51494	B-BFM8		
3/4"	steel	<b>QM63</b>	OF6E	51556	BFM12		
	brass	<b>QB63</b>	OF6B	51496	B-BFM12		
<b>Male Head x Female NPT End</b>							
3/8"	steel	<b>QM81</b>	IM3E	51562	BMF6		
	brass	<b>QB81</b>	IM3B	51502	B-BMF6		
1/2"	steel	<b>QM82</b>	IM4E	51564	BMF8		
	brass	<b>QB82</b>	IM4B	51504	B-BMF8		
3/4"	steel	<b>QM83</b>	IM6E	51566	BMF12		
	brass	<b>QB83</b>	IM6B	51506	B-BMF12		
<b>Female Head x Female NPT End</b>							
3/8"	steel	<b>QM101</b>	IF3E	51572	BFF6		
	brass	<b>QB101</b>	IF3B	51512	B-BFF6		
1/2"	steel	<b>QM102</b>	IF4E	51574	BFF8		
	brass	<b>QB102</b>	IF4B	51514	B-BFF8		
3/4"	steel	<b>QM103</b>	IF6E	51576	BFF12		
	brass	<b>QB103</b>	IF6B	51516	B-BFF12		
<b>Male Locking Head x Hose Shank</b>							
1/2"	steel	<b>QM33</b>	SHM4E	51524-1	BMH8-LN		
	brass	<b>QB33</b>	SHM4B	51464-1	B-BMH8-LN		
3/4"	steel	<b>QM44</b>	SHM6E	51526-1	BMH12-LN		
	brass	<b>QB44</b>	SHM6B	51466-1	B-BMH12-LN		
<b>Male Locking Head x Male NPT</b>							
1/2"	steel	<b>QM66</b>	SOM4E	51544-1	BMM8-LN		
	brass	<b>QB66</b>	SOM4B	51484-1	B-BMM8-LN		
3/4"	steel	<b>QM88</b>	SOM6E	51546-1	BMM12-LN		
	brass	<b>QB88</b>	SOM6B	51486-1	B-BMM12-LN		

Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

**Dixon Valve & Coupling Company**

800 High Street, Chestertown, MD 21620

Customer Service: 800.355.1991

Fax: 800.283.4966

**[www.dixonvalve.com](http://www.dixonvalve.com)**

# Dry Disconnects



The Right Connection™

# Table of Contents

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## Mann-Tek design

Dry Disconnect.....	4 - 5
Dry Aviation.....	6 - 7
Dry Gas.....	8 - 9

## Cam & Groove design

Dry Disconnect.....	10 - 11
Actuator style .....	18

## Bayonet design

Dry Disconnect.....	12 - 13
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## Safety Break-Aways

Bolt style .....	14 - 15
Cable style .....	16 - 17

## API fittings

Coupler .....	19
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## HOSE COUPLING SAFETY

- Use Dixon couplings, retention devices and accessory products only for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to Size, Temperature, Application, Media, and Pressure when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, [www.osha.gov](http://www.osha.gov).)
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.



## Features & Benefits



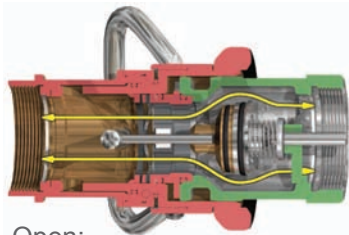
When your product is:

- expensive
- expensive to clean up
- expensive to reprocess or dispose
- hazardous to workers or the environment
- prone to accidental spillage and product loss

Dry disconnect couplings are designed for quick and spill free connection and disconnection of hoses and pipelines. They are used by producers of ink, adhesives, fatty acids, pharmaceuticals, liquid soaps, petroleum, chemicals, agricultural and a wide variety of common caustic and specialty acids.

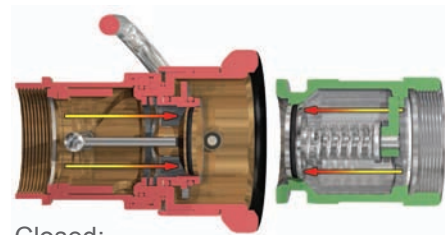
- Easy to handle - push and turn - free flow, turn and pull - closed
  - Time saving - no need to drain hoses or pipe systems
  - Economical - no loss or spillage of liquids at connection or disconnection
  - Safety - the valve cannot be opened until the unit is coupled
  - Environment friendly - accidental spillage eliminated
  - Safe and reliable - due to rugged construction
  - Product life - uncomplicated design and high quality materials ensures longer product life
  - Selectivity - To avoid product contamination caused by connecting a coupler to the wrong adapter, selective versions of the adapters are available. Contact the factory for further information.
  - produced according to NATO standard STANAG 3756 and ATOFINA SGM 2049.TUY.C.
  - Interchanges with Avery Hardoll and Todo-matic®
- Working Pressure -
- aluminum: **260 PSI**
  - brass/ gunmetal: **360 PSI**
  - stainless steel: **360 PSI**
- Optional seals:
- EPDM
  - NBR - nitrile
  - Kalrez®
  - Chemraz®
  - Perlast®

## How It Works



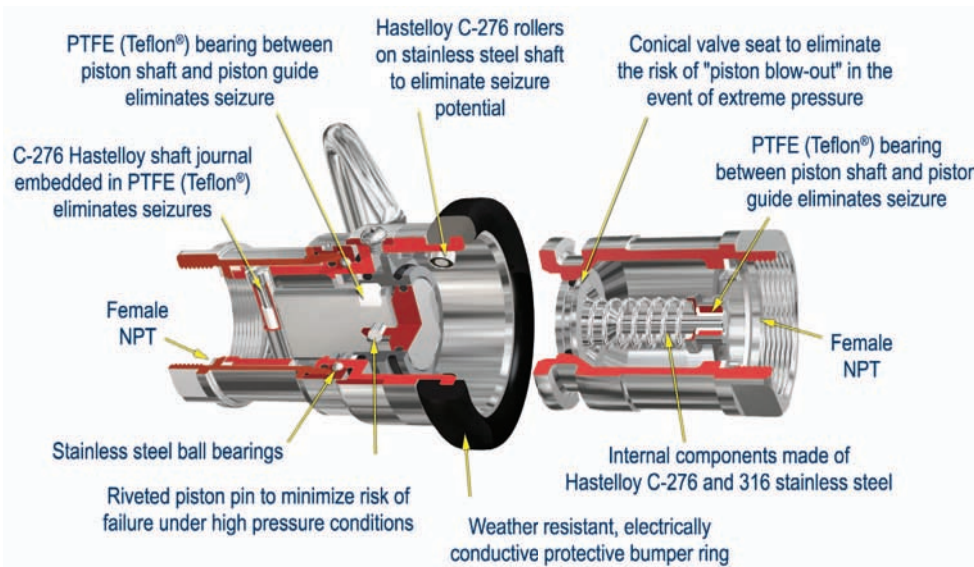
Open:

- Push and turn  
it's coupled - full flow



Closed:

- Turn and pull  
it's released - no spillage



# Dry Disconnects

## Hose Unit



female NPT x coupler - aluminum  
¾" and 1" design



female NPT x coupler - brass  
1½" and 2" design



female NPT x coupler - stainless steel  
3" and 4" design



female NPT x coupler - aluminum  
6" design

- coupler has built-in swivel
- stainless steel ball bearings
- shaft journal is stainless steel embedded in PTFE (Teflon®) to eliminate seizure
- riveted piston pin to minimize the risk for failure under extreme pressure conditions
- the protective ring is a specially formulated, weather resistant and electrically conductive rubber compound
- all wetted parts are stainless steel
- stainless steel couplers: rollers are Hastelloy C276 on the stainless steel shaft
- aluminum and brass couplers: rollers are aluminum-bronze on the stainless steel shaft
- for information on repair kits visit us on-line at [www.dixonvalve.com](http://www.dixonvalve.com)

### dry quick disconnect couplers x female NPT with Viton® seals

Female NPT	Body Size	316 Stainless Steel	Anodized Aluminum	Brass / Gunmetal
¾"	56 mm	<b>DDC075SS</b>	<b>DDC075AL</b>	<b>DDC075BR</b>
1"	56 mm	<b>DDC100SS</b>	<b>DDC100AL</b>	<b>DDC100BR</b>
1½"	70 mm	<b>DDC150SS</b>	<b>DDC150AL</b>	<b>DDC150BR</b>
2"	70 mm	<b>DDC200SS</b>	<b>DDC200AL</b>	<b>DDC200BR</b>
3"	105 mm	<b>DDC300SS105</b>	<b>DDC300AL105</b>	<b>DDC300GM105</b>
3"	119 mm	<b>DDC300SS</b>	<b>DDC300AL</b>	<b>DDC300GM</b>
4"	164 mm	<b>DDC400SS</b>	<b>DDC400AL</b>	<b>DDC400GM</b>
6"	238 mm	<b>DDC600SS</b>	<b>DDC600AL</b>	---

## Dust Plugs

- Composite (Polyeten PE-HD 300) plugs provide good protection against corrosion and withstands hot and cold environments.

### composite dust plugs for couplers

Size	Body Size	Polyeten PE-HD 300
¾" and 1"	56 mm	<b>DDDP075</b>
1½" and 2"	70 mm	<b>DDDP150</b>
3"	105 mm	<b>DDDP300105</b>
3"	119 mm	<b>DDDP300</b>
4"	164 mm	<b>DDDP400</b>
6"	238 mm	<b>DDDP600</b> <sup>1</sup>

<sup>1</sup> 6" dust plug is aluminum



composite plug



## Dry Disconnects

### Tank Unit

- adapter is usually installed on the tank or manifold
- conical valve seat eliminates the risk for "piston blow out"
- PTFE (Teflon®) bearings between the piston shaft and the piston guide eliminate the risk for seizure
- for information on repair kits visit us on-line at [www.dixonvalve.com](http://www.dixonvalve.com)

#### dry quick disconnect adapters x female NPT with Viton® seals

Female NPT	Body Size	316 Stainless Steel	Anodized Aluminum	Brass / Gunmetal
¾"	56 mm	<b>DDA075SS</b>	<b>DDA075AL</b>	<b>DDA075BR</b>
1"	56 mm	<b>DDA100SS</b>	<b>DDA100AL</b>	<b>DDA100BR</b>
1½"	70 mm	<b>DDA150SS</b>	<b>DDA150AL</b>	<b>DDA150BR</b>
2"	70 mm	<b>DDA200SS</b>	<b>DDA200AL</b>	<b>DDA200BR</b>
3"	105 mm	<b>DDA300SS105</b>	<b>DDA300AL105</b>	<b>DDA300GM105</b>
3"	119 mm	<b>DDA300SS</b>	<b>DDA300AL</b>	<b>DDA300GM</b>
4"	164 mm	<b>DDA400SS</b>	<b>DDA400AL</b>	<b>DDA400GM</b>
6"	238 mm	<b>DDA600SS</b>	<b>DDA600AL</b>	---

#### dry quick disconnect adapters x 150# ASA flange with Viton® seals

150# ASA	Body Size	316 Stainless Steel	Anodized Aluminum	Brass / Gunmetal
¾"	56 mm	<b>DDA075SSFL</b>	---	---
1"	56 mm	<b>DDA100SSFL</b>	<b>DDA100ALFL</b>	<b>DDA100BRFL</b>
1½"	70 mm	<b>DDA150SSFL</b>	<b>DDA150ALFL</b>	<b>DDA150BRFL</b>
2"	70 mm	<b>DDA200SSFL</b>	<b>DDA200ALFL</b>	<b>DDA200BRFL</b>
3"	105 mm	<b>DDA300SS105FL</b>	<b>DDA300AL105FL</b>	<b>DDA300GM105FL</b>
3"	119 mm	<b>DDA300SSFL</b>	<b>DDA300ALFL</b>	<b>DDA300GMFL</b>
4"	164 mm	<b>DDA400SSFL</b>	<b>DDA400ALFL</b>	<b>DDA400GMFL</b>
6"	238 mm	<b>DDA600SSFL</b>	<b>DDA600ALFL</b>	---

#### dry quick disconnect adapters x TTMA flange with Viton® seals

TTMA	Body Size	Anodized Aluminum
3"	105 mm	<b>DDA300AL105TTMA</b>
3"	119 mm	<b>DDA300AL119TTMA</b>
4"	164 mm	<b>DDA400AL164TTMA</b>

#### Construction:

- aluminum adapter - aluminum poppet, stainless steel internal parts
- stainless steel adapter - stainless steel poppet, stainless steel internal parts
- brass / gunmetal adapter - brass poppet, brass and stainless steel internal parts



adapter x female NPT - DDA100BR



adapter x 150# ASA flange - DDA200SSFL



adapter x TTMA flange - DDA300AL119TTMA

## Dust Caps

- Composite (Polyeten PE-HD 300) caps provide good protection against corrosion and withstands hot and cold environments.

#### dust caps for adapters

Size	Body Size	Polyeten PE-HD 300	Rubber
¾" and 1"	56 mm	<b>DDDC075</b>	<b>DGDC100</b>
1½" and 2"	70 mm	<b>DDDC150</b>	<b>DGDC200</b>
3"	105 mm	<b>DDDC300105</b>	---
3"	119 mm	<b>DDDC300</b>	---
4"	164 mm	<b>DDDC400</b>	---
6"	238 mm	<b>DDDC600</b> <sup>1</sup>	---

<sup>1</sup> 6" dust plug is aluminum



composite cap



rubber cap

# Dry Aviation Couplings

## Hose Unit

Dry aviation couplings are designed for use in aviation refueling systems. Manufactured to accept the international standard 2½" point bayonet, hose end refueling nozzles according to: ISO45 / MS24484 / STANAG 3105 / British Aerospace Spec. 2C14. **They are not configured for under-wing refueling.**

### Technical Information:

- body: high strength aluminum
- coupling ring: gunmetal
- bayonet flange and inner parts: stainless steel, aluminum
- all wetted parts are aluminum and stainless steel
- **150 PSI** working pressure
- stainless steel ball bearings
- gunmetal coupling ring minimizes the risk of seizure
- stainless steel shaft journal embedded in PTFE (Teflon®) eliminates seizure
- PTFE (Teflon®) bearings between the driving plate and the piston guide eliminate the risk of seizure
- riveted piston pin minimizes the risk of failure under extreme pressure conditions
- the protective ring is a specially formulated, weather resistant and electrically conductive rubber compound



female NPT x coupler - DAC250AL

### aviation couplers x female NPT with Viton® seals

Female NPT	Body Size	Aluminum
2½"	ISO 45	<b>DAC250AL</b>
3"	ISO 45	<b>DAC300AL</b>

### aviation couplers x female BSP with Viton® seals

Female BSP	Body Size	Aluminum
2½"	ISO 45	<b>DAC250ALBSP</b>
3"	ISO 45	<b>DAC300ALBSP</b>

## Sight Flow Indicators



sight flow indicator - ASFI25T25B

- filter / screen can be inspected through the sight glass
- filter / screen is easily removed if cleaning is required
- screen is 100 mesh

### aviation sight flow indicator with filter / screen

Female Thread	Male Thread	Aluminum
2½" NPT	2½" BSP	<b>ASFI25T25B</b>
3" NPT	3" BSP	<b>ASFI30T30B</b>
2½" NPT	2½" NPT	<b>ASFI25T25T</b>
3" NPT	3" NPT	<b>ASFI30T30T</b>

## Dust Plugs



composite plug

- Composite (Polyeten PE-HD 300) plug provides good protection against corrosion and withstands hot and cold environments.

### composite dust plug for couplers

Size	Body Size	Polyeten PE-HD 300
2½"	ISO 45	<b>DADP250</b>

## Dry Aviation Couplings

### Tank Unit

Dry aviation couplings are designed for use in aviation refueling systems. Manufactured to accept the international standard 2½" point bayonet, hose end refueling nozzles according to: ISO45 / MS24484 / STANAG 3105 / British Aerospace Spec. 2C14. **They are not configured for under-wing refueling.**

- stainless steel bayonet flange minimizes the risk of seizure
- PTFE (Teflon®) bearings between the piston shaft and the piston guide eliminate the risk of seizure
- conical valve seat eliminates the risk of "piston blow out" when extreme pressure is used

#### Technical Information:

- body: high strength aluminum
- bayonet flange and inner parts: stainless steel, aluminum
- all wetted parts are aluminum and stainless steel
- **150 PSI** working pressure

#### aviation adapters x female NPT with Viton® seals

Female NPT	Body Size	Aluminum
2½"	ISO 45	<b>DAA250AL</b>
3"	ISO 45	<b>DAA300AL</b>



adapter x female NPT - DAA250AL

#### aviation adapters x 150# ASA flange with Viton® seals

Female BSP	Body Size	Aluminum
2½"	ISO 45	<b>DAA250ALFL</b>
3"	ISO 45	<b>DAA300ALFL</b>



adapter x 150# ASA flange - DAA250ALFL

---

### Dust Caps

- Composite (Polyeten PE-HD 300) cap provides good protection against corrosion and withstands hot and cold environments.

#### composite dust caps for adapters

Size	Body Size	Polyeten PE-HD 300
2½"	ISO 45	<b>DADC250</b>



composite cap

# Dry Gas Couplings

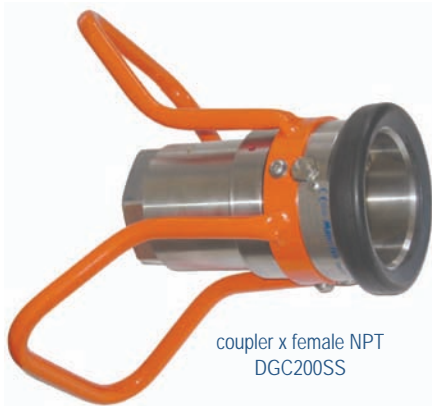
## Hose Unit

Dry gas couplings are designed for safe loading and discharge of bulk delivery trucks and rail cars. They are quick and easy to connect and can be connected to a tank unit with pressures up to 225 PSI. If the pressure is higher you can equip the couplings with a pressure relief valve. The easy to connect pressure relief valve dissipates trapped fluid pressure into the hose coupler without spillage. The primary application of dry gas couplings is in the handling of LPG - Propane and Butane.

### Technical Information:

- stainless steel and brass / gunmetal
- NBR90 seals
- female NPT and ASA flanges
- **360 PSI** working pressure

- safe handling of LPG
- easy to use and saves time
- reliable and easy to maintain
- can be coupled against higher pressure
- minimizes the risk of cold burns
- minimizes spillage and product loss
- minimizes health risks
- keeps the environment free of hazardous vapors and liquids
- compatible with existing dry disconnect couplings



### dry gas couplers x female NPT with NBR90 seals

Female NPT	Body Size	Stainless Steel
1"	56 mm	<b>DGC100SS</b>
2"	71 mm	<b>DGC200SS</b>
3"	119 mm	<b>DGC300SS</b>

## Dust Plugs

- Composite (Polyeten PE-HD 300) plugs provide good protection against corrosion and withstand hot and cold environments



### composite dust plugs for couplers

Size	Body Size	Polyeten PE-HD 300
1"	56 mm	<b>DGDP100</b>
2"	71 mm	<b>DGDP200</b>
3"	119 mm	<b>DGDP300</b>

## Dry Gas Couplings

### Tank Unit

Dry gas couplings are designed for safe loading and discharge of bulk delivery trucks and rail cars. They are quick and easy to connect and can be connected to a tank unit with pressures up to 225 PSI. If the pressure is higher you can equip the couplings with a pressure relief valve. The easy to connect pressure relief valve dissipates trapped fluid pressure into the hose coupler without spillage. The primary application of dry gas couplings is in the handling of LPG - Propane and Butane.

- safe handling of LPG
- easy to use and saves time
- reliable and easy to maintain
- can be coupled against higher pressure
- minimizes the risk of cold burns
- minimizes spillage and product loss
- minimizes health risks
- keeps the environment free of hazardous vapors and liquids
- compatible with existing dry disconnect couplings

#### Technical Information:

- stainless steel and brass / gunmetal
- NBR90 seals
- female NPT and ASA flanges
- **360 PSI** working pressure

#### dry gas adapters x female NPT with NBR90 seals

Female NPT	Body Size	Stainless Steel
1"	56 mm	<b>DGA100SS</b>
2"	71 mm	<b>DGA200SS</b>
3"	119 mm	<b>DGA300SS</b>



adapter x female NPT - DGA200SS

#### dry gas adapters x 150# ASA flange with NBR90 seals

150# ASA	Body Size	Stainless Steel
1"	56 mm	<b>DGA100SSFL</b>
2"	71 mm	<b>DGA200SSFL</b>
3"	119 mm	<b>DGA300SSFL</b>



adapter x 150# ASA flange - DGA200SSFL

## Dust Caps

#### dust caps for adapters

Size	Body Size	Rubber
1"	56 mm	<b>DGDC100</b>
2"	71 mm	<b>DGDC200</b>
3"	119 mm	<b>DGDC300</b>



rubber cap



# Cam & Groove Style Dry Disconnect Couplings

## Couplers

**SAFETY  
ALERT**

Must be used with a DBA style adapter for coupler to operate. Adapter sold separately.

- <sup>1</sup> stainless steel corrosion resistance is comparable to 304 stainless steel
- <sup>2</sup> Kalrez® gasket, main seal O-ring and handle O-ring. Teflon® seals on cylinder assembly, stuffing box, and seal under poppet screw.

Working Pressure:

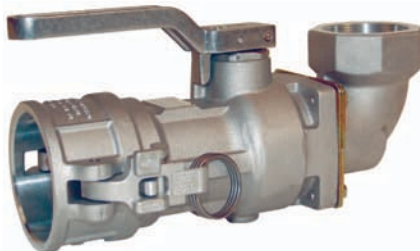
- 1½" **210 PSI @ 70°**
- 2" **150 PSI @ 70°**
- 3" **120 PSI @ 70°**



coupler x female NPT - DBC71-200



coupler x female NPT - DBC61-300



coupler x 90° swivel female NPT - DSB61-200



locking kit - DBCL200

- dry disconnect coupler has automatic closing poppet assembly
- heavy duty stainless steel crank and link provide long service life
- stainless steel handle allows product exposure to corrosive chemicals or washdown service
- strong handle attachment prevents bending of crank assembly
- fully interchangeable with Kamvalok (OPW trademark) style fittings
- aluminum fittings have stainless steel<sup>1</sup> internals
- for pressure ratings at other temperatures, contact the factory
- Dixon EZ Boss-Lock cam arms standard on all fittings, provide high security from accidental opening due to vibration or snagging
- large paddle type cam arms standard on 3" fittings, allow for an easy grip
- for information on repair kits visit us on-line at [www.dixonvalve.com](http://www.dixonvalve.com)

### coupler x female NPT

Female NPT	Coupler Size	Seal Material	Aluminum		Stainless Steel <sup>1</sup>	
			Dixon #	OPW #	Dixon #	OPW #
1½"	2"	Buna	<b>DBC61-150</b>	1711D-AL15/1761	<b>DBC71-150</b>	1771D-SS15
2"	2½"		<b>DBC61-200</b>	1711D-AL20/1761	<b>DBC71-200</b>	1771D-SS20
3"	4"		<b>DBC61-300</b>	1711D-AL30	<b>DBC71-300</b>	1771D-SS30
1½"	2"	Viton®	<b>DBC62-150</b>	1712D-AL15/1762	<b>DBC72-150</b>	1772D-SS15
2"	2½"		<b>DBC62-200</b>	1712D-AL20/1762	<b>DBC72-200</b>	1772D-SS20
3"	4"		<b>DBC62-300</b>	1712D-AL30	<b>DBC72-300</b>	1772D-SS30
1½"	2"	Teflon® Encap. Silicone and Kalrez®	<b>DBC63-150</b>	1763D-AL15	<b>DBC73-150</b>	1773D-SS15
2"	2½"		<b>DBC63-200</b>	1763D-AL20	<b>DBC73-200</b>	1773D-SS20
3"	4"		<b>DBC63-300</b>	1763D-AL30	<b>DBC73-300</b>	1773D-SS30
1½"	2"	EPT	<b>DBC64-150</b>	1764D-AL15	<b>DBC74-150</b>	1774D-SS15
2"	2½"		<b>DBC64-200</b>	1764D-AL20	<b>DBC74-200</b>	1774D-SS20
3"	4"		<b>DBC64-300</b>	1764D-AL30	<b>DBC74-300</b>	1774D-SS30
1½"	2"	Kalrez® and Teflon® <sup>2</sup>	---	---	<b>DBC76-150</b>	1776D-SS15
2"	2½"		<b>DBC66-200</b>	1766D-AL20	<b>DBC76-200</b>	1776D-SS20
3"	4"		---	---	<b>DBC76-300</b>	1776D-SS30
1½"	2"	Teflon® Encap. Viton® and Kalrez®	<b>DBC67-150</b>	1777D-AL15	<b>DBC77-150</b>	1777D-SS15
2"	2½"		<b>DBC67-200</b>	1777D-AL20	<b>DBC77-200</b>	1777D-SS20
3"	4"		<b>DBC67-300</b>	1777D-AL30	<b>DBC77-300</b>	1777D-SS30
3"	4"	Viton® B	<b>DBC69-300</b>	1769D-AL30	<b>DBC79-300</b>	1779D-SS30

### greaseless coupler x female NPT

Female NPT	Coupler Size	Seal Material	Aluminum	Stainless Steel
1½"	2"	Teflon® Encap.	<b>DBC67-150-GL</b>	<b>DBC77-150-GL</b>
2"	2½"	Viton® and Kalrez®	<b>DBC67-200-GL</b>	<b>DBC77-200-GL</b>
3"	4"		<b>DBC67-300-GL</b>	<b>DBC77-300-GL</b>

### coupler x 90° swivel female NPT

Female NPT	Coupler Size	Seal Material	Aluminum	
			Dixon #	OPW #
2"	2½"	Buna	<b>DBS61-200</b>	1711ES-0200
2"	2½"	Viton®	<b>DBS62-200</b>	1712ES-0200
2"	2½"	Teflon® Encap. Silicone and Kalrez®	<b>DBS63-200</b>	---

## Locking Kit

- prevents unintentional opening of poppet assembly

### locking kit for couplers

Description	Aluminum
for use with 1½" and 2" cam and groove couplers	<b>DBCL-200</b>
for use with 3" cam and groove couplers	<b>DBCL-300</b>

# Cam & Groove Style Dry Disconnect Couplings

## Adapters

Compatible with most cam and groove style dry disconnects, the Bayco dry disconnect helps prevent spillage from normal or accidental disconnects. A spring loaded sealing device is designed to "snap" closed should the valve become disconnected with the poppet open, significantly limiting liquid loss.

- two-piece design for easy rebuilding of adapters
- fully interchangeable with Kamvalok (OPW trademark) style fittings
- aluminum fittings have aluminum nose piece and brass piston
- for pressure ratings at other temperatures, contact the factory
- for information on repair kits visit us on-line at [www.dixonvalve.com](http://www.dixonvalve.com)

<sup>1</sup> stainless steel corrosion resistance is comparable to 304 stainless steel

Working Pressure:

- 1½" **210 PSI @ 70°**
- 2" **150 PSI @ 70°**
- 3" **120 PSI @ 70°**

### adapter x female NPT

Female NPT	Adapter Size	Seal Material	Aluminum		Stainless Steel <sup>1</sup>	
			Dixon #	OPW #	Dixon #	OPW #
1½"	2"	Buna	<b>DBA11-150</b>	1611AN-AL15	<b>DBA71-150</b>	1671AN-SS15
2"	2½"		<b>DBA11-200</b>	1611AN-AL20	<b>DBA71-200</b>	1671AN-SS20
3"	4"		<b>DBA11-300</b>	1611AN-AL30	<b>DBA71-300</b>	1671AN-SS30
1½"	2"	Viton®	<b>DBA12-150</b>	1612AN-AL15	<b>DBA72-150</b>	1672AN-SS15
2"	2½"		<b>DBA12-200</b>	1612AN-AL20	<b>DBA72-200</b>	1672AN-SS20
3"	4"		<b>DBA12-300</b>	1612AN-AL30	<b>DBA72-300</b>	1672AN-SS30
1½"	2"	Teflon® Encap. Silicone	<b>DBA63-150</b>	1613AN-AL15	<b>DBA73-150</b>	1673AN-SS15
2"	2½"		<b>DBA63-200</b>	1613AN-AL20	<b>DBA73-200</b>	1673AN-SS20
3"	4"		<b>DBA63-300</b>	1613AN-AL30	<b>DBA73-300</b>	1673AN-SS30
1½"	2"	EPT	<b>DBA64-150</b>	1614AN-AL15	<b>DBA74-150</b>	1674AN-SS15
2"	2½"		<b>DBA64-200</b>	1614AN-AL20	<b>DBA74-200</b>	1674AN-SS20
3"	4"		<b>DBA64-300</b>	1614AN-AL30	<b>DBA74-300</b>	1674AN-SS30
1½"	2"	Kalrez®	<b>DBA66-150</b>	1616AN-AL15	<b>DBA76-150</b>	1676AN-SS15
2"	2½"		<b>DBA66-200</b>	1616AN-AL20	<b>DBA76-200</b>	1676AN-SS20
3"	4"		<b>DBA66-300</b>	1616AN-AL30	<b>DBA76-300</b>	1676AN-SS30
1½"	2"	Teflon® Encap. Silicone	---	---	<b>DBA77-150</b>	1677AN-SS15
2"	2½"		---	---	<b>DBA77-200</b>	1677AN-SS20
3"	4"		---	---	<b>DBA77-300</b>	1677AN-SS30
3"	4"	Viton® B	<b>DBA69-300</b>	1619AN-AL30	---	---



adapter x female NPT - DBA71-200



adapter x female NPT - DBA11-300

### jump size adapter x female NPT

Female NPT	Adapter Size	Seal Material	Aluminum	
			Dixon #	OPW #
2"	2"	Buna	<b>DBA11-1520</b>	---
2"	2"	Viton®	<b>DBA12-1520</b>	---

### vapor adapter x female NPSM

Female NPSM	Adapter Size	Seal Material	Stainless Steel <sup>1</sup>	
			Dixon #	OPW #
3"	2"	Teflon®	<b>DBAV73-2030</b>	2173AVN



vapor adapter x female NPSM - DBAV73-2030



# Bayonet Style Dry Disconnect Couplings

## Couplers

Bayco brand BA and BS series bayonet dry disconnect fittings are designed for use in the fuel and lube oil service industry. These fittings are not designed to be interchangeable with other types of Dry Disconnects, however they are used with the Emco Wheaton™ Dry Break™ commonly found in these services.

Working Pressure:

- 2" **80 PSI @ 70°**
- 3" **80 PSI @ 70°**
- for pressure ratings at other temperatures contact the factory
- for information on repair kits visit us on-line at [www.dixonvalve.com](http://www.dixonvalve.com)



coupler x straight female NPT - BC62-200



coupler x straight swivel female NPT - BSS62-200



coupler x straight swivel female NPT - BSS62-300



coupler x 90° swivel female NPT - BS62-200



coupler x 90° swivel female NPT - BS62-300

### bayonet style coupler x straight female NPT

Size	Seal Material	Anodized Aluminum	
		Dixon #	Emco Wheaton™ #
2"	Buna	<b>BC61-200</b>	J72C-ABN0-B
2"	Viton®	<b>BC62-200</b>	J72C-AVN0-B

### bayonet style coupler x straight swivel female NPT

Size	Seal Material	Anodized Aluminum	
		Dixon #	Emco Wheaton™ #
2"	Buna	<b>BSS61-200</b>	J72C-ABN1-B
2"	Viton®	<b>BSS62-200</b>	J72C-AVN1-B
3"	Buna	<b>BSS61-300</b>	J73C-ABN1-B
3"	Viton®	<b>BSS62-300</b>	J73C-AVN1-B

### bayonet style coupler x 90° swivel female NPT

Size	Seal Material	Anodized Aluminum	
		Dixon #	Emco Wheaton™ #
2"	Buna	<b>BS61-200</b>	J72C-ABN2-B
2"	Viton®	<b>BS62-200</b>	J72C-AVN2-B
3"	Buna	<b>BS61-300</b>	J73C-ABN2-B
3"	Viton®	<b>BS62-300</b>	J73C-AVN2-B

## Dust Plugs

- Composite (Polyeten PE-HD 300) plugs provide good protection against corrosion and withstands hot and cold environments.

### composite dust plug for couplers

Size	Body Size	Polyeten PE-HD 300
2"	70 mm	<b>DDDP150</b>
3"	105 mm	<b>DDDP300105</b>



composite plug

# Bayonet Style Dry Disconnect Couplings

## Adapters

Bayco brand BA and BS series bayonet dry disconnect fittings are designed for use in the fuel and lube oil service industry. These fittings are not designed to be interchangeable with other types of Dry Disconnects, however they are used with the Emco Wheaton™ Dry Break™ commonly found in these services.

Working Pressure:

- 2" **80 PSI @ 70°**
- 3" **80 PSI @ 70°**
- for pressure ratings at other temperatures contact the factory
- for information on repair kits visit us on-line at [www.dixonvalve.com](http://www.dixonvalve.com)

### bayonet style adapter x female NPT

Size	Seal Material	Stainless Steel	
		Dixon #	Emco Wheaton™ #
2"	Buna	<b>BA31-200</b>	J72A-BBN0-B / J72A-ABN0-B
2"	Viton®	<b>BA32-200</b>	J72A-BVN0-B / J72A-AVN0-B



adapter x female NPT - BA32-200

### bayonet style adapter x female NPT

Size	Seal Material	Brass	
		Dixon #	Emco Wheaton™ #
3"	Buna	<b>BA31-300</b>	J73A-BBN0-B
3"	Viton®	<b>BA32-300</b>	J73A-BVN0-B



adapter x female NPT - BA31-300

### bayonet style adapter x female NPT

Size	Seal Material	Aluminum	
		Dixon #	Emco Wheaton™ #
3"	Buna	<b>BA61-300</b>	J73A-ABN0-B
3"	Viton®	<b>BA62-300</b>	J73A-AVN0-B



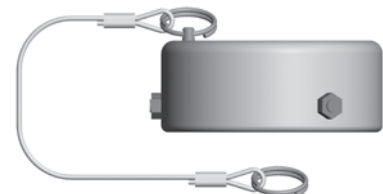
adapter x female NPT - BA62-300

## Dust Caps

- Composite (Polyeten PE-HD 300) caps provide good protection against corrosion and withstands hot and cold environments.

### composite dust cap for adapters

Size	Body Size	Polyeten PE-HD 300
2"	70 mm	<b>DDDC150</b>
3"	105 mm	<b>DDDC300105</b>

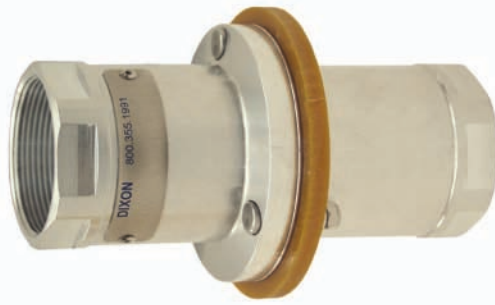


composite cap

# Safety Break-Away Couplings - Breaking Bolt Series

## Industrial

The breaking bolt industrial breakaway coupling is designed to minimize spillage and damage associated with drive away and pull away incidents.



SBC200AL - aluminum

- coupling automatically senses an excessive load, closes the valves and disconnects
- simple mechanism, no loose components lost after release
- high flow rate / low pressure drop
- female NPT is standard, optional ANSI / DIN flanges are available
- Viton® is standard seal
- for information on repair kits visit us on-line at [www.dixonvalve.com](http://www.dixonvalve.com)

Working Pressure:

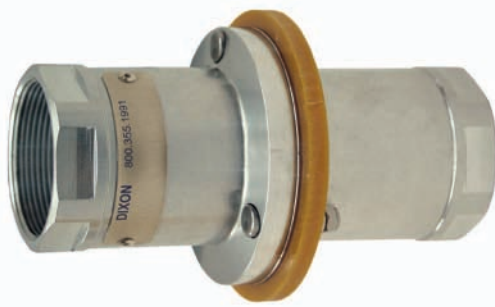
- stainless steel **360 PSI**
- aluminum **230 PSI**

### industrial breaking bolt series

Size	DN	Flow Rate GPM	Width	Length	Weight lbs.		316 Stainless Steel	Aluminum
					SS	AL		
2"	50	<b>200</b>	4.5"	7"	5	3	<b>SBC200SS</b>	<b>SBC200AL</b>
3"	80	<b>650</b>	6.2"	11"	18	8	<b>SBC300SS</b>	<b>SBC300AL</b>
4"	100	<b>800</b>	7.9"	12"	34	14	<b>SBC400SS</b>	<b>SBC400AL</b>

## Marine

The breaking bolt marine version break-away coupling is designed to minimize spillage and damage associated with pull-away incidents.



MSBC200SS - stainless steel

- designed to be installed within a hose string where the coupling will have a length of hose attached to both sides
- typical applications include: ship-to-offshore platform and ship-to-ship product transfer operations
- coupling automatically senses an excessive load, closes the valves and disconnects
- release is executed when force causes bolts to break
- female NPT is standard, optional ANSI / DIN flanges are available
- Viton® is standard seal
- for information on repair kits visit us on-line at [www.dixonvalve.com](http://www.dixonvalve.com)

Working Pressure:

- stainless steel **360 PSI**

### marine breaking bolt series

Size	DN	Flow Rate GPM	Width	Length	Weight lbs.	316 Stainless Steel
2"	50	<b>200</b>	4.5"	7"	5.7	<b>MSBC200SS</b>
3"	80	<b>650</b>	6.2"	11"	18.8	<b>MSBC300SS</b>
4"	100	<b>800</b>	7.9"	12"	34.1	<b>MSBC400SS</b>

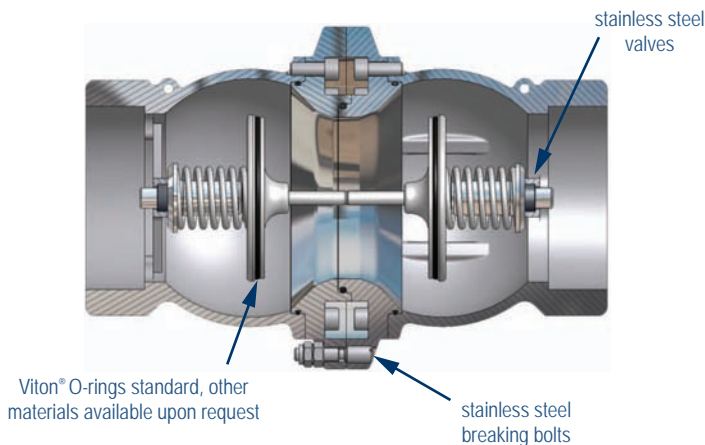
## Optional Non-Closure Design

The non-closure design is an economical alternative which allows the coupling to break away due to pull-away/drive-away incidents thus protecting piping systems and equipment. This design also allows spillage of product in these instances due to the lack of valving in the coupling.

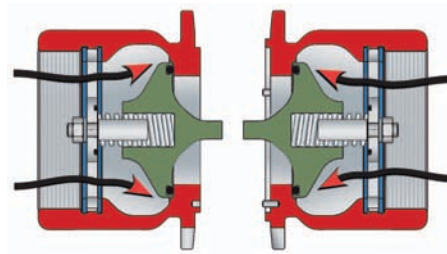
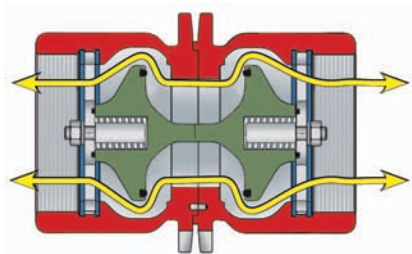
Useful in applications where non-hazardous product is being conveyed and where there are no environmental concerns. Available in both Industrial and Marine versions. Consult the factory for more information.

**Safety Break-Away Couplings - Breaking Bolt Series**

**Key Features**



**How It Works**



The safety break-away coupling consists of two halves, each with a valve that has a flat type-sealing surface similar to a dry disconnect coupling.

When the safety break-away couplings separate, it allows the poppets to close. The two poppets close rapidly, minimizing exposure to personnel and the environment.

Break loads for bolts should be based upon information specific to the application such as weight of unsupported hose or pipe and angle of pull associated with the specific application. Contact Dixon regarding specific applications.

**ratings and kits for the standard industrial breaking bolt series**

Size	Used On	kN rating	Pounds Force	Kits	
				Standard Bolt	Viton® O-ring
2"	SBC200AL	7.9 kN	1700	<b>S-N2M-44</b>	<b>O-ND2-01</b>
3"	SBC300AL	15.9 kN	3500	<b>S-N4M-44</b>	<b>O-ND4-01</b>
4"	SBC400AL	21.4 kN	4800	<b>S-N4M-44</b>	<b>O-ND5-01</b>

**ratings and kits for the standard marine breaking bolt series**

Size	Used On	kN rating	Pounds Force	Kits	
				Standard Bolt	Viton® O-ring
2"	MSBC200SS	13.0 kN	2900	<b>S-N2M-44</b>	<b>O-ND2-01</b>
3"	MSBC300SS	33.5 kN	7500	<b>S-N4M-44</b>	<b>O-ND4-01</b>
4"	MSBC400SS	52.3 kN	11,700	<b>S-N4M-44</b>	<b>O-ND5-01</b>

# Safety Break-Away Couplings - Cable Release Series

## Industrial

Cable release series break-away couplings are designed to minimize spillage and damage associated with drive away and pull-away incidents. Couplings feature a simple mechanism and no loose components to lose after release. In some applications the necessary force of the breaking bolts may be too high to prevent damage to loading arms or other pipe and equipment; under these conditions the use of cable release safety break-aways may be more suitable.



SBC200SS-CR - stainless steel

- coupling automatically senses an excessive load, closes the valves and disconnects
- release is executed by pulling out the locking bolts with the help of a cable
- when the coupling separates, the poppets close
- Viton® is standard seal
- for information on repair kits visit us on-line at [www.dixonvalve.com](http://www.dixonvalve.com)

Working Pressure:

- stainless steel **360 PSI**

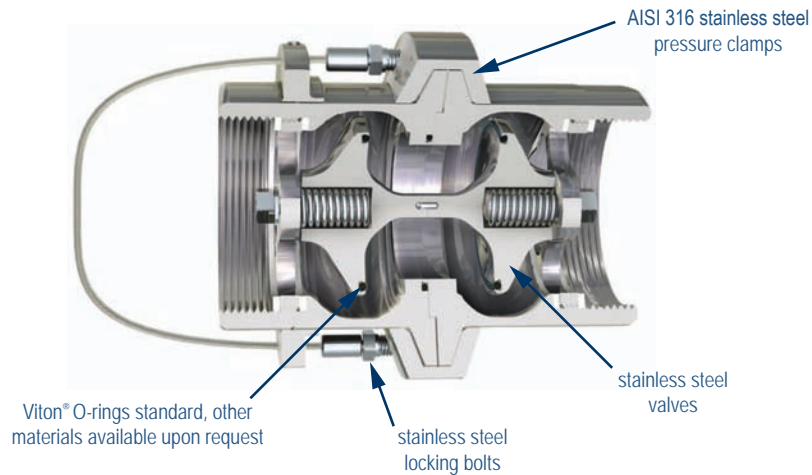
### industrial cable release series

Size	DN	Flow Rate GPM	Width	Length	Weight lbs.	316 T1 Stainless Steel
1½"	40	<b>100</b>	3.86"	5.59"	6.8	<b>SBC150SS-CR</b>
2"	50	<b>132</b>	4.33"	5.67"	9.1	<b>SBC200SS-CR</b>
3"	80	<b>264</b>	5.71"	7.68"	18.8	<b>SBC300SS-CR</b>
4"	100	<b>396</b>	7.28"	8.90"	35.4	<b>SBC400SS-CR</b>



**Safety Break-Away Couplings - Cable Release Series**

**Key Features**



**How It Works**



The safety break-away coupling consists of two halves, each with a valve that has a flat type-sealing surface similar to a dry disconnect coupling.

When the safety break-away couplings separate, it allows the poppets to close. The two poppets close rapidly, minimizing exposure to personnel and the environment.

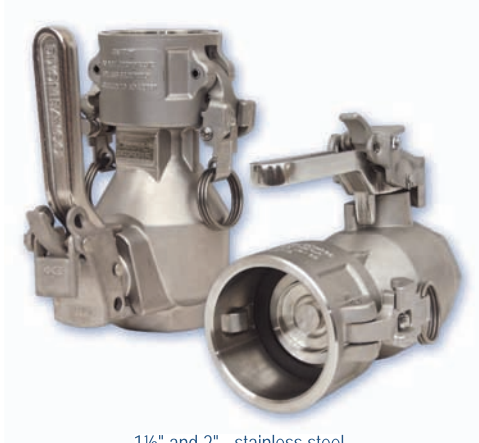
**ratings and kits for the industrial cable release series**

Size	Used On	Cable Release Load	Pounds Force	Viton® O-ring Kit #
1½"	SBC200SS-CR	0.8 kN	170	<b>O-02-01</b>
2"	SBC200SS-CR	0.8 kN	170	<b>O-02-01</b>
3"	SBC300SS-CR	1.0 kN	220	<b>O-04-01</b>
4"	SBC400SS-CR	1.5 kN	330	<b>O-05-01</b>

# Cam and Groove Actuator style Fittings

## coupler

The D2C style couplers work with the DBA adapters for applications where automatic closure for the coupler is not desired. This coupler is suited to vapor recovery, suction pump line and applications where it is necessary to easily drain the hose or piping for clean out. It can also be used when product retention in hose or pipe is desired but damage from accidental spill from open coupler is not a concern.



1½" and 2" - stainless steel

- 316 stainless steel body
- 304 stainless steel internal components
- EZ Boss-Lock cam arms
- stainless steel locking lever included
- available with Buna, Viton®, Viton-B®, EPDM, Kalrez®, Teflon® encapsulated Silicone and Teflon® encapsulated Viton® seals
- used with poppeted adapter DBA series on page 11

### actuator style couplers

Size	Seal Material	Stainless Steel
1½"	Buna	<b>D2C71-150</b>
2"		<b>D2C71-200</b>
1½"	Viton®	<b>D2C72-150</b>
2"		<b>D2C72-200</b>
1½"	Teflon® encapsulated Silicone	<b>D2C73-150</b>
2"		<b>D2C73-200</b>
1½"	EPDM	<b>D2C74-150</b>
2"		<b>D2C74-200</b>
1½"	Teflon® encapsulated Viton®	<b>D2C76-150</b>
2"		<b>D2C76-200</b>
1½"	Kalrez®	<b>D2C77-150</b>
2"		<b>D2C77-200</b>
1½"	Viton-B®	<b>D2C79-150</b>
2"		<b>D2C79-200</b>



## API Bottom Rack Loading Fittings

### coupler

Dixon Bayco's API coupler uses a snap on connection where the coupling action is automatic upon contact with the API adapter. The coupler is completely modular so it can be built with various face seal combinations to be compatible with different alternative fuel, performance levels and applications. Two models are available: bonded nose seal and replaceable nose seal.

- 4" TTMA inlet mounting flange
- 5 cam design for easy alignment and tight connection
- ball-end handle for easy, comfortable operation
- no special tools needed for maintenance
- shaft seals can be changed without removing coupler from loading arm
- fully compliant with API RP1004:2003 specifications
- fully interlocked collar can not be opened when connected and can not be disconnected when opened
- one piece bonded nose seal ensures long life and cannot be washed out
- optional replaceable nose seal for quick replacement without removal from loading arm

#### Material Specifications:

- body: hard coated anodized AL 356 T6
- shroud: hard coated anodized AL 356 T6 with stainless steel insert
- link, shaft, pin and crank: hardened 17-4PH stainless steel
- cam: CF8M stainless steel
- poppet and bearing: ZA-12
- seal options: Baylast, Viton-B®, Viton® GFLT

#### Technical Specifications:

- weight: 20 lbs.
- maximum working pressure: **150 PSI**
- peak surge pressure: 350 PSI
- operating temperature:
  - Viton® seals: **-20°F to +400°F**
  - Baylast seals: **-20°F to +250°F**
- maximum flow rate: 600 GPM
- pressure drop: 3 to 4 PSI

#### API couplers

Seal Material	Bonded Nose Seal #	Replaceable Nose Seal #
Baylast	<b>5300</b>	<b>5400</b>
Viton-B®	<b>5300B</b>	<b>5400B</b>
Viton® GFLT	<b>5300G</b>	<b>5400G</b>



bonded nose seal model - 5300

#### Chemical Compatibility (Baylast seals):

- gasoline
- diesel
- avgas
- 100% ethanol
- 100% methanol
- B2 to B20 biodiesel blends

#### Chemical Compatibility (Viton-B® seals):

- gasoline
- diesel
- jet fuel
- avgas
- 100% ethanol
- 100% methanol
- 100% biodiesel
- any blend of the above fluids

Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining and manufacturing.



*The Right Connection™*

## **Dixon**

800 High Street, Chestertown, MD 21620

Customer Service: 800.355.1991

Fax: 800.283.4966

[www.dixonvalve.com](http://www.dixonvalve.com)

# Dual Lock



*The Right Connection™*

## Dual-Lock

# Quick Acting Couplings

*Dual-Lock couplings allow full air flow for general purpose air handling requiring high flow and pneumatic impact tools.*

### Service:

- The recommended working pressure for Dual-Lock quick acting couplings is **300 PSI**.
- The operating temperature range is **-40° to +250°F** (-40° to +121°C).

### Features:

- Unisex design
- Spring loaded interlocking engagement
- Corrosion resistant coating
- Smooth ID permits full flow paths to tool
- Optional locking key prevents accidental sleeve retraction

### Configurations:

- Hose barb
- Male pipe thread
- Female pipe thread
- Locking sleeve
- Knurled flange sleeve

### Materials:

- Body: trivalent chrome plated steel  
*optional* - brass or 303 stainless steel
- Sleeve: trivalent chrome plated steel  
*optional* - brass or 303 stainless steel
- Retaining ring and spring: phosphor bronze
- Seal: nitrile (buna-n)  
*optional* - Viton®

### Connecting:

- Push and Twist  
*Locking clip is available to prevent unintentional disconnection.*

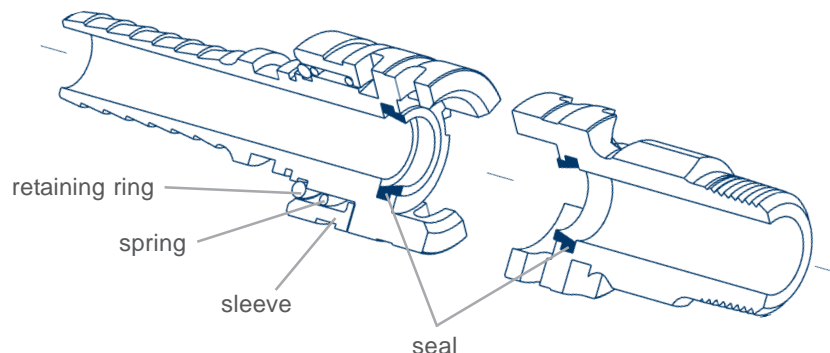
### Disconnecting:

- Pull and Twist  
**Never attempt to disconnect any hose while pressure is in the line.**

SAFETY  
ALERT

### Interchange:

- Interchangeable with Thor and National brands



## HOSE COUPLING SAFETY

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, [www.osha.gov](http://www.osha.gov).)
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.

Viton® is a registered trademark of DuPont Dow Elastomers.

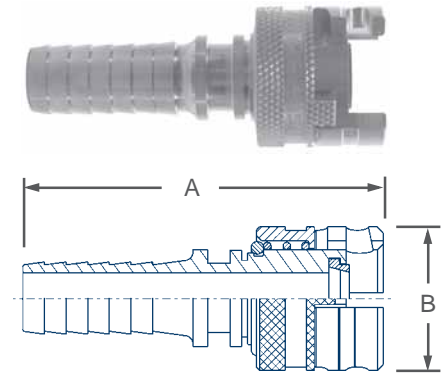
SAFETY  
ALERT

### Hose Barb with Locking Sleeve

Body Size	Hose Size	Part #			pkg qty
		Plated Steel	Brass	Stainless Steel	
1/2"	3/8"	<b>PHL6</b>	----	----	25
1/2"	1/2"	<b>PHL8</b>	----	----	25
1/2"	3/4"	<b>PHL12</b>	<b>PHLB12</b>	<b>PHL12SS</b>	25
1/2"	1"	<b>PHL16</b>	<b>PHLB16</b>	----	25

Dimensions

Size	A	B
3/8"	3.53"	1.55"
1/2"	3.95"	1.55"
3/4"	3.95"	1.55"
1"	6.06"	1.55"

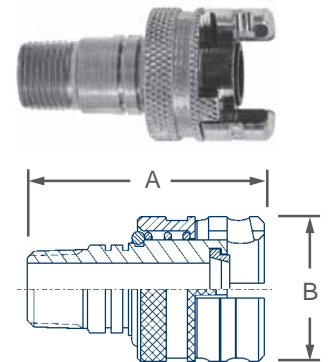


### Male Pipe Thread with Locking Sleeve

Body Size	Thread Size	Part #		pkg qty
		Plated Steel	Stainless Steel	
1/2"	3/8"	<b>PML6</b>	----	25
1/2"	1/2"	<b>PML8</b>	----	25
1/2"	3/4"	<b>PML12</b>	<b>PML12SS</b>	25

Dimensions

Size	A	B
1/2"	2.93"	1.55"
3/4"	3.11"	1.55"
1"	3.13"	1.55"

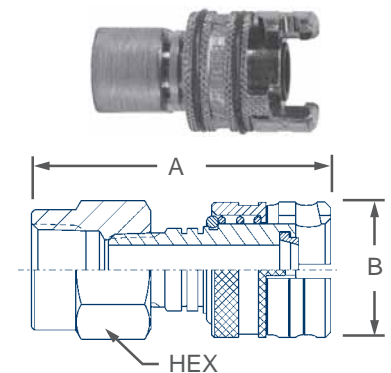


### Female Pipe Thread with Locking Sleeve

Body Size	Thread Size	Part #		pkg qty
		Plated Steel	Stainless Steel	
1/2"	1/2"	<b>PFL8</b>	----	25
1/2"	3/4"	<b>PFL12</b>	<b>PFL12SS</b>	25

Dimensions

Size	A	B	HEX
1/2"	1.55"	1.55"	1.38"
3/4"	1.55"	1.55"	1.38"



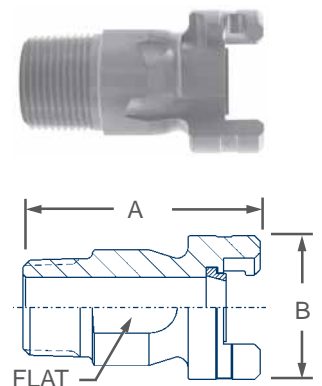
Must be used with locking sleeve fittings above.

Body Size	Thread Size	Part #			pkg qty
		Plated Steel	Brass	Stainless Steel	
1/2"	3/8"	<b>PM6</b>	----	----	25
1/2"	1/2"	<b>PM8</b>	<b>PMB8</b>	----	25
1/2"	3/4"	<b>PM12</b>	<b>PMB12</b>	<b>PM12SS</b>	25
1/2"	1"	<b>PM16</b>	<b>PMB16</b>	----	25

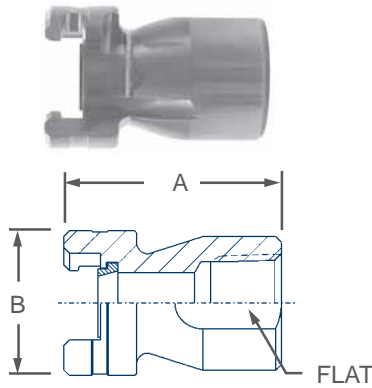
Dimensions

Size	A	B	FLAT
3/8"	2.00"	1.55"	0.88"
1/2"	2.25"	1.55"	0.97"
3/4"	2.55"	1.55"	1.13"
1"	3.25"	1.55"	1.38"

### Male Pipe Thread



## Female Pipe Thread



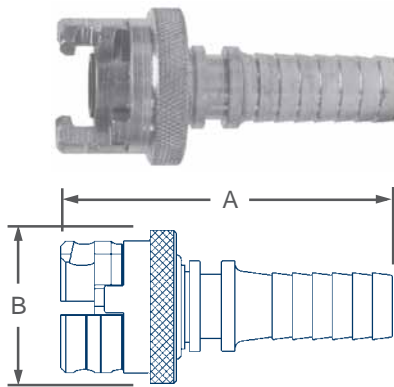
Must be used with locking sleeve fittings on page 3.

Body Size	Thread Size	Plated Steel	Part # Brass	Stainless Steel	pkg qty
		PF6	----	----	
1/2"	3/8"	PF8	PFB8	----	25
1/2"	1/2"	PF12	PFB12	PF12SS	25
1/2"	3/4"	PF16	PFB16	----	25

### Dimensions

Size	A	B	FLAT
3/8"	1.79"	1.55"	0.88"
1/2"	2.25"	1.55"	0.97"
3/4"	2.34"	1.55"	1.13"
1"	2.76"	1.55"	1.38"

## Hose Barb with Knurled Flanged Sleeve



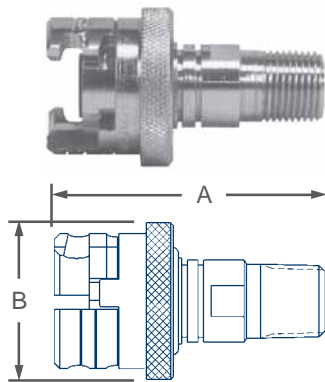
Large, raised collar sleeve permits easier handling when wearing gloves.

Body Size	Hose Size	Part # Plated Steel	pkg qty
		PHL6FS	
1/2"	3/8"	PHL8FS	25
1/2"	1/2"	PHL12FS	25
1/2"	3/4"		

### Dimensions

Size	A	B
3/8"	3.53"	1.81"
1/2"	3.95"	1.81"
3/4"	3.95"	1.81"

## Male Pipe Thread with Knurled Flanged Sleeve



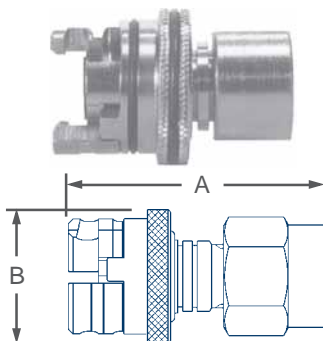
Large, raised collar sleeve permits easier handling when wearing gloves.

Body Size	Thread Size	Part # Plated Steel	pkg qty
		PML6FS	
1/2"	3/8"	PML8FS	25
1/2"	1/2"	PML12FS	25
1/2"	3/4"		

### Dimensions

Size	A	B
3/8"	2.93"	1.81"
1/2"	3.11"	1.81"
3/4"	3.13"	1.81"

## Female Pipe Thread with Knurled Flanged Sleeve



Large, raised collar sleeve permits easier handling when wearing gloves.

Body Size	Thread Size	Part # Plated Steel	pkg qty
		PFL8FS	
1/2"	1/2"	PFL12FS	25
1/2"	3/4"		

### Dimensions

Size	A	B
1/2"	3.43"	1.81"
3/4"	3.43"	1.81"

## Replacement Gaskets

Part #	Description
<b>855206</b>	Buna-N (standard)
<b>452963</b>	Viton®



Viton® is a registered trademark of DuPont Dow Elastomers.

## Sleeve Locking Key

- Fits couplings with locking sleeve
- Prevents sleeve retraction

Part #
<b>855231</b>



- Can be crimped
- Available in brass and stainless steel

Body Size	Hose Size	O.D. Range		Part # <i>Plated Steel</i>
		From:	To:	
1/2"	1/2"	5/4/64"	1-2/64"	<b>PHL8WF</b>
1/2"	3/4"	1-10/64"	1-22/64"	<b>PHL12WF</b>

## Dual-Lock with Ferrule



## Safety Cables

**SAFETY ALERT**

When hose, couplings or clamps fail, or there is an accidental separation of the assembly, King Safety Cables minimize damage to equipment and injuries to operators. King Safety Cable reaches across the hose fittings to provide standby safety for hose. Spring-loaded loops in the cable ends open easily to pass over the couplings for a firm grip on the hose. Thoroughly tested with years of service. A positive safeguard for air hose connections - helps you meet today's safety standards. *King Safety Cable must be installed in the extended position (no slack).*

### Features:

- Hose-to-hose or hose-to-rigid outlet
- King Cable is the low cost answer to eliminate injuries caused by broken air hose connections
- Highly resistant to rust and corrosion
- No tools needed - Easy to install and remove



Hose End Tool End

### Style WSR, for hose-to-tool service

Cable	Part #	Hose I.D.	Length	Maximum Working Pressure PSI
1/8"	<b>WSR1</b>	1/2" to 1-1/4"	20-1/4"	200
3/16"	<b>WSR3</b>	1/2" to 2"	28"	200
1/4"	<b>WSR2</b>	1-1/2" to 3"	38"	200
3/8"	<b>WSR4</b>	4"	44"	200



Hose End Hose End

### Style W, for hose-to-hose service

Cable	Part #	Hose I.D.	Length	Maximum Working Pressure PSI
1/8"	<b>WB1</b>	1/2" to 1-1/4"	20-1/4"	200
3/16"	<b>WB3</b>	1/2" to 2"	28"	200
1/4"	<b>WA2</b>	1-1/2" to 3"	38-1/4"	200
3/8"	<b>WA4</b>	4"	44"	200

*Note:* Cables are shipped with safety restraint labels attached. Labels are not pictured. Other cable options are available.

Reference OSHA regulations standards - 29 CFR, 1915.131, 1926.302, and 1926.603.

### The Importance of "Whip Hose"

The constant vibration created by air tools, like air drills and pavement breakers, is destructive to air hose couplings, especially the quick-acting type. To provide a safer working environment, connect one end of a 3' to 10' length of air hose to the tool using Dixon's "No. 3500" Steel Nipple. This nipple is designed to specifically handle vibration applications. Connect the other end of hose to the air supply using the standard quick-acting coupling. The "Whip Hose" should remain permanently connected to the tool.



## Crimped Recommendation Guide

The chart below is only a guide. It will not apply to every coupling situation. In some instances alternative dies and crimping dimensions must be employed to ensure safety. Experience has shown that variances in the construction of similar hoses and couplings may cause some assemblies to react differently when crimped. It is not uncommon to find hose with an outer diameter that fluctuates from one end to the other or from production lot to production lot. These inconsistencies coupled with the inherent differences between textile or wire braid, hard or soft wall, the presence or absence of an internal spiral wire and the differences in hose coverings make it difficult to establish hard and fast rules. Therefore, it is imperative that hose dimensions are accurately measured, assemblies are tested, and documentation is maintained.

Hose I.D.	Part #	Hose O.D.		Crimp Diameter (±0.005)	Crimp Length	% Reduction
		Fractional	Decimal			
½"	PHL8WF	54/64	0.844	0.925	1-1/4	18.9
		55/64	0.859	0.940	1-1/4	18.1
		56/64	0.875	0.950	1-1/4	18.9
		57/64	0.891	0.965	1-1/4	18.4
		58/64	0.906	0.975	1-1/4	19.0
		59/64	0.922	0.990	1-1/4	18.5
		60/64	0.938	1.005	1-1/4	18.0
		61/64	0.953	1.015	1-1/4	18.5
		62/64	0.969	1.030	1-1/4	18.1
		63/64	0.984	1.040	1-1/4	18.6
		1	1.000	1.055	1-1/4	18.2
		1-1/64	1.016	1.065	1-1/4	18.8
		1-2/64	1.031	1.080	1-1/4	18.3
		¾"	PHL12WF	1-10/64	1.156	1.220
1-11/64	1.171			1.235	1-1/4	18.0
1-12/64	1.187			1.244	1-1/4	18.7
1-13/64	1.203			1.260	1-1/4	18.1
1-14/64	1.218			1.270	1-1/4	18.8
1-15/64	1.234			1.285	1-1/4	18.2
1-16/64	1.250			1.295	1-1/4	18.8
1-17/64	1.265			1.310	1-1/4	18.4
1-18/64	1.281			1.320	1-1/4	18.8
1-19/64	1.296			1.335	1-1/4	18.5
1-20/64	1.312			1.345	1-1/4	19.0
1-21/64	1.328			1.360	1-1/4	18.5
1-22/64	1.343			1.370	1-1/4	19.0









## Installation Guide

### Procedure 2306

- Prepare the hose.
- Select the proper fitting from the Holedall Die Chart or the current Dixon catalog (DPL).
- From the Holedall Die Chart, determine proper crimp diameter and crimp length.
- Depending upon type of crimper, set crimp diameter on machine or select die cage and spacers to achieve required crimp diameter.
- Measure the distance from the end of the ferrule to the stem collar. Place a mark (line) on the hose (from the hose end) corresponding with this distance.
- Insert the coupling into the hose until the end of the ferrule is even with the line just placed on the hose.
- Mark the crimp length on the ferrule.
- Insert the coupling through the crimper die segments until the line on the ferrule is at the end of the die segments. Jog the machine until the die segments lightly contact the ferrule. Adjust fitting, if necessary, to ensure line is at end of die segments.
- With light pressure on hose to ensure stem collar is contacting ferrule, activate the crimper until desired crimp diameter has been achieved.
- Reverse machine and remove the coupling from the die segments. Measure the crimp diameter with dial calipers or micrometer.
- Test assembly if required.

*A printed copy of the complete Installation and Inspection Procedures Manual is available upon request.*

## Dual Lock Interchange Guide

Size	Material	Dixon Part #	Dixon Quick Coupling Part #	National Part #	
					<b>Hose Barb with Locking sleeve</b>
3/8"	steel	<b>PHL6</b>	4PS3	HS6	
1/2"	steel	<b>PHL8</b>	4PS4	HS8	
3/4"	steel	<b>PHL12</b>	4PS6	HS12	
	brass	<b>PHLB12</b>	4PS6-B	HB12	
	stainless	<b>PHL12SS</b>	4PS6-S	---	
1"	steel	<b>PHL16</b>	4PS8	HS16	
	brass	<b>PHLB16</b>	4PS8-B	---	
					<b>Male Pipe Thread with Locking Sleeve</b>
3/8"	steel	<b>PML6</b>	4PM3	MLS6	
1/2"	steel	<b>PML8</b>	4PM4	MLS8	
3/4"	steel	<b>PML12</b>	4PM6	MLS12	
	stainless	<b>PML12SS</b>	4PM6-S	---	
					<b>Female Pipe Thread with Locking Sleeve</b>
1/2"	steel	<b>PFL8</b>	4PF4	FLS8	
3/4"	steel	<b>PFL12</b>	4PF6	FLS12	
	stainless	<b>PFL12SS</b>	4PF6-S	---	
					<b>Male Pipe Thread</b>
3/8"	steel	<b>PM6</b>	P4M3	MS6	
1/2"	steel	<b>PM8</b>	P4M4	MS8	
	brass	<b>PMB8</b>	P4M4-B	MB8	
3/4"	steel	<b>PM12</b>	P4M6	MS12	
	brass	<b>PMB12</b>	P4M6-B	MB12	
	stainless	<b>PM12SS</b>	P4M6-S	---	
1"	steel	<b>PM16</b>	P4M8	MS16	
	brass	<b>PMB16</b>	P4M8-B	---	
					<b>Female Pipe Thread</b>
3/8"	steel	<b>PF6</b>	P4F3	FS6	
1/2"	steel	<b>PF8</b>	P4F4	FS8	
	brass	<b>PFB8</b>	P4F4-B	FB8	
3/4"	steel	<b>PF12</b>	P4F6	FS12	
	brass	<b>PFB12</b>	P4F6-B	FB12	
	stainless	<b>PF12SS</b>	P4F6-S	---	
1"	steel	<b>PF16</b>	P4F8	FS16	
	brass	<b>PFB16</b>	P4F8-B	---	
					<b>Hose Barb with Knurled Flanged Sleeve</b>
3/8"	steel	<b>PHL6FS</b>	4PS3-FS	---	
1/2"	steel	<b>PHL8FS</b>	4PS4-FS	---	
3/4"	steel	<b>PHL12FS</b>	4PS6-FS	---	
					<b>Male Pipe Thread with Knurled Flanged Sleeve</b>
3/8"	steel	<b>PML6FS</b>	4PM3-FS	---	
1/2"	steel	<b>PML8FS</b>	4PM4-FS	---	
3/4"	steel	<b>PML12FS</b>	4PM6-FS	---	
					<b>Female Pipe Thread with Knurled Flanged Sleeve</b>
1/2"	steel	<b>PFL8FS</b>	4PF4-FS	---	
3/4"	steel	<b>PFL12FS</b>	4PF6-FS	---	

Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for fire protection, food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

**Dixon Valve & Coupling Company**

800 High Street, Chestertown, MD 21620

Customer Service: 877.963.4966

Fax: 800.283.4966

**[www.dixonvalve.com](http://www.dixonvalve.com)**

# Flomax Connectors

Fast Transfer

Fueling and Fluid Management Systems  
for Mining and Construction Equipment



*The Right Connection™*

# Part Number Cross-reference

## Standard Series Connectors

## R Series Connectors

Dixon Part #	Caterpillar® part #	Wiggins part #
<i>Engine Oil Nozzles</i>		
ENBL	9S9273	OS2
ENBL-P	---	OSP2
ENBL-PLUG	9S9274	OP-12
<i>Engine Oil Receivers</i>		
ERS	9S9271	ON2
ERS-C	---	ONC2A
ERS-CAP	9S9272	O3B12P
<i>Coolant Fluid Nozzles</i>		
CN	108-5455	EC280B8
CN-P	---	---
CN-PLUG	108-5456	1209-8
<i>Coolant Fluid Receivers</i>		
CR-S	IQ5459	EC285A8
CR-C	---	---
CR-CAP	5P3587	1208-8
<i>Hydraulic Oil Nozzles</i>		
HN	108-5433	6000B12
HN-P	---	---
HN-PLUG	---	6009-12
<i>Hydraulic Oil Receivers</i>		
HR	108-5454	6005A12
HR-C	---	---
HR-CAP	IQ-5468	6008-12
<i>Transmission Fluid Nozzles</i>		
TN	126-7538	C-1807
TN-P	---	---
TN-PLUG	---	P-1844
<i>Transmission Fluid Receivers</i>		
TR	108-5456	P-1804
TR-C	---	---
TR-CAP	SP3587	P-1880

Dixon Part #	Caterpillar® part #	Wiggins part #
<i>Engine Oil Nozzles</i>		
R-EN	---	R15
R-EN-P	---	---
R-EN-PLUG	---	---
<i>Engine Oil Receivers</i>		
R-ER	---	R16
R-ER-C	---	---
R-ER-CAP	---	---
<i>Coolant Fluid Nozzles</i>		
R-CN	---	R11
R-CN-P	---	---
R-CN-PLUG	---	---
<i>Coolant Fluid Receivers</i>		
R-CR	---	R12
R-CR-C	---	---
R-CR-CAP	---	---
<i>Hydraulic Oil Nozzles</i>		
R-HN	---	R17
R-HN-P	---	---
R-HN-PLUG	---	---
<i>Hydraulic Oil Receivers</i>		
R-HR	---	R18
R-HR-C	---	---
R-HR-CAP	---	---
<i>Transmission Fluid Nozzles</i>		
R-TN	---	R13
R-TN-P	---	---
R-TN-PLUG	---	---
<i>Transmission Fluid Receivers</i>		
R-TR	---	R14
R-TR-C	---	---
R-TR-CAP	---	---

## Fuel Vent Series

Dixon Part #	Caterpillar® part #	Wiggins part #
VT	6G7803	ZV10
VT7	---	---
VT9	---	---

## Diesel Fueling System

Dixon Part #	Caterpillar® part #	Wiggins part #
<i>Nozzles</i>		
FN600	---	ZZ99A1
FN600BL	---	---
FN600B-PLUG	---	---
<i>Receivers</i>		
FRS	269000	ZN2A
FRS-C	---	ZNC2A
FRA	269000	ZN2A
FRA-C	---	ZNC2A
FR-CAP	9D0630	ZC20P
FR2	---	---
FR2-C	---	---
FR2-R	---	---
GFR-0	---	ZN6A
GFR-45	---	---
GFR-90	---	ZN6B
GFR1-0	---	ZN6B
GFR1-45	---	---
GFR1-90	---	ZN6B
FNS	---	ZS9
FNS2	---	---
FN600S	---	---
FNS10	---	---

## Diesel Fueling System

Designed for on-site refueling of construction, mining, forestry and agricultural equipment. Interchanges with Caterpillar® and Wiggins systems.

### Diesel Fuel Nozzle

- 1½" female NPT
- Integrated high flow swivel
- Investment cast aluminum housing
- Heat treated stainless steel wear components
- Integrated sealing plug
- Anodized aluminum non-wear parts
- Delron bushings eliminate metal-to-metal wear
- Stainless steel dog latch mechanism
- Plug/bumper assembly gives complete nose seal
- Tested to 180 gallons per minute

Description	Part #
Fuel nozzle with swivel and plug	<b>FN600</b>
Fuel nozzle - ball lock	<b>FN600BL</b>
Fuel nozzle sealing plug	<b>FN600B-PLUG</b>



### Diesel Fuel Receiver

- 2" male NPT
- Available in anodized aluminum or nickel-plated steel
- O-ring sealed aluminum cap
- Plug has set screw attached vinyl coated cable lanyard
- FR2 receiver allows replacement of wear components without draining the fuel tank.
- FR2 receiver has an aluminum base with nickel-plated steel nose.

Description	Part #
Fuel receiver - <i>steel</i>	<b>FRS</b>
Fuel receiver - <i>steel</i> with cap	<b>FRS-C</b>
Fuel receiver - <i>aluminum</i>	<b>FRA</b>
Fuel receiver - <i>aluminum</i> with cap	<b>FRA-C</b>
Fuel receiver cap	<b>FR-CAP</b>
Fuel receiver -2 piece	<b>FR2</b>
Fuel receiver -2 piece with cap	<b>FR2-C</b>
Fuel receiver -2 piece replacement	<b>FR2-R</b>
Gravity fill fuel receiver, straight	<b>GFR-0</b>
Gravity fill fuel receiver, 45°	<b>GFR-45</b>
Gravity fill fuel receiver, 90°	<b>GFR-90</b>
Gravity fill fuel receiver 1", straight	<b>GFR1-0</b>
Gravity fill fuel receiver 1", 45°	<b>GFR1-45</b>
Gravity fill fuel receiver 1", 90°	<b>GFR1-90</b>
Standard fuel swivel 1½"	<b>FNS</b>
Standard fuel swivel 2"	<b>FNS2</b>
FN600 fuel swivel 1½"	<b>FN600S</b>
Double fuel swivel 1½"	<b>FNSID</b>



### Fuel Vent Series

- 2" male NPT
- Billet cap provides superior impact resistance
- Easily serviced all metal construction
- Rigid ball cage for positive seal
- Available with:
  - Threaded outlet
  - Half coupling
  - Anti-vandalism mounting

Description	Part #
Fuel vent with 5" tube	<b>VT</b>
Fuel vent with 7" tube	<b>VT7</b>
Fuel vent with 9" tube	<b>VT9</b>





# Standard Series Connectors

The Flomax standard series connectors consist of four color-coded mating connectors. They have all-metal construction with stainless steel wear components and anodized aircraft grade aluminum non-wear components. Each has easily recognizable labeling and are fully compatible and interchangeable with industry standard.

## Engine Oil (red)


- Universally fits all crankcase receivers, both R-Series and Standard Series
- Incorporates 10 locking balls with a 40% deeper engagement
- Resistant to clogging with a greater ease of cleaning
- Larger diameter pullback lanyard
- Bright red anodized aluminum
- Smoother actuation


Nozzles	Male thread	Female thread	Description	Part #
	3/4" NPT	---	Engine nozzle ball lock	<b>ENBL</b>
	3/4" NPT	---	Engine nozzle ball lock with plug	<b>ENBL-P</b>
	---	---	Engine nozzle plug	<b>ENBL-PLUG</b>

Receivers	Male thread	Female thread	Description	Part #
	3/4" NPT	---	Engine receiver	<b>ERS</b>
	3/4" NPT	---	Engine receiver with cap	<b>ERS-C</b>
	---	---	Engine receiver cap	<b>ERS-CAP</b>

## Coolant Fluid (teal)

- Nickel-plated stainless steel nozzle nose and base
- Standard roll-pin locking mechanism
- Ergonomically engineered pullbacks and caps
- Bright teal anodized aluminum

Nozzles	Male thread	Female thread	Description	Part #
	1/2" NPT	---	Coolant nozzle ball lock	<b>CN</b>
	1/2" NPT	---	Coolant nozzle ball lock with plug	<b>CN-P</b>
	---	---	Coolant nozzle plug	<b>CN-PLUG</b>


Receivers	Male thread	Female thread	Description	Part #
	1/2" NPT	---	Coolant receiver	<b>CR-S</b>
	1/2" NPT	---	Coolant receiver with cap	<b>CR-C</b>
	---	---	Coolant receiver cap	<b>CR-CAP</b>




## Standard Series Connectors

### Hydraulic Oil (gold)


- Nickel-plated stainless steel wear components
- Ergonomically engineered pullbacks and caps
- 10 steel dog latching mechanism
- Bright gold anodized aircraft grade aluminum


Male thread	Female thread	Description	Part #	Nozzles
---	3/4" NPT	Hydraulic nozzle	<b>HN</b>	
---	3/4" NPT	Hydraulic nozzle with plug	<b>HN-P</b>	
---	---	Hydraulic nozzle plug	<b>HN-PLUG</b>	

Male thread	Female thread	Description	Part #	Receivers
3/4" NPT	---	Hydraulic receiver	<b>HR</b>	
3/4" NPT	---	Hydraulic receiver with cap	<b>HR-C</b>	
---	---	Hydraulic receiver cap	<b>HR-CAP</b>	

### Transmission Fluid (violet)

- Nickel-plated stainless steel nose and base
- Ergonomically engineered pullbacks and caps
- 6 steel dog latching mechanism
- Bright violet anodized aircraft grade aluminum

Male thread	Female thread	Description	Part #	Nozzles
1/2" NPT	—	Transmission nozzle	<b>TN</b>	
1/2" NPT	—	Transmission nozzle with plug	<b>TN-P</b>	
—	—	Transmission nozzle plug	<b>TN-PLUG</b>	


Male thread	Female thread	Description	Part #	Receivers
—	1/2" NPT	Transmission receiver	<b>TR</b>	
—	1/2" NPT	Transmission receiver with cap	<b>TR-C</b>	
—	—	Transmission receiver cap	<b>TR-CAP</b>	


# R Series Connectors

The Flomax R-series connectors are fully compatible and interchangeable with industry standard. They have all-metal construction using anodized aircraft grade aluminum non-wear components.

## Engine Oil (red)


- All metal construction
- Standard roll-pin locking mechanism
- Ergonomically engineered pullbacks and caps
- Bright red anodized aircraft grade aluminum


Nozzles	Male thread	Female thread	Description	Part #
	---	3/4" NPT	R-series engine nozzle	<b>R-EN</b>
	---	3/4" NPT	R-series engine nozzle with plug	<b>R-EN-P</b>
	---	---	R-series engine nozzle plug	<b>R-EN-PLUG</b>

Receivers	Male thread	Female thread	Description	Part #
	1.625-12 UN-2A	1.312-12 UN-2B	R-series engine receiver	<b>R-ER</b>
	1.625-12 UN-2A	1.312-12 UN-2B	R-series engine receiver with cap	<b>R-ER-C</b>
	---	---	R-series engine receiver cap	<b>R-ER-CAP</b>

## Coolant (teal)

- All metal construction
- Standard roll-pin locking mechanism
- Ergonomically engineered pullbacks and caps
- Bright teal anodized aircraft grade aluminum


Nozzles	Male thread	Female thread	Description	Part #
	---	1/2" NPT	R-series coolant nozzle	<b>R-CN</b>
	---	1/2" NPT	R-series coolant nozzle with plug	<b>R-CN-P</b>
	---	---	R-series coolant nozzle plug	<b>R-CN-PLUG</b>


Receivers	Male thread	Female thread	Description	Part #
	1.187-12 UN-2A	.875-14 UN-2B	R-series coolant receiver	<b>R-CR</b>
	1.187-12 UN-2A	.875-14 UN-2B	R-series coolant receiver with cap	<b>R-CR-C</b>
	---	---	R-series coolant receiver cap	<b>R-CR-CAP</b>

# R Series Connectors

## Hydraulic Oil (gold)


- All metal construction
- Standard roll-pin locking mechanism
- Ergonomically engineered pullbacks and caps
- Bright gold anodized aircraft grade aluminum


Male thread	Female thread	Description	Part #	Nozzles
—	1" NPT	R-series hydraulic nozzle	<b>R-HN</b>	
—	1" NPT	R-series hydraulic nozzle with plug	<b>R-HN-P</b>	
—	—	R-series hydraulic nozzle plug	<b>R-HN-PLUG</b>	

Male thread	Female thread	Description	Part #	Receivers
1.875-12 UN-2A	1.625-12 UN-2B	R-series hydraulic receiver	<b>R-HR</b>	
1.875-12 UN-2A	1.625-12 UN-2B	R-series hydraulic receiver with cap	<b>R-HR-C</b>	
—	—	R-series hydraulic receiver cap	<b>R-HR-CAP</b>	

## Transmission Fluid (violet)

- All metal construction
- Standard roll-pin locking mechanism
- Ergonomically engineered pullbacks and caps
- Bright violet anodized aircraft grade aluminum

Male thread	Female thread	Description	Part #	Nozzles
—	¾" NPT	R-series transmission nozzle	<b>R-TN</b>	
—	¾" NPT	R-series transmission nozzle with plug	<b>R-TN-P</b>	
—	—	R-series transmission nozzle plug	<b>R-TN-PLUG</b>	

Male thread	Female thread	Description	Part #	Receivers
1.312-12 UN-2A	1.062-12 UN-2B	R-series transmission receiver	<b>R-TR</b>	
1.312-12 UN-2A	1.062-12 UN-2B	R-series transmission receiver with cap	<b>R-TR-C</b>	
—	—	R-series transmission receiver cap	<b>R-TR-CAP</b>	

## Flomax High Flow Series



Consists of 7 nozzle and receiver sets that are color coded for quick identification of mating parts. Each color nozzle and receiver will only couple with their matching color component. This will provide complete protection against cross contamination.

Each of the 7 nozzles and 7 receivers has the following performance:

- The nozzle/receiver combination has a flow area equivalent to a 1" schedule 80 pipe.
- All wear parts are constructed of stainless steel for long life and corrosion resistance.
- All non-wear parts are constructed of teal colored anodized aircraft grade aluminum for high strength, light weight and corrosion resistance.
- The fittings have a 500 PSI working pressure rating with 1500 PSI minimum burst pressure
- The standard mounting for the nozzle is a 1" female NPT and for the receiver is a 1" male NPT. The receivers also come with a 1" female NPT threaded base.
- The nozzle incorporates a "ball lock" mechanism to ensure smooth and reliable operation.

Physical Description:

- nozzle length: 3.90" (99 mm)
- receiver length: 3.44" (87 mm)
- diameter: 2.50" (64 mm)
- hex size: 2" (51 mm)
- nozzle and receiver coupled length: 5.44" (138 mm)

Female thread	Description	Part #	Nozzles
1" NPT	Teal High Flow nozzle with plug	<b>HFN-P0</b>	
1" NPT	Red High Flow nozzle with plug	<b>HFN-P1</b>	
1" NPT	Gold High Flow nozzle with plug	<b>HFN-P2</b>	
1" NPT	Blue/Gray High Flow nozzle with plug	<b>HFN-P3</b>	
1" NPT	Violet High Flow nozzle with plug	<b>HFN-P4</b>	
1" NPT	Navy High Flow nozzle with plug	<b>HFN-P5</b>	
1" NPT	Copper High Flow nozzle with plug	<b>HFN-P6</b>	
Male thread	Description	Part #	Receivers
1" NPT	Teal High Flow receiver with cap	<b>HFR-C0</b>	
1" NPT	Red High Flow receiver with cap	<b>HFR-C1</b>	
1" NPT	Gold High Flow receiver with cap	<b>HFR-C2</b>	
1" NPT	Blue/Gray High Flow receiver with cap	<b>HFR-C3</b>	
1" NPT	Violet High Flow receiver with cap	<b>HFR-C4</b>	
1" NPT	Navy High Flow receiver with cap	<b>HFR-C5</b>	
1" NPT	Copper High Flow receiver with cap	<b>HFR-C6</b>	

## Flomax ENBL Series - 3/4"

Consists of 6 nozzle and receiver sets that are color coded for quick identification of mating parts. Each color nozzle and receiver will only couple with their matching color component. This will provide complete protection against cross contamination.

- Maximum flow rate of 45 gpm at 70 PSI
- Working pressure rating: **200 PSI**

### ENBL Nozzle with Plug

Female NPT	Color code	Part #	Nozzles
3/4"	Red	<b>ENBL-P1</b>	
	Gold	<b>ENBL-P2</b>	
	Teal	<b>ENBL-P3</b>	
	Violet	<b>ENBL-P4</b>	
	Navy	<b>ENBL-P5</b>	
	Copper	<b>ENBL-P6</b>	

### ENBL Receiver with Cap

Male NPT	Color code	Part #	Receivers
3/4"	Red	<b>ERS-C1</b>	
	Gold	<b>ERS-C2</b>	
	Teal	<b>ERS-C3</b>	
	Violet	<b>ERS-C4</b>	
	Navy	<b>ERS-C5</b>	
	Copper	<b>ERS-C6</b>	



*Photo courtesy of Volvo Construction Equipment*



*Photo courtesy of Terex*

## General Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the **Rubber Manufacturers Association** recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (1-800-355-1991) for advice on couplings, retention devices, and accessories for your application.

Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for fire protection, food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

## **Dixon Valve & Coupling Company**

800 High Street

Chestertown, MD 21620

Customer Service: 877.963.4966

Fax: 800.283.4966

**[www.dixonvalve.com](http://www.dixonvalve.com)**



The Right Connection™

Flomax

# Diesel Fuel Nozzles

*Designed for on-site refueling of construction, mining, forestry and agricultural equipment. Interchanges with Caterpillar® and Wiggins systems.*

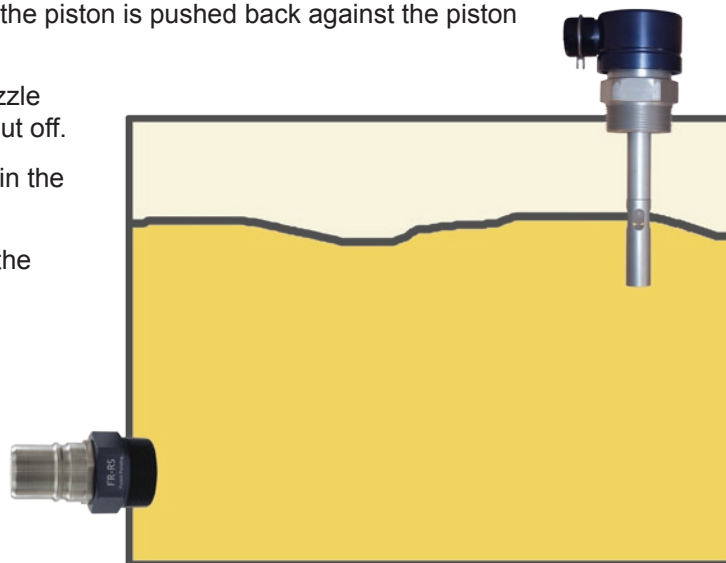
## Features

- Flomax fuel nozzles connect to all standard fuel receivers.
- Nozzles ship complete with a high flow ball bearing swivel with female 1½" NPT thread.
- lightweight: 6.6 lbs. with swivel
- felt seal to keep dirt out of locking mechanism
- heat treated stainless steel wear parts
- Patent pending piston assembly allows the cylinder to be easily removed for rebuilding.



## How It Works

- The diesel fuel tank has a vent at the top and a fuel receiver at the bottom.
- The tank is filled from the bottom to help prevent foaming.
- Attach the Flomax nozzle to the receiver and lift the actuator handle to the on or open position.
- As the fuel fills the tank from the bottom, air exits the top through the vent.
- When the fluid level reaches the vent tube, the hollow ball in the tube will float, pushing the solid ball up to close the vent and stop the air flow out of the tank.
- With no air venting out of the tank, pressure will build inside the tank.
- Pressure builds up in the tank reaching approximately 8 PSI in the tank and inside the nozzle.
- As pressure increases in the nozzle cylinder assembly, the piston is pushed back against the piston spring.
- When enough pressure pushes the piston back, the nozzle closes the opening for the fuel flow and the nozzle is shut off.
- Rotate the actuator handle the rest of the way to lock it in the off position.
- After the nozzle is shut off it can be disconnected from the receiver.





## FN600



Figure 1

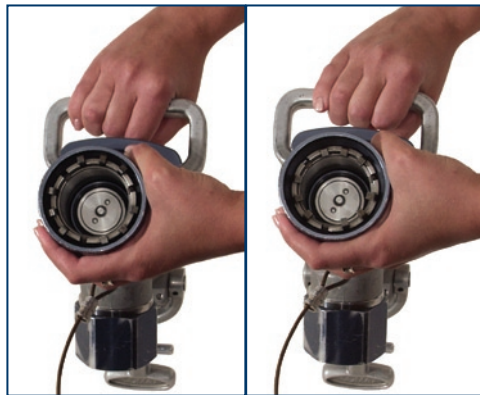


Figure 2A

Figure 2B



Figure 3



Figure 4

- With your palm on the handle and your fingers on the pullback handle, pull it towards you until the locking dogs lock in the OPEN position and the pullback handle locks in the OPEN position. [see figure 1](#)
- To check if it is opened, look to see if the dogs are locked open and are outside of the ID of the front assembly. [see figure 2A \(open\) figure 2B \(closed\)](#)
- After you have pushed the nozzle all the way on to the receiver so the front end is past the groove on the receiver, the pullback handle will snap forward, next lock the nozzle onto the receiver.
- Pull the nozzle back slightly to make sure it is properly connected to the receiver.
- Pull the latch back and rotate the actuator handle upwards. [see figure 3](#)
- To disconnect, rotate the actuator handle down until the latch snaps forward and locks it in the OFF position.
- Push forward on the nozzle to relieve pressure on the pullback handle and the dogs.
- With your palm on the handle and your fingers on the pullback handle, pull it towards you until the locking dogs lock in the OPEN position.
- Pull the nozzle off the receiver. [see figure 4](#)
- After you remove the nozzle from the receiver the pullback handle should remain locked in the OPEN position.

## FN600BL

- With your palm on the handle and your fingers on the pullback handle, pull it towards you and hold the pullback handle as you push the nozzle onto the receiver. [see figure 1](#)
- With the pullback handle in the OPEN position the locking balls should be retracted. [see figure 2](#)
- After you have pushed the nozzle all the way on to the receiver so the front end is past the groove on the receiver, let the pullback handle spring forward, pushing against some resistance the last  $\frac{1}{4}$ " inch past the groove on the receiver.
- If the pullback handle does not spring forward, then push the nose to within  $\frac{1}{4}$ " from the hex on the receiver so that the pullback handle will snap forward.
- Pull the nozzle back slightly to make sure it is properly connected to the receiver.
- Pull the latch back and rotate the actuator handle upwards. [see figure 3](#)
- To disconnect, rotate the actuator handle down until the latch snaps forward and locks it in the OFF position.
- Push forward on the nozzle to relieve pressure on the pullback handle and the locking balls.
- With your palm on the handle and your fingers on the pullback handle, pull it towards you and hold the pullback as you pull the nozzle off the receiver. [see figure 4](#)
- After you remove the nozzle from the receiver let the pullback handle return to its normal position.



Figure 1



Figure 2



Figure 3



Figure 4

## Product details

- 1½" female NPT
- integrated high flow swivel
- investment cast aluminum housing
- heat treated stainless steel wear components
- integrated sealing plug
- plug/bumper assembly gives complete nose seal
- anodized aluminum non-wear parts
- Delron® bushings eliminate metal-to-metal wear
- stainless steel dog latch mechanism and ball lock styles available
- tested to 180 gallons per minute

### Replacement Products available

#### *Nozzles*

Description	Part #
dog latch mechanism	<b>FN600</b>
ball lock style	<b>FN600BL</b>

#### *Sealing Plugs*

Description	Part #
for FN600	<b>FN600B-PLUG</b>
for FN600BL	<b>FN600B</b>



### Dixon Valve & Coupling Co.

800 High Street • Chestertown, MD 21620

ph 800.355.1991 • fx 800.283.4966

[www.dixonvalve.com](http://www.dixonvalve.com)

# Norgren Filters, Regulators and Lubricators



The Right Connection™

## Dixon - Norgren Cross Reference

### Filters

Dixon	Norgren
F07-100A	F07-100-A1TA
F07-100M	F07-100-M1TA
F07-200A	F07-200-A1TA
F07-200M	F07-200-M1TA
F17-600A	F17-600-A3DA
F17-600M	F17-600-M3DA
F17-800A	F17-800-A3DA
F17-800M	F17-800-M3DA
F17-A00A	F17-A00-A3DA
F17-A00M	F17-A00-M3DA
F17-B00A	F17-B00-A3DA
F17-B00M	F17-B00-M3DA
F18-C00A	F18-C00-A3DA
F18-C00M	F18-C00-M3DA
F22-405A-MB	F22-405-A2DA
F72G-2A	F72G2ANST3
F72G-2A-MB	F72G2ANSD3
F72G-2M	F72G2ANQT3
F72G-2M-MB	F72G2ANQD3
F72G-3A	F72G3ANST3
F72G-3A-MB	F72G3ANSD3
F72G-3M	F72G3ANQT3
F72G-3M-MB	F72G3ANQD3
F73G-2A	F73G2ANAT3
F73G-2A-MB	F73G2ANAD3
F73G-2M	F73G2ANQT3
F73G-2M-MB	F73G2ANQD3
F73G-3A	F73G3ANAT3
F73G-3A-MB	F73G3ANAD3
F73G-3M	F73G3ANQT3
F73G-3M-MB	F73G3ANQD3
F73G-4A	F73G4ANAT3
F73G-4A-MB	F73G4ANAD3
F73G-4M	F73G4ANQT3
F73G-4M-MB	F73G4ANQD3
F74C-3A-MB	F74C-3AD-AD0
F74C-4A-MB	F74C-4AD-AD0
F74G-3A	F74G-3AN-AP3
F74G-3A-MB	F74G-3AN-AD3
F74G-3M	F74G-3AN-QP3
F74G-3M-MB	F74G-3AN-QD3
F74G-4A	F74G-4AN-AP3
F74G-4A-MB	F74G-4AN-AD3
F74G-4M	F74G-4AN-QP3
F74G-4M-MB	F74G-4AN-QD3
F74G-6A	F74G-6AN-AP3
F74G-6A-MB	F74G-6AN-AD3
F74G-6M	F74G-6AN-QP3
F74G-6M-MB	F74G-6AN-QD3
F74H-4A-MB	F74H-4AD-AD0
F74H-6A-MB	F74H-6AD-AD0
F74V-3A-MB	F74V-3AN-EMA
F74V-4A-MB	F74V-4AN-EMA
F74V-6A-MB	F74V-6AN-EMA

### Regulators

Dixon	Norgren
R07-100R	R07-100-RNKA
R07-100RG	R07-100-RGKA
R07-200R	R07-200-RNKA
R07-200RG	R07-200-RGKA
R11-013RG	11-002-013
R11-037RG	11-002-037
R11-061RG	11-002-061
R17-600R	R17-600-RNLA
R17-600RG	R17-600-RGLA
R17-800R	R17-800-RNLA
R17-800RG	R17-800-RGLA
R17-A00R	R17-A00-RNLA
R17-A00RG	R17-A00-RGLA
R17-B00R	R17-B00-RNLA
R17-B00RG	R17-B00-RGLA
R18-C05R	R18-C05-RNLA
R18-C05RG	R18-C05-RGLA
R22-405R	R22-405-RNMA
R43-201RG	R43-201-NGLA
R43-301RG	R43-301-NGLA
R43-406RG	R43-406-NGLA
R72G-2R	R72G-2AK-RMN
R72G-2RG	R72G-2AK-RMG
R72G-3R	R72G-3AK-RMN
R72G-3RG	R72G-3AK-RMG
R72M-2RG	R72M-2AK-RMG
R72M-3RG	R72M-3AK-RMG
R72M-2R	R72M-2AK-RMN
R72M-3R	R72M-3AK-RMN
R73G-2R	R73G-2AK-RMN
R73G-2RG	R73G-2AK-RMG
R73G-3R	R73G-3AK-RMN
R73G-3RG	R73G-3AK-RMG
R73G-4R	R73G-4AK-RMN
R73G-4RG	R73G-4AK-RMG
R74G-3R	R74G-3AK-RMN
R74G-3RG	R74G-3AK-RMG
R74G-4R	R74G-4AK-RMN
R74G-4RG	R74G-4AK-RMG
R74G-6R	R74G-6AK-RMN
R74G-6RG	R74G-6AK-RMG
R83-200R	R83-200-RNLA
R91-221RG	R91W-2AK-NGLN

### Filter / Regulators

Dixon	Norgren
B07-102AG	B07-102-A1KA
B07-102MG	B07-102-M1KA
B07-202AG	B07-202-A1KA
B07-202MG	B07-202-M1KA
B12-218AG	B12-218-A3LA
B12-218MG	B12-218-M3LA
B72G-2AG	B72G-2AK-ST3-RMG
B72G-2AG-MB	B72G-2AK-SD3-RMG
B72G-2MG	B72G-2AK-QT3-RMG
B72G-2MG-MB	B72G-2AK-QD3-RMG
B72G-3AG	B72G-3AK-ST3-RMG
B72G-3AG-MB	B72G-3AK-SD3-RMG
B72G-3MG	B72G-3AK-QT3-RMG
B72G-3MG-MB	B72G-3AK-QD3-RMG
B73G-2AG	B73G-2AK-AT3-RMG
B73G-2AG-MB	B73G-2AK-AD3-RMG
B73G-2MG	B73G-2AK-QT3-RMG
B73G-2MG-MB	B73G-2AK-QD3-RMG
B73G-3AG	B73G-3AK-AT3-RMG
B73G-3AG-MB	B73G-3AK-AD3-RMG
B73G-3MG	B73G-3AK-QT3-RMG
B73G-3MG-MB	B73G-3AK-QD3-RMG
B73G-4AG	B73G-4AK-AT3-RMG
B73G-4AG-MB	B73G-4AK-AD3-RMG
B73G-4MG	B73G-4AK-QT3-RMG
B73G-4MG-MB	B73G-4AK-QD3-RMG
B74G-3AG	B74G-3AK-AP3-RMG
B74G-3AG-MB	B74G-3AK-AD3-RMG
B74G-3MG	B74G-3AK-QP3-RMG
B74G-3MG-MB	B74G-3AK-QD3-RMG
B74G-4AG	B74G-4AK-AP3-RMG
B74G-4AG-MB	B74G-4AK-AD3-RMG
B74G-4MG	B74G-4AK-QP3-RMG
B74G-4MG-MB	B74G-4AK-QD3-RMG
B74G-6AG	B74G-6AK-AP3-RMG
B74G-6AG-MB	B74G-6AK-AD3-RMG
B74G-6MG	B74G-6AK-QP3-RMG
B74G-6MG-MB	B74G-6AK-QD3-RMG

*SCFM ratings are at 100 PSI inlet pressure  
Line art measurements given in inches (mm).*



## Dixon - Norgren Cross Reference

## Lubricators - Micro-Fog

Dixon	Norgren
L07-100A	L07-100-MPAA
L07-200A	L07-200-MPAA
L17-600A	L17-600-MPDA
L17-800A	L17-800-MPDA
L17-A00A	L17-A00-MPDA
L17-B00A	L17-B00-MPDA
L17-600APX	L17-600MP-DA8N
L17-800APX	L17-800MP-A8N
L17-A00APX	L17-A00-MPDA8N
L17-B00APX	L17-B00-MPDA8N
L72M-2	L72M2AP-QTN
L72M-2MB	L72M2AP-QDN
L72M-3	L72M3AP-QTN
L72M-3MB	L72M3AP-QDN
L72M-2MBPX	L72M-2AP-DRP
L72M-3MBPX	L72M-3AP-DRP
L73M-2	L73M2APQTN
L73M-2MB	L73M2APQDN
L73M-3	L73M3APQTN
L73M-3MB	L73M3APQDN
L73M-4	L73M4APQTN
L73M-4MB	L73M4APQDN
L73M-2MBPX	L73M-2AP-DRP
L73M-3MBPX	L73M-3AP-DRP
L73M-4MBPX	L73M-4AP-DRP
L74M-3	L74M-3AP-QPN
L74M-3MB	L74M-3AP-QDN
L74M-4	L74M-4AP-QPN
L74M-4MB	L74M-4AP-QDN
L74M-6	L74M-6AP-QPN
L74M-6MB	L74M-6AP-QDN
L74M-3MBPX	L74M-3AP-DRP
L74M-4MBPX	L74M-4AP-DRP
L74M-6MBPX	L74M-6AP-DRP

## Dryers

Dixon	Norgren
W74D-2A-MB32	W74D-2AD-NMN
W74D-2A-MB7	W74D-2AN-NPN

## Lubricators - Oil-Fog

Dixon	Norgren
L17-600D	L17-600-OPDA
L17-800D	L17-800-OPDA
L17-A00D	L17-A00-OPDA
L17-B00D	L17-B00-OPDA
L22-405MB	L22-405-OPDA
L72C-2	L72C-2AP-QTN
L72C-2MB	L72C-2AP-QDN
L72C-3	L72C-3AP-QTN
L72C-3MB	L72C-3AP-QDN
L73C-2	L73C-2AP-QTN
L73C-2MB	L73C-2AP-QDN
L73C-3	L73C-3AP-QTN
L73C-3MB	L73C-3AP-QDN
L73C-4	L73C-4AP-QTN
L73C-4MB	L73C-4AP-QDN
L74C-3	L74C-3AP-QPN
L74C-3MB	L74C-3AP-QDN
L74C-4	L74C-4AP-QPN
L74C-4MB	L74C-4AP-QDN
L74C-6	L74C-6AP-QPN
L74C-6MB	L74C-6AP-QDN

## Combination Units

Dixon	Norgren
E72-2A	C72A-2AK-ST3-RMG-QTB
E72-2A-MB	C72A-2AK-SD3-RMG-QDB
E72-2M	C72A-2AK-QT3-RMG-QTB
E72-2M-MB	C72A-2AK-QD3-RMG-QDB
E72-3A	C72A-3AK-ST3-RMG-QTB
E72-3A-MB	C72A-3AK-SD3-RMG-QDB
E72-3M	C72A-3AK-QT3-RMG-QTB
E72-3M-MB	C72A-3AK-QD3-RMG-QDB
E73-2A	C73A-2AK-AT3-RMG-QTB
E73-2A-MB	C73A-2AK-AD3-RMG-QDB
E73-2M	C73A-2AK-QT3-RMG-QTB
E73-2M-MB	C73A-2AK-QD3-RMG-QDB
E73-3A	C73A-3AK-AT3-RMG-QTB
E73-3A-MB	C73A-3AK-AD3-RMG-QDB
E73-3M	C73A-3AK-QT3-RMG-QTB
E73-3M-MB	C73A-3AK-QD3-RMG-QDB
E73-4A	C73A-4AK-AT3-RMG-QTB
E73-4A-MB	C73A-4AK-AD3-RMG-QDB
E73-4M	C73A-4AK-QT3-RMG-QTB
E73-4M-MB	C73A-4AK-QD3-RMG-QDB
E74-3A	C74A-3AK-AT3-RMG-QPB
E74-3A-MB	C74A-3AK-AD3-RMG-QDB
E74-3M	C74A-3AK-QT3-RMG-QPB
E74-3M-MB	C74A-3AK-QD3-RMG-QDB
E74-4A	C74A-4AK-AT3-RMG-QPB
E74-4A-MB	C74A-4AK-AD3-RMG-QDB
E74-4M	C74A-4AK-QT3-RMG-QPB
E74-4M-MB	C74A-4AK-QD3-RMG-QDB
E74-6A	C74A-6AK-AT3-RMG-QPB
E74-6A-MB	C74A-6AK-AD3-RMG-QDB
E74-6M	C74A-6AK-QT3-RMG-QPB
E74-6M-MB	C74A-6AK-QD3-RMG-QDB
P1A-100A	P1A-100-A1AA
P1A-100M	P1A-100-M1AA
P1A-200A	P1A-200-A1AA
P1A-200M	P1A-200-M1AA
P8A-660A	P8A-660-A3DA
P8A-660M	P8A-660-M3DA
P8A-860A	P8A-860-A3DA
P8A-860M	P8A-860-M3DA
PTH-100AG	PTH-100-A1AA
PTH-200AG	PTH-200-A1AA

## Safety Statement

Dixon's couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling, and retention devices; and the proper application of the coupling to the hose are of utmost importance. Users must consider the size, temperature, application, media, pressure, and hose and coupling manufacturer's recommendations when selecting the proper hose assembly components. Dixon recommends that all hose assemblies be tested in accordance with the Rubber Manufacturers Association's recommendations and be inspected regularly (before each use), to ensure that they are not damaged or have become loose.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices, such as safety clips and King Cable safety cables, are recommended. If any problem is detected, couplings must be removed from service immediately.

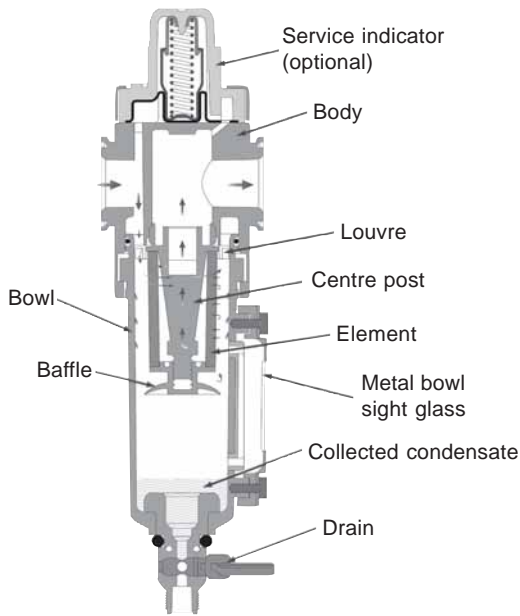
Dixon is always available for consultation concerning the couplings and accessories we sell. We will suggest the appropriate fittings, test those applications when necessary, and train distributors in assembly procedures. We strongly recommend that distributors and end users make use of these services. Dixon can be contacted at 877.963.4966.

# Filters

## General Overview

Three main types of filters exist: The *general purpose filter* for water and particles, the *coalescing oil removal filter* for oil aerosols and the *activated carbon filter* for the removal of oil vapors. The general purpose filter is used for most filter applications and is available from 1/8" to 2" pipe sizes. Uses are main headers, branch lines, tools, cylinders, valves and valve circuits, air agitators etc. Oil removal filters are used where very clean, oil-free air is required, such as for the supply to instrumentation, air gauging equipment and air bearings. Activated carbon filters are used for systems where the oil vapors in the air are not acceptable; such as instrumentation and paint spraying.

### General Purpose Filter



### How Do General Purpose Filters Work?

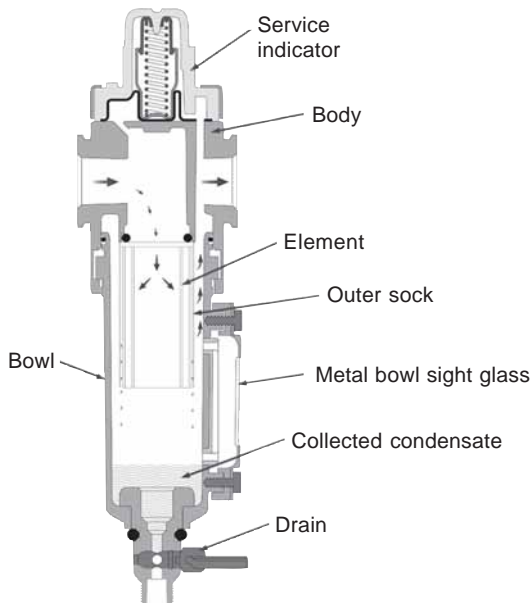
The dirt and moisture-laden air enters the inlet port and is directed into the louvres which centrifugally separate the entrapped liquids and dirt which fall to the bottom of the bowl. Near the bottom of the bowl a baffle creates a quiet zone, preventing the turbulent air re-entrapping the contaminants. The air, now free of water droplets and large dirt particles, passes through the filter element which removes small dirt particles.

### How Do Oil Removal Filters Work?

The fine oil mist is coalesced (merged) as it passes through the fine fibrous filtration media. These oil droplets are collected in the outer sock and then drop from the element to the bottom of the bowl for easy removal.

Where a coalescing filter is being used for oil removal, the element quickly becomes saturated which is clearly visible on the outer sock. This is the normal operating condition for oil removal.

### Coalescing Filter



### How do Vapor Removal Filters Work?

Carbon filters are used to remove oil vapors (odors). The activated carbon has a porous structure which results in a large surface area. The oil vapors are attracted and adhere to this surface. There is usually a small sintered medium included in an activated carbon element to prevent the carbon particles from migrating downstream. The carbon filter reduces the maximum oil content of air leaving the filter to 0.003 ppm at 70°F, for example to ISO 8573 class 1.7.1.

### Why use a Pre-Filter?

A pre-filter is simply a general purpose filter placed upstream of a higher grade filter to remove the majority of the water and larger particle contaminants and thus lengthen the life of the higher grade filter element. A 5 micron pre-filter should always be used ahead of an oil or vapor removal filter.



## Simple Filter Troubleshooting

Malfunction	Possible Cause	Remedy
Excessive pressure drop	Micron rating of element too small	Use larger micron element size for application.
	Filter element blocked	1. Clean element (not coalescing element). 2. Replace with new element.
	Flow requirement greater than filter capacity.	Use larger filter
Dirt passing through filter	Element seals missing or defective (N.B. seals not required on some units).	1. Replace seal 2. Tighten element
	Damaged element	Replace element
Water passing through filter	Water level in bowl above baffle	Drain water
	Flow capacity of filter exceeded	Maintain flow within capacity of filter or change to filter capable of handling desired flows.
Crazing of Polycarbonate bowl or milky appearance	Bowl has been cleaned with incompatible fluid	Replace bowl (Clean only with clean warm water and soap.)
	Bowl is being used in an area containing fumes or vapors incompatible with polycarbonate.	Replace bowl Eliminate source of problem or convert from plastic to metal bowls.
	Compressor oil vapor may be causing problem	Replace bowl Eliminate source of problem or convert from plastic to metal bowls.
	Air intake to compressor may contain fumes or vapor incompatible with polycarbonate.	Replace bowl Eliminate source of problem or convert from plastic to metal bowls.
Water beyond the filter	Inlet air has a high temperature and as it cools downstream, moisture condenses to water.	Fit dryer, pre-cool air or fit filter immediately prior to application.

# Regulators

## General Overview

Regulators ideally provide a constant outlet pressure independent of variations in inlet pressure or flow.

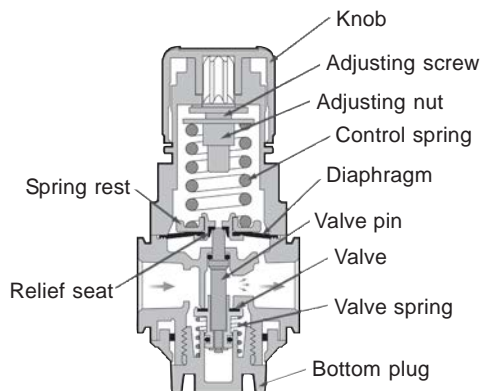
Regulators are typically used to:

- a) reduce pressure to the level required for downstream equipment
- b) limit the force of cylinders
- c) minimize pressure variation at the point of use

The range of different regulators and options within each type are wide and varied, but each can broadly be put into one of 3 categories.

- general purpose regulators
- pilot operated regulators
- application specific regulators

### General Purpose Regulator



### General Purpose Regulators:

General purpose regulators are designed to give the maximum flow capacity (for their size) while maintaining, to a reasonable accuracy, the outlet pressure to the set level. They are used to control pressures in compressed air line installations to different parts of machines or to pneumatic tools and motors. General purpose regulators are available in relieving or non-relieving types. Relieving regulators can be adjusted from a high pressure to a low pressure. Even in a dead end situation relieving regulators will allow the excess downstream pressure to be exhausted. This causes a loud hissing sound which is perfectly normal. Non-relieving regulators when similarly adjusted will not allow the downstream pressure to escape. The trapped air will need to be released in some other way, for example by operating a downstream valve. General purpose regulators have a control spring which acts on a diaphragm to regulate the air pressure. The rating of this control spring determines the adjustment range of the regulator. The outlet pressure setting is obtained by turning the knob (or T handle) clockwise to increase pressure, counter clockwise to decrease pressure.

## Simple Regulator Troubleshooting

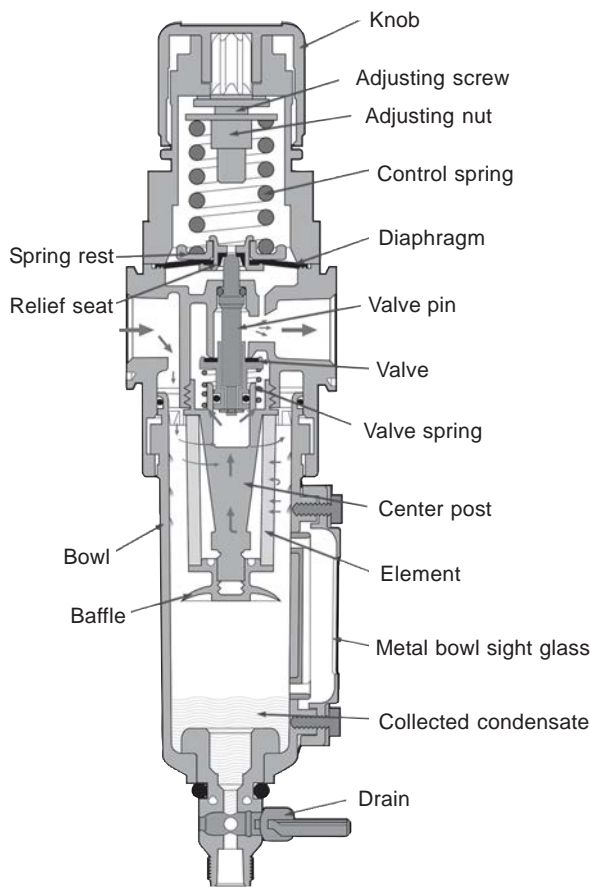
<b>Problem</b>	<b>Problem cause</b>	<b>Remedy</b>
Regulator creep (increase in secondary pressure due to leak from primary)	Dirty or cut valve elastomers. Nick in valve seat.	Replace or clean valve. If body or valve seat is damaged it can be replaced on some models. On others replacement of complete regulator is required.
Won't relieve secondary pressure	Non-relieving diaphragm assembly.	If this feature is required, replace with relieving type diaphragm assembly.
Won't reach desired pressure	Regulating spring with low spring rate.	Use regulating spring with spring rate designed to cover desired range.
Excessive leak from relief hole	Damaged relief seat. Ruptured diaphragm.	Replace diaphragm assembly
	Leakage past valve causing secondary to increase somewhat and open relief seat.	Replace or clean valve
Regulator chatter	A resonant condition is generally only encountered under a certain set of conditions of flow and pressure and then only in some applications in which regulator couples with other system components.	Replace spring with a higher pressure range spring.  Replace with a piston type regulator since they have less tendency to chatter.
Regulator difficult to adjust	Adjusting screw or knob locking device in locked position.	Pull to unlock knob and adjust; push knob to lock.  Threaded adjusting screws: loosen lock nut, remove adjusting screw, clean thread and lubricate.
	Contaminants in adjusting screw threads.	Place some lubricant on tip of screw.

# Filter/Regulator General Overview

Filter/regulators combine the features of a filter and regulator with a single compact body. Air passes through the filter section first removing water and particle contaminants, and is then regulated by the top regulator section.

See individual filter and regulator sections for details.

## General Purpose Filter/Regulator



### **Performance characteristics:**

The regulator section of the filter/regulator determines the flow and regulation characteristics of the unit.

Flow is therefore measured in terms of pressure drop from set pressure (see regulators) and not flow versus pressure drop as in a filter.

Regulation characteristics are determined in the same way as regulators.

## Lubricator General Overview

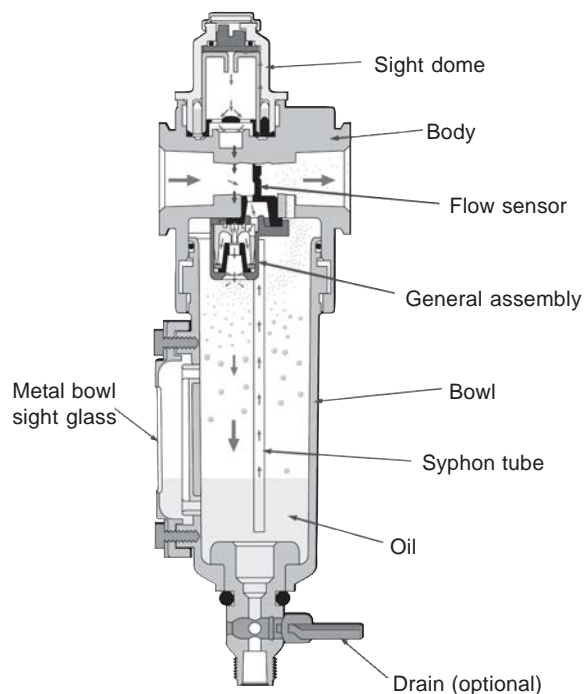
Dixon offers two main types of lubricators: Micro-Fog and Oil-Fog.

These units are mounted directly into the pipe and add small amounts of oil to the air flowing through them.

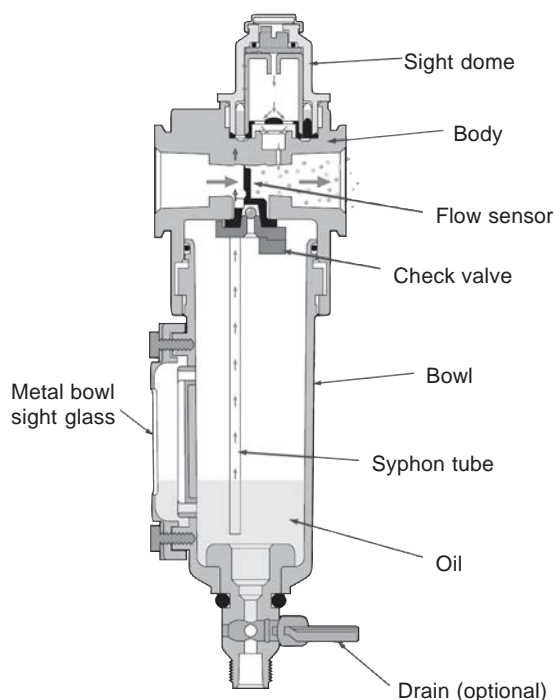
### *Micro-Fog Lubricators:*

The oil droplets seen in the sight dome are atomized and collected in the area above the oil in the bowl. The smaller lighter particles are drawn into the air flow and pass downstream. As a result typically only 10% of the oil seen as drops in the sight dome is passed downstream. The remainder falls back into the oil reservoir. Consequently, drip rate settings are somewhat higher than their oil-fog equivalent. This makes setting much easier, particularly in low flow applications. The fine micro-fog oil particles can travel long distances through complex pipe work making micro-fog lubricators suitable for multiple valve and cylinder circuits.

### Micro-Fog Lubricator



### Oil-Fog Lubricator



### *Oil Fog-Lubricators:*

All the oil droplets seen in the sight dome are added directly into the air flow. This results in relatively large oil droplets passing downstream, suitable for heavy lubrication applications, for example single cylinders and tools. Most competitive in line lubricators are of the oil-fog type.

# What Are The Differences Between Micro-Fog and Oil-Fog?

## **Micro-Fog:**

- Small oil particles; less than 2 micron
- Only 10% of 'drip rate' is delivered downstream as active lubricant (remainder is returned to main oil reservoir)
- High drip rates make drip setting easier in low flow applications
- Can be mounted above or below the point of application
- Cannot be filled without shutting off upstream air (unless a quick fill cap or remote fill device is used)
- For use with lengthy air lines, multiple valve and cylinder circuits
- Has a flow sensor to provide an almost constant oil output density for varying flows

## **Oil-Fog:**

- Large oil particles not as fine as micro-fog
- All oil drips seen in sight domes are delivered downstream.
- For applications over short distances
- Should be mounted at same level or higher than device being lubricated
- Standard bowls can be filled under pressure (not on rapid cycle units)
- Suitable for heavy lubrication applications, for example single large cylinders and tools
- Has a flow sensor which provides constant oil output density for varying flows

## **Can Oil-Fog and Micro-Fog Units be Converted?**

Generally not, simply changing a green (oil-fog) sight dome for a red (micro-fog) sight dome does not change the function. Some lubricators are designed around a cartridge insert. In this case it may be possible to swap the cartridge and sight domes to change the function.

## Setting Lubricator Drip Rates

### **What is the Correct Drip Rate Setting?**

The drip rate will depend on the application, the amount of lubrication required, the flow through the lubricator and the lubricator type. In micro-fog lubricators only 10% of the droplets in the sight dome are carried downstream. The drip rate in micro-fog lubricators therefore tends to be much higher. The following table can be used to estimate drip rate for required flow. This is very much a rule of thumb. In practice it is necessary to fine tune the oil drip rate in each application.

Typical Drip Rate per minute micro-fog	Typical Drip Rate per minute oil-fog	Approximate flow scfm (dm <sup>3</sup> /s)
20	2	10 (5)
40	4	20 (10)
60	6	30 (15)
80	8	40 (20)
100	10	50 (25)
120	12	60 (30)

### **Can the Drip Rate be Shut Off?**

In lubricators with needle valve type sight dome, yes. Some Norgren sight domes use a felt pad which is soaked in oil at the point where the drops are formed. With this type of sight dome the oil droplets cease once the felt pad dries out. With the new style dome (L72/73/74 and L07) complete shut off is not possible. Minimum adjustment for the drip rate is around 1 drop per minute.



## Filling Methods

### Micro-Fog:

The standard micro-fog unit can only be filled without isolating the upstream pressure if a remote fill or quick fill nipple accessory is fitted. To remove the fill plug of a micro-fog lubricator while under pressure can be dangerous. If in doubt shut off the upstream air!

### Oil-Fog:

The standard oil-fog lubricators can be filled under pressure, for example without switching off the upstream air. When a fill plug is removed a check valve in the lubricator body isolates the inlet pressure from the bowl and the reservoir will depressurize. The lubricator can then be filled with oil. When the fill plug is replaced, the reservoir will repressurize.

## Simple Lubricator Troubleshooting

Problem	Possible cause	Remedy
No Drip Rate	Oil adjustment knob fully clockwise	Readjust knob.
	Low oil level	Check oil level.
	Airflow through lubricator too low	Use smaller size lubricator.  Remove bowl and sight feed adjustment dome and clear syphon tube.
	Blocked oil filter screen	Remove sight feed adjustment dome and clean or replace screen located in dome assembly.
	Air leaks	Check bowl, filler plug and sight dome seals. Tighten if necessary.
Oil Foaming	Over aeration	Check bowl seals for slight leaks.
Oil Emulsified	Water in lubricator	Fit filter immediately upstream.
Drip Rate changes after setting	Fade	Readjust drip rate.

## Avoid Lubricator Problems

### Use an Approved Air Tool Oil

Use any petroleum-base, non-detergent light weight oil (SAE 10/150SSU) which will readily break up into a mist, i.e., Mobil DTE light or comparable oil. Do not use any synthetic oil or oils containing additives or solvents.

Dixon offers a specially formulated high grade lubricant that prolongs the service life of air tools, cylinders and accessories while permitting maximum performance. It is available in one pint (**DAT016**), and one gallon (**DAT128**) size containers. See the current Dixon Price List for more information.



Dixon offers the Series I line of Miniature Filters, Filter/Regulators, Regulators and Lubricators in prepackaged clear plastic units suitable for hanging on store peg racks or displays. The primary features of each unit are printed on the packaging. Each package contains 1 Miniature Filter, Filter/Regulator, Regulator or Lubricator and instruction sheet.

**Carded Mini Filters**



Automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>F07-200AC</b>	21	1/4"	<b>F07-200MC</b>	21

- **1 oz. reservoir**
- Transparent bowls
- 5-micron element standard
- Inlet pressure **150 PSI** maximum

**Carded Mini Regulators**



with Gauge		
Size	Part #	SCFM
1/4"	<b>R07-200RGC</b>	20

- Relieving Type
- Adjustable **5-100 PSIG**
- Regulation at flows up to 22 scfm at **100 PSIG**
- Inlet pressure **250 PSI** maximum
- Supplied with a GC620 gauge

**Carded Mini Filter/Regulators**



Automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>B07-202AGC</b>	21	1/4"	<b>B07-202MGC</b>	21

- **1 oz. reservoir**
- **5-100 PSIG** adjustable range
- Relieving type diaphragm
- Transparent bowl (guard not available)
- 5-micron filter element
- Push to lock adjusting knob
- Supplied with a GC620 gauge

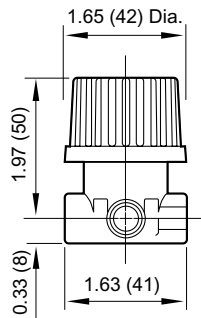
**Carded Mini Lubricators**



with Gauge		
Size	Part #	SCFM
1/4"	<b>L07-200AC</b>	14

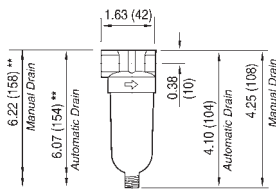
- Transparent bowl
- **1 oz. reservoir** with drain standard
- Inlet pressure **150 PSI** maximum

## Miniature Non-Repairable General Purpose Regulators



with Gauge			without Gauge		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>R46-200RG</b>	13	1/4"	<b>R46-200R</b>	13

- Relieving piston design allows reduction of downstream pressure when the system is dead-ended.
- Left to right flow
- Supplied with a GC620 gauge
- 5 to 125 PSIG outlet pressure adjustment range
- Compact design and lightweight construction
- Wrench flats for easy installation

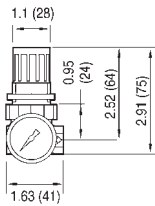


\*\* minimum clearance required to remove bowl

Automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
1/8"	<b>F07-100A</b>	18	1/8"	<b>F07-100M</b>	18
1/4"	<b>F07-200A</b>	21	1/4"	<b>F07-200M</b>	21

- Transparent bowls
- 5-micron element standard
- 1 oz. reservoir
- Inlet pressure **150 PSI** maximum

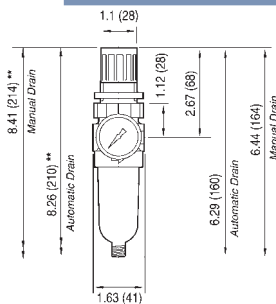
### Mini Filters



with Gauge			without Gauge		
Size	Part #	SCFM	Size	Part #	SCFM
1/8"	<b>R07-100RG</b>	22	1/8"	<b>R07-100R</b>	22
1/4"	<b>R07-200RG</b>	22	1/4"	<b>R07-200R</b>	22

- Relieving Type
- Supplied with a GC620 gauge
- 5-100 PSIG adjustable range
- Inlet pressure **300 PSI** maximum

### Mini Regulators

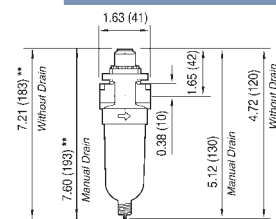


\*\* minimum clearance required to remove bowl

Automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
1/8"	<b>B07-102AG</b>	18	1/8"	<b>B07-102MG</b>	18
1/4"	<b>B07-202AG</b>	21	1/4"	<b>B07-202MG</b>	21

- 5-100 PSIG adjustable range
- Relieving type diaphragm
- Transparent bowl (guard not available)
- 5-micron filter element
- Push to lock adjusting knob
- 1 oz. reservoir
- Inlet pressure **150 PSI** maximum
- Supplied with a GC620 gauge

### Mini Filter/Regulators



\*\* minimum clearance required to remove bowl

Size	Part #	SCFM
1/8"	<b>L07-100A</b>	14
1/4"	<b>L07-200A</b>	14

- Transparent bowl
- 1 oz. reservoir with drain standard
- Inlet pressure **150 PSI** maximum

### Mini Lubricators



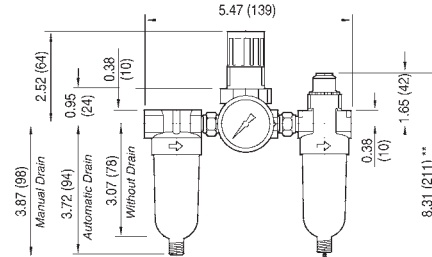
## Mini Combination Units

(Filter, Regulator, Lubricator)



Automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
1/8"	<b>P1A-100A</b>	10	1/8"	<b>P1A-100M</b>	10
1/4"	<b>P1A-200A</b>	10	1/4"	<b>P1A-200M</b>	10

- 5-125 PSIG adjustable range
- 1 oz. reservoir
- Inlet pressure 150 PSI maximum
- Supplied with a GC620 gauge



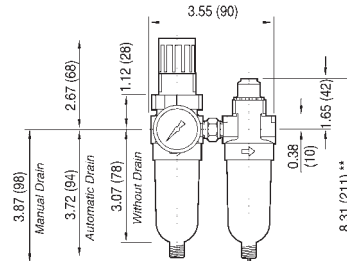
\*\* minimum clearance required to remove bowl

## Micro Mate Combination Units



Size	Part #	SCFM
1/8"	<b>PTH-100AG</b>	10
1/4"	<b>PTH-200AG</b>	10

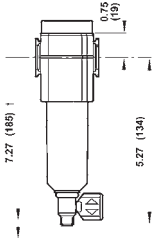
- Automatic drain on filter
- Requires only 2 pipe connections.
- 5-125 PSIG adjustable range
- Inlet pressure 150 PSI maximum



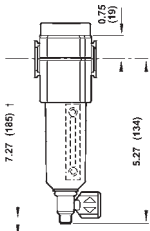
\*\* minimum clearance required to remove bowl

### Airline Filters

Dixon FRL's are rugged and long lasting units for compressed air service, or water or gas service *if indicated*. Units may be purchased assembled or individually. Please consult Dixon for special service on these and all hose fittings.



† Minimum clearance required to remove bowl.



† Minimum clearance required to remove bowl.

#### 1/4" Basic - Transparent Bowl

Semi-automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>F72G-2A</b>	55	1/4"	<b>F72G-2M</b>	55
3/8"	<b>F72G-3A</b>	55	3/8"	<b>F72G-3M</b>	55

#### 1/4" Basic - Metal Bowl with Sight Glass

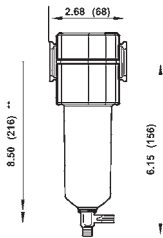
Semi-automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>F72G-2A-MB</b>	55	1/4"	<b>F72G-2M-MB</b>	55
3/8"	<b>F72G-3A-MB</b>	55	3/8"	<b>F72G-3M-MB</b>	55

- 2 oz. reservoir
- Quick-release bayonet bowl
- Prismatic lens liquid level indicator
- 40-Micron filter element standard
- Particle removal per ISO 8573-1, Class 5 and Class 3
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI** maximum

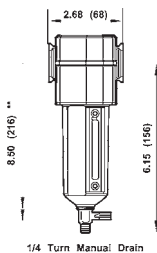


#### 3/8" Basic - Transparent Bowl

Semi-automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>F73G-2A</b>	53	1/4"	<b>F73G-2M</b>	53
3/8"	<b>F73G-3A</b>	65	3/8"	<b>F73G-3M</b>	65
1/2"	<b>F73G-4A</b>	69	1/2"	<b>F73G-4M</b>	69



\*\* Minimum clearance required to remove bowl.



\*\* Minimum clearance required to remove bowl.

#### 3/8" Basic - Metal Bowl with Sight Glass

Semi-automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>F73G-2A-MB</b>	53	1/4"	<b>F73G-2M-MB</b>	53
3/8"	<b>F73G-3A-MB</b>	65	3/8"	<b>F73G-3M-MB</b>	65
1/2"	<b>F73G-4A-MB</b>	69	1/2"	<b>F73G-4M-MB</b>	69

- 4 oz. reservoir
- Quick-release bayonet bowl
- Prismatic lens liquid level indicator
- 40-Micron filter element standard
- Particle removal per ISO 8573-1, Class 5 and Class 3
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI** maximum



Airline Filters

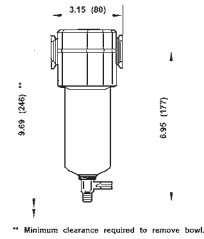


1/2" Basic - Transparent Bowl with Guard

Semi-automatic Drain

Manual Drain

Size	Part #	SCFM	Size	Part #	SCFM
3/8"	<b>F74G-3A</b>	112	3/8"	<b>F74G-3M</b>	112
1/2"	<b>F74G-4A</b>	140	1/2"	<b>F74G-4M</b>	140
3/4"	<b>F74G-6A</b>	140	3/4"	<b>F74G-6M</b>	140

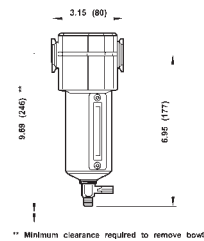


1/2" Basic - Metal Bowl with Sight Glass

Semi-automatic Drain

Manual Drain

Size	Part #	SCFM	Size	Part #	SCFM
3/8"	<b>F74G-3A-MB</b>	112	3/8"	<b>F74G-3M-MB</b>	112
1/2"	<b>F74G-4A-MB</b>	140	1/2"	<b>F74G-4M-MB</b>	140
3/4"	<b>F74G-6A-MB</b>	140	3/4"	<b>F74G-6M-MB</b>	140



- 7 oz. reservoir
- Quick-release bayonet bowl
- Prismatic lens liquid level indicator
- 40-Micron filter element standard
- Particle removal per ISO 8573-1, Class 5 and Class 3
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI** maximum

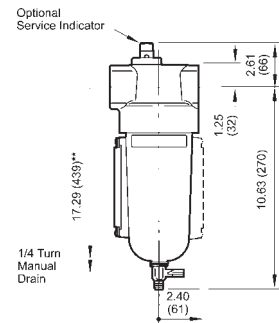


1" Basic - Metal Bowl with Sight Glass

Semi-automatic Drain

Manual Drain

Size	Part #	SCFM	Size	Part #	SCFM
3/4"	<b>F17-600A</b>	325	3/4"	<b>F17-600M</b>	325
1"	<b>F17-800A</b>	425	1"	<b>F17-800M</b>	425
1-1/4"	<b>F17-A00A</b>	425	1-1/4"	<b>F17-A00M</b>	425
1-1/2"	<b>F17-B00A</b>	425	1-1/2"	<b>F17-B00M</b>	425



- 1 qt. reservoir
- General purpose with low pressure drop and excellent water removal characteristics.
- Metal bowl with sight glass
- 50-Micron element standard
- Inlet pressure is **250 PSI** maximum

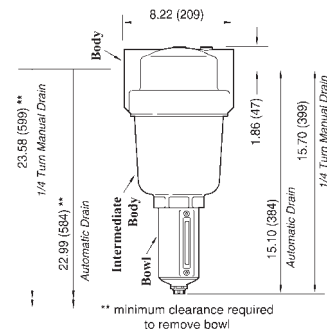


2" Basic - Metal Bowl with Sight Glass

Semi-automatic Drain

Manual Drain

Size	Part #	SCFM	Size	Part #	SCFM
2"	<b>F18-C00A</b>	1400	2"	<b>F18-C00M</b>	1400

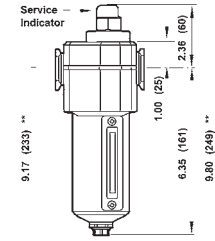


- 2 gal. metal bowl with sight glass
- 50-micron element standard
- Inlet pressure is **250 PSI** maximum

## Oil Removal (coalescing) Filters

### 1/2" Basic, Standard Flow - Metal Bowl

Automatic Drain



\*\* Minimum clearance required to remove bowl.

Size	Part #	SCFM	
		Saturated Element	Dry Element
3/8"	<b>F74C-3A-MB</b>	35	70
1/2"	<b>F74C-4A-MB</b>	35	75

### 1/2" Basic, High Flow - Metal Bowl

Automatic Drain

Size	Part #	SCFM	
		Saturated Element	Dry Element
1/2"	<b>F74H-4A-MB</b>	60	100
3/4"	<b>F74H-6A-MB</b>	60	120

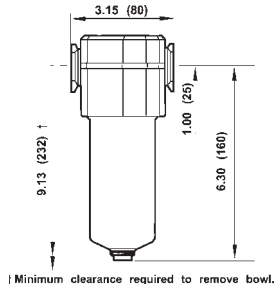


- In-line or modular installation
- Quick-release bayonet metal bowl
- Prismatic liquid level indicator
- F74C and F74H provide *Air Quality Class 2 Hydrocarbon and Class 1 Particulate Removal* per ISO 8573-1
- Element removes particles down to 0.01mm. Maximum remaining oil content of air leaving the filter is 0.01 ppm at **70°F (21°C)** with an inlet concentration of 8 ppm.
- Service life indicator turns from green to red when element needs to be replaced.

*For maximum service life install a general purpose filter upstream of the oil removal filter.*

## Oil Vapor Removal Filters

### 1/2" Basic - Metal Bowl



† Minimum clearance required to remove bowl.

Size	Part #	SCFM
3/8"	<b>F74V-3A-MB</b>	21
1/2"	<b>F74V-4A-MB</b>	21
3/4"	<b>F74V-6A-MB</b>	21



- In-line or modular installation
- Quick-release bayonet metal bowl
- Activated carbon cartridge filter element absorbs oil vapors and removes most hydrocarbon odors
- Filter and element designs optimizes air velocity and contact time to reduce oil content of air leaving the filter to 0.003 ppm at **70°F (21°C)**.
- Long service life of carbon cartridge element
- Minimum service life of 400 hours can be expected if the vapor removal filter is protected upstream by an oil removal (coalescing) filter and if the filtration temperature is in the region of **70° to 80°F (21° to 26°C)**. Above this range, oil vapor content of compressed air increases substantially and element service life is reduced.
- F74C and F74V combinations provide *Air Quality Class 1 Particulate Removal* per ISO 8573-1, Class 1.-.1

*For maximum service life install a general purpose filter upstream of the oil removal filter.*



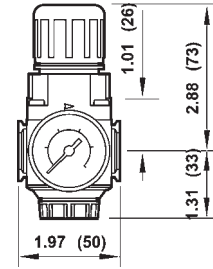
## Regulators

### 1/4" Basic



with Gauge			without Gauge		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>R72G-2RG</b>	70	1/4"	<b>R72G-2R</b>	70
3/8"	<b>R72G-3RG</b>	70	3/8"	<b>R72G-3R</b>	70

- Adjustable **5-150 PSI**
- Inlet pressure **300 PSI** maximum
- Supplied with a GC620 gauge
- In-line or modular installation
- Two 1/8" full-flow gauge ports
- Relieving type

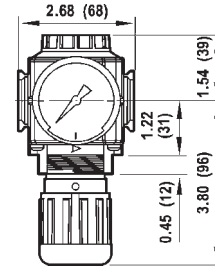


### 3/8" Basic



with Gauge			without Gauge		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>R73G-2RG</b>	91	1/4"	<b>R73G-2R</b>	91
3/8"	<b>R73G-3RG</b>	144	3/8"	<b>R73G-3R</b>	144
1/2"	<b>R73G-4RG</b>	144	1/2"	<b>R73G-4R</b>	144

- Adjustable **5-150 PSI**
- Inlet pressure **300 PSI** maximum
- Supplied with a GC230 gauge
- In-line or modular installation
- Two 1/4" full-flow gauge ports
- Relieving type

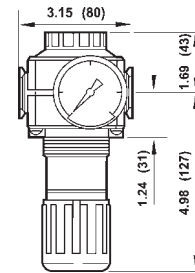


### 1/2" Basic



with Gauge			without Gauge		
Size	Part #	SCFM	Size	Part #	SCFM
3/8"	<b>R74G-3RG</b>	208	3/8"	<b>R74G-3R</b>	208
1/2"	<b>R74G-4RG</b>	220	1/2"	<b>R74G-4R</b>	220
3/4"	<b>R74G-6RG</b>	220	3/4"	<b>R74G-6R</b>	220

- Adjustable **5-150 PSI**
- Inlet pressure **300 PSI** maximum
- Supplied with a GC230 gauge
- In-line or modular installation
- Two 1/4" full-flow gauge ports
- Relieving type



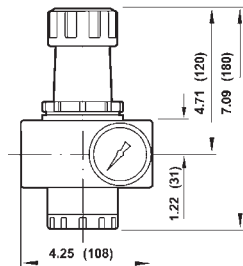
For 0-60 PSI range R72, R73 or R74 unit, add a L to the end of the part number.

### 1" Basic



with Gauge			without Gauge		
Size	Part #	SCFM	Size	Part #	SCFM
3/4"	<b>R17-600RG</b>	440	3/4"	<b>R17-600R</b>	440
1"	<b>R17-800RG</b>	480	1"	<b>R17-800R</b>	480
1 1/4"	<b>R17-A00RG</b>	400	1 1/4"	<b>R17-A00R</b>	400
1 1/2"	<b>R17-B00RG</b>	440	1 1/2"	<b>R17-B00R</b>	440

- Adjustable **5-125 PSI**
- Inlet pressure **300 PSI** maximum
- Supplied with a GC230 gauge
- Two 1/4" high flow capacity full-flow gauge ports
- Relieving type

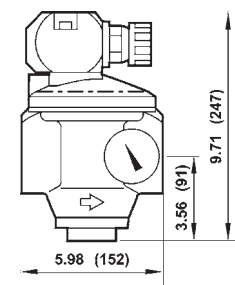


### 2" Basic

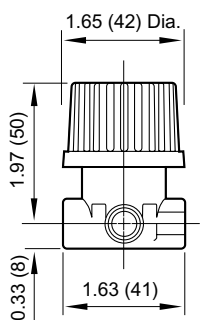


with Gauge			without Gauge		
Size	Part #	SCFM	Size	Part #	SCFM
2"	<b>R18-C05RG</b>	2000	2"	<b>R18-C05R</b>	2000

- Adjustable **5-125 PSI**
- Inlet pressure **450 PSI** maximum
- Supplied with a GC230 gauge
- Two 1/4" high flow capacity full-flow gauge ports
- Relieving type



### Miniature Non-Repairable General Purpose Regulators



with Gauge			without Gauge		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>R46-200RG</b>	13	1/4"	<b>R46-200R</b>	13

- Relieving piston design allows reduction of downstream pressure when the system is dead-ended.
- Left to right flow
- Supplied with a GC620 gauge
- 5 to 125 PSIG outlet pressure adjustment range
- Compact design and lightweight construction
- Wrench flats for easy installation



### General Regulators

Floating valve pin provides positive seating and dependability. Large diaphragm provides quick response to flow demands and line pressure changes. Balanced valve reduces inlet pressure variations on outlet pressure.

- T-handle adjustment standard
- Adjustable **5-125 PSI**
- Inlet pressure **400 PSI** maximum
- Supplied with a GC620 gauge

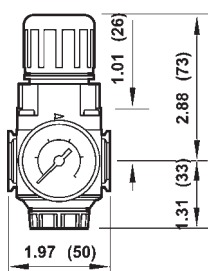
with Gauge		
Size	Part #	SCFM
1/4"	<b>R11-013RG</b>	110
3/8"	<b>R11-037RG</b>	110
1/2"	<b>R11-061RG</b>	260



### Manifold Regulators

Manifold up to six regulators on a single air supply. Design allows in-line installation with hex nipple or modular installation with 72 Series accessories (see pages 34-35).

#### 1/4" Basic



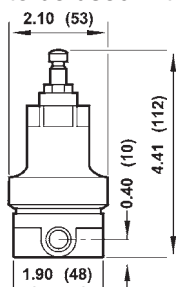
with Gauge			without Gauge		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>R72M-2RG</b>	83	1/4"	<b>R72M-2R</b>	83
3/8"	<b>R72M-3RG</b>	83	3/8"	<b>R72M-3R</b>	83

- Adjustable **5-150 PSI**
- Inlet pressure **300 PSI** maximum
- Supplied with a GC620 gauge



### Cylinder Gas Regulator

UL listed for service with Carbon Dioxide, water, pumped air, Nitrogen, Argon, Helium, Krypton, Neon and Xenon. *Not to be used with flammable gases.*



- Relieving type
- Two ports for high pressure and two ports for service.
- Adjustable **5-125 PSI**
- Inlet pressure **3000 PSI** maximum

without Gauge		
Size	Part #	SCFM
1/4"	<b>R83-200R</b>	10



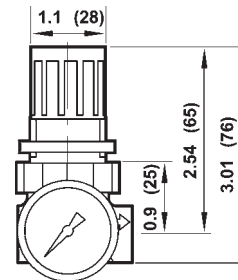
## Miniature Water Regulator

Designed for use with deionized water and potable water systems. Plastic and metals in contact with fluid are approved by the National Sanitation Foundation (NSF) or the Food and Drug Administration (FDA) for use in potable water systems. Elastomers are food grade.



with Gauge		
Size	Part #	GPM
1/4"	<b>R91-221RG</b>	1.75

- Non-relieving type
- Supplied with a GC620 gauge



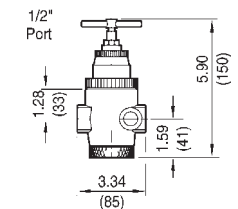
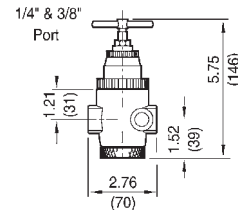
## Water Regulators

Used in water systems to reduce and maintain pressure at a nearly constant level despite changes in the inlet pressure and changes in downstream flow requirements. Brass body and Aluminum bonnet.



with Gauge		
Size	Part #	GPM
1/4"	<b>R43-201RG</b>	5
3/8"	<b>R43-301RG</b>	5
1/2"	<b>R43-406RG</b>	10

- T-handle adjustment standard
- Non-relieving type
- Gauge port is full-flow and can be used as an outlet port
- Adjustable **5-125 PSI**
- Inlet pressure **400 PSI** maximum
- Supplied with a GC230 gauge



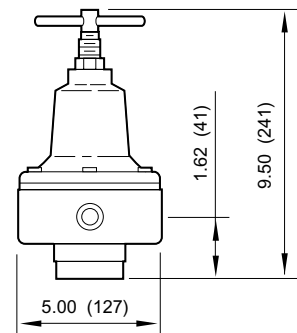
## Water Pressure Regulators

Balanced valve minimizes effects of the inlet pressure variations on outlet pressure. Body, valve and bottom plug are brass. Bonnet is aluminum and steel. Elastomers are nitrile.

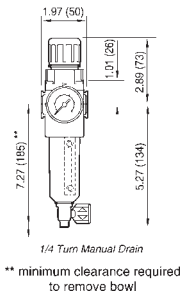


with Gauge		
Size	Part #	GPM
3/4"	<b>11-009-065</b>	27.5
1"	<b>11-009-081</b>	27.5

- T-handle adjustment standard
- Non-relieving type
- Maximum pressure: **400 PSI**
- Operating temperature:  
water service: **35° to 200°F**  
(2° to 93°C)  
air service: **-30° to 200°F**  
(-34° to 93°C)
- Supplied with a GC230 gauge

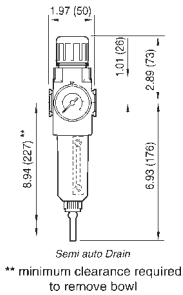


Filters / Regulators



**1/4" Basic - Transparent Bowl**

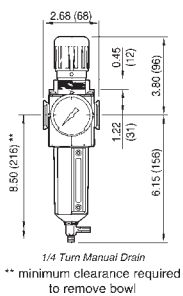
Automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>B72G-2AG</b>	80	1/4"	<b>B72G-2MG</b>	80
3/8"	<b>B72G-3AG</b>	80	3/8"	<b>B72G-3MG</b>	80



**1/4" Basic - Metal Bowl with Sight Glass**

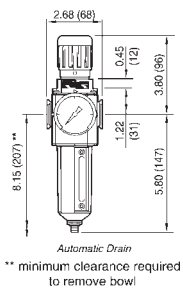
Automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>B72G-2AG-MB</b>	80	1/4"	<b>B72G-2MG-MB</b>	80
3/8"	<b>B72G-3AG-MB</b>	80	3/8"	<b>B72G-3MG-MB</b>	80

- In-line or modular installation
- Quick-release bayonet bowl
- Prismatic lens liquid level indicator
- 40 micron filter element standard
- Particle removal per ISO 8573-1, Class 5 and Class 2
- **2 oz. reservoir**
- Adjustable pressure from **5-150 PSI**
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI** maximum
- Supplied with a GC620 gauge



**3/8" Basic - Transparent Bowl**

Automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>B73G-2AG</b>	78	1/4"	<b>B73G-2MG</b>	78
3/8"	<b>B73G-3AG</b>	123	3/8"	<b>B73G-3MG</b>	123
1/2"	<b>B73G-4AG</b>	123	1/2"	<b>B73G-4MG</b>	123



**3/8" Basic - Metal Bowl with Sight Glass**

Automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>B73G-2AG-MB</b>	78	1/4"	<b>B73G-2MG-MB</b>	78
3/8"	<b>B73G-3AG-MB</b>	123	3/8"	<b>B73G-3MG-MB</b>	123
1/2"	<b>B73G-4AG-MB</b>	123	1/2"	<b>B73G-4MG-MB</b>	123

- In-line or modular installation
- Quick-release bayonet bowl
- Prismatic lens liquid level indicator
- 40 micron filter element standard
- Particle removal per ISO 8573-1, Class 5 and Class 2
- **2 oz. reservoir**
- Adjustable pressure from **5-150 PSI**
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI** maximum.
- Supplied with a GC230 gauge



## Filters / Regulators

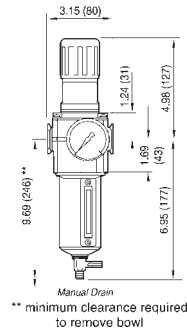


### 1/2" Basic - Transparent Bowl

Automatic Drain

Manual Drain

Size	Part #	SCFM	Size	Part #	SCFM
3/8"	<b>B74G-3AG</b>	163	3/8"	<b>B74G-3MG</b>	163
1/2"	<b>B74G-4AG</b>	212	1/2"	<b>B74G-4MG</b>	212
3/4"	<b>B74G-6AG</b>	212	3/4"	<b>B74G-6MG</b>	212

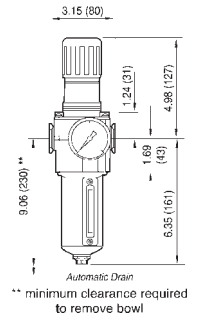


### 1/2" Basic - Metal Bowl with Sight Glass

Automatic Drain

Manual Drain

Size	Part #	SCFM	Size	Part #	SCFM
3/8"	<b>B74G-3AG-MB</b>	163	3/8"	<b>B74G-3MG-MB</b>	163
1/2"	<b>B74G-4AG-MB</b>	212	1/2"	<b>B74G-4MG-MB</b>	212
3/4"	<b>B74G-6AG-MB</b>	212	3/4"	<b>B74G-6MG-MB</b>	212



- 1/2 pt. reservoir
- 5-125 PSIG adjustable range
- Relieving type diaphragm
- 40-micron filter element
- Non-rising adjustment with easily sealed locking to resist tampering.
- Other pressure ranges available
- Supplied with a GC230 gauge

## Micro-Fog Design Lubricators

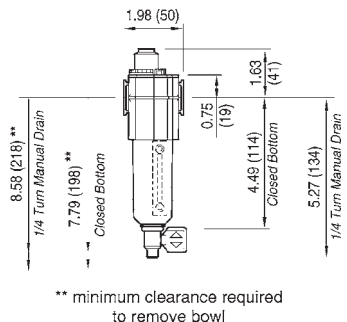
- Micro-fog lubricators, identified by a red adjusting screw, are used for applications containing one or more points of lubrication, cylinders and multiple or single tools.
- Air flow through the lubricator lifts oil from the reservoir to the sight-feed dome. Oil is dropped into the fog generator and atomized into a fine mist. Lightweight particles are delivered downstream for lubrication. Heavier particles fall back into the reservoir.
- The micro-fog lubricator delivers 10% of the oil drops visible through the transparent sight-feed dome.
- Micro-fog lubricators *cannot* be filled under pressure.

### 1/4" Basic - Transparent Bowl

Size	Part #	SCFM
1/4"	<b>L72M-2</b>	51
3/8"	<b>L72M-3</b>	51

### 1/4" Basic - Metal Bowl with Sight Glass

Size	Part #	SCFM
1/4"	<b>L72M-2MB</b>	51
3/8"	<b>L72M-3MB</b>	51



- 2 oz. reservoir
- In-line or modular installation
- Micro-fog design delivers aerosol mist
- Quick release bayonet bowl
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI**
- Maximum temperature for transparent bowl is **125°F**
- Maximum temperature for metal bowl is **175°F**
- Recommended lubricants: Use a misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at **100°F**.

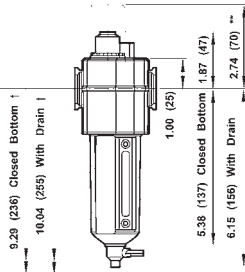
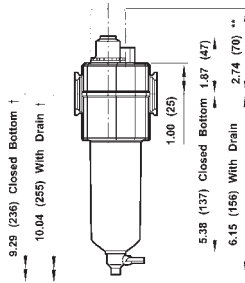
## Lubricators

### 3/8" Basic - Transparent Bowl

Size	Part #	SCFM
1/4"	<b>L73M-2</b>	70
3/8"	<b>L73M-3</b>	70
1/2"	<b>L73M-4</b>	70

### 3/8" Basic - Metal Bowl with Sight Glass

Size	Part #	SCFM
1/4"	<b>L73M-2MB</b>	70
3/8"	<b>L73M-3MB</b>	70
1/2"	<b>L73M-4MB</b>	70



- **4 oz. reservoir**
- In-line or modular installation
- Micro-fog design delivers aerosol mist.
- Quick release bayonet bowl
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI**
- Maximum temperature for transparent bowl is **125°F**
- Maximum temperature for metal bowl is **175°F**
- Recommended lubricants: Use a misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at **100°F**.

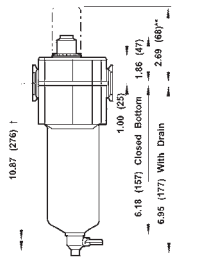


### 1/2" Basic - Transparent Bowl with Guard

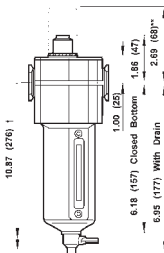
Size	Part #	SCFM
3/8"	<b>L74M-3</b>	114
1/2"	<b>L74M-4</b>	154
3/4"	<b>L74M-6</b>	142

### 1/2" Basic - Metal Bowl with Sight Glass

Size	Part #	SCFM
3/8"	<b>L74M-3MB</b>	114
1/2"	<b>L74M-4MB</b>	154
3/4"	<b>L74M-6MB</b>	142



\*\* Optional pyrex sight-feed dome.  
† Minimum clearance required to remove bowl.



\*\* Optional pyrex sight-feed dome.  
† Minimum clearance required to remove bowl.

- **7 oz. reservoir**
- In-line or modular installation
- Micro-fog design delivers aerosol mist.
- Quick release bayonet bowl
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI**
- Maximum temperature for transparent bowl is **125°F**
- Maximum temperature for metal bowl is **175°F**
- Recommended lubricants: Use a misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at **100°F**.





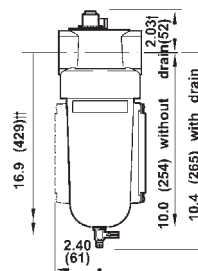
## Lubricators

### 1" Basic - Metal Bowl with Sight Glass



Size	Part #	SCFM
3/4"	<b>L17-600A</b>	160
1"	<b>L17-800A</b>	275
1-1/4"	<b>L17-A00A</b>	275
1-1/2"	<b>L17-B00A</b>	275

- **1 qt. metal reservoir** with drain and oil level sight gauge
- One turn threaded bowl attachment permits easy maintenance
- Inlet pressure **250 PSI** maximum.



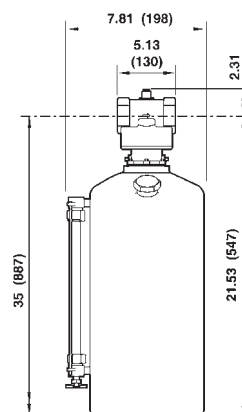
1 quart US (1 liter) reservoir  
1/4 turn drain



### General Purpose - 2" Ports (Oil-Fog ONLY)

Size	Part #	SCFM
2"	<b>10-076-004</b>	1000

- **2 gal. reservoir**
- Oil flow can be positively set
- Reservoirs are ASME construction
- Inlet pressure **250 PSI** maximum



## Micro-Fog, Pyrex® Sight Feed Dome Lubricators

- Designed for use with alcohol or other anti-freeze agents when units are installed in cold temperature environments.
- Pyrex® sight feed dome with aluminum case and fluorocarbon O-Rings and seals; Pyrex® sight glass on bowls and metal petcock drain.
- Micro-fog lubricators, identified by a red adjusting screw, are used for applications containing one or more points of lubrication, cylinders and multiple or single tools.
- Air flow through the lubricator lifts oil from the reservoir to the sight-feed dome. Oil is dropped into the fog generator and atomized into a fine mist. Lightweight particles are delivered downstream for lubrication. Heavier particles fall back into the reservoir.
- The micro-fog lubricator delivers 10% of the oil drops visible through the transparent sight-feed dome.
- Micro-fog lubricators *cannot* be filled under pressure.

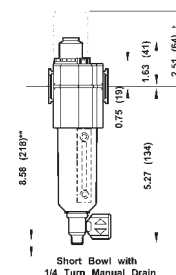
### 1/4" Basic - Metal Bowl with Sight Glass



Size	Part #	SCFM
1/4"	<b>L72M-2MBPX</b>	51
3/8"	<b>L72M-3MBPX</b>	51

- **2 oz. reservoir**
- In-line or modular installation
- Micro-fog design delivers aerosol mist.
- Quick release bayonet bowl
- Inlet pressure for metal bowl is **250 PSI**

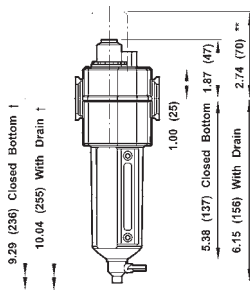
- Maximum temperature for metal bowl is **175°F**
- Recommended lubricants: Use a misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F.



Short Bowl with  
1/4 Turn Manual Drain



## Micro-Fog, Pyrex® Sight Feed Dome Lubricators

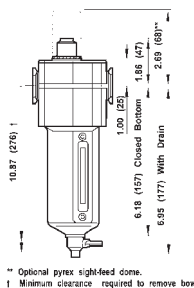


### 3/8" Basic - Metal Bowl with Sight Glass

Size	Part #	SCFM
1/4"	<b>L73M-2MBPX</b>	60
3/8"	<b>L73M-3MBPX</b>	60
1/2"	<b>L73M-4MBPX</b>	60



- **4 oz. reservoir**
- In-line or modular installation
- Micro-fog design delivers aerosol mist
- Quick release bayonet bowl
- Inlet pressure for metal bowl is **250 PSI**
- Maximum temperature for metal bowl is **175°F**
- Recommended lubricants: Use a misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at **100°F**.



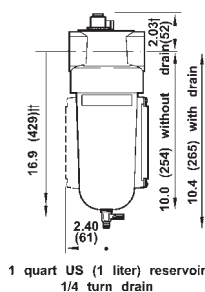
\* Optional pyrex sight-feed dome.  
 † Minimum clearance required to remove bowl

### 1/2" Basic - Metal Bowl with Sight Glass

Size	Part #	SCFM
3/8"	<b>L74M-3MBPX</b>	114
1/2"	<b>L74M-4MBPX</b>	154
3/4"	<b>L74M-6MBPX</b>	142



- **7 oz. reservoir**
- In-line or modular installation
- Micro-fog design delivers aerosol mist
- Quick release bayonet bowl
- Inlet pressure for metal bowl is **250 PSI**
- Maximum temperature for metal bowl is **175°F**
- Recommended lubricants: Use a misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at **100°F**.



1 quart US (1 liter) reservoir  
 1/4 turn drain

### 1" Basic - Metal Bowl with Sight Glass

Size	Part #	SCFM
3/4"	<b>L17-600APX</b>	160
1"	<b>L17-800APX</b>	275
1-1/4"	<b>L17-A00APX</b>	275
1-1/2"	<b>L17-B00APX</b>	275



- **1 qt. metal reservoir** with drain and oil level sight gauge
- Inlet pressure **250 PSI** maximum
- Particle removal per ISO 8573-1, Class 5 and Class 2
- One turn threaded bowl attachment permits easy maintenance

## Oil-Fog Design Lubricators

- Oil-fog lubricators, identified by a green adjusting screw, are used for lubricating a single air tool or air motor, and are located as near the device as possible.
- All the oil visible dropping through the transparent sight-feed dome goes to the airstream.
- L72C, L73C and L74C OIL-FOG lubricators can be filled under pressure.

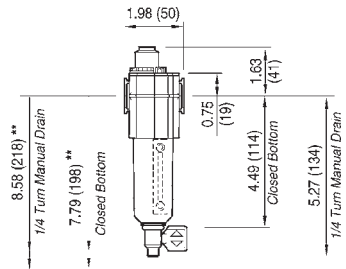


### 1/4" Basic - Transparent Bowl

Size	Part #	SCFM
1/4"	<b>L72C-2</b>	51
3/8"	<b>L72C-3</b>	51

### 1/4" Basic - Metal Bowl with Sight Glass

Size	Part #	SCFM
1/4"	<b>L72C-2MB</b>	51
3/8"	<b>L72C-3MB</b>	51



\*\* minimum clearance required to remove bowl



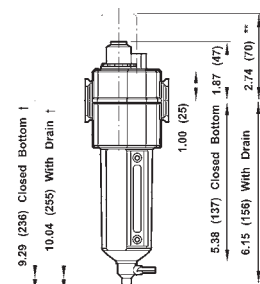
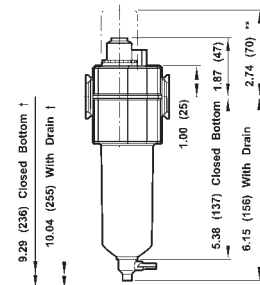
- **2 oz. reservoir**
- In-line or modular installation
- Quick release bayonet bowl
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI**
- Maximum temperature for transparent bowl is **125°F**
- Maximum temperature for metal bowl is **175°F**
- Recommended lubricants: Use a misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at **100°F**.

### 3/8" Basic - Transparent Bowl

Size	Part #	SCFM
1/4"	<b>L73C-2</b>	60
3/8"	<b>L73C-3</b>	60
1/2"	<b>L73C-4</b>	60

### 3/8" Basic - Metal Bowl with Sight Glass

Size	Part #	SCFM
1/4"	<b>L73C-2MB</b>	60
3/8"	<b>L73C-3MB</b>	60
1/2"	<b>L73C-4MB</b>	60

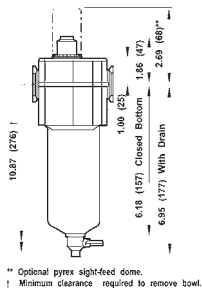


- **4 oz. reservoir**
- In-line or modular installation
- Quick release bayonet bowl
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI**
- Maximum temperature for transparent bowl is **125°F**
- Maximum temperature for metal bowl is **175°F**
- Recommended lubricants: Use a misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at **100°F**.



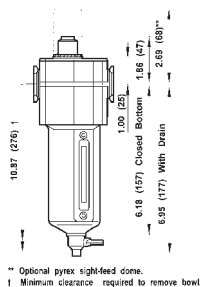
### Oil-Fog Design Lubricators

- Oil-fog lubricators, identified by a green adjusting screw, are used for lubricating a single air tool or air motor, and are located as near the device as possible.
- All the oil visible dropping through the transparent sight-feed dome goes to the airstream.
- L72C, L73C and L74C oil-fog lubricators can be filled under pressure.



#### 1/2" Basic - Transparent Bowl with Guard

Size	Part #	SCFM
3/8"	<b>L74C-3</b>	118
1/2"	<b>L74C-4</b>	192
3/4"	<b>L74C-6</b>	186



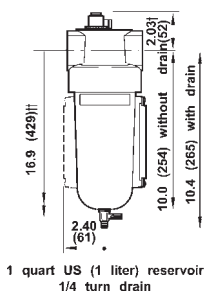
#### 1/2" Basic - Metal Bowl with Sight Glass

Size	Part #	SCFM
3/8"	<b>L74C-3MB</b>	118
1/2"	<b>L74C-4MB</b>	192
3/4"	<b>L74C-6MB</b>	186



- **7 oz. reservoir**
- In-line or modular installation
- Quick release bayonet bowl.
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI**
- Maximum temperature for transparent bowl is **125°**
- Maximum temperature for metal bowl is **175°F**.
- Recommended lubricants: Use a misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at **100°F**.

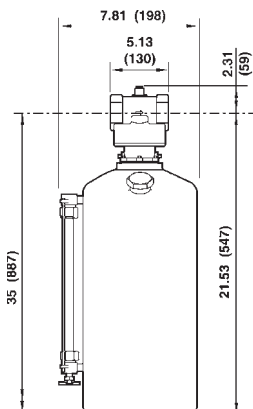
#### 1" Basic - Metal Bowl with Sight Glass



Size	Part #	SCFM
3/4"	<b>L17-600D</b>	160
1"	<b>L17-800D</b>	275
1-1/4"	<b>L17-A00D</b>	275
1-1/2"	<b>L17-B00D</b>	275



- One turn threaded bowl attachment permits easy maintenance
- **1 qt. metal reservoir** with drain and oil level sight gauge
- Inlet pressure **250 PSI** maximum



#### General Purpose - 2" Ports

Size	Part #	SCFM
2"	<b>10-076-004</b>	1000



- **2 gal. reservoir**
- Oil flow can be positively set
- Reservoirs are ASME construction
- Inlet pressure **250 PSI** maximum

### Stainless Steel Filter

Materials meet NACE (National Association of Corrosion Engineers) Standard MR-01-75 (1980 Revision) which defines requirements for materials which are resistant to sulphite stress cracking (SSC) for applications in oil field equipment. 316 Stainless Steel construction provides strength and resistance to corrosion and chemical attack. Pyrex® sight glass with striped background provides clear visibility of liquid level and resistance to chemical attack.

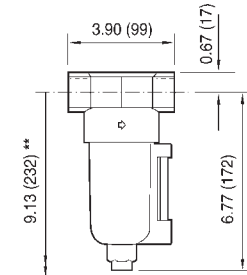
#### 22 series - Metal Bowl with Sight Glass

Automatic Drain

Size	Part #	SCFM
1/2"	<b>F22-405A-MB</b>	98



- 8 oz. bowl
- 25-Micron filter element standard
- Inlet pressure for metal bowl is **250 PSI**



\*\* minimum clearance required to remove bowl

### Stainless Steel Regulator

316 Stainless Steel Pressure Regulators are used in compressed air systems to maintain pressures at levels suitable for the proper operation of air-operated devices. They are designed for use where resistance to corrosion and chemical attack is required. Applications include process-control, petrochemical and marine applications.

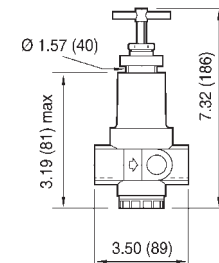
#### 22 series

without Gauge

Size	Part #	SCFM
1/2"	<b>R22-405R</b>	106



- Full-flow 1/4" gauge ports can be used as auxiliary flow ports
- Relieving type
- Adjustable **5-150 PSI**
- Inlet pressure **290 PSI** maximum



### Stainless Steel Lubricator - Oil-Fog Design

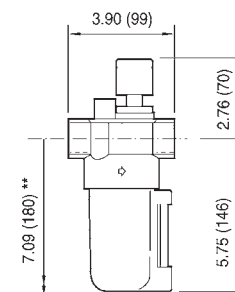
Materials meet NACE (National Association of Corrosion Engineers) Standard MR-01-75 (1980 Revision) which defines requirements for materials which are resistant to sulphite stress cracking (SSC) for applications in oil field equipment. 316 Stainless Steel construction provides strength and resistance to corrosion and chemical attack. Pyrex® sight dome on body provides clear visibility of drip rate. Pyrex® sight glass on bowl has striped background to provide clear visibility of liquid level. Flow sensor design provides a nearly constant oil/air ratio over a wide range of air flows. *Can be filled under pressure.*

#### 22 series - Metal Bowl with Sight Glass

Size	Part #	SCFM
1/2"	<b>L22-405MB</b>	102

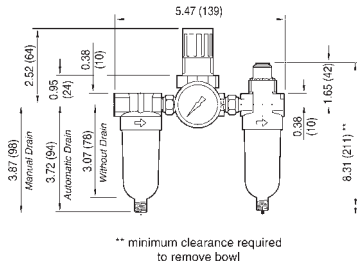


- 8 oz. bowl
- 1/2" NPT port
- Manual drain
- Accurate drip rate adjustment
- Inlet pressure for metal bowl is **250 PSI**



\*\* minimum clearance required to remove bowl

Combination Units



Mini - Transparent Bowl

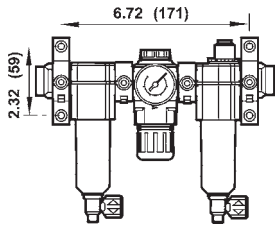
Automatic Drain

Manual Drain

Size	Part #	SCFM	Size	Part #	SCFM
1/8"	<b>P1A-100A</b>	10	1/8"	<b>P1A-100M</b>	10
1/4"	<b>P1A-200A</b>	10	1/4"	<b>P1A-200M</b>	10



- 1 oz. reservoir



1/4" Basic - Transparent Bowl

Automatic Drain

Manual Drain

Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>E72-2A</b>	36	1/4"	<b>E72-2M</b>	36
3/8"	<b>E72-3A</b>	36	3/8"	<b>E72-3M</b>	36



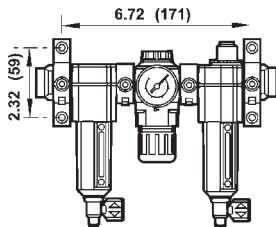
- 2 oz. reservoir

1/4" Basic - Metal Bowl with Sight Glass

Automatic Drain

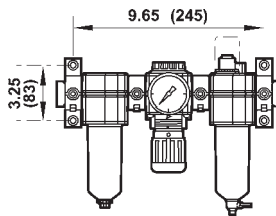
Manual Drain

Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>E72-2A-MB</b>	36	1/4"	<b>E72-2M-MB</b>	36
3/8"	<b>E72-3A-MB</b>	36	3/8"	<b>E72-3M-MB</b>	36



- 72 Series Combination Units are connected modularly
- Includes 2 clamp and wall mounting brackets #4214-52, 2 clamps #4214-51 and 2 NPT pipe adapters. See modular components on pages 34-35 for other options.

- 2 oz. reservoir
- Adjustable **5-150 PSI**
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI** maximum

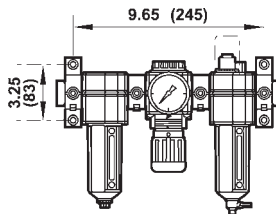


3/8" Basic - Transparent Bowl

Automatic Drain

Manual Drain

Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>E73-2A</b>	70	1/4"	<b>E73-2M</b>	70
3/8"	<b>E73-3A</b>	70	3/8"	<b>E73-3M</b>	70
1/2"	<b>E73-4A</b>	70	1/2"	<b>E73-4M</b>	70



3/8" Basic - Metal Bowl with Sight Glass

Automatic Drain

Manual Drain

Size	Part #	SCFM	Size	Part #	SCFM
1/4"	<b>E73-2A-MB</b>	70	1/4"	<b>E73-2M-MB</b>	70
3/8"	<b>E73-3A-MB</b>	70	3/8"	<b>E73-3M-MB</b>	70
1/2"	<b>E73-4A-MB</b>	70	1/2"	<b>E73-4M-MB</b>	70

- 73 Series Combination Units are connected modularly
- Includes 2 clamp and wall mounting brackets #4314-52, 2 clamps #4314-51 and 2 NPT pipe adapters. See modular components on pages 34-35 for other options.

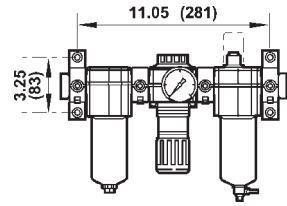
- 2 oz. reservoir
- Adjustable **5-150 PSI**
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI** maximum

Combination Units

1/2" Basic - Transparent Bowl

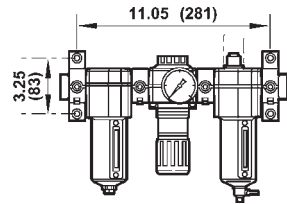


Automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
3/8"	<b>E74-3A</b>	140	3/8"	<b>E74-3M</b>	140
1/2"	<b>E74-4A</b>	140	1/2"	<b>E74-4M</b>	140
3/4"	<b>E74-6A</b>	140	3/4"	<b>E74-6M</b>	140



1/2" Basic - Metal Bowl with Sight Glass

Automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
3/8"	<b>E74-3A-MB</b>	140	3/8"	<b>E74-3M-MB</b>	140
1/2"	<b>E74-4A-MB</b>	140	1/2"	<b>E74-4M-MB</b>	140
3/4"	<b>E74-6A-MB</b>	140	3/4"	<b>E74-6M-MB</b>	140



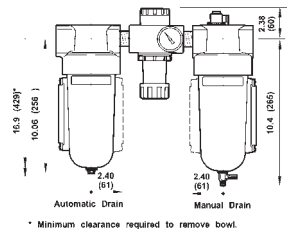
- 74 Series Combination Units are connected modularly
- Includes 2 clamp and wall mounting brackets #4314-52, 2 clamps #4314-51 and 2 NPT pipe adapters. See modular components on pages 34-35 for other options.
- **7 oz. reservoir**
- Adjustable **5-150 PSI**
- Inlet pressure for transparent bowl is **150 PSI**
- Inlet pressure for metal bowl is **250 PSI** maximum



1" Basic - Metal Bowl with Sight Glass

Automatic Drain			Manual Drain		
Size	Part #	SCFM	Size	Part #	SCFM
3/4"	<b>P8A-660A</b>	160	3/4"	<b>P8A-660M</b>	160
1"	<b>P8A-860A</b>	275	1"	<b>P8A-860M</b>	275

- **1 qt. reservoir**



These units are intended for use in industrial compressed air systems only. They must not be used where pressure or temperature may exceed maximum rated operating conditions. The polycarbonated plastic bowls used on these units can be damaged and possibly burst if exposed to such substances as certain solvents, strong alkalis, compressor oils that contain ester-based additives or synthetic oils. Fumes of these substances in contact with the polycarbonate bowl, externally or internally, can also result in damage. Clean with warm water only. Use metal bowl in applications where a plastic bowl might be exposed to substances that are incompatible with polycarbonates. Not for use with fluids. Combination Units are supplied with micro-fog lubricators.



### Desiccant Compressed Air Dryers

Cubic Foot ratings at 100 PSI inlet pressure.

Size	Size	Part #	SCFM
1/4"	7 oz.	<b>W74D-2A-MB7</b>	10
1/4"	1 qt.	<b>W74D-2A-MB32</b>	20



In-line or modular installation. Quick release bayonet bowl.

**7 oz:** Nominal air drying capacity 750 cubic feet at **100 PSI** and **77°F**.

Maximum inlet pressure: **150 PSI**. Maximum temperature: **175°F**.  
*transparent bowl with guard; .25 lb. capacity*

**1 qt:** Moisture indicator on top of body.

Nominal air drying capacity 6000 cubic feet at **100 PSI** and **77°F**.  
Maximum inlet pressure: **250 PSI**. Maximum temperature: **175°F**.  
*metal bowl; 1.25 lb. capacity*

- Compressed air dryers help to eliminate condensation at the point of use. A replaceable element filters outlet air to help prevent desiccant dust migration downstream.
- Silica gel desiccant changes color from blue to pink when desiccant replacement is needed. Desiccant can be dried and reused by heating to 275°F, or replaced. 7 oz. bowl uses 1 gel packet; 1 qt. bowl uses 5 gel packets.
- An after filter should be placed downstream from the desiccant dryer to ensure solid contaminants such as desiccant dust do not migrate downstream.

### Series 1 Drip Leg Automatic Drain

Used in compressed air systems to automatically expel liquids from piping systems. Installed at low points in piping and at end of pipe network, where water is likely to accumulate.

- Metal bowl
- Drain is ported to 1/8" NPT
- Inlet for metal bowl: **250 PSIG**

Size	Part #
1/2"	<b>17-016-107</b>



### Series 1 Three-Way Shut-Off Valves

- Shut-off valves, typically attached to the inlet end of a combination unit, are manually operated, slide type valves that open and close with a short one-inch movement of the slide.
- The valve slide can be locked in the closed position with a customer supplied padlock.
- The standard valve is a 3-way valve that exhausts downstream air in the closed position.
- Recommended pressure is **250 PSI**.
- For use with 72 and 73 series filters, regulators and lubricators on pages 15-26.
- Conforms to OSHA lockout regulation

Size	Part #
1/4"	<b>T73E-2</b>
3/8"	<b>T73E-3</b>
1/2"	<b>T73E-4</b>





## Brass Hex Nipples



Size	Part #
1/8" x 1/8"	<b>BCN12</b>
1/4" x 1/4"	<b>BCN25</b>
3/8" x 3/8"	<b>BCN37</b>
1/2" x 1/2"	<b>BCN50</b>
3/4" x 3/4"	<b>BCN75</b>
1" x 1"	<b>BCN100</b>

## Steel Close Nipples



Size	Part #
1" x 1"	<b>CN100</b>
1-1/4" x 1-1/4"	<b>CN125</b>
1-1/2" x 1-1/2"	<b>CN150</b>
2" x 2"	<b>CN200</b>

**SAFETY  
ALERT**

*Do not use pipe nipples as hose inserts.*

## Accessories

### Bowls and Bowl Guards

For	Description	Part #
F07	Polycarbonate bowl w/ auto drain	<b>3646-51</b>
F07	Polycarbonate bowl with manual drain	<b>3646-53</b>
L07	Polycarbonate bowl with drain	<b>3646-54</b>
F72	Transparent bowl with manual drain	<b>4266-50RF</b>
F72	Transparent bowl with semi-automatic drain	<b>4266-52RF</b>
F73	Transparent bowl with manual drain	<b>4425-50RF</b>
F73	Transparent bowl with auto drain	<b>4425-51RF</b>
F74, B74	Transparent bowl with manual drain	<b>4325-51R</b>
F74, B74	Transparent bowl with auto drain	<b>4325-52R</b>
L72	Metal bowl with Pyrex® liquid level Indicator and ¼ turn manual drain	<b>4203-51RF</b>
L73	Transparent bowl with manual drain	<b>4425-50RL</b>
L74	Metal bowl with Pyrex® liquid level Indicator and ¼ turn manual drain	<b>4304-77R</b>
L74	Transparent bowl with manual drain	<b>4325-50R</b>
F74, B74, L74	Bowl guard	<b>4326-01</b>

### Filter Elements

For	Description	Part #
F07	5 micron	<b>3652-11</b>
F17	5 micron	<b>5311-01</b>
	25 micron	<b>5311-02</b>
	40 micron	<b>5311-03</b>
F18	5 micron	<b>5882-11</b>
	25 micron	<b>5882-12</b>
	40 micron	<b>5882-13</b>
F72	5 micron	<b>5925-03</b>
	40 micron	<b>5925-02</b>
F73	5 micron	<b>4438-01</b>
	40 micron	<b>4438-03</b>
F74	5 micron	<b>4338-04</b>
	40 micron	<b>4338-05</b>

### Filter Accessories

For	Description	Part #
F73	Liquid level lens kit	<b>4380-020</b>
F72	Liquid level lens kit	<b>4380-030</b>
F74	Pyrex® sight glass kit	<b>4380-051</b>

## Accessories

### Repair Kits

For	Description	Part #
F18	Repair kit	<b>5945-50</b>
R07	Repair kit	<b>3407-02</b>
R11	Repair kit	<b>529-03</b>
R17	Repair kit	<b>5578-02</b>
R18	Repair kit	<b>5945-40</b>
R72	Repair kit	<b>4381-500</b>
R73	Repair kit	<b>4381-600</b>
R74	Repair kit	<b>4381-700</b>

### Auto and Manual Drains

For	Description	Part #
F17	Auto drain	<b>3000-10</b>
F17, L17	Manual drain assembly	<b>2796-52</b>
F72	Semiautomatic drain	<b>5379-RK</b>
F72, F73	Auto drain	<b>4000-51R</b>
F74	Auto drain	<b>3000-10</b>
F72, F73, F74	Manual drain	<b>619-50</b>

### Element Replacements

For	Description	Part #
F74C	Oil removal filter	<b>4344-01</b>
F74H	Oil removal filter	<b>4344-02</b>
F74V	Vapor removal filter	<b>4341-01</b>
W74D	5 silica gel refills, .25lb. each	<b>4385-700</b>

### Regulator Replacement Springs

For	Description	Part #
R72	5-60	<b>4232-02</b>
	5-150	<b>4232-03</b>
R73	5-60	<b>4432-01</b>
	5-150	<b>4432-02</b>
R74	5-60	<b>4332-01</b>
	5-150	<b>4332-02</b>

### Mounting Brackets

For	Description	Part #
R07	Plastic panel nut	<b>2962-89</b>
R22	Panel nut (stainless steel)	<b>5988-02</b>
R17	Metal panel nut	<b>5226-97</b>
F07	Mounting bracket	<b>5939-06</b>
F17, L17	Mounting bracket kit for ¾" & 1"	<b>6212-50</b>
F17, L17	Mounting bracket kit for 1¼" & 1½"	<b>6212-51</b>
L07	Mounting bracket	<b>5095-17</b>
R07, B07	Mounting bracket	<b>18-025-003</b>
R17	Mounting bracket	<b>5570-04</b>
R22	Mounting bracket kit	<b>18-001-962</b>
R22	Mounting bracket kit w/panel nut	<b>18-001-959</b>

### Lubricator Accessories

For	Description	Part #
L17, L74	Quick fill cap	<b>18-011-021</b>
L72	Viton® seal	<b>2325-10</b>
L72	Buna seal	<b>720-01</b>
L72	Acetal fill plug	<b>4272-99</b>
L74	Viton® seal	<b>2325-13</b>
L73, L74	Aluminum fill plug	<b>5301-55</b>
L72, L74	Sight feed dome (Micro-fogging design)	<b>4055-50</b>
L72	Sight feed dome (Oil-fogging design)	<b>4055-51</b>
L12	Sight feed dome	<b>5055-54</b>
L72, L74	Pyrex® sight feed dome	<b>5605-50</b>
L74	Liquid level indicator repair kit	<b>4380-050</b>

## Accessories

### O-Ring Kits

For	Description	Part #
F17	O-Ring kit	<b>5578-05</b>
L17	O-Ring kit	<b>5771-02</b>
F72	O-Ring kit	<b>4380-500</b>
F73	O-Ring kit	<b>4380-600</b>
F74	O-Ring kit	<b>4380-700</b>
L72	O-Ring kit	<b>4382-500</b>
L73	O-Ring kit	<b>4382-600</b>
L74	O-Ring kit	<b>4382-700</b>

### Gauges

For	Description	Part #
R72, B72	0-160 PSI gauge	<b>GC620</b>
R73, R74, B73, B74	0-160 PSI gauge	<b>GC230</b>

### Service Life Indicator Conversion Kit for F74 Airline Filters and Oil Removal Filters

Allows addition of service life indicator in the field.



For	Part #
74	<b>5797-50</b>

### Panel Nuts

Use to panel mount regulators and filter/regulators. Series 72 nut is plastic; Series 73 and 74 nuts are zinc.



For	Part #
72	<b>4248-89</b>
73	<b>5191-88</b>
74	<b>4348-89</b>

### Tamper Resistant Cover & Seal Wire

Install on the adjusting knob of regulators or filter/regulators to help prevent unauthorized adjustment to the pressure setting. Cover can be locked in place with up to four padlocks.



For	Part #
72	<b>4255-51</b>
73	<b>4455-51</b>
74	<b>4355-51</b>

### Seal Wire

Install under sight feed dome on L73 and L74 lubricators to provide tamper resistant protection of the lubricator drip rate setting.

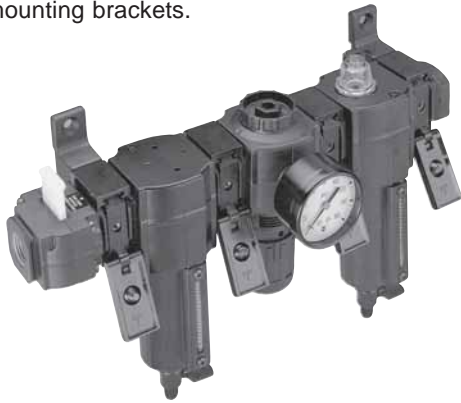


For	Part #
73,74	<b>2117-01</b>

## Accessories

### Typical Setup

Combination unit shown with clamps, end pipe adapters and wall mounting brackets.



### Clamp Wall Mounting Brackets

Use with the clamp to provide secure mounting to a wall, machine panel or other flat surface. 72 Series mounts with 3/16" screws; 74 Series mounts with 7/32" screws.



For	Part #
72	<b>4213-89</b>
73, 74	<b>4313-50</b>

### Clamps

For use with all 72, 73 & 74 Series products to provide modular installation capability. Flanges on the products slide into V grooves in the clamp. Two face-sealing O-rings in the clamp provide a positive seal when the clamp is closed and the captive screw is tightened.



For	Part #
72 Quickclamp	<b>4214-51</b>
73, 74 Quickclamp	<b>4314-51</b>
72 Service Kit (2 O-rings)	<b>4384-570</b>
73, 74 Service Kit (2 O-rings)	<b>4384-770</b>

### Clamp and Wall Mounting Brackets



For	Part #
72	<b>4214-52</b>
73, 74	<b>4314-52</b>

### Wall Mounting Brackets

For use with 72, 73 & 74 Series products to secure to a wall, machine panel or other flat surface. For use instead of quickclamps and pipe adapters for wall attachment of combination unit or individual filter, regulator or lubricator. Use close nipples to connect combination unit and then place in bracket.



For	Part #
72	<b>4224-50</b>
73	<b>4424-50</b>
74	<b>4324-50</b>
74	<b>4324-51*</b>

\* For L74 with 1 quart reservoir

### Pipe Adapters

For use with clamps to provide PTF threaded connections to the system piping. Sold individually.



For	Size	Part #
72	1/4"	<b>4215-02</b>
72	3/8"	<b>4215-03</b>
73, 74	1/4"	<b>4315-01</b>
73, 74	3/8"	<b>4315-02</b>
73, 74	1/2"	<b>4315-03</b>
73, 74	3/4"	<b>4315-04</b>

### Porting Blocks

Installs between two clamps to provide three additional 1/4" PTF outlets for auxiliary air.



For	Part #
72	<b>4216-50</b>
73, 74	<b>4316-50</b>

### Manifold Blocks

Installs with clamps. 72 Series ports are threaded 3/8" PTF; 73 & 74 Series ports are threaded 3/4" PTF to provide manifolding capability for up to three components.



For	Part #
72	<b>4228-01</b>
73, 74	<b>4328-50</b>

Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for fire protection, food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

**Dixon Valve & Coupling Company**

800 High Street, Chestertown, MD 21620

Customer Service: 800.355.1991

Fax: 800.283.4966

**[www.dixonvalve.com](http://www.dixonvalve.com)**



# Dixon Diesel & Gasoline Nozzles

The Right Connection™

## FuelMaster™ Diesel Nozzle

- Provides the high flow capacity required by many truck stops and terminal operations.
- features lightweight Tensalloy aluminum casting
- Micro-touch valve provides smooth operation and exceptional flow control.
- super tough nylon hose guard and hold-open clip
- easy to change 'lockout style' spout assembly

Part #	NPT Inlet	Spout Size	Wt (lbs)	Approximate Flow Rate at 20 PSI (GPM)	List Price
<b>DFN100HF</b>	1"	1-3/16"	3.5	30	\$211.15



## Big Mouth™ Diesel Nozzle

- Micro-touch valve allows precise flow control
- Roto-matic latch pin provides positive auto shut-off
- pure Teflon® packing eliminates stem leaks
- Super tough nylon hold-open clip and hand guard bend, but won't break.
- Snap-on handle cover makes changing scuff guards easy.

Part #	NPT Inlet	Spout Size	Wt (lbs)	Approximate Flow Rate at 20 PSI (GPM)	List Price
<b>DFN100</b>	1"	1-1/8"	3	20	\$163.25



## Farm and Consumer Nozzles

- Automatic fuel nozzles designed for use with small 12 volt and AC utility pumps as well as large farm and consumer pumps.
- Heavy duty, stronger and more secure hook makes it easy to hang the nozzle on the pump.
- *These nozzles are not to be used with gravity flow tanks.*

Part #	NPT Inlet	Spout Size	Wt (lbs)	Approximate Flow Rate at 20 PSI (GPM)	List Price
<b>DN7UOBF</b> <sup>1</sup>	3/4"	13/16"	2½	14	\$115.00
<b>DN7LOBF</b> <sup>2</sup>	3/4"	15/16"	2½	14	115.00

<sup>1</sup> gasoline nozzle  
<sup>2</sup> diesel nozzle



## Fuel Nozzle Cross Reference

Dixon	M. Carder	OPW	Emco	Husky	Catlow
DN7UOBF	N7UOBF	11AF-40FS	A2501F	XSF-33704	NENLF
DN7LOBF	N7LOBF	11APF-40FS	A2501LF	---	NELF
DFN100	N3-BigMouth	7H	A6000	1+8-173310	MAX1
DFN100HF	N4-Fuelmaster	N/A	N/A	1HS.026810	MAC-1AH

## Accessories

### Single Plane Hose Swivels



- aluminum body
- Brass hex nut prevents galling in the nozzle.
- Viton® / Buna seals
- nylon cord retainer

Part #	Size	List Price
<b>DAWS34</b>	3/4" x 3/4"	\$42.30
<b>DAWS10</b>	1" x 1"	65.00

### Breakaways



- aluminum body
- design provides consistent and reliable performance
- lightweight
- easy to repair
- unique ball valves seal both ends when separated
- Buna seals
- brass break rings (2)

Part #	Size	List Price
<b>DAB34</b>	3/4"	\$63.50
<b>DAB1</b>	1"	133.70



- nickel plated aluminum body
- check valve - Teflon® ball seals both ends when separated
- Viton® / Buna seals
- brass break rings: 4 in 1 1/4" and 1 1/2"; 6 in the 2"
- Provides protection for all the high capacity fueling operations such as truck and bus terminals, mining, off-road fueling and fuel oil delivery.

Part #	Size	List Price
<b>DAB14</b>	1 1/4"	\$850.00
<b>DAB15</b>	1 1/2"	850.00
<b>DAB2</b>	2"	1728.00

### Dixon Valve & Coupling Co.

800 High Street • Chestertown, MD 21620

ph 800.355.1991 • fx 800.283.4966

[dixonvalve.com](http://dixonvalve.com)





The Right Connection™

# Gauges & Thermometers

*All of the gauges supplied by Dixon are designed for long, reliable service under rugged conditions.*

## Dry Gauges

### styles

- standard
- Flutterguard™
- Contractor Pressure
- Compound
- Vacuum
- Welding

### materials

- ABS
- Brass
- Stainless steel

### mount type

- lower
- center back

### face size

- 1½"
- 2"
- 2½"
- 3½"
- 4½"

*(contractor pressure gauge only)*



**Welding gauge**



**Vacuum gauge**



**Brass Standard gauge**



**Flutterguard™ gauge**



**Standard center back mount gauge**



**Contractor Pressure gauge**



**Stainless Steel Standard gauge**



**Compound gauge**

## Liquid Filled Gauges

### styles

- standard

### materials

- ABS
- Brass
- Stainless steel

### face size

- 2½"
- 4"



**Brass gauge**



**Stainless Steel  
center back mount  
gauge**



**ABS gauge**

### mount type

- lower
- center back

## Thermometers & Miscellaneous

### thermometers

- bi-metal
  - model 30
  - model 31
  - model 50
  - model 52
  - pocket
- magnetic surface mount
- threaded thermowells
- 180° steam gauge siphon



**Bi-metal thermometer**



**Magnetic thermometer**



**Pocket Bi-metal thermometer**



**180° steam gauge siphon**



**threaded thermowells**

## Hose Coupling Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the **Rubber Manufacturers Association** recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations.
- Call Dixon (1-800-355-1991) for advice on couplings, retention devices, and accessories for your application.



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# Global Air King



The Right Connection™

# Dixon Global Air King

*Global Air King couplings are recommended for use on air lines for pneumatic equipment.*



## Features:

The maximum recommended working pressure for Dixon Air King universal couplings is up to 150 PSI at ambient temperature (70°F). Recommendations are based on the standard Natural Rubber Washer, AWR4.

## Connection:

Connections are made by pushing two Dixon Air King heads together and rotating them a quarter turn. When the fittings are properly connected an Air King safety clip will pass through at least one set of holes. Always use an Air King safety clip, cotter pin, or wire to ensure the couplings are properly connected and to keep the couplings from being accidentally disconnected.

## Disconnection:

Remove the safety clip, cotter pin or wire. Press the heads firmly together and turn them counterclockwise. The heads will then separate. **NEVER attempt to disconnect any hose while pressure is in the line.**

## Interchange:

Although Dixon Air King couplings may interchange with other manufacturers' fittings, **we do not recommend their use with other products.** Not all locking heads are made to the same standards as Dixon Air King. Use with other brands of fittings may create an unsafe condition, due to poor design or worn equipment.

## HOSE COUPLING SAFETY

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, [www.osha.gov](http://www.osha.gov).)
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.

**SAFETY**  
**ALERT**

Male N.P.T. Ends  
Investment Cast Steel

Size	Part #	List Price
1/2"	<b>GAM2</b>	\$2.90
3/4"	<b>GAM7</b>	2.95
1"	<b>GAM12</b>	3.70



Female N.P.T. Ends  
Investment Cast Steel

Size	Part #	List Price
1/2"	<b>GAM3</b>	\$2.90
3/4"	<b>GAM8</b>	2.95
1"	<b>GAM13</b>	3.70



Hose Ends  
Investment Cast Steel

Size	Part #	List Price
1/2"	<b>GAM1</b>	\$2.75
3/4"	<b>GAM6</b>	2.80
1"	<b>GAM11</b>	3.55

See page 4 for ferrules.



Blank End  
Investment Cast Steel

Size	Part #	List Price
---	<b>GAM0</b>	\$4.00



Triple Connection  
Investment Cast Steel

Size	Part #	List Price
---	<b>GAM10</b>	\$6.05



## Ferrules Zinc Plated Carbon Steel

Offers a low profile streamline appearance with maximum retention.

- Lightweight
- Can be crimped or swaged

Size	Ferrule I.D.	Part #	List Price
1/2"	0.906	<b>CCF0906</b>	<b>\$0.90</b>
	1.120	<b>CCF1120</b>	<b>1.40</b>
3/4"	1.149	<b>CCF1149</b>	<b>1.40</b>
	1.190	<b>CCF1190</b>	<b>1.40</b>
	1.218	<b>CCF1218</b>	<b>1.40</b>
	1.246	<b>CCF1246</b>	<b>1.40</b>
	1.438	<b>CCF1438</b>	<b>2.00</b>
1"	1.469	<b>CCF1469</b>	<b>2.00</b>
	1.500	<b>CCF1500</b>	<b>2.00</b>
	1.531	<b>CCF1531</b>	<b>2.00</b>



See page 5 for crimp recommendations.

## Washers

- Same size for all coupling sizes
- Rubber temperature range: **-20°F to 160°F**
- Neoprene temperature range: **-20°F to 190°F**
- Neoprene is oil resistant

Natural Rubber Part #	List Price	Neoprene Part #	List Price
<b>AWR4</b>	<b>\$0.45</b>	<b>AWS6</b>	<b>\$0.60</b>



## Safety Clip

- Same size for all coupling sizes
- Sold only in bags of 25

Wire Dia.	Part #	List Price
.080	<b>AC1</b>	<b>\$0.25</b>





## 1/2" Global Air King Crimp Recommendations

Hose I.D.	Stem Part #	Ferrule Part #	Hose O.D.		Crimp Diameter (±0.005)	% Reduction
			Fractional	Decimal		
1/2"	<b>GAM1</b>	<b>CCF0906</b>	54/64	0.8438	0.840	15
		<b>CCF0906</b>	55/64	0.8594	0.853	15
		<b>CCF0906</b>	56/64	0.8750	0.867	15

## 3/4" Global Air King Crimp Recommendations

Hose I.D.	Stem Part #	Ferrule Part #	Hose O.D.		Crimp Diameter (±0.005)	% Reduction
			Fractional	Decimal		
3/4"	<b>GAM6</b>	<b>CCF1120</b>	1-5/64	1.0781	1.082	20
		<b>CCF1120</b>	1-6/64	1.0938	1.094	20
		<b>CCF1149</b>	1-7/64	1.1094	1.107	20
		<b>CCF1149</b>	1-8/64	1.1250	1.119	20
		<b>CCF1190</b>	1-9/64	1.1406	1.122	20
		<b>CCF1190</b>	1-10/64	1.1563	1.134	20
		<b>CCF1218</b>	1-11/64	1.1719	1.147	20
		<b>CCF1218</b>	1-12/64	1.1875	1.159	20
		<b>CCF1246</b>	1-13/64	1.2031	1.182	20
		<b>CCF1246</b>	1-14/64	1.2188	1.194	20

## 1" Global Air King Crimp Recommendations

Hose I.D.	Stem Part #	Ferrule Part #	Hose O.D.		Crimp Diameter (±0.005)	% Reduction
			Fractional	Decimal		
1"	<b>GAM11</b>	<b>CCF1438</b>	1-25/64	1.3906	1.388	20
		<b>CCF1438</b>	1-26/64	1.4063	1.400	20
		<b>CCF1469</b>	1-27/64	1.4219	1.413	20
		<b>CCF1469</b>	1-28/64	1.4375	1.425	20
		<b>CCF1500</b>	1-29/64	1.4531	1.438	20
		<b>CCF1500</b>	1-30/64	1.4688	1.450	20
		<b>CCF1531</b>	1-31/64	1.4844	1.463	20
		<b>CCF1531</b>	1-32/64	1.5000	1.475	20



Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for fire protection, food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

## **Dixon Valve & Coupling Company**

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# Grooved Fittings



*The Right Connection™*

# Advantages of Grooved Fittings



Built in deflection tolerances allow for quick installation and easy pipe alignment in uneven areas, or, where ground settling may occur



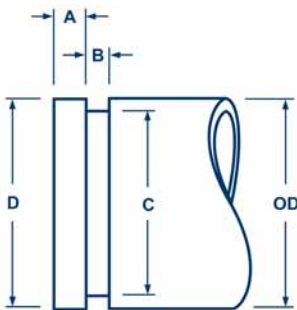
Grooved couplings allow for some linear expansion and contraction as well as horizontal variance. These features eliminate limited pipeline stresses without the use of costly expansion joints.

Comparative Advantages	Threaded	Flanged	Welded	Grooved
Allows angular deflection-misalignment				•
Expansion, contraction or, no need for expansion joint				•
Reclaimable, no need for union		•		•
Allows fast connection with valves				•
Allows rotation of pipe for alignment		•		•
No special skills required to assemble	•			•
No welding slags	•			•
No weakening of pipe at joints		•	•	•
No fire hazard during installation	•	•		•
Speed of installation	•			•
Allows prefabrication	•	•		•
Low installation cost	•			•

## Features and Benefits

- Grooved End fittings for grooved pipe combine the features of a straight line or a flexible coupling, a union and an extension at each pipe joint. The housings engage the groove around the entire pipe circumference, locking the pipe together.
- Grooved End fittings allow easy removal of pipe sections for replacement, cleaning and service.
- Since the grooves are not as deeply cut as threaded pipe, less metal is removed and more of the pressure rating of the pipe is retained.
- Installation time and cost is low, since only a socket wrench is required.

## Groove Dimensions



Size	OD	A	B	C	D
1½"	1.900	5/8	5/16	1.775	1.900
2"	2.375	5/8	5/16	2.250	2.375
2½"	2.875	5/8	5/16	2.750	2.875
3"	3.500	5/8	5/16	3.344	3.500
4"	4.500	5/8	3/8	4.334	4.500
5"	5.563	5/8	3/8	5.395	5.563
6"	6.625	5/8	3/8	6.455	6.625
8"	8.625	3/4	7/16	8.441	8.625
10"	10.750	3/4	1/2	10.562	10.750
12"	12.750	3/4	1/2	12.531	12.750

Grinnell® is a registered trademark of Tyco.

## HOSE COUPLING SAFETY

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media,** and **Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, [www.osha.gov](http://www.osha.gov).)
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.

## Couplings

## Standard Couplings - Series S



Standard couplings are designed for a wide range of applications including commercial/industrial construction, mining, process piping. The housing design allows for optimum strength without excessive casting weight.

- Painted ductile iron
- **Underwriters listed and Factory Mutual approved**

**Accommodates:**

- working pressure: **1000 PSI**  
for sizes: 1½", 2", 2½", 3", 4", 6"
- working pressure: **800 PSI**  
for sizes: 8", 10", 12"



## Lightweight Flexible Couplings - Series L



Lightweight flexible couplings are designed for applications requiring moderate internal pressure or where weight is a factor. Applications include; general purpose, mining, irrigation, and compressed air where a deflection of 5% or less is required.

- Painted ductile iron
- **Underwriters listed and Factory Mutual approved**

**Accommodates:**

- working pressure: **500 PSI**  
for sizes: 1½", 2"
- working pressure: **300 PSI**  
for sizes: 2½", 3", 4", 5", 6", 8"



## Rigid Couplings - Series R



This lightweight, rigid style coupling is ideal for fire protection, plumbing, low pressure air and drainage. Small gripping teeth hold the housing into the groove allowing a straight run of pipe and preventing flex at the joint.

- Painted ductile iron
- **Underwriters listed and Factory Mutual approved**

**Accommodates:**

- working pressure: **175 PSI**  
for sizes: 2", 2½", 3", 4", 6", 8"



## Quick Release Couplings - Series Q

Quick release couplings are specially designed for applications requiring a quick connection and/or disconnection of a pipe joint. A locking pin through the handle prevents accidental opening of the coupling.

- Zinc plated ductile iron body with steel safety clip

**Accommodates:**

- working pressure: **500 PSI**  
for sizes: 1½", 2", 2½", 3", 4", 6"



## ANSI Split Flange Couplings - Series SF



The split flange coupling is designed to provide a direct connection between a grooved adapter and an ANSI Class 125 and 150 raised face flanged component. It can be used with flat face flanges by removing the raised projections on the outside face of the flange.

- Painted ductile iron
- **Underwriters listed and Factory Mutual approved**

**Accommodates:**

- working pressure: **300 PSI**  
for sizes: 2", 2½", 3", 4", 6", 8"



## End Caps

## ANSI Caps with Tapped Outlet - Series EC

**Available in :**

- sizes: 2", 2½", 3", 4", 6", 8"



## Blank End Caps - Series BE



- **Underwriters listed and Factory Mutual approved**

**Available in :**

- sizes: 2", 2½", 3", 4", 6", 8"



# Grooved End Fittings



## Elbows - Series 45

- Designed to provide minimum pressure drop and uniform strength
- Painted ductile iron
- Interchangeable with Victaulic and Grinnell®
- **Underwriters listed and Factory Mutual approved**

### Accommodates:

- working pressure: **1000 PSI**  
for sizes: 2", 2½", 3", 4", 5", 6", 8"



## Elbows - Series 90

- Designed to provide minimum pressure drop and uniform strength
- Painted ductile iron
- Interchangeable with Victaulic and Grinnell®
- **Underwriters listed and Factory Mutual approved**

### Accommodates:

- working pressure: **1000 PSI**  
for sizes: 2", 2½", 3", 4", 6", 8"



## Elbows - Series T

- Designed to provide minimum pressure drop and uniform strength
- Painted ductile iron
- Interchangeable with Victaulic and Grinnell®
- **Underwriters listed and Factory Mutual approved**

### Accommodates:

- working pressure: **1000 PSI**  
for sizes: 2", 2½", 3", 4", 6", 8"

# Adapters



## Reducing Adapters - Series RA

- Painted ductile iron
- **Underwriters listed and Factory Mutual approved**

### Available in :

- sizes: 1½", 2", 2½", 3", 4", 5", 6", 8"



## Flange Adapters - Series FA

Flange adapters are used to connect an ANSI Class 125 and 150 flange to a grooved pipe using a grooved clamp. To assemble to another flange, position bolt heads on the adapter (grooved) side. These adapters provide a rigid one piece connection that can be disconnected by removing the clamp assembly.

- Galvanized ductile iron

### Accommodates:

- working pressure: **300 PSI**  
for sizes: 2", 3", 4", 6", 8"



## Mechanical T's - Series T

Mechanical tees provide a fast, easy way to install a threaded connection along a length of pipe. After drilling or cutting a hole in the pipe at the location of the branch connection, simply attach the clamps around the pipe for a leak-free threaded outlet connection.

- Painted ductile iron
- **Underwriters listed and Factory Mutual approved**

### Accommodates:

- working pressure: **300 PSI**  
for sizes: 2", 2½", 3", 4", 6"

## Adapter Nipples

- These fittings are designed to provide minimum pressure drop and uniform strength

### Short Hex Style



#### Accommodates:

- working pressure: **1000 PSI**  
for sizes: 2", 2½", 3", 4"

### Long Pipe Style



#### Available in :

- sizes: 2", 2½", 3", 4", 5", 6"

### Victaulic x Weld



#### Available in :

- sizes: 2", 2½", 3", 4"

## Valves

### Compact High Pressure Grooved End Ball Valves

- Applications: High pressure pipeline systems, including petroleum, process systems, water, oil and gas.
- Epoxy coated high strength ductile iron body
- 316 stainless steel ball and stem
- 15% glass reinforced Teflon® seats
- Temperature rated to **450°F**
- Maximum working pressure: **600 PSI**
- Sizes available: 4" and 6"



### Econovalves

The Econovalve series of ball valves are solidly constructed and designed for rugged service such as the mining and construction industries. The unique one piece ball and stem provides positive on/off action with no slacks and no leaks.

- Cast iron
- Nitrile butadiene seals
- Maximum working pressure: **300 PSI**
- Sizes available: 1", 1½", 2"



## Combination Nipples



- The PF shank design was developed specifically for chemical transport hoses having Crosslinked Polyethylene (XLPE) or Ultra High Molecular Weight Polyethylene (UHMW) tubes, where shank retention can be a problem when using conventional band clamps
- Recommended for discharge and suction service
- **Not intended for compressed air**
- Sizes available: 2" and 3"

- Combination nipples are recommended for low-pressure discharge and suction service for compatible liquids. **They are not for compressible products such as air or nitrogen**
- **King Combination Nipples are not recommended for steam**
- Sizes available: 1", 1¼", 1½", 2", 2½", 3", 4", 5", 6", 8", 10", 12"

**SAFETY  
ALERT**





## External Swage Holedall Fittings

### Stems



- Stems are plated carbon steel
- Sizes available: 1/4", 1/2", 2", 2 1/2", 3", 4", 5", 6", 8", 10"

### Ferrules



- Ferrules are plated carbon steel
- Sizes available: 1/4", 1/2", 2", 2 1/2", 3", 4", 5", 6", 8", 10"

**SAFETY**  
**ALERT**

*Proper ferrule selection is very important in achieving a correct coupling-to-hose assembly.*

## Internal Expansion Holedall Fittings

### Stems



- Stems are carbon steel
- Sizes available: 1/4", 1/2", 2", 2 1/2", 3", 4"

### Ferrules



- Ferrules are plated carbon steel
- Sizes available: 1/4", 1/2", 2", 2 1/2", 3", 4"

**SAFETY**  
**ALERT**

*Proper ferrule selection is very important in achieving a correct coupling-to-hose assembly.*

## Internal Expansion Holedall Fittings - Scovill Style

### Stems



- Recommended for discharge and suction service
- Commonly used to transfer fuel
- Couplings are compact, light and streamlined to eliminate catching on curbs and shrubs
- The stem is expanded to nominal hose I.D. for a full-flow
- Sizes available: 1", 1 1/2", 2", 2 1/2"

### Ferrules



- Ferrules available in brass or stainless steel
- Sizes available: 1", 1 1/2", 2", 2 1/2"

**SAFETY**  
**ALERT**

*Proper ferrule selection is very important in achieving a correct coupling-to-hose assembly.*

## Nuts and Bolts

- Nuts and bolts are made of electroplated carbon steel and conform to ASTM A183
- The nuts are a heavy duty hexagon design
- The bolts are specifically designed for use with the couplings in this brochure.

## Gruvlok Lubricant

- Water soluble
- Non-toxic
- Non-corrosive
- Non-flammable
- NSF approved for use with potable water

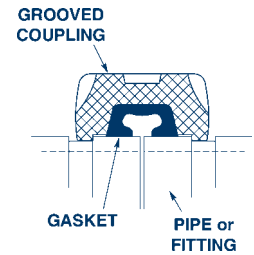


**Should not be used with HDPE pipe.**



## Gaskets

- Check gasket color code (see below) to be certain it is recommended for the service intended
- Use lubricant on gasket
- For services not listed contact Dixon for recommendations



### Buna-N Gaskets

Compound Type: **Buna-N**  
 Temperature Range: **-24°F to +176°F**  
 Color Code: *Blue*  
 General Service Application:

- Petroleum products, vegetable oils, mineral oils, and air contaminated with petroleum oils.

**Not for use in hot water services**



### EPDM Gaskets

Compound Type: **EPDM**  
 Temperature Range: **-22°F to +230°F**  
 Color Code: *Black*  
 General Service Application:

- Water, dilute acids, alkalis, salts, and many chemical services not involving hydrocarbons, oils, or gases. Excellent oxidation resistance.

**Not for use with hydrocarbons**



## Grooved Piping System Guidelines

Grooved piping systems require a careful coupling selection. To ensure a properly set up system use the following guidelines:

- 1) The coupling must suit the pipe O.D., and pressure rating for the application in which it is to be used.
- 2) Use the correct gasket to suit the media being transported/conveyed.
- 3) Make sure the correct groove dimension is used to ensure the correct fittings of the coupling to the pipe.

The following industry standards must be followed to ensure a correct pipe joint assembly.

- a) All bolts should be torqued evenly to achieve metal to metal contact at the bolt pads.
- b) Tongue and recess housings must be checked for correct alignment.
- c) Apply Dixon gasket lubricant to all rubber surfaces to ensure a no pinch assembly.
- d) Test the system slowly (preferably hydrostatically) and check for leaks.
- e) Depressurize the system before carefully dismantling the couplings.

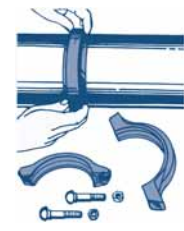
## Installation Instructions



**1**  
 A socket wrench is the only tool needed to assemble the gasket, housing, nuts and bolts.



**2**  
 Before installing the gasket, make sure that the pipe ends are correctly grooved. Remove any burrs, scores, rust or other imperfections from the pipe ends and gasket.



**3**  
 Smear ordinary rubber grease on the inside and outside of the gasket. Stretch the gasket over one pipe end and bring the other pipe to be coupled into alignment. Slide the gasket into the center between the grooves on the two pipe ends.



**4**  
 Attach the two sections of the housings and insert the bolts and nuts.



**5**  
 Tighten the bolts evenly until the housings are firmly together with the metal touching.

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*The Right Connection™*

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**[www.dixonvalve.com](http://www.dixonvalve.com)**



The Right Connection™

# Forged Steel Hammer Unions

*A safe and efficient way to quickly connect and disconnect API threaded pipe connections*



100 series

### Specifications:

- Pressure ratings of 1,000 PSI NSCWP to 15,000 PSI NSCWP can be accommodated depending on the model number selected.
- Sizes offered range from 1" to 8"
- Models are color coded to assist in quickly identifying pressure ratings.
- Ideal for air, water, oil and gas applications
- Buttweld and socket weld configurations and other materials are available, contact the factory for further information.

## 100 Series

- Used on low pressure manifolds and lines and in applications running air, water, oil or gas up to 1,000 PSI NSCWP (non-shock cold working pressure)

Size	Part #	Description	NSCWP
2"	<b>HU100200</b>	2" hammer union - 100 series, yellow sub, black nut	1000
2½"	<b>HU100250</b>	2½" hammer union - 100 series, yellow sub, black nut	1000
3"	<b>HU100300</b>	3" hammer union - 100 series, yellow sub, black nut	1000
4"	<b>HU100400</b>	4" hammer union - 100 series, yellow sub, black nut	1000
6"	<b>HU100600</b>	6" hammer union - 100 series, yellow sub, black nut	1000
8"	<b>HU100800</b>	8" hammer union - 100 series, yellow sub, black nut	1000

## 200 Series

- Used in general service applications running air, water, oil or gas up to 2,000 PSI NSCWP (non-shock cold working pressure)

Size	Part #	Description	NSCWP
1"	<b>HU200100</b>	1" hammer union - 200 series, grey sub, blue nut	2000
1½"	<b>HU200150</b>	1½" hammer union - 200 series, grey sub, blue nut	2000
2"	<b>HU200200</b>	2" hammer union - 200 series, grey sub, blue nut	2000
2½"	<b>HU200250</b>	2½" hammer union - 200 series, grey sub, blue nut	2000
3"	<b>HU200300</b>	3" hammer union - 200 series, grey sub, blue nut	2000
4"	<b>HU200400</b>	4" hammer union - 200 series, grey sub, blue nut	2000
6"	<b>HU200600</b>	6" hammer union - 200 series, grey sub, blue nut	2000

## 206 Series

- O-ring mounted sub provides excellent sealing properties
- Runs air, water, oil or gas up to 2,000 PSI NSCWP (non-shock cold working pressure)

Size	Part #	Description	NSCWP
1"	<b>HU206100</b>	1" hammer union - 206 series, grey sub, blue nut	2000
1½"	<b>HU206150</b>	1½" hammer union - 206 series, grey sub, blue nut	2000
2"	<b>HU206200</b>	2" hammer union - 206 series, grey sub, blue nut	2000
2½"	<b>HU206250</b>	2½" hammer union - 206 series, grey sub, blue nut	2000
3"	<b>HU206300</b>	3" hammer union - 206 series, grey sub, blue nut	2000
4"	<b>HU206400</b>	4" hammer union - 206 series, grey sub, blue nut	2000
6"	<b>HU206600</b>	6" hammer union - 206 series, grey sub, blue nut	2000

## 602 Series

- Lip type seal ring minimizes fluid flow turbulence while creating a pressure seal
- For use in mud, manifold service and truck mounting applications running air, water, oil, gas or mud up to 6,000 PSI NSCWP (non-shock cold working pressure)

Size	Part #	Description	NSCWP
1"	<b>HU602100</b>	1" hammer union - 602 series, orange sub, black nut	6000
2"	<b>HU602200</b>	2" hammer union - 602 series, orange sub, black nut	6000

## 1002 Series

- Lip type seal ring minimizes fluid flow turbulence while creating a pressure seal
- For use in high pressure systems and truck mounting applications running air, water, oil, gas or mud up to 10,000 PSI NSCWP (non-shock cold working pressure)

Size	Part #	Description	NSCWP
1"	<b>HU1002100</b>	1" hammer union - 1002 series, blue sub, red nut	10000
2"	<b>HU1002200</b>	2" hammer union - 1002 series, blue sub, red nut	10000
4"	<b>HU1002400</b>	4" hammer union - 1002 series, blue sub, red nut	10000

## 1502 Series

- Lip type seal ring minimizes fluid flow turbulence while creating a pressure seal
- For use in extreme high pressure applications running air, water, oil, gas or mud up to 15,000 PSI NSCWP (non-shock cold working pressure)

Size	Part #	Description	NSCWP
2"	<b>HU1502200</b>	2" hammer union - 1502 series, red sub, blue nut	15000

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The Right Connection™

Printed in the USA

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Dixon

# Holedall Crimp System

*Dixon introduces a new dimension in permanently attached fittings with the new Holedall Crimp System.*



- Master die I.D. (standard): 145 mm
- Crimping force: **265 tons**
- Maximum hose diameter: 4" I.D.
- Maximum die travel: 2.36"
- Maximum die opening without dies: 7.16"
  - Length: 29"
  - Width: 20"
  - Height: 32"
  - Weight: 579 lbs.
- Electrical power (standard): 230V 3Ph
- Optional:
  - Electrical power: 440V 3 Ph
  - Electrical power: 220V 1 Ph
  - Pump HP: 7.5 HP
- Manual / fully automatic crimping
- Inch / metric settings
- Approximate crimps per hour: 1415

## Complete Crimp System Contains:

- 1 - Crimp 400 machine
- 1 - Digital control panel
- 1 - Mechanical stop
- 1 - Stand with foot pedal and die holder panel
- 11 - Small die sets from 1.02" - 3.07"
- 8 - Large die sets from 3.31" - 4.96"
- Note: large dies are not stored on the stand
- Quick change die tool



Dixon

# Holedall Crimp Fittings and Ferrules

*1½", 2", 3", and 4" crimp combination nipples  
Cast stainless steel and carbon steel stems and ferrules  
Uses notched ferrules so stems are reusable*



- Notched cam and groove  
1½", 2", 3", and 4"  
Stainless steel
- Holedall  
1½", 2", 3", and 4"  
Carbon steel and stainless steel  
crimp combination nipples

## Sanitary Fittings



- Clamp end configuration  
1", 1½", 2", 3", and 4"  
• 316 stainless steel stems  
• 304 stainless steel ferrules
- Configurations available in Spring 2006
  - Bevel Seat end
  - I-line end
  - Tube Weld end



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## Hose Coupling Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the **Rubber Manufacturers Association** recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations.
- Call Dixon (1-800-355-1991) for advice on couplings, retention devices, and accessories for your application.



The Right Connection™

# Holedall Coupling System

For almost half a century, Holedall couplings have provided long-lasting efficiency and safety.

Dixon Holedall stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall Products.

## Externally Swaged Stems

### Ends

- NPT
- Beveled
- Grooved (Victaulic)
- Female

### Female End

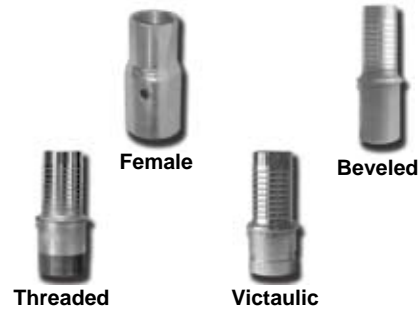
- Require special pushers for 1½" - 2" sizes

### Materials

- Carbon steel
- 316 SS

### Sizes

- 1¼" - 10" ID hose



For higher working pressure applications, use Long style stems and ferrules.

## Externally Swaged Notched Fittings

### Sizes

- 1½" - 4" hose ID
- For hose OD less than 2-4/64", couplings must be crimped.
- For hose OD larger than 2-5/64", couplings can be swaged or crimped.

### Materials

- 316 SS stem
- 304 SS ferrule



Stem can be re-used after proper removal from assembly and inspection. It can be attached to a new hose by using a new ferrule.

## Externally Swaged Ferrules

### Styles

- High pressure
- Standard
- Holedall II (for Royal-Flex hose)
- Notched
- Long

### Materials

- Carbon steel
- 316 SS
- 304 SS

### Sizes

- 1¼" - 10"



The selection of ferrules is very important to achieve the proper coupling-to-hose assembly.

## Externally Swaged Assemblies

### Styles

- High pressure
- Flanged
- Uni-Range
- Rotary

### Materials

- Carbon steel
- 316 SS
- 304 SS
- Plated steel

### Sizes

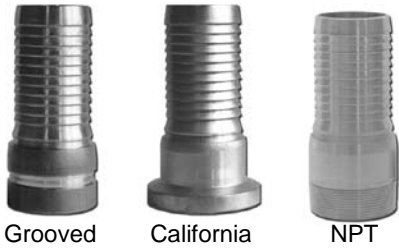
- Call Factory for sizes



Please consult the Factory for working pressure requirements.



## Internal Expansion Stems



Grooved

California

NPT

### Materials

- Carbon steel

### Sizes

- 1" - 4"

### Ends

- NPT (IXM)
- California (IXH)
- Grooved (IXV)

## Internal Expansion Ferrules



Standard

### Styles

- Standard

### Materials

- Carbon steel

### Sizes

- 1" - 6" hose ID

## Internal Expansion Accessories



Butt Weld x  
California End



Clamp

### Materials

- Schedule 40 pipe
- Galvanized steel

### Sizes

- 1½" - 4"

### Products

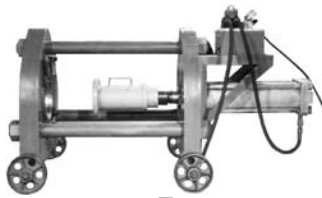
- Butt Weld x California Style end (HDE)
- Clamps - use with HDE series

*Please consult the Factory for working pressure requirements.*

## Rams



15 Ton



100 Ton



50 Ton

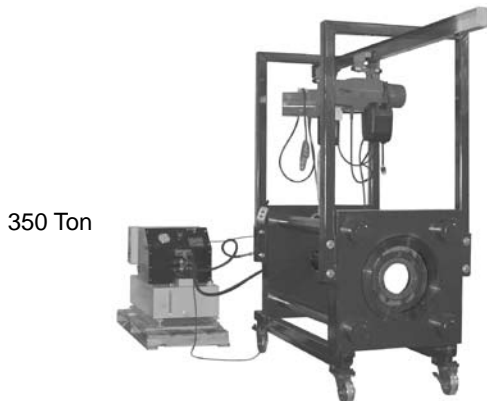
Our Rams can swage or internally expand various sizes of fittings and numerous hose types. Please consult the Factory for additional information.

### Styles

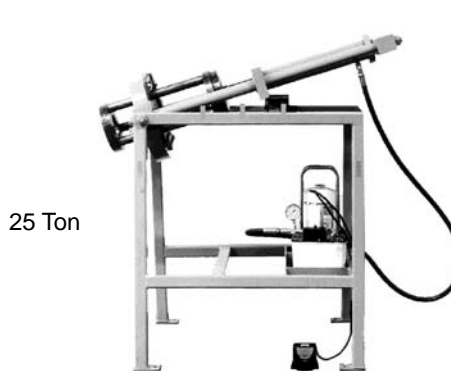
- Bench mounted
- Free standing
- Wheeled

### Sizes

- 15 Ton
- 25 Ton
- 50 Ton
- 100 Ton
- 350 Ton



350 Ton



25 Ton

**Dixon Valve & Coupling Co.**  
800 High Street  
Chestertown, MD 21620



The Right Connection™

800.355.1991  
Fax: 800.283.4966  
[www.dixonvalve.com](http://www.dixonvalve.com)

# Holedall Petroleum Fittings



*The Right Connection™*

## Internally Expanded Permanent Couplings - Scovill Style

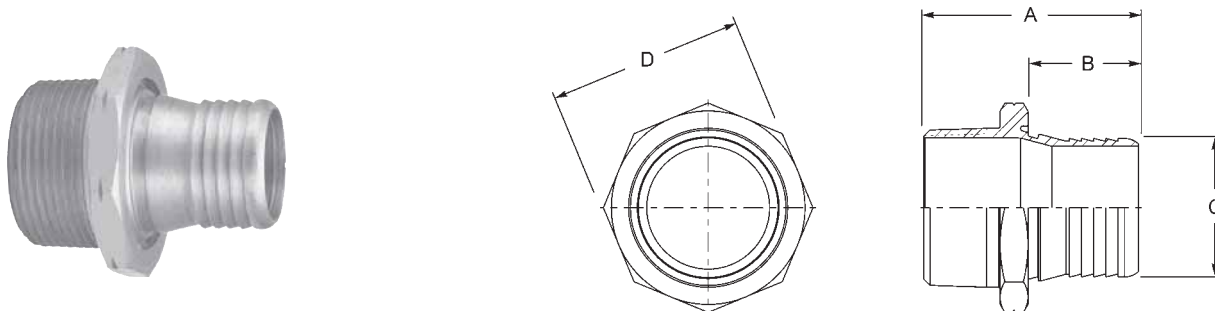
Brass internally expanded permanent coupling are recommended for low pressure discharge and suction service. Commonly used in the transfer of fuel in industry to homes, airplanes, ships, etc. The working pressure of the 520-H fitting varies with the size of the fitting, the size and construction of the hose and the media being conveyed. Consult the factory for recommendations. Dixon Holedall stems and ferrules are specifically designed to be used together as a coupling system. *Due to differences in dimensions and tolerances for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall products.*

Both the male and female have octagonal facets for tightening with a wrench. The female in 1½" and larger sizes has special lugs for tightening. Couplings grip hose firmly over a broad area to provide a permanent, trouble-free assembly. The stem is expanded to nominal I.D. of hose for a rigid, uniform, full-flow area.

- Male and female stems are machined from bar stock or solid brass forgings; ferrules are available in brass and stainless steel.
- Couplings are compact, light and streamlined to eliminate catching on curbs and shrubs.
- The H520 fittings are designed for internal expansion only.
- Couplings are pre-lubricated for assembly.
- Hand and electrically operated installation equipment is available. Consult factory for pricing and availability.

## 520-H Series

Male Threaded End x Hose Shank



Thread Type	Hose Size	Part #	A Over All Length	B Shank Length	C Shank Diameter	D Across Flats
NPT	3/4"	<b>H5192</b>	1-31/32	1	3/4	1-1/2
	1"	<b>H5212-A</b>	2-1/4	1-1/8	1	1-13/16
	1-1/4"	<b>H5222-A</b>	2-27/64	1-1/4	1-1/4	2-1/8
	1-3/8"	<b>H5272</b> <sup>1</sup>	2-23/32	1-7/16	1-3/8	2-3/8
	1-1/2"	<b>H5232-A</b>	2-21/32	1-7/16	1-1/2	2-3/8
	2"	<b>H5242</b>	3-1/8	1-3/4	2	3
	2-1/2"	<b>H5252</b>	3-7/8	2	2-1/2	3-1/2
	3"	<b>H5262</b>	4-1/2	2-3/8	3	4-1/16
NST	1"	<b>H5212NST</b>	2	1-1/8	1	1-13/16
	1-1/2"	<b>H5232NST</b>	2-3/8	1-7/16	1-1/2	2-3/8

Long Style<sup>2</sup>

NPT	2"	<b>H5242L-A</b>	3-11/16	2-5/16	2	3
	2-1/2"	<b>H5252L-A</b>	4-15/16	3-1/16	2-1/2	3-1/2
	3"	<b>H5262L-A</b>	5-3/4	3-5/8	3	4-1/16

<sup>1</sup> 1-3/8" coupling has 1-1/2" thread.

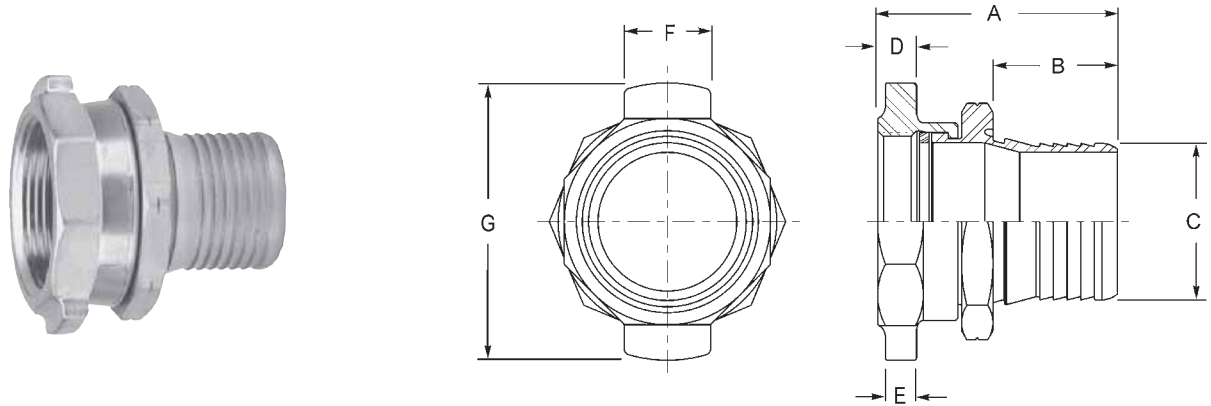
<sup>2</sup> Long shank stems to be used with long shank stainless ferrules on page 4.



**Do not interchange with other manufacturer's fittings.**

## 520-H Series

Female Threaded End x Hose Shank



Thread Type	Hose Size	Part #	A Over All Length	B Shank Length	C Shank Diameter	D Nut Thickness	E Lug Thickness	F Lug Width	G Across Lugs
NPSH	3/4"	<b>H5191-BU</b>	2-3/16	1	3/4	3/8	----	----	1-5/16
	1"	<b>H5211-A-BU</b>	2-9/32	1-1/8	1	3/8	----	----	1-5/8
	1-1/4"	<b>H5221-A-BU</b>	2-19/32	1-1/4	1-1/4	15/32	----	----	1-15/16
	1-3/8"	<b>H5271-BU</b> <sup>1</sup>	2-3/4	1-7/16	1-3/8	15/32	9/32	15/16	2-9/32
	1-1/2"	<b>H5231-A-BU</b>	2-27/32	1-7/16	1-1/2	15/32	9/32	15/16	2-9/32
	2"	<b>H5241-BU</b>	3-1/2	1-3/4	2	19/32	3/8	1-1/8	3-9/16
NPSM	2-1/2"	<b>H5251</b>	4-1/8	2	2-1/2	5/8	1/2	1-3/8	4-7/16
	3"	<b>H5261</b>	4-5/8	2-3/8	3	9/16	7/16	1-9/16	5-3/16
	4"	<b>H5281</b>	4-11/16	2-5/16	4	3/4	1/2	2	6-1/4
NST	1"	<b>H5211NST</b>	2-9/32	1-1/8	1	3/8	----	----	1-5/8
	1-1/2"	<b>H5231NST</b> <sup>2</sup>	2-27/32	1-7/16	1-1/2	15/32	9/32	15/16	2-9/32

Long Style<sup>3</sup>

NPSH	2"	<b>H5241L-A-BU</b>	4-1/16	2-5/16	2	19/32	3/8	1-1/8	3-9/16
NPSM	2-1/2"	<b>H5251L-A-BU</b>	5-3/16	3-1/16	2-1/2	5/8	1/2	1-3/8	4-7/16
	3"	<b>H5261L-A-BU</b>	5-7/8	3-5/8	3	9/16	7/16	1-9/16	5-3/16

<sup>1</sup> 1-3/8" coupling has 1-1/2" thread.<sup>2</sup> 1½" NST requires special adapter, part # **H5231NSTADT**<sup>3</sup> Long shank stems to be used with long shank stainless ferrules on page 4.

- 3/4" - 1-3/8" are not available with lugs.
- Dimensional information given relates to the distance across the flats of the nut.
- Replacement washers listed below

**Do not interchange with other manufacturer's fittings.**

SAFETY  
ALERT

## Replacement Washers

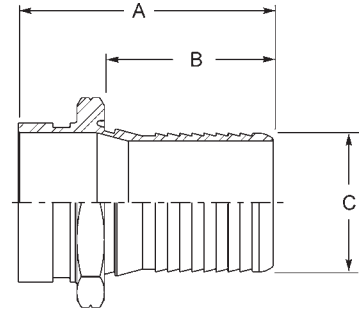
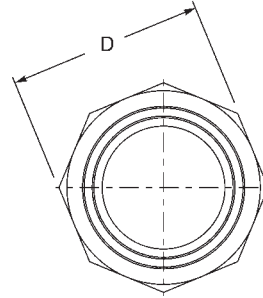
Replacement washers for 520-H female internally expanded permanent couplings above.

Size	Buna Part #
3/4"	<b>H5071-BU</b>
1"	<b>H5072-BU</b>
1¼"	<b>H5073-BU</b>
1½"	<b>H5074-BU</b>
2"	<b>H5075-BU</b>
2½"	<b>H5076-BU</b>
3"	<b>H5077-BU</b>
4"	<b>H5078-BU</b>



520-G Series

Grooved End x Hose Shank



Hose Size	Part #	A Over All Length	B Shank Length	C Shank Diameter	D Across Flats
1"	<b>G5212</b>	2-5/16	1-1/8	1	1-13/16
1-1/2"	<b>G5232</b>	2-3/4	1-7/16	1-1/2	2-3/8
2"	<b>G5242</b>	3-1/8	1-3/4	2	3

520-H Ferrules



A wide range of 520-H ferrules permits a perfect assembly of a coupling to a corresponding size of hose within commercial tolerances. Eliminates need for large stock of coupling bodies. Consult Dixon for other hose O.D.'s. Stainless steel ferrules are for use with internally expanded long shank permanent couplings on pages 2 and 3.

For 520-H Long Shanks  
Stainless Steel

Brass

Hose I.D.	Hose O.D. Range		Brass Part #	Hose I.D.	Hose O.D. Range		Brass Part #	Stainless Steel ** Part #
	From	To			From	To		
3/4"	1-8/64"	1-11/64"	<b>R75AAS</b>	2"	2-27/64"	2-30/64"	<b>R2AAS</b>	<b>R2AASS</b>
	1-12/64"	1-14/64"	<b>R75AS</b>		2-31/64"	2-34/64"	<b>R2AS</b>	<b>R2ASS</b>
	1-15/64"	1-17/64"	<b>R75BS</b>		2-35/64"	2-38/64"	<b>R2BS</b>	<b>R2BSS</b>
	1-18/64"	1-20/64"	<b>R75CS</b>		2-39/64"	2-42/64"	<b>R2CS</b>	<b>R2CSS</b>
1" *	1-24/64"	1-26/64"	<b>R1AAAS</b>		2-43/64"	2-46/64"	<b>R2DS</b>	<b>R2DSS</b>
	1-27/64"	1-29/64"	<b>R1AAS</b>		2-47/64"	2-50/64"	<b>R2E</b>	---
	1-30/64"	1-32/64"	<b>R1AS</b>		2-51/64"	2-54/64"	<b>R2FS</b>	---
	1-33/64"	1-35/64"	<b>R1BS</b>		2 1/2"	2-62/64"	3-1/64"	<b>R25AS</b>
	1-36/64"	1-38/64"	<b>R1CS</b>	3-2/64"		3-6/64"	<b>R25BS</b>	<b>R25BSS</b>
	1-39/64"	1-41/64"	<b>R1DS</b>	3-7/64"		3-11/64"	<b>R25CS</b>	<b>R25CSS</b>
1-42/64"	1-44/64"	<b>R1ES</b>	3-12/64"	3-16/64"		<b>R25DS</b>	<b>R25DSS</b>	
1 1/4" *	1-39/64"	1-42/64"	<b>R125AAS</b>	3-17/64"	3-21/64"	<b>R25ES</b>	---	
	1-43/64"	1-46/64"	<b>R125AS</b>	3-22/64"	3-26/64"	<b>R25FS</b>	---	
	1-47/64"	1-50/64"	<b>R125BS</b>	3"	3-30/64"	3-34/64"	<b>R3AAAS</b>	<b>R3AAASS</b>
	1-51/64"	1-54/64"	<b>R125CS</b>		3-35/64"	3-39/64"	<b>R3AAS</b>	<b>R3AASS</b>
	1-55/64"	1-58/64"	<b>R125DS</b>		3-40/64"	3-45/64"	<b>R3AS</b>	<b>R3ASS</b>
1-3/8"	1-59/64"	1-62/64"	<b>R125ES</b>	3-46/64"	3-50/64"	<b>R3BS</b>	<b>R3BSS</b>	
	1-47/64"	1-50/64"	<b>R1375BS</b>	3-51/64"	3-54/64"	<b>R3CS</b>	<b>R3CSS</b>	
	1-51/64"	1-54/64"	<b>R1375CS</b>	4"	4-35/64"	4-36/64"	<b>R4AAAS</b>	** 2", 2 1/2" and 3" stainless steel long ferrules will be replaced by API ferrules on page 5 as inventory is depleted.
	1-55/64"	1-58/64"	<b>R1375DS</b>		4-37/64"	4-38/64"	<b>R4AAS</b>	
1-59/64"	1-62/64"	<b>R1375ES</b>	4-39/64"		4-40/64"	<b>R4AS</b>		
1 1/2" *	1-54/64"	1-57/64"	<b>R15AAAS</b>		4-41/64"	4-42/64"	<b>R4BS</b>	
	1-58/64"	1-62/64"	<b>R15AAS</b>		4-43/64"	4-44/64"	<b>R4CS</b>	
	1-63/64"	2-2/64"	<b>R15AS</b>		4-45/64"	4-46/64"	<b>R4DS</b>	
	2-3/64"	2-6/64"	<b>R15BS</b>		4-47/64"	4-48/64"	<b>R4ES</b>	
	2-7/64"	2-11/64"	<b>R15CS</b>		4-49/64"	4-50/64"	<b>R4FS</b>	
	2-12/64"	2-14/64"	<b>R15DS</b>	4-51/64"	4-52/64"	<b>R4GS</b>		
	2-15/64"	2-19/64"	<b>R15ES</b>	4-53/64"	4-54/64"	<b>R4HS</b>		
	2-20/64"	2-24/64"	<b>R15FS</b>					
2-25/64"	2-28/64"	<b>R15GS</b>						

\* 1", 1 1/4" and 1 1/2" ferrules will be replaced by API ferrules on page 5 as inventory is depleted.



## API Certified Fittings

The following fittings have been tested and are compliant with API 1529 6th edition. Coupling procedures, ferrule recommendations and API test data are available upon request, please contact the factory. API 1529 6th edition testing was conducted in cooperation with the following API hose manufacturers:



### 520-H Series API Certified Permanently Attached Couplings



Male



Female

Hose Size	Thread	Part #
1"	NPT	<b>H5212-A</b>
1¼"	NPT	<b>H5222-A</b>
1½"	NPT	<b>H5232-A</b>
2"	NPT	<b>H5242L-A</b>
2½"	NPT	<b>H5252L-A</b>
3"	NPT	<b>H5262L-A</b>
4"	NPT	<b>H5282L-A</b>

Hose Size	Thread	Assembly Part # with Buna washer
1"	NPSH	<b>H5211-A-BU</b>
1¼"	NPSH	<b>H5221-A-BU</b>
1½"	NPSH	<b>H5231-A-BU</b>
2"	NPSH	<b>H5241L-A-BU</b>
2½"	NPSM	<b>H5251L-A-BU</b>
3"	NPSM	<b>H5261L-A-BU</b>
4"	NPSM	<b>H5281L-A-BU</b>

### 520-H Series Ferrules



Brass

Hose I.D.	Hose O.D. Range		Brass Part #
	From	To	
1"	1-24/64"	1-26/64"	<b>R1AAAS-A</b>
	1-27/64"	1-29/64"	<b>R1AAS-A</b>
	1-30/64"	1-32/64"	<b>R1AS-A</b>
	1-33/64"	1-35/64"	<b>R1BS-A</b>
	1-36/64"	1-38/64"	<b>R1CS-A</b>
	1-39/64"	1-41/64"	<b>R1DS-A</b>
	1-42/64"	1-44/64"	<b>R1ES-A</b>
	1¼"	1-39/64"	1-42/64"
1-43/64"		1-46/64"	<b>R125AS-A</b>
1-47/64"		1-50/64"	<b>R125BS-A</b>
1-51/64"		1-54/64"	<b>R125CS-A</b>
1-55/64"		1-58/64"	<b>R125DS-A</b>
1-59/64"		1-62/64"	<b>R125ES-A</b>
1½"		1-54/64"	1-57/64"
	1-58/64"	1-62/64"	<b>R15AAS-A</b>
	1-63/64"	2-2/64"	<b>R15AS-A</b>
	2-3/64"	2-6/64"	<b>R15BS-A</b>
	2-7/64"	2-11/64"	<b>R15CS-A</b>
	2-12/64"	2-14/64"	<b>R15DS-A</b>
	2-15/64"	2-19/64"	<b>R15ES-A</b>

Stainless Steel

Hose I.D.	Hose O.D. Range		304 Stainless Steel Part #
	From	To	
2"	2-31/64"	2-34/64"	<b>R2ASS-A</b>
	2-35/64"	2-38/64"	<b>R2BSS-A</b>
	2-39/64"	2-42/64"	<b>R2CSS-A</b>
	2-43/64"	2-46/64"	<b>R2DSS-A</b>
	2-47/64"	2-50/64"	<b>R2ESS-A</b>
	2½"	2-62/64"	3-1/64"
3-2/64"		3-6/64"	<b>R25BSS-A</b>
3-7/64"		3-11/64"	<b>R25CSS-A</b>
3-12/64"		3-16/64"	<b>R25DSS-A</b>
3"	3-17/64"	3-21/64"	<b>R25ESS-A</b>
	3-35/64"	3-39/64"	<b>R3AASS-A</b>
	3-40/64"	3-45/64"	<b>R3ASS-A</b>
	3-46/64"	3-50/64"	<b>R3BSS-A</b>
	3-51/64"	3-54/64"	<b>R3CSS-A</b>
4"	3-55/64"	3-59/64"	<b>R3DSS-A</b>
	4-46/64"	4-48/64"	<b>R4ESS-A</b>
	4-49/64"	4-51/64"	<b>R4FSS-A</b>
	4-52/64"	4-54/64"	<b>R4GSS-A</b>
	4-55/64"	4-57/64"	<b>R4HSS-A</b>
	4-58/64"	4-59/64"	<b>R4KSS-A</b>
	4-60/64"	4-62/64"	<b>R4LSS-A</b>
	4-63/64"	5"	<b>R4MSS-A</b>

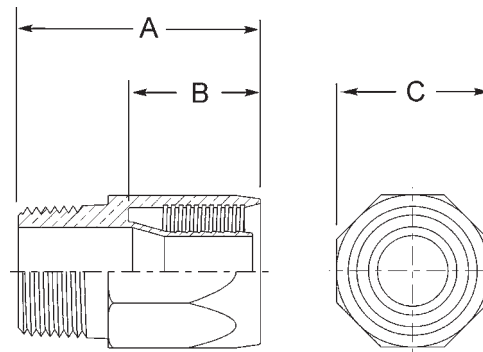
## Internally Expanded Permanent Couplings

The most economical and trouble-free couplings for gas pump hose. Serrations on the stem become imbedded in the hose eliminating wicking and leakage. The shell extends beyond the stem to prevent cutting of interior walls. Tapered ends of stem and shell protect hose when flexed.

- Couplings provide tamper-proof static connection which cannot be broken without completely damaging coupling and hose.
- Internal expansion of stem to nominal I.D. of hose provides full flow
- Broad, firm grip of coupling extends hose life by making it possible for hose to withstand more flexings.
- Hand and electrically operated installation equipment is available. Consult factory for pricing and availability.
- **Caution:** Reattach static wire if required.

### 570-H Series

Male Threaded End x Hose Shank



Size				Chrome plated brass Part #	Dimensions			
Hose I.D.	x	NPT Male	x		Hose O.D.	A Over All Length	B Shank Length	C Across Flats
5/8"	x	3/4"	x	1"	<b>H5741</b>	1-57/64	1-7/64	1-3/16
5/8"	x	3/4"	x	1-1/32"	<b>H5742</b>	1-57/64	1-7/64	1-3/16
3/4"	x	3/4"	x	1-9/64"	<b>H5751</b>	2-5/64	1-9/32	1-5/16
3/4"	x	3/4"	x	1-11/64"	<b>H5752</b>	2-5/64	1-9/32	1-5/16
3/4"	x	3/4"	x	1-13/64"	<b>H5753</b>	2-5/64	1-9/32	1-5/16
3/4"	x	3/4"	x	1-7/32"	<b>H5754</b>	2-5/64	1-9/32	1-3/8
3/4"	x	3/4"	x	1-17/64"	<b>H5755</b> <sup>1</sup>	2-5/64	1-9/32	1-19/32
1"	x	1"	x	1-25/64"	<b>H5771</b>	2-21/64	1-15/32	1-19/32
1"	x	1"	x	1-29/64"	<b>H5772</b>	2-21/64	1-7/16	1-19/32
1"	x	1"	x	1-1/2"	<b>H5773</b>	2-21/64	1-7/16	1-23/32
1"	x	1"	x	1-9/16"	<b>H5774</b>	2-21/64	1-7/16	1-23/32

<sup>1</sup> Thrust plate is required (#25000HTL15)

### HB Coupling Expander Machine



- Hand operated, pull through type expander
- For use in a fixed location for small production runs or as a portable repair type expander.
- Attaches sizes 3/4" through 2" of the 520-H Series couplings, and all sizes of 570-H and 580-H Series couplings.

**Note:** Expander tooling sold separately.

Part #

**2500HB0000**

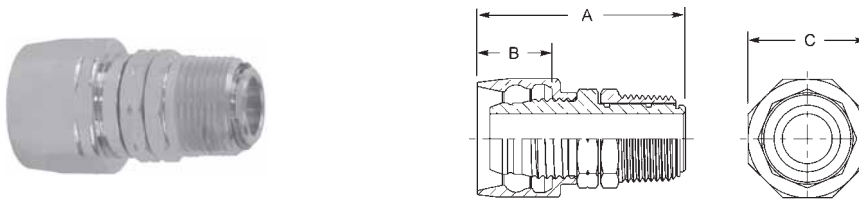


## Dubl-Grip® Reattachable Couplings for Curb Pump Hose

Two-piece re-attachable coupling made of chrome-plated brass for pump hose. Streamlined design prevents damage to hose and fits smartly on new pump equipment. Wide, flat surfaces of body threads protect inside of hose from breaking. Tapered surfaces of sleeve and body cradle hose, prevent one-point strain from flexing. Hose is gripped on its full circumference in two places, insuring a rigid leakproof connection.

- Worn portion of hose can be removed and Dubl-Grip® can be reapplied.
- Easy assembly:  
Hose is held in position by sleeve as body is threaded home.  
Only a wrench is required to assemble the Dubl-Grip®.
- **Caution:** Reattach static wire if required.

### H-600 Series Dubl-Grip® Swivel Reattachables

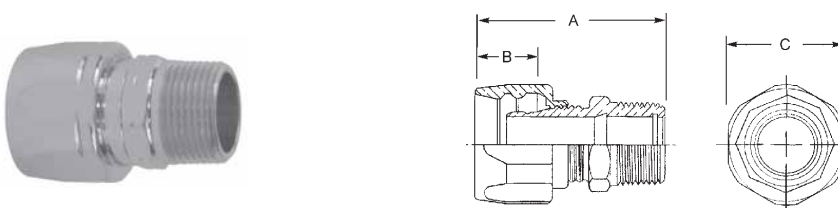


Size				Part #	Dimensions			
Hose I.D.	x	NPT Male	x		Hose O.D.	A Over All Length	B Shank Length	C Across Flats
5/8"	x	3/4"	x	1-1/16"	<b>H600</b>	2-5/8	1-1/32	1-9/32
5/8"	x	3/4"	x	1"	<b>H601</b>	2-5/8	1-1/32	1-7/32
5/8"	x	3/4"	x	1-1/32"	<b>H602</b>	2-5/8	1-1/32	1-1/4
3/4"	x	3/4"	x	1-1/8"	<b>H603</b>	2-13/16	1-1/8	1-11/32
3/4"	x	3/4"	x	1-13/64"	<b>H604</b>	2-13/16	1-5/32	1-13/32
3/4"	x	3/4"	x	1-1/4"	<b>H605</b>	2-13/16	1-1/8	1-15/32
1"	x	1"	x	1-3/8"	<b>H609</b> *	3-1/8	1-1/8	1-5/8
1"	x	1"	x	1-7/16"	<b>H610</b> *	3-1/8	1-1/8	1-23/32
1"	x	1"	x	1-1/2"	<b>H611</b> *	3-1/8	1-1/8	1-23/32

Couplings have standard male NPT threads

\* Octagonal shape

### Dubl-Grip® Reattachables



Size				Part #	Dimensions			
Hose I.D.	x	NPT Male	x		Hose O.D.	A Over All Length	B Shank Length	C Across Flats
5/8"	x	3/4"	x	1"	<b>850212</b>	2-7/16	1-1/32	1-7/32
5/8"	x	3/4"	x	1-1/32"	<b>850213</b>	2-7/16	1-1/32	1-1/4
5/8"	x	3/4"	x	1-1/16"	<b>850214</b>	2-7/16	1-1/32	1-5/16
3/4"	x	3/4"	x	1-1/8"	<b>850451</b>	2-5/8	1-1/8	1-11/32
3/4"	x	3/4"	x	1-13/64"	<b>850455</b>	2-5/8	1-5/32	1-13/32
3/4"	x	3/4"	x	1-1/4"	<b>850453</b>	2-5/8	1-1/8	1-15/32
1"	x	1"	x	1-3/8"	<b>850841</b> *	2-11/16	1-1/8	1-5/8
1"	x	1"	x	1-7/16"	<b>850801</b> *	2-11/16	1-1/8	1-23/32
1"	x	1"	x	1-1/2"	<b>850811</b> *	2-11/16	1-1/8	1-23/32

Couplings have standard male NPT threads

\* Octagonal shape

### General Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the **Rubber Manufacturers Association** recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations.
- Call Dixon (1-800-355-1991) for advice on couplings, retention devices, and accessories for your application.

Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

**Dixon Valve & Coupling Company**

800 High Street, Chestertown, MD 21620

Customer Service: 800.355.1991

Fax: 800.283.4966

**[www.dixonvalve.com](http://www.dixonvalve.com)**



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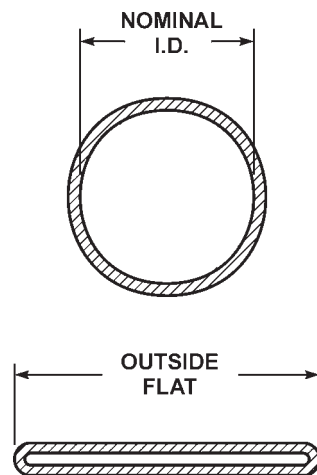
## Protective Hose Coverings



These woven nylon tubular sleeves are uniquely designed and ideal for protecting the coverings on hydraulic and industrial hoses.

### Built in protection:

- Durable construction offers unmatched cut and abrasion resistance.
- Protective hose coverings can extend a hose's life and reduce down time.
- The tight-fitting seamless weave provides an extra layer of safety protection.
- If a covered hose is damaged or a rupture occurs, the protective sleeve will help retain the fluid or disperse it in a controlled manner.
- The nylon weave withstands temperatures up to **275°F (135°C)**, passes flammability tests, and has MSHA acceptance.



Nominal I.D.	Outside Flat	100' rolls Part #	300' rolls Part #
0.90"	1.50"	<b>DHS90-100</b>	<b>DHS90-300</b>
1.00"	1.66"	<b>DHS100-100</b>	<b>DHS100-300</b>
1.06"	1.88"	<b>DHS106-100</b>	<b>DHS106-300</b>
1.22"	2.13"	<b>DHS122-100</b>	<b>DHS122-300</b>
1.38"	2.25"	<b>DHS138-100</b>	<b>DHS138-300</b>
1.42"	2.50"	<b>DHS142-100</b>	<b>DHS142-300</b>
1.59"	2.62"	<b>DHS159-100</b>	<b>DHS159-300</b>
1.59"	2.75"	<b>DHS159-1-100</b>	<b>DHS159-1-300</b>
1.75"	2.88"	<b>DHS175-100</b>	<b>DHS175-300</b>
1.81"	3.00"	<b>DHS181-100</b>	<b>DHS181-300</b>
2.19"	3.63"	<b>DHS219-100</b>	<b>DHS219-300</b>
2.38"	3.88"	<b>DHS238-100</b>	<b>DHS238-300</b>
2.63"	4.25"	<b>DHS263-100</b>	<b>DHS263-300</b>
2.88"	4.75"	<b>DHS288-100</b>	<b>DHS288-300</b>
3.66"	5.88"	<b>DHS366-100</b>	<b>DHS366-300</b>

# Flame Retardant Hose & Cable Protection

Provides heavy duty protection for hose, cable or wire. Guards against rubbing, crushing and environmental hazards. Ideal for hydraulic hose applications. Used in offshore industries as well as in mining, quarrying, and forestry.



- Chemical and UV ray resistant
- Self-lubricating to reduce hose wear
- Easy to install on-site
- Smooth radius on all edges
- Can be used on single or multiple hose bundles

## Flame Retardant Product

- Approved by MSHA 1C-231/1
- Flame retardant and self extinguishing
- Temperature Range: **-148°F to 212°F, (-100°C to 100°C)**

Spiral Guard I.D.*	Coil Length	1 Wire	2 Wire	Multi Spiral Hose	Flame Retardant Part #
1/2"	66'	#4	#4	---	<b>FRSGX16</b>
5/8"	66'	#6	#4	#6	<b>FRSGX20</b>
3/4"	66'	#8	#8	#8	<b>FRSGX25</b>
15/16"	66'	#12	#10	#12	<b>FRSGX32</b>
1-1/4"	66'	#16	#16	#16	<b>FRSGX40</b>
1-1/2"	66'	#20	#20	#20	<b>FRSGX50</b>
1-15/16"	66'	#32	#24	#24	<b>FRSGX63</b>
2-3/8"	66'	---	#32	#32	<b>FRSGX75</b>
2-5/8"	66'	---	---	---	<b>FRSGX90</b>
3-3/16"	33'	---	---	---	<b>FRSGX110</b>

\* Spiral guard I.D. is equal to the guard I.D. at rest.

## Standard Product

- **NOT** flame retardant
- Temperature Range: **-58°F to 194°F, (-50°C to 90°C)**

Spiral Guard I.D.*	Coil Length	1 Wire	2 Wire	Multi Spiral Hose	Standard Product Part #
1/2"	66'	#4	#4	---	<b>NFSGX16</b>
5/8"	66'	#6	#4	#6	<b>NFSGX20</b>
3/4"	66'	#8	#8	#8	<b>NFSGX25</b>
15/16"	66'	#12	#10	#12	<b>NFSGX32</b>
1-1/4"	66'	#16	#16	#16	<b>NFSGX40</b>
1-1/2"	66'	#20	#20	#20	<b>NFSGX50</b>
1-15/16"	66'	#32	#24	#24	<b>NFSGX63</b>
2-3/8"	66'	---	#32	#32	<b>NFSGX75</b>
2-5/8"	66'	---	---	---	<b>NFSGX90</b>
3-3/16"	33'	---	---	---	<b>NFSGX110</b>

\* Spiral guard I.D. is equal to the guard I.D. at rest.

# Fire Jackets for Hose

Protect hose, hose assemblies, tubing, piping, wiring and cables from high temperatures or molten splash. Helps maintain line temperature and reduce environmental overheating or overcooling.



- Compounded silicone rubber coating over fiberglass
- Non-asbestos
- Resistant to hydraulic fluids and lubricating oil
- Jackets slide easily over hose and expand to go over fittings.
- Iron oxide red in color
- Supplied in 50' lengths
- Temperature Range: **-65°F to 500°F (-54°C to 260°C)**.

Nominal I.D.	Part #
1/4"	<b>0610-4</b>
3/8"	<b>1010-6</b>
1/2"	<b>1310-8</b>
5/8"	<b>1610-10</b>
3/4"	<b>1910-12</b>
7/8"	<b>2210-14</b>
1"	<b>2510-16</b>
1-1/4"	<b>3210-20</b>
1-1/2"	<b>3810-24</b>
1-3/4"	<b>4510-28</b>
2"	<b>5110-32</b>

## Dixon Valve & Coupling Company

800 High Street, Chestertown, MD 21620

Phone: 410-778-2000

Customer Service: 410-778-2002 • 800-355-1991

Fax: 410-778-4702 • 800-283-4966

[www.dixonvalve.com](http://www.dixonvalve.com)



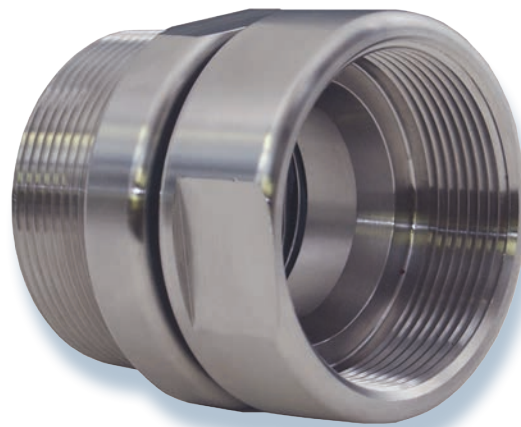
The Right Connection™



The Right Connection™

# Stainless Steel Hose Swivels

Swivel function - allows the hose to relax to it's natural rest position while allowing freedom of movement without adding torque stress at the point of connection (torque stress is the largest single cause of composite, PTFE and stainless steel hose failure).

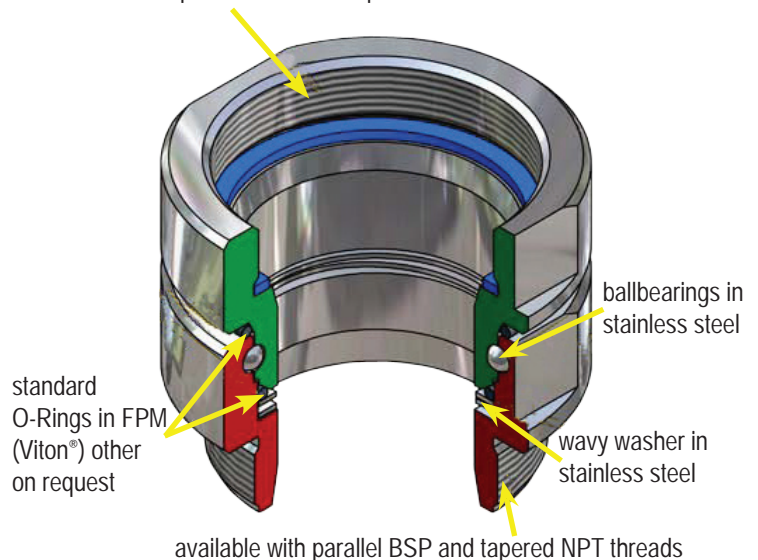


## Features

- simple design, low maintenance - each unit consists of two 316 stainless body halves, ball bearings and a washer
- Viton® seals are standard, Chemraz® and Kalrez® are optional
- working pressure: **150 PSI**

Size	Part #
¾"	<b>HS075SS</b>
1"	<b>HS100SS</b>
1½"	<b>HS150SS</b>
2"	<b>HS200SS</b>
3"	<b>HS300SS</b>
4"	<b>HS400SS</b>

available with parallel BSP and tapered NPT threads



available with parallel BSP and tapered NPT threads

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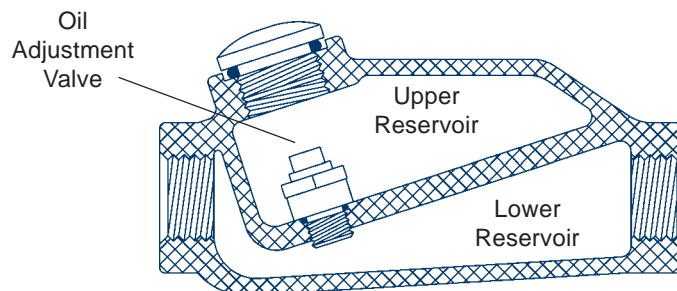
The Right Connection™

# In-Line Lubricators

*Designed for use with hose-connected tools that are too far from the compressor to be lubricated by a permanently mounted unit.*



- The minimum flow rate that must be achieved for the PL series lubricators to work is 30 SCFM. A flow rate less than 30 SCFM will not create the pressure difference needed between chambers to force the oil into the air stream.
- Install within 25 feet of the air tool requiring lubrication, refer to the arrow for proper air flow direction
- Transparent sight disc allows visual inspection of oil level
- Oil flow regulated by screwdriver adjustment of oil adjustment valve inside body
- Not recommended for constant flow applications
- *For use on reciprocating tools only*
- Can dispense standard air tool lubricant or Dixon anti-freeze lubricant
- Lubricator body is 356-T6 aluminum



## Description:

The lubricator has two reservoirs. The upper reservoir holds the oil and a lower reservoir that is the passageway for the air to enter. The air and oil mixture exits through the lower reservoir. The oil adjustment valve between the two compartments initially allows air to enter the reservoir to pressurize it, and then it controls the amount of oil entering the air stream.

## How it works:

Before the hose is charged with air the pressure in both chambers of the lubricator is equal. When the tool is turned on it draws air from the compressor through the lower chamber. As air passes through the lower chamber it creates an area of low pressure. When the pressure in the lower chamber is less than the pressure in the upper chamber the dual purpose oil adjustment valve allows oil to flow at the set rate into the airstream of the chamber below to lubricate the tool. When the flow of air stops, the oil adjustment valve allows pressure to build in the top chamber until the pressure is equal between the top and bottom. As long as the pressure in the upper chamber is less than or equal to the pressure in the lower chamber no oil will flow through the oil adjustment valve.

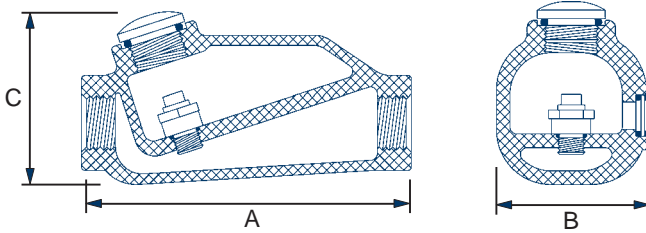


### Installation:

- At start up, additional lubricant is required to coat the inside of the line between the lubricator and the tool. To avoid operating a dry tool, add ½ ounce (15cc) of oil directly into the line.
- By removing the fill plug and using a screwdriver, the operator can adjust the amount of oil flowing into the air stream. It is not necessary to shut off the airflow to do this.
- The viscosity of the oil used and uniqueness of the application determine the right setting for proper lubrication. A setting of 5 is suitable for average conditions using 10-weight oil. Remember that the lag time between adjustment and resulting effect at the tool may be as long as an hour. Make small adjustments, and check the result.

### Storage:

- The simple principle behind the operation of this lubricator does not provide for oil shut off when the tool is not being used. To prevent a pressure differential from forcing the remaining oil from the reservoir into the air line, turn the lubricator upside down or open the fill plug to depressurize the reservoir.



NPT Sizes	Part #	Oil Capacity	Max. Working Pressure	Air Flow at 70 PSI	Length A	Width B	Height C	Weight
½"	<b>PL300</b>	1.4 fluid ozs.	<b>500 PSI</b>	30 SCFM	4½"	2¼"	2¼"	14 ozs.
¾"	<b>PL400</b>	3.7 fluid ozs.	<b>200 PSI</b>	70 SCFM	6"	2¾"	2¾"	22 ozs.
¾"	<b>PL400L</b>	11.0 fluid ozs.	<b>300 PSI</b>	70 SCFM	7"	3½"	3¾"	38 ozs.
1"	<b>PL500</b>	16.0 fluid ozs.	<b>250 PSI</b>	100 SCFM	10"	4¼"	4"	69 ozs.

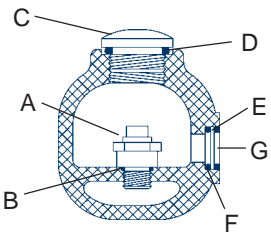
### Available with Filter

Combination unit consists of a **9076M** particle filter with 40 micron sintered bronze element and a **PL400** (3.7 ounce) or **PL400L** (11.0 ounce) lubricator.



Part #	Maximum Working Pressure
<b>PL400WF</b>	<b>200 PSI</b>
<b>PL400LWF</b>	<b>300 PSI</b>

### Repair Parts (same for all sizes)



Description	Part #	Description	Part #
(A) oil adjustment valve assembly	<b>851661</b>	(E) sight disk	<b>452532</b>
(B) valve gasket	<b>452531</b>	(F) sight disk seal	<b>700013-016</b>
(C) fill plug	<b>452525</b>	(G) sight disk lock nut	<b>452533</b>
(D) fill plug O-ring	<b>700013-214</b>		

### Type of oil to use:

Any petroleum-base, non-detergent light weight oil (SAE 10/150SSU) which will readily break up into a mist, i.e., Mobil DTE light or comparable oil. *Do not use any synthetic oil or oils containing additives or solvents.*

Lubricant Part #	Anti-Freeze Part #	Size	pkg qty
<b>DATL016</b>	<b>DATL016W</b>	1 pint	12
<b>DATL128</b>	<b>DATL128W</b>	1 gallon	4



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800 High Street  
Chestertown, MD 21620  
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## Safety Notes SAFETY ALERT

- *Note: These lubricators are only recommended for use with tools that are frequently turned on and off.*
- *Wear eye protection when connecting or disconnecting couplings. Always use a whip hose with impact tools, King Cable to protect junctions, and couplings that are compatible with the media being transferred.*
- *Always unscrew fill plug slowly to depressurize upper chamber before filling or adjusting valve.*

## Hose Coupling Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations.
- Call Dixon (1-800-355-1991) for advice on couplings, retention devices, and accessories for your application.

# Inside Air Applications



*The Right Connection™*

# Table of Contents

Air Chief Profile Chart .....	3
Industrial Interchange Couplings .....	4-5
Automotive Interchange Coupling .....	6
ARO Speed Couplings .....	7
Lincoln Series Couplings .....	8
Universal Couplings .....	9
Blow Guns .....	10-11
Filters, Regulators, Lubricators .....	12
Gauges .....	13-15
Ferrules & Equipment .....	16
Tubing & Cutters .....	17
Compression & Push-In Fittings .....	18
Air Hoses .....	19
Mini In-Line FRL's .....	20
Pinch-On Clamps .....	21
Ball Valves .....	22-27
Safety Check Valve .....	28
King Safety Cables .....	29
Air Accessories .....	30
Technical Information .....	31-35

## Hose Coupling Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size**, **Temperature**, **Application**, **Media**, and **Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, [www.osha.gov](http://www.osha.gov).)
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.

## The Importance of Whip Hose

### SAFETY

### ALERT

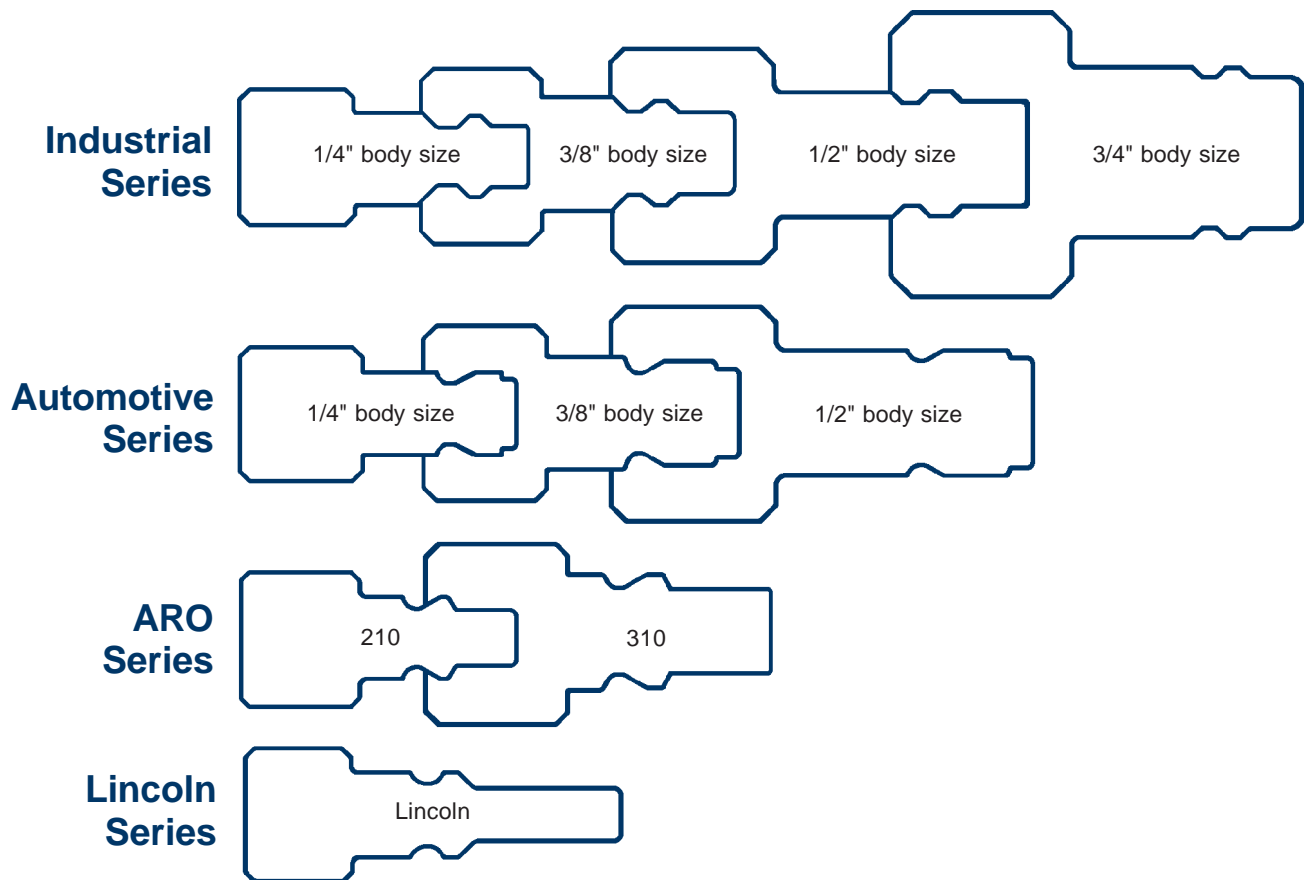
The constant vibration created by air tools, like air drills and pavement breakers, is destructive to air hose couplings, especially the quick-acting type. To provide protection against coupling breakage and related hazards, Dixon recommends the use of a whip hose. To construct a whip hose, connect one end of a short (3' to 10') air hose to the air tool using a 3500 type steel nipple. Connect the other end of the hose to the air supply using the standard quick-acting coupling. The heat-treated 3500 nipple will withstand vibration far better than the standard coupling and provide a safer connection. The whip hose should remain permanently connected to the tool.

# Actual Size Profile Chart

*For easy identification of the four major styles of air quick disconnect plugs*

Use:

- This chart may be used to identify the style of air chief fittings.



Notes:

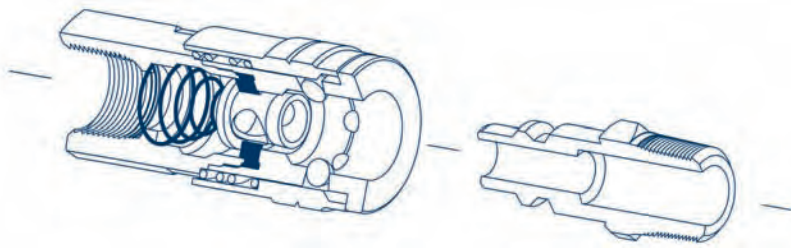
- 1/2" industrial series may also interchange with 1/2" automotive series



## Air Chief

# Industrial Interchange Couplings

*Air Chief industrial quick-connect plugs and couplers are able to interchange with many other styles*



### Service:

- rated to **300 PSI**
- temperature range: **-40° to 250°F**

### Features:

- For air service only.
- couplers shut-off when disconnected



### Materials:

- steel
- brass
- 303 stainless steel

### Connecting:

- semi-automatic couplers  
*A sleeve guard design reduces the risk of unintentional disconnection.*
- automatic couplers  
*Allows one hand operation.*

### Disconnecting:

- pull

### Interchange:

- interchangeable with MIL-C-4109F/A-A-59439

### Configurations:

- female pipe thread
- male pipe thread
- standard hose barb
- push-on hose barb



## Angled Swivel Plug

Angled swivel plugs are lightweight and streamlined. They can be used in the automotive and electronics industries, workstations, commercial and residential construction, and robotic joints. Helps alleviate carpal tunnel syndrome and back stress resulting in fewer lost time injuries.

### Service:

- rated to **145 PSI**
- temperature range: **20°F to 140°F**

### Features:

- *For air service only.*
- 360° circular rotation and 45° angled rotation
- male NPT

### Materials:

- body is nickel-plated steel
- dust cover is polyurethane



## Legris Industrial Interchange Automatic Safety Couplers

This innovative safety coupler has a unique two-turn release that quickly vents downstream air pressure before disconnecting, preventing serious injuries associated with hose whip. It is made with a tough composite material which will stand up to the most abusive applications, yet is lightweight.

- 1/4" body size ensures an excellent flow and total security due to disconnection in two steps
- Automatic connection: simply push the plug into the coupler until it clicks; no rotation of the coupler is necessary to make the connection.
- Perfectly suited for numerous installations including:
  - pneumatic tools
  - blow guns
  - pneumatic automotive equipment
- composite, non-marring body
- compatible with industrial interchange plugs
- male NPT and female NPT
- rated to **230 PSI**
- temperature range: **-4°F to 140°F**



1. vents plug



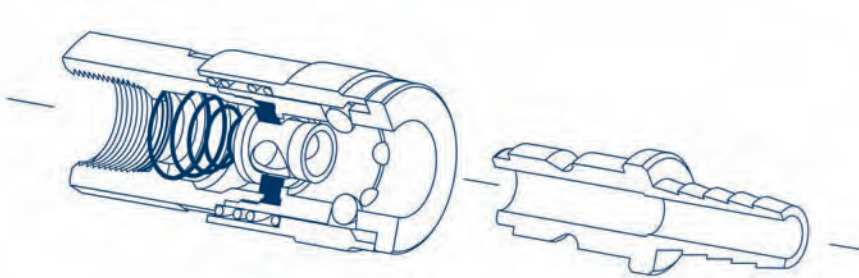
2. disconnects



## Air Chief

# Automotive Interchange Couplings

*Air Chief automotive quick-connect plugs and couplers are completely compatible with the "Truflate" coupling system.*



### Service:

- rated to **300 PSI**
- temperature range: **-40° to 250°F**

### Features:

- couplers shut-off when disconnected

### Materials:

- steel
- brass

### Connecting:

- semi-automatic couplers  
*A sleeve guard design reduces the risk of unintentional disconnection.*

### Disconnecting:

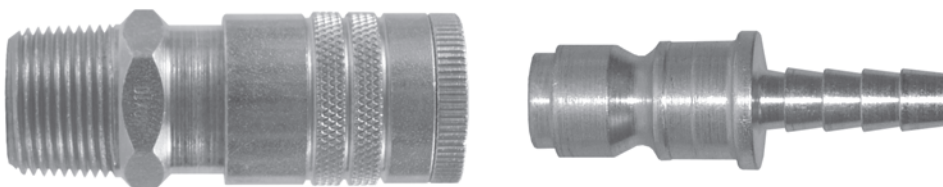
- pull

### Interchange:

- interchangeable with Amflo, Dill, Milton and Truflate
- There are some models which do not interchange.  
*If you plan to interchange these couplings, make sure you have plug ends with the proper configuration.*

### Configurations:

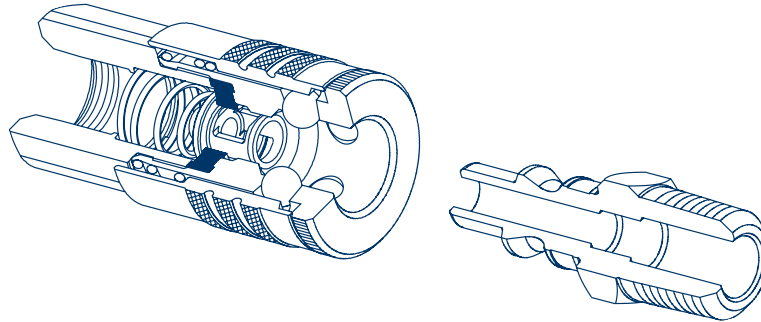
- female pipe thread
- male pipe thread
- standard hose barb
- push-on hose barb



**Air Chief**

# ARO Speed Couplings

*Air Chief ARO Speed quick-connect plugs and couplers are completely compatible with the ARO 210/310 series coupling system.*

**Service:**

- rated to **300 PSI**
- temperature range: **-40° to 250°F**

**Features:**

- couplers shut-off when disconnected

**Materials:**

- steel
- brass

**Connecting:**

- semi-automatic couplers  
*A sleeve guard design reduces the risk of unintentional disconnection.*

**Disconnecting:**

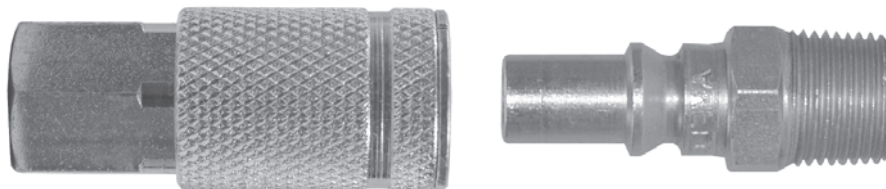
- pull

**Interchange:**

- interchangeable with ARO210 and 310 designs

**Configurations:**

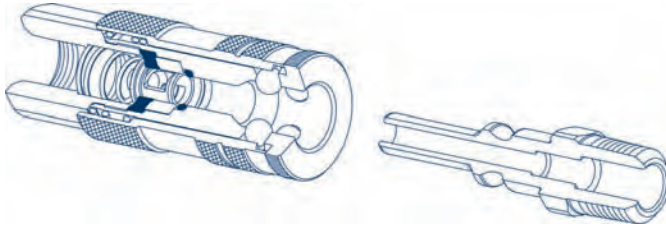
- female pipe thread
- male pipe thread
- standard hose barb
- push-on hose barb



## Air Chief

# Lincoln Series Couplings

*Air Chief Lincoln series quick-connect plugs and couplers are completely compatible with the Lincoln "Flex-O-Matic" (also known as the "Long Nose") coupling system.*



### Service:

- rated to **300 PSI**
- temperature range: **-40° to 250°F**

### Features:

- couplers shut-off when disconnected

### Materials:

- steel
- brass

### Connecting:

- semi-automatic couplers  
*A sleeve guard design reduces the risk of unintentional disconnection.*

### Disconnecting:

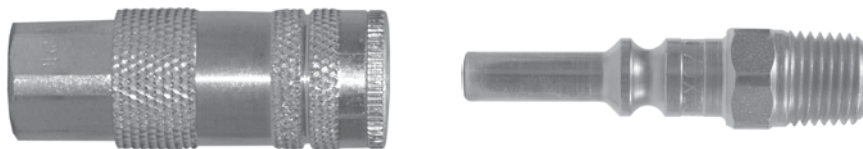
- pull

### Interchange:

- interchangeable with Lincoln's long stem series

### Configurations:

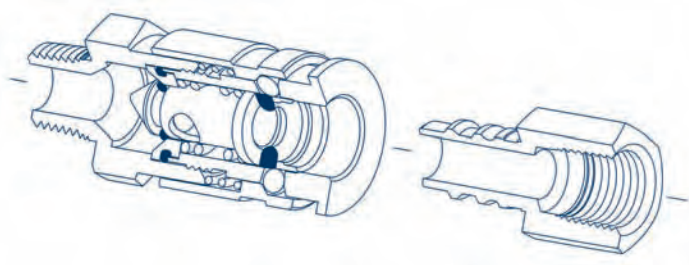
- female pipe thread
- male pipe thread



**Air Chief**

# Universal Couplings

*Air Chief Universal quick-connect fittings are designed for use in compressed air service.*

**Service:**

- rated to **300 PSI**
- temperature range: **-40° to 250°F**

**Features:**

- shut-off when disconnected
- euro-style valving ensures maximum flow performance

**Material:**

- brass

**Connecting:**

- automatic couplers
- *A sleeve guard design reduces the risk of unintentional disconnection.*

**Disconnecting:**

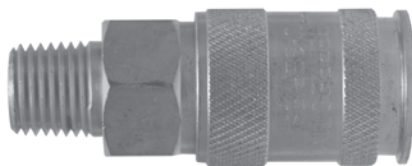
- pull

**Interchange:**

- interchangeable with MIL-C-4109F, ARO210, Truflate, Lincoln, Italian standard and CEJN 320

**Configurations:**

- female pipe thread
- male pipe thread
- standard hose bard



**Dixon**

# Blow Guns

*Blow guns offer the user a safe method of directing pressurized air for a specific need.*

Service:

- see individual product specifications for PSI rating

Inlet:

- ¼" female NPT

Safety:

- *Safety glasses or shield must be worn when using any blow gun.*

## Air Chief Safety



SAFETY  
ALERT

- The Air Chief safety blow gun has a safety tip which prevents buildup of tip pressure in the event the outlet is obstructed or "dead ended".
- Complies with the requirements for OSHA 1910.242(B) and 1910.95 when used on air lines of **150 PSI** or less.
- Chrome plated zinc die cast body, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and nickel plated brass tip combine for superior corrosion resistance as well as a contemporary look.
- Recessed internal slotted screw allows easy access to valve assembly for repairs or replacement.
- part# (**D204-30**)

## Premium Safety



SAFETY  
ALERT

- The premium safety blow gun has a safety tip which prevents buildup of tip pressure in the event the outlet is obstructed or "dead ended".
- Complies with the requirements for OSHA 1910.242(B) and 1910.95 when used on air lines of **150 PSI** or less.
- Zinc die cast body with a black powder coat finish, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and nickel plated brass tip.
- part# (**D204-30P**)

## Safety Air Booster



SAFETY  
ALERT

- The safety air booster blow gun has a safety tip which prevents buildup of tip pressure in the event the outlet is obstructed or "dead ended".
- Complies with the requirements for OSHA 1910.242(B) and 1910.95 when used on air lines of **150 PSI** or less.
- Chrome plated zinc die cast body, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and nickel plated brass Safety Booster tip.
- part# (**D204-30SB**)

- Chrome plated zinc die cast body, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and ventless, nickel plated brass tip provide superior corrosion resistance.
- part# (**D605**)

- This blow gun **does not** have a safety by-pass to prevent buildup of tip pressure in the event of tip blockage. It may be used for cleaning purposes only if the air supply (inlet pressure) has been reduced to **30 PSI** or less.

**SAFETY  
ALERT**



## Non-Safety Brass Tipped

- Chrome plated zinc die cast body, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and rubber tip with a nickel plated brass base provide superior corrosion resistance.
- part# (**D201**)

- This blow gun **does not** have a safety by-pass to prevent buildup of tip pressure in the event of tip blockage. It may be used for cleaning purposes only if the air supply (inlet pressure) has been reduced to **30 PSI** or less.

**SAFETY  
ALERT**



## Non-Safety Rubber Tipped

- Conforms to U.S. Department of Labor, OSHA Standard 1910.242 (B) allowing a maximum of **30 PSI** outlet pressure at the nozzle when dead-ended.
- Conforms to Title 41, Walsh-Healy Rules and Regulations P50-204.8, Safety and Health Standards
- Contoured pistol-grip for safe, comfortable handling, even with greasy hands.
- Convenient hang-up hook
- part# (**PG700**)

## Pistol Grip Safety



- Has a safety tip which prevents buildup of tip pressure in the event the outlet is obstructed or "dead ended".
- Complies with the requirements for OSHA 1910.242(B) and 1910.95 when used on air lines of **150 PSI** or less.
- Conforms to Title 41, Walsh-Healy Rules and Regulations P50-204.8, Safety and Health Standards
- Slender 4" extended nozzle allows access to hard to reach places and holes as small as .200".
- Variable output trigger enables user to control air flow
- Hook design near trigger provides finger protection as well as easy storage.
- part# (**ENBG1**)

## Extended Nozzle Pistol Grip Safety



- lightweight and ergonomic
- pistol grip / hanging hook handle
- made from high quality aluminum casting
- requires high volume coupler and plug for optimum performance
- maximum pressure rating: **150PSI**
- available with conical tip (**HTBG-CT**)
- available with safety tip (**HTBG**)

## Heavy Duty - High Volume



with quiet conical tip



with safety tip



Reelcraft®

# Hose Reels

*Hose reels are an economical solution for safely storing hose assemblies.*

Material:

- all steel construction

Application uses:

- air and water hose storage

## 5000 Series



- spring driven
- available with or without hose
- maximum temperature: **150°F**
- reel inlet: 3/8" NPTF
- service: air / water
- hose capacity: 50' of 1/4" or 3/8" hose ID
- part# (**5•••LP**)

## 7000 Series



- spring driven
- hose capacity:
  - 70' of 3/8" hose ID for air / water
  - 50' of 1/4" hose ID for grease
  - 50' of 1/2" hose ID for oil
- available with or without hose

Low pressure

- maximum temperature: **150°F**
- reel inlet: 1/2" NPTF
- part# (**7800LP**)

Medium pressure

- maximum temperature: **210°F**
- reel inlet: 1/2" NPTF
- part# (**7800MP**)

High pressure

- maximum temperature: **210°F**
- reel inlet: 1/4" NPTF
- part# (**7600HP**)

## 80000 Series



- spring driven
- available with or without hose
- maximum temperature: **150°F** (with hose)
- maximum temperature: **210°F** (without hose)
- reel inlet: 3/4" NPTF
- hose capacity:
  - 100' of 1/2" hose ID
  - 50' of 3/4" hose ID
- part# (**8••••LP**)

## 30000 Series



- manual driven
- hose capacity:
  - 200' of 1/2" hose ID
  - 100' of 3/4" hose ID
- part# (**C3•112•**)

# FRL's Filters, Regulators, Lubricators

*Featuring Wilkerson, Norgren, and Watts*

## Filters

- automatic or manual drain
- metal bowl or transparent with guard
- 5-40 micron elements available
- oil removal (coalescing) filters available



Watts



Norgren



Wilkerson

## Regulators

- with or without gauge
- standard design or T-handle
- special designs - high pressure, water, high flow



Watts



Norgren



Wilkerson

## Filters / Regulators

- in-line or modular installation
- piggy-back design for installation in tight area
- common inlet/outlet for both filter and regulator
- saves on piping costs



Watts



Norgren



Wilkerson

## Lubricators

- transparent or metal bowl
- 1 oz. reservoir (minis) up to 2 gal. reservoir



Watts



Norgren



Wilkerson

## Combination Units

- in-line or modular installation
- wall mounting brackets included
- NPT pipe adapters included



Watts



Norgren



Wilkerson

Dixon

# Gauges

Featuring Ashcroft and Wika

## Standard Dry Gauges



- ASME B40.1, Grade B (+/- 3-2-3% accuracy)
- ABS plastic case
- c-shaped bronze safety bourdon tube (**600 PSI** and lower)
- helical wound bronze safety bourdon tube (**1000 PSI** and higher)
- polycarbonate crystal
- black aluminum pointer
- PowerFlex™ movement with polyester segment, designed to resist the effects of shock, vibration and pulsation.
- ambient temperature range of **-40°F** to **150°F**
- available in center back mount:
  - 1½" face (**GC6\*\***)
  - 2" face (**GC2\*\***)
- available in lower mount:
  - 2" face (**GL1\*\***)
  - 2½" face (**GL3\*\***)
  - 3½" face (**GS\*\*A, GS\*\*\*A**)

## FlutterGuard™ Dry Gauges



- FlutterGuard™ virtually eliminates pointer flutter, making the gauge easier to read and reducing excessive movement wear.
- Liquid-free casing results in lighter weight and eliminates the chance of gauge leakage.
- ASME B40.1, Grade B (+/- 3-2-3% accuracy)
- ABS plastic case
- c-shaped bronze safety bourdon tube (**600 PSI** and lower)
- helical wound bronze safety bourdon tube (**1000 PSI** and higher)
- Polycarbonate crystal
- black aluminum pointer
- PowerFlex™ movement with polyester segment, designed to resist the effects of shock, vibration and pulsation.
- ambient temperature range of **-40°F** to **150°F**
- available in lower mount 2½" face (**GL3\*\*FG**)

## All Stainless Steel Dry Gauges



- Stainless steel gauges provide the corrosion resistance and durability of a permanently sealed gauge.
- designed for severe service applications
- 3-2-3% accuracy
- 316 series stainless steel solid back case with polycarbonate window
- ¼" lower mount stainless steel connector
- 316 stainless steel bourdon tube and socket, polyester segment
- ambient temperature range of **-40°F** to **140°F**
- available in lower mount:
  - 2½" face (**GSS\*\*, GSS\*\*\*, GSS\*\*\*\***)
  - 3½" face (**GSS\*\*A, GSS\*\*\*A, GSS\*\*\*\*A**)

## All Stainless Steel Liquid Filled Gauges

- Stainless steel gauges provide the corrosion resistance and durability of a permanently sealed gauge.
- designed for severe service applications
- 2½" 316 series stainless steel solid back case with polycarbonate window
- ¼" lower mount stainless steel connector
- 316 stainless steel bourdon tube and socket, polyester segment
- glycerin filled
- ambient temperature range of **20°F to 140°F**
- available in a 2½" face:
  - center back mount (**GLSSC\*\*\***)
  - lower mount (**GLSS\*\***, **GLSS\*\*\***)



## Brass Liquid Filled Gauges

- Designed for severe service in hydraulic systems and other demanding applications.
- 1.5% accuracy on 2½"; 1% accuracy on 4"
- acrylic window with membrane assembly
- copper alloy bourdon tube
- brass movement with highly polished bearing surfaces
- glycerin filled
- ambient temperature range of **0°F to 140°F**
- available in center back mount:
  - 2½" face (**GLBRC\*\***, **GLBRC\*\*\***)
- available in lower mount:
  - 2½" face (**GLBR\*\***, **GLBR\*\*\***)
  - 4" face (**GLBR\*\*-4**, **GLBR\*\*\*-4**, **GLBR\*\*\*\*-4**)



**Dixon**

# Ferrules & Equipment

*Ferrules, and the easy to use application equipment, provide an economical solution for safely coupling "small bore" hose assemblies.*

## Ferrules



- for air or fluid service
- for use with medium or lightweight hose
- available in brass:  
(**BF**•••, **BFM**•••, **BFM**•••**B**, **BFL**•••, **BFW**•••, **BFMW**•••)
- available in stainless steel:  
(**SFL**•••, **SFM**•••, **SFW**•••)

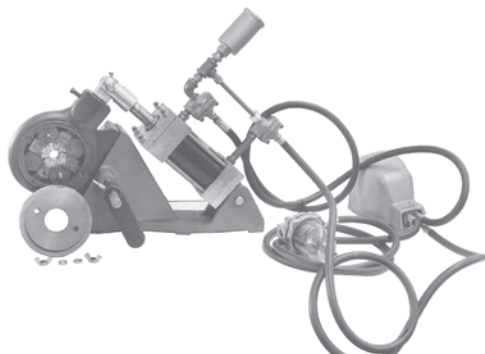
## Crimping Equipment



- hose crimper
- portable and easy to use
- part# (**855**, **855A**)
- larger model available: (**860**)
- replacement dies available



- manual brass ferrule crimper
- dies are available in ribbed or plain
- does not include dies
- part# (**5111A**)



- air-operated brass ferrule crimper
- installs on work bench
- part# (**1765A**)

**Dixon**

# Tubing & Cutters

*Dixon offers economically priced air/water tubing, and the tools to cut it properly.*

## Tubing

- braided PVC tubing (**CL\*\*\*\***)
- non-braided PVC tubing (**BR\*\*\*\***)
- Polyurethane (**\*\*\***)
- Polyethylene (**\*\*\***)
- Nylon 11 (**\*\*\***)



PVC

## Cutters

- used for PVC tubing and hose
- replacements blades available
- different styles and sizes available
- up to 3/4" (**TC97**)
- up to 1" (**HC90**)
- up to 2"; P.E. up to 1 1/2"; PVC up to 1 1/4" (**LHC95**)



LHC95



TC97

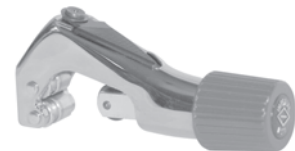


HC90

- used for copper tubing
- different styles and sizes available
- hi-duty (**TC-1000**) for 1/8" to 1-1/8" OD
- ratcheting (**TC-1050RH**) for 1/8" to 5/8" OD
- general (**174-F**) for 3/8" to 1-1/8" OD



174-F



TC-1000



TC-1050RH

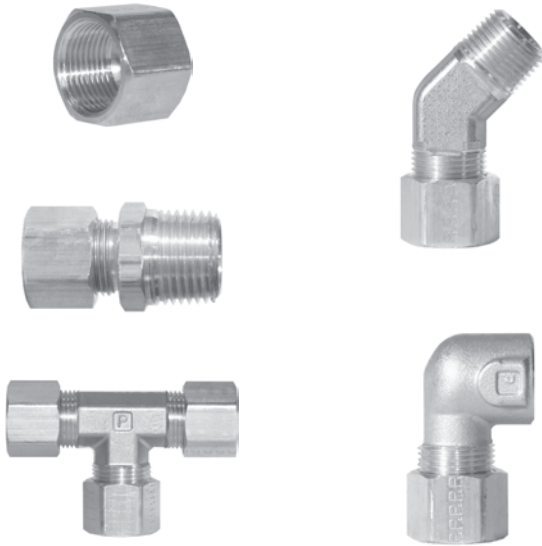


**Dixon**

# Compression & Push-In Fittings

*Offer a dependable solution for your tubing connection needs.*

## Compression Fittings



Advantages:

- No flaring, soldering or other preparation of tubing necessary to assemble.

Specifications:

- Listed with Underwriter's Laboratories for flammable liquid. *Compression fittings meet functional requirements of SAE J-512 and ASA.*

Materials:

- brass (fittings), Delrin® (sleeves)

Applications:

- Use with copper, aluminum and Parflex thermoplastic tubing.
- Manufactured for low and medium pressure tubing connection work where excessive vibration or tube movement is not involved.
- *Not recommended for steel tubing.*
- *Not recommended for application using gaseous media.*

Configurations:

- sleeves
- nuts
- unions
- tees
- elbows
- connectors
- straight through
- plugs

## Push-In Fittings



Service:

- working temperature and pressure varies between applications and type of fitting

Materials:

- brass
- stainless steel
- nickel-plated brass
- nylon/nickel-plated brass

Applications:

- suitable for many industries such as: chemical, food, packaging and medical

Configurations:

- unions
- tees
- elbows
- connectors

**Dixon**

# Air Hoses

*Offer a reliable solution for your air supply needs.*

**Service:**

- working pressure at 70°F: **210 PSI**
- temperature range: **-40°F to 155°F**

**Materials:**

- nylon-reinforced polyurethane

**Features:**

- lighter in weight than ordinary rubber hose
- A sturdy, nylon-reinforced braid between the inner and outer tube allows for a higher working pressure.
- durometer: Shore A85

**Advantages:**

- durable
- lightweight
- excellent flexibility
- oil resistant

## Polyurethane Air Hose



## Coil-Chief Self-Storing Air Hose

**Service:**

- working pressure at 70°F: **200 PSI**

**Materials:**

- yellow nylon
- brass swivel on one end with spring guard
- brass rigid fittings on one end with spring guard



- 
- repair kits available

## Polyurethane Self-Storing Air Hose

**Service:**

- working pressure at 70°F: **125 PSI**

**Materials:**

- blue polyurethane
- swivels on both ends

**Advantages:**

- extremely flexible - resists kinking
- impervious to abrasions, heat and oil
- superior elasticity and coil memory

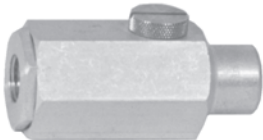


- 
- repair kits available

**Dixon**

# Mini In-Line FRL's

## Lubricators

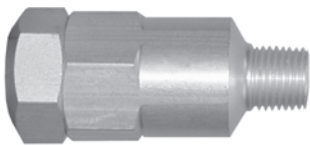
Service:

- maximum operating conditions: **200 PSIG** and **175°F**
- flow rating is 22 SCFM at 100 PSIG

Advantages:

- can be refilled under line pressure
- oil capacity is ¼ fluid ounce

## Filters

Service:

- maximum operating conditions: **200 PSIG** and **175°F**
- flow rating is 17 SCFM inlet pressure at 100 PSIG

Advantages:

- either port may be used as an inlet port
- filter element rated at 5 microns



Designed specifically for the protection of small air tools, such as impact wrenches, nut runners, grinders and screwdrivers. The all-anodized, lightweight aluminum housing is compact can be used directly before the air tool.

Service:

- maximum operating pressure: **500 PSI**
- operating temperatures: **35°F** to **200°F**
- air flow is 140 SCFM

Advantages:

- standard element is 40 micron, which ensures minimum pressure drop
- elements can be replaced quickly

## Regulators



Relieving piston design allows reduction of downstream pressure when the system is dead-ended.

Service:

- 5 to 125 PSIG outlet pressure adjustment range
- reliable pressure regulation at air flows up to 13 SCFM

Advantages:

- compact design and lightweight construction
- wrench flats for easy installation

**Dixon**

# Pinch-On Clamps

*Pinch-on Clamps offer an easy, efficient, and safe manner to secure hose ends in "small bore" assemblies.*

## Clamps

### Single Ear:

- fast, simple, and secure installation
- lightweight
- zinc-plated steel (•••)
- 304 stainless steel (•••R)

### Double Ear:

- increased diameter range over the single ear design
- fast, simple, and secure installation
- zinc-plated steel (••••)
- 304 stainless steel (••••R)

### Stepless®-Ear:

- fast, simple, and secure installation
- lightweight
- for low durometer and thin-walled hose
- provides a 360° seal
- 304 stainless steel (••••)

*single ear**double ear**stepless ear*

## Kits

### Service Kit:

contains:

- 9 sizes of clamps
- 1 standard jaw pincer
- part# (**SK1098**)

### Construction Kit:

contains:

- 2 sizes of clamps
- 1 size of menders
- 1 long handle pincher
- part# (**18500116**)

*construction kit*

## Tools

- straight jaw - long handle (**9901**)
- standard (**1098**)
- heavy duty - with side jaws (**1099**)

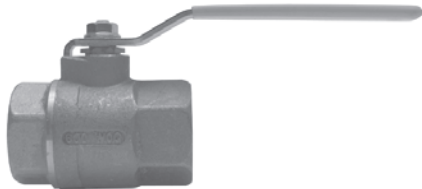
*standard*

**Dixon**

# Ball Valves

*Ball Valves are installed in-line to control the flow of liquids or gases from one point to another.*

## Domestic Brass Ball Valves

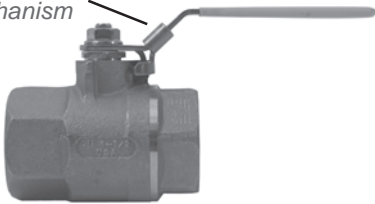


### Features:

- For control of air, water, oil and gas in hose or pipe lines. *For other services, please contact the factory.*
- rated to **600 PSI WOG**; **150 PSI** saturated steam
- brass valve bodies, balls and stems
- blow-out proof stems
- Glass-filled reinforced Teflon® seats and stuffing box ring; stem seals and washers.
- plated steel handles and nuts with vinyl sleeves, both styles repairable
- meets WW-V 35C, Type II Composition
- Ball valve handle replacements available, consult factory for pricing.
- ¼" - ½" available in full port design (**BBV..**)
- ¾" - 2" available in standard port design (**BBV...)**

## Locking Handle Brass Ball Valves

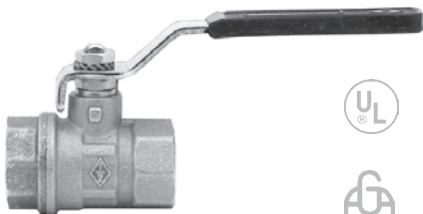
sliding lock mechanism



### Features:

- For control of air, water, oil and gas in hose or pipe lines. *For other services, please contact the factory.*
- rated to **600 PSI WOG**; **150 PSI** steam
- blow-out proof RPTFE stem
- chrome-plated brass ball
- Stainless steel sliding lock mechanism secures handle in open or closed position; can be padlocked open or closed.
- ¼" - ½" available in full port design (**BBLV..**)
- ¾" - 2" available in standard port design (**BBLV...)**

## Imported Brass Ball Valves



### Features:

- For control of air, water, oil and gas in hose or pipe lines. *For other services, please contact the factory.*
- Rated to **600 PSI WOG**; **100 PSI** steam
- forged brass bodies
- blow-out proof stems
- Teflon® seats, seals and thrust washers
- chrome-plated brass balls and plated steel handles
- temperature rated to **320°F**
- ¼" - 2" Underwriters, Factory Mutual, American Gas Association and Canadian Gas Association approved.
- 2½" - 4" Underwriters, and Canadian Gas Association approved.
- ¼" - 4" available in full port design (**FBV.., FBV...)**

## Global Brass Ball Valves



### Features:

- For control of air, water, oil and gas in hose or pipe lines.
- rated to **600 PSI WOG**
- body: forged brass, UNS#C37700
- adjustable stem packing nut
- silicone free
- temperature range to **300°F**
- Underwriters approved
- CSA (Canadian Standards Association) approved
- ½" - 2" available in full port design (**FBVG.., FBVG...)**

## Imported Brass Ball Valves

### Standard design

#### Features:

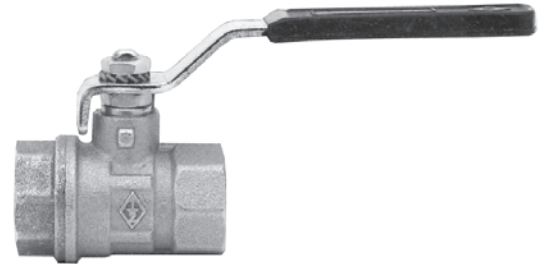
- For control of air, water, oil and gas in hose or pipe lines.  
*For other services, please contact the factory.*
- rated to **600 PSI WOG**; **100 PSI** steam
- forged brass bodies
- blow-out proof stems
- Teflon® seats, seals and thrust washers
- chrome-plated brass balls and plated steel handles
- temperature rated to **320°F**
- ½" - 2" available in standard port design (**BV..**, **BV...**)

### Full port design



#### Features:

- For control of air, water, oil and gas in hose or pipe lines.  
*For other services, please contact the factory.*
- rated to **400 PSI WOG**; **125 PSI** steam
- blow-out proof stems
- PTFE seats, double O-ring stem packing
- chrome-plated brass ball
- temperature rated to **266°F**
- Underwriters approved
- ½" - 2" available in full port design (**FBVI..**, **FBVI...**)



## Mini Ball Valves

#### Features:

- rated to **150 PSI**
- Nickel plated brass body
- Teflon® seats and Buna-N stem seal
- blow-out proof stem
- temperature range to **150°F**
- American Gas Association and Canadian Gas Association approved
- 1/8" & 1/2" available in standard port design (**MBV..**)
- 1/4" & 3/8" available in full port design (**MBV..**)

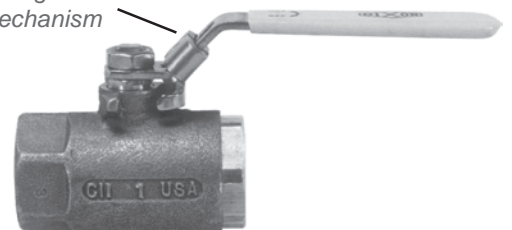


## Safety Vented Ball Valves

#### Features:

- for air service only
- rated to **150 PSI** saturated steam
- Lockable ball valves vent downstream air in accordance with new OSHA regulations for pneumatic systems.
- brass valve
- chromium plated ball
- RTFE seats and stuffing box ring
- blow-out proof stem design
- temperature range: **50°F to 200°F**
- adjustable packing gland
- ¼" - ½" available in full port design (**BBV..LV**)
- ¾" - 2" available in standard port design (**BBV...LV**)

sliding lock mechanism





## Bronze "Deadman" Spring Return Handle Ball Valves



### Features:

- rated to **600 PSI** WOG; **150 PSI** saturated steam
- vacuum service to 29 inches Hg
- threaded bronze valve
- stainless steel lever
- chromium plated ball
- RTFE seats and stuffing box ring
- blow-out proof stem design
- adjustable packing gland
- spring return to close and open valve
- Operating torque approximately three times standard valve torque.
- ½" available in full port design (**BBV50SR**)
- ¾" - 2" available in standard port design (**BBV...SR**)

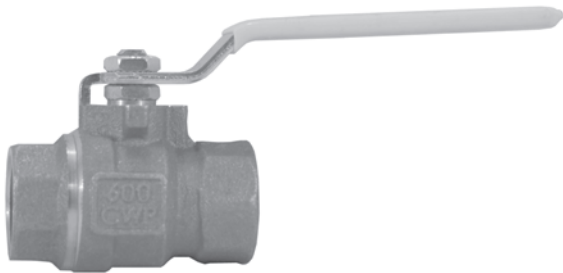
## Bronze Ball Valves with NPT Tap for Drain



### Features:

- recommended for water and air service
- rated to **125 PSI** WOG
- Bronze ball valves vent downstream air in accordance with OSHA regulations for pneumatic systems.
- chromium plated ball
- RTFE seats and stuffing box ring
- blow-out proof stem design
- adjustable packing gland
- Auto-drain / Auto-vent
- Features a ¼" NPT tapped port for additional options such as an air venting elbow or noise muffler.
- ¼" - 1" available in full port design (**BBV...VT**)

## Domestic Full Port Ball Valves



### Features:

- Rated to **600 PSI** WOG; **150 PSI** saturated steam
- machined solid chrome-plated ball
- multi-fill PTFE seats and seals
- adjustable packing
- blow-out proof stem design
- bronze castings
- vacuum service to 29 inches Hg
- ¼" - 2" available in full port design (**BBV..FP**, **BBV...FP**)

## 3-Way Diverting Ball Valves



### Features:

- rated to **400 PSI** WOG; **100 PSI** saturated steam
- brass body
- blow out proof stem
- chrome plated brass ball
- PTFE seats, seals, and thrust washer
- adjustable stem packing
- temperature rated to **320°F**
- female NPT
- ½" - 2" available in standard port design (**BBV...DTW**)

## 3-Way Diversion Ball Valves

**Brass Valves**Features:

- can be used with gasoline and diesel fuel
- rated to **400 PSI** WOG
- bronze body
- chromium-plated ball
- RPTFE seats and stuffing box ring
- stainless steel handle and nut with vinyl sleeve
- adjustable packing gland
- female NPT
- ½" available in full port design (**BBV50TW**)
- ¾" - 1" available in standard port design (**BBV..TW**)

**Stainless Steel Valves**Features:

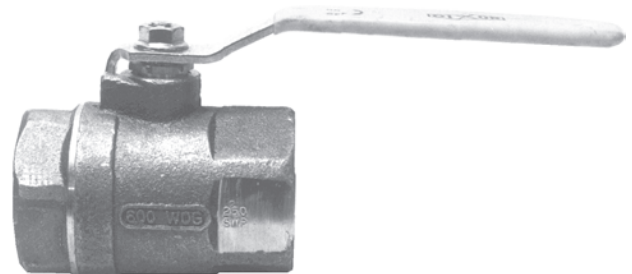
- rated to **800 PSI** WOG
- stainless steel body and ball
- blow out proof stem
- RPTFE seats and stuffing box ring
- stainless steel handle and nut with vinyl sleeve
- adjustable packing gland
- meets NACE MR-01-75
- female NPT
- ½" available in full port design (**SSV50TW**)
- ¾" - 1" available in standard port design (**SSV..TW**)

**Carbon Steel Ball Valves**Features:

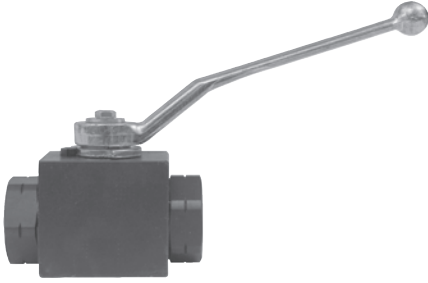
- ¼" to 1" are rated to **2000 PSI** WOG
- 1¼" to 2" are rated to **1500 PSI** WOG
- rated to **150 PSI** saturated steam
- For control of air, water, oil and gas in hose or pipe lines.  
*For other services contact the factory.*
- RPTFE seats and seals
- blow-out proof stem design
- adjustable packing gland
- chromium plated ball
- 1/4" - 3/8" available in full port design (**IBV..**)
- 1/2" - 2" available in standard port design (**IBV...)**

**250 Lb. Steam Ball Valves**Features:

- Recommended for use with fluids with widely varying temperatures and/or thermal expansion rates.
- rated to **600 PSIG; 250 PSI** saturated steam
- vacuum service to 29 inches Hg
- threaded bronze valve
- 316 stainless steel ball and stem
- multi-filled RPTFE seats
- multi-filled stuffing box ring
- high-temperature MTFE stem packing
- blow-out proof stem design
- adjustable packing gland
- maximum temperature rating **406°F**
- ½" available in full port design (**BBV50ST**)
- ¾" - 2" available in standard port design (**BBV..ST**)



## High Pressure Full-Bore Hydraulic Ball Valves



### Features:

- blow-out proof stems
- rugged construction
- Viton® shaft seals
- SAE ORB thread available
  - carbon steel:
    - ¼" - 2" available, (**HPBV...**)
  - stainless steel:
    - ¼" - 1" available, (**HPBV...SS**)

## Dual Y Valves



### Features:

- dual action valve, ideal for compressor applications
- female NPT threads
- non-vented rated to **600 PSI** WOG
- vented rated to **125 CWP** (Cold Working Pressure)
- 1" and 1¼" available in non-vented and vented flow
- non-vented (**BBV...DW**) and vented (**BBV...DWV**)

## Pneumatically Actuated Valves



3 piece stainless



3 way L-port

### Features:

- 3-piece and 2-piece designs
- 3-way L and T ports available
- available in brass and stainless steel
- dual-acting and spring return designs
- female NPT

## Electrically Actuated Ball Valves



brass

### Features:

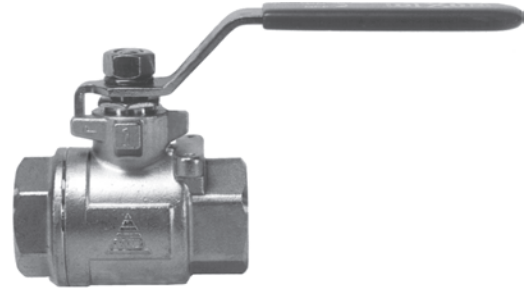
- stainless steel available with 3-piece ball valve design (**BV2IG-...-EA**)
- brass available with 2-piece ball valve design (**BV2BV-...-EA**)
- 115VAC actuator
- full port design
- female NPT

**Stainless Steel Ball Valves**

**Full port design**

Features:

- for use in water, oil and gas
- ¼" - 2" rated to **1000 PSI WOG** (CWP);  
2½" - 3" rated to **800 PSI WOG** (CWP); **100 PSI** saturated steam
- 316 stainless steel body, ball and stem
- Teflon® seat, joint gasket and thrust washer
- plastic cover on handle
- blow-out proof stem design
- temperature range: **-60°F to 450°F**
- ¼" - 3" available in full port design (**SSBV.., SSBV...**)



**Reduced port design**

Features:

- for use in water, oil and gas
- ¼" - 1" rated to **2000 PSI** (CWP);  
1¼" - 2" rated to **1500 PSI** (CWP)
- body conforms to ASTM A-351 Grade CF8M
- ball is 316 stainless steel
- PTFE, glass filled seat
- blow-out proof stem design
- ¼" - 2" available in reduced port design (**SSBV..RP, SSBV...RP**)



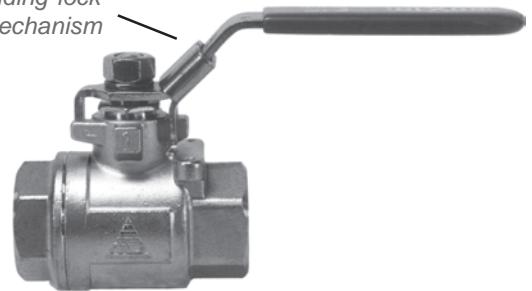
**Locking Handle Stainless Steel Ball Valves**

**Full port design**

Features:

- for use in water, oil and gas
- rated to **1000 PSI WOG**; **100 PSI** saturated steam
- 316 stainless steel body, ball and stem
- Teflon® seat, joint gasket and thrust washer
- plastic cover on handle
- blow-out proof stem design
- temperature range: **-60°F to 450°F**
- ¼" - 2" available in full port design (**SSLBV.., SSLBV...**)

sliding lock mechanism

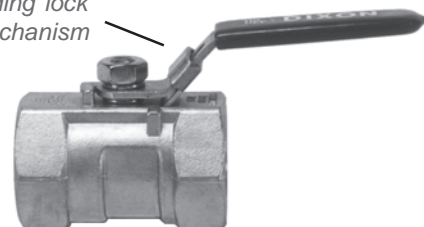


**Reduced port design**

Features:

- for use in water, oil and gas.
- rated to **800 PSI WOG**; **100 PSI** saturated steam
- 316 stainless steel body, ball and stem
- Teflon® seat, joint gasket and thrust washer
- plastic cover on handle
- blow-out proof stem design
- temperature range: **-60°F to 450°F**
- ¼" - 2" available in reduced port design (**SSLBV..SP, SSLBV...SP**)

sliding lock mechanism



## Safety

# Safety Check Valve

*Prevents dangerous hose whip on portable air compressors*

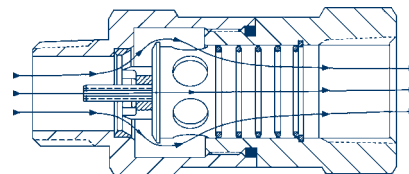
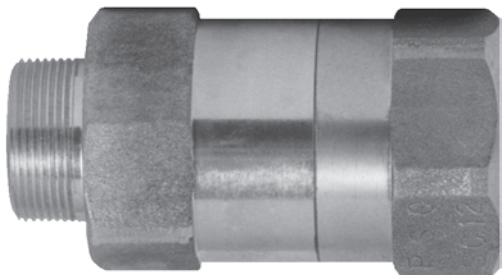
- also known as Air Fuse
- high flow
- controls excess air flow (scfm) in only one direction however, permits flow in either direction
- Not for use in applications where 100% of the available air is required, i.e. sand blast, pile driving rigs, expansion joint blow down pipes, etc.
- maximum working pressure: **250 PSI**
- maximum temperature: **250°F**
- functions efficiently at high discharge temperatures
- automatically senses change in air flow and shuts off the flow in the event of a surge in excess of valve flow rating thus preventing hose whip
- automatically resets after hose repair is made
- Conforms to OSHA regulation 1926.302 (b) (7) requiring a safety device at the source of the air supply and at branch air lines.
- applications include temporary plant/factory air, construction sites, shipyards or utilities
- solid brass with stainless steel springs

### Use:

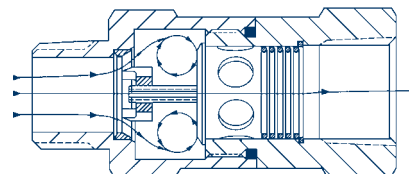
- Safety Check Valves operate by using the pressure differential across the valve to operate the valve and spring assembly. The pressure differential is directly related to the flow of air through the valve.
- When the pressure differential is within the operating limits -- below the cutoff flow -- of the unit, the force on the valve exerted by the spring is greater than that caused by the pressure differential (see open position graphic below). The valve remains open and normal operation continues.
- When the pressure differential is above the cutoff limit, the force on the valve exerted by the pressure differential is greater than the force exerted by the spring, and the valve closes (see the closed position graphic below).
- After the repair is made, normal operation is automatically enabled when pressure across the valve equalizes through the bleeder hole.
- The valve spring size can be specified by determining the air flow during normal operation and by estimating the air flow if a failure or rupture occurs.

### Questions to ask when selecting a safety shut-off valve:

1. What is the hose I.D. size you are using?
2. What is the operating pressure of the compressor, in PSI?
3. What is the SCFM of your compressor? (printed on the side of most air compressors)
4. How much air flow, in SCFM, does the tool(s) require?
5. What is the maximum air flow possible, in SCFM, through your air hose, at the end of the length of the hose? Contact Dixon for recommendations if the hose length is over 100'.



Check Valve In Open Position



Check Valve In Closed Position

# King Safety Cable

*A positive safeguard for air hose connections, King Safety Cable helps you meet today's safety standards*

- hose-to-hose or hose-to-rigid outlet styles available
- low cost answer to eliminating injuries caused by broken air hose connections
- highly resistant to rust and corrosion
- easy installation and removal - no tools needed
- custom lengths available

When a pressurized air hose becomes accidentally uncoupled, or a hose failure occurs, the quick exhaust of air causes the hose assembly to whip violently, creating a potentially dangerous situation.

**King Safety Cables** prevent hose whip in the event of the accidental separation of a coupling or clamp device. The steel cables span the hose fittings to provide standby safety for the hose. Spring-loaded loops in the cable ends are easily opened to pass over the couplings and provide a firm grip on the hose.

The cables can be used in hose to hose installations, as well as hose to rigid outlet, or tool.

On hose to hose applications the **King Safety Cable** should be installed on the hose portion of the assembly in a fully extended position. When used on hose to rigid outlet, or tool, the spring loaded end should be over the hose, while the choker end is installed on the outlet, or tool. **King Safety Cable** should always be installed in a fully extended position.

## Features:

- hose-to-hose or hose-to-rigid outlet
- King Cable is the low cost answer to eliminate injuries caused by broken air hose connections.
- highly resistant to rust and corrosion
- no tools needed - Easy to install and remove



**Style WSR, for hose-to-tool service**



**Style W, for hose-to-hose service**



**Style WSR1E, with stainless steel marine eye**



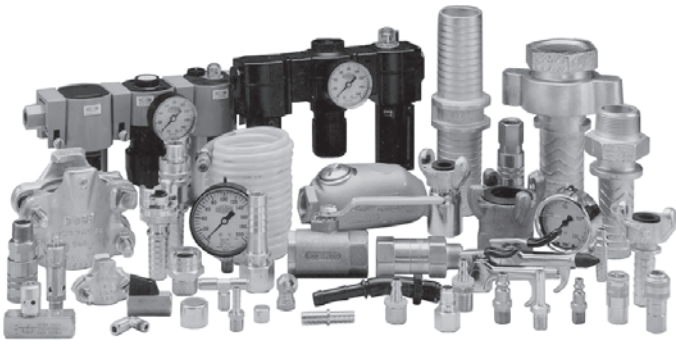
**Style WB1C, with safety clip and lanyard**



## Accessories

# Air Accessories

*Additional Air Related Products*



## Ball Swivels

- provides increased flexibility
- section D in the DPL (Dixon Price List)



## Mufflers

- effectively reduces noise levels
- section D in the DPL (Dixon Price List)



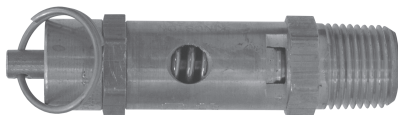
## Manifolds

- distributes air supply to other lines
- section D in the DPL (Dixon Price List)



## Safety Pop-Off Valves

- National Board Certified Safety Valves
- section D in the DPL (Dixon Price List)



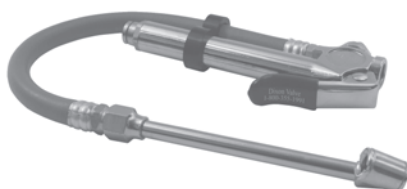
## Flow Control Valves

- provides precision flow control
- section D in the DPL (Dixon Price List)



## Tire Inflator Gauges

- available with tapered or straight chuck
- section D in the DPL (Dixon Price List)



## Flow Indicators

- verifies flow and monitors color and clarity in fluid lines
- section N in the DPL (Dixon Price List)



S.T.A.M.P.E.D.

**Questions to Ask**

- S** Size
- T** Temperature
- A** Application
- M** Media
- P** Pressure
- E** Ends
- D** Dixon

**Pressure Conversions**

100 PSI = 6.9 Bars                      5 Bars = 72.5 PSI  
 250 PSI = 17.25 Bars                  10 Bars = 145 PSI  
 600 PSI = 41.4 Bars                    25 Bars = 362.5 PSI

**Measurement Information**

**Measures of Pressure**

1 Pound Per Square Inch = 144 Pounds Per Square Foot = 0.068 Atmosphere = 2.042 Inches of Mercury at 62°F = 27.7 Inches of Water at 62°F = 2.31 Feet of Water at 62°F.

1 Atmosphere = 30 Inches of Mercury at 62°F = 14.7 Pounds Per Square Inch = 2116.3 Pounds Per Square Foot = 33.95 Feet of Water at 62°F.

1 Foot of Water at 62°F = 62.355 Pounds Per Square Foot = 0.433 Pounds Per Square Inch.

1 Inch of Mercury at 62°F = 1.132 Feet of Water = 13.58 Inches of Water = 0.491 Pounds Per Square Inch.

Column of Water 12 Inches High, 1 Inch in Diameter = .341 Pounds

**Length Conversion Constants**

Millimeters x .039370 = Inches                      Inches x 25.4001 = Millimeters  
 Meters x 39.370 = Inches                            Inches x .0254 = Meters  
 Meters x 3.2808 = Feet                                Feet x .30480 = Meters  
 Meters x 1.09361 = Yards                            Yards x .91440 = Meters  
 Kilometers x 3,280.8 = Feet                           Feet x .0003048 = Kilometers  
 Kilometers x .62137 = Statute Mile                Statute Miles x 1.60935 = Kilometers  
 Kilometers x .53959 = Nautical Miles             Nautical Miles x 1.85325 = Kilometers

**Weight Conversion Constants**

Grams x .03527 = Ounces (Avd.)                      Ounces (Avd.) x 28.35 = Grams  
 Grams x .033818 = Fluid Ounces (Water)        Fluid Ounces (Water) x 29.57 = Grams  
 Kilograms x 35.27 = Ounces (Avd.)                Ounces (Avd.) x .02835 = Kilograms  
 Kilograms x 2.20462 = Pounds (Avd.)             Pounds (Avd.) x .45359 = Kilograms

**Force Chart**  
**Force (In Pounds)**

Hose I.D.	25 PSI	50 PSI	75 PSI	100 PSI	150 PSI	200 PSI	250 PSI	300 PSI	500 PSI	1000 PSI
1/4"	1	2	4	5	7	10	12	15	25	49
3/8"	3	6	8	11	17	22	28	33	55	110
1/2"	5	10	15	20	29	39	49	59	98	196
3/4"	11	22	33	44	66	88	110	133	221	442
1"	20	39	59	79	118	157	196	236	393	785
1-1/4"	31	61	92	123	184	245	307	368	614	1227
1-1/2"	44	88	133	177	265	353	442	530	884	1767
2"	79	157	236	314	471	628	785	942	1571	3142
2-1/2"	123	245	368	491	736	982	1227	1473	2454	4909
3"	177	353	530	707	1060	1414	1767	2121	3534	7069
4"	314	628	942	1257	1885	2513	3142	3770	6283	12566
5"	491	982	1473	1964	2945	3927	4909	5891	9818	19635
6"	707	1414	2121	2827	4241	5655	7069	8482	14137	28274
8"	1257	2513	3770	5027	7540	10053	12566	15080	25133	50266
10"	1964	3927	5891	7854	11781	15708	19635	23562	39270	78540
12"	2827	5655	8482	11310	16965	22620	28274	33929	56549	113098

Note: For hose I.D.'s from 1-1/4" to 12" the force in pounds is greater than the PSI.

- Force is the dynamic power which is exported longitudinally through a hose, towards the ends. To arrive at the number of pounds of force exerted, you merely multiply the area of the I.D. times the working pressure being used.
- Area of a circle:  $\pi \times r^2$  (PI [3.1416] times radius squared)
- Force = Area x Pressure

## Suggested Pipe Size for Compressed Air Flow at 100 PSI Length of Run, Feet

SCFM Air Flow	25	50	75	100	150	200	300	500	1000	Compressor HP
4	½	½	½	½	½	½	½	¾	¾	1
12	½	½	½	¾	¾	½	¾	1	1	3
20	¾	¾	¾	¾	1	¾	1	1¼	1¼	5
30	¾	¾	1	1	1	1	1¼	1¼	1¼	7½
40	¾	1	1	1	1¼	1	1¼	1½	1½	10
60	1	1	1¼	1¼	1¼	1¼	1½	1½	2	15
80	1	1¼	1¼	1¼	1½	1¼	1½	2	2	20
100	1¼	1¼	1½	1½	1½	1½	2	2	2½	25
120	1¼	1½	1½	1½	2	1½	2	2½	2½	30
160	1¼	1½	1½	2	2	1½	2½	2½	3	40
200	1½	2	2	2	2	2	2½	3	3	50
240	1½	2	2	2	2½	2	2½	3	3	60
300	2	2	2	2½	2½	2	3	3	3½	75
400	2	2½	2½	2½	3	2½	3	3½	4	100
500	2	2½	2½	3	3	2½	3½	3½	4	125

On a compressed air distribution system, pressure losses greater than 3% are considered excessive, and a well-designed system having a steady rate of air flow is usually designed for not more than a 1% loss or 1 PSI for a 100 PSI system. The pipe size depends not only on the volume of air flow but how far it must be carried. To hold the distribution loss to 1 PSI, pipes of larger diameter must be used on longer runs to carry the same flow that can be handled by smaller pipes on shorter runs.

Figures in the body of the chart above are pipe sizes recommended on a 100 PSI system to carry air with less than 1 PSI loss. When measuring lengths of runs, add 5 feet of length for each pipe fitting. If carrying 120 PSI pressure these sizes will carry slightly *more* air than shown, or pressure loss will be slightly less than 1 PSI. If carrying 80 PSI pressure these pipes will carry slightly *less* air at 1 PSI pressure loss than shown in the chart.

The left column of the chart shows the volume of air to be carried. It is difficult to estimate the air flow volume to be carried in each leg of the distribution system. This varies with the application. On some applications, like in a large plant with many legs in the distribution system serving dozens of air-operated machines, the air usage may be at a fairly steady rate. Other applications, usually on small systems, may have to carry a high surge of air if several machines happen to be operated at the same time. Then there may be a period with almost no flow.

To make a realistic estimate of air flow volume, the far right column of the chart showing compressor HP may be used. On steady pumping, a compressor will produce a minimum of 4 SCFM air flow for each 1 HP of capacity. This is a conservative figure, as most compressors will produce 5 or 6 SCFM.

For example, a 25 HP compressor will produce at least 100 SCFM of air. This is shown in the far left column on the same line as 25 HP.

excerpted from *Industrial Fluid Power*, Volume 1, third edition, 1984

## Air Hose Friction

Hose Size (inches)	CFM thru 50' Hose	Gauge Pressure - Pounds/sq inch			
		50	70	90	110
		PSI Loss Over 50' Hose Length			
1/2"	20	1.8	1.0	.8	.6
	30	5.0	3.4	2.4	2.0
	40	10.1	7.0	5.4	4.3
	50	18.1	12.4	9.5	7.6
	60	+	20.0	14.8	12.0
	70	+	28.4	22.0	17.6
	80	+	+	30.5	24.6
	90	+	+	41.0	33.3
	10	+	+	+	44.5
	110	+	+	+	+
3/4"	20	.04	.2	.2	.1
	30	.08	.5	.4	.3
	40	1.5	.9	.7	.5
	50	2.4	1.5	1.1	.9
	60	3.5	2.3	1.6	1.3
	70	4.4	3.2	2.3	1.8
	80	6.5	4.2	3.1	2.4
	90	8.5	5.5	4.0	3.1
	100	11.4	7.0	5.0	3.9
	110	14.2	8.8	6.2	4.9
	120	+	11.0	7.5	5.9
	130	+	+	9.0	7.1
	1"	20	.1	0	0
30		.2	.1	.1	.1
40		.3	.2	.2	.2
50		.5	.4	.3	.2
60		.8	.5	.4	.3
70		1.1	.7	.6	.4
80		1.5	1.0	.7	.6
90		2.0	1.3	.9	.7
100		2.6	1.6	1.2	.9
110		3.5	2.0	1.4	1.1
120		4.8	2.5	1.7	1.3
130		7.0	3.1	2.0	1.5

PSI = pressure in pounds/square inch  
 CFM = air flow in cubic feet/minute

+ pressure loss is too great and therefore the combination of Hose Size, CFM, and Gauge Pressure is not recommended.  
 Gauge Pressures the indicated air pressure in pounds/square inch, at the source (ie the air compressor receiver tank)

## Maximum Recommended Air Flow (SCFM) Through ANSI Standard Weight Schedule 40 Pipe

The flow values in the table below are based on a pressure drop of 10% of the applied pressure per 100 feet of pipe for 1/8", 1/4", 3/8", and 1/2" pipe sizes; and a pressure drop of 5% of the applied pressure per 100 feet of pipe for 3/4", 1", 1-1/4", 2", 2-1/2", 3" pipe sizes. The table gives recommended flows for pipe sizes at listed pressures and should be used to determine appropriate piping for air systems.

Applied Pressure PSI	Nominal Standard Pipe Size										
	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
<b>5</b>	0.5	1.2	2.7	4.9	6.6	13	27	40	80	135	240
<b>10</b>	0.8	1.7	3.9	7.7	11.0	21	44	64	125	200	370
<b>20</b>	1.3	3.0	6.6	13.0	18.5	35	75	110	215	350	600
<b>40</b>	2.5	5.5	12.0	23.0	34.0	62	135	200	385	640	1100
<b>60</b>	3.5	8.0	18.0	34.0	50.0	93	195	290	560	900	1600
<b>80</b>	4.7	10.5	23.0	44.0	65.0	120	255	380	720	1200	2100
<b>100</b>	5.8	13.0	29.0	54.0	80.0	150	315	470	900	1450	2600
<b>150</b>	8.6	20.0	41.0	80.0	115.0	220	460	680	1350	2200	3900
<b>200</b>	11.5	26.0	58.0	108.0	155.0	290	620	910	1750	2800	5000
<b>250</b>	14.5	33.0	73.0	135.0	200.0	370	770	1150	2200	3500	6100

## Water Discharge Table

This table is intended for general reference and general applicability only, and should not be relied upon as the sole or precise source of information available with respect to the subject covered. The user should also refer to and follow manufacturer's specific instructions and recommendations with regard to such information, where they exist.

Flow of water through 100 foot lengths of hose, Straight-Smooth Bore - U.S. Gallons per minute

PSI at Hose Inlet	Nominal Hose I.D. Diameters - Inches							
	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
<b>20</b>	26	47	76	161	290	468	997	2895
<b>30</b>	32	58	94	200	360	582	1240	3603
<b>40</b>	38	68	110	234	421	680	1449	4209
<b>50</b>	43	77	124	264	475	767	1635	4748
<b>60</b>	47	85	137	291	524	846	1804	5239
<b>75</b>	53	95	154	329	591	955	2035	5910
<b>100</b>	62	112	180	384	690	1115	2377	6904
<b>125</b>	70	126	203	433	779	1258	2681	7788
<b>150</b>	77	139	224	478	859	1388	2958	8593
<b>200</b>	90	162	262	558	1004	1621	3455	10038

Figures are to be used as a guide since the hose inside diameter tolerance, the type of fittings used, and orifice restriction all influence the actual discharge. Thus, variations plus or minus from the table may be obtained in actual service.

## Conversion Table - Feet of Water to Inches of Mercury

Feet of Water	1	2	4	6	8	10	12	14	16	20	22	24	26	28	30	32	34
Inches of Mercury	0.9	1.8	3.5	5.3	7.1	8.8	10.6	12.4	14.1	17.7	19.4	21.2	23.0	24.8	26.5	28.3	30.0

- Listed below is a brief overview of several procedures relating to couplings mentioned in this brochure.
- Proper selection and installation of couplings is critical.
- Each procedure can be viewed in full on the web at [www.dixonvalve.com](http://www.dixonvalve.com).
- Dixon will supply a complete copy of the Procedures Manual upon request.

*Procedure 1002*

### **Brass Reusable Fitting Selection**

- male and female fittings
- hose splicers

*Procedure 1003*

### **King Safety Cable Selection**

1. determine cable style
2. determine hose ID
3. determine assembly working PSI
4. reference the current DPL for available cables

*Procedure 1100*

### **General Preparation Instructions**

1. cut the hose
2. square the ends
3. clean the ends
4. determine number of clamps
5. mark hose for clamp placement
6. static grounding
7. helical wire
8. seal the hose ends
9. coupling lubricant

*Procedure 1103*

### **Crimping Machine Set-up**

- 5111A
- 1765A

*Procedure 2203*

### **Pinch-On Clamp Installation**

- single ear clamps
- double ear clamps

*Procedure 2300*

### **King Safety Cable Installation**

- hose to tool
- hose to fixed connector
- hose to hose

*Procedure 2304*

### **Brass Stem and Ferrule Installation**

- using the 5111A crimping machine
- using the 1765A crimping machine

*Procedure 2305*

### **Brass Reusable Fitting Installation**

- male and female fittings
- hose splicers

*Procedure 3005*

### **General Assembly Inspection**

- couplings
- hoses



Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for fire protection, food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

**Dixon Valve & Coupling Company**

800 High Street, Chestertown, MD 21620

Customer Service: 877.963.4966

Fax: 800.283.4966

**[www.dixonvalve.com](http://www.dixonvalve.com)**

# Interlocking Style Crimp Cam and Groove Fittings



*The Right Connection™*

**Features:**

- Offers a 360° interlocking design
- Turnover edge is precut for easy ferrule removal
- Streamline and safe final assembly

**Connection:**

- Male adapter
- Female coupler

**Coupling Material:**

- Aluminum

**Ferrule Material:**

- Plated carbon steel

## Type E Cam and Groove Male Adapter with Interlocking Style Shank 356T6 Aluminum



Size	Part #	List Price
1½"	<b>150-E-AL</b>	<b>\$14.00</b>
2"	<b>200-E-AL</b>	<b>17.30</b>
3"	<b>300-E-AL</b>	<b>30.20</b>
4"	<b>400-E-AL</b>	<b>61.00</b>

## Type C Cam and Groove Female Coupler with Interlocking Style Shank 356T6 Aluminum



Size	Part #	List Price
1½"	<b>150-C-AL</b>	<b>\$25.45</b>
2"	<b>200-C-AL</b>	<b>29.45</b>
3"	<b>300-C-AL</b>	<b>45.75</b>
4"	<b>400-C-AL</b>	<b>65.10</b>

## Ferrules Zinc Plated Carbon Steel



Size	Part #	List Price
1½"	<b>CF150- *</b>	<b>\$11.75</b>
2"	<b>CF200- *</b>	<b>14.65</b>
3"	<b>CF300- *</b>	<b>20.75</b>
4"	<b>CF400- *</b>	<b>27.80</b>

\*The part number suffix determines different ferrule sizes based on hose O.D. range. For available ferrule sizes refer to the Crimp Recommendation chart on pages 3-5.

**HOSE COUPLING SAFETY**

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media,** and **Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, [www.osha.gov](http://www.osha.gov).)
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.



## 1½" Interlocking Style Cam and Groove Crimp Recommendations

Hose I.D.	Ferrule Part #	Hose O.D.		Crimp Diameter (±0.005)	% Reduction	Crimp Die #	Offset	
		Fractional	Decimal					
1½"	<b>CF150-1</b>	1-49/64	1.766	1.845	20%	45	0.072	
		1-50/64	1.781	1.857	20%	45	0.085	
		1-51/64	1.797	1.870	20%	45	0.097	
		1-52/64	1.813	1.882	20%	45	0.110	
	<b>CF150-2</b>	1-53/64	1.828	1.895	1.895	20%	45	0.123
		1-54/64	1.844	1.907	1.907	20%	45	0.135
		1-55/64	1.859	1.920	1.920	20%	45	0.148
		1-56/64	1.875	1.932	1.932	20%	45	0.160
	<b>CF150-3</b>	1-57/64	1.891	1.945	1.945	20%	45	0.173
		1-58/64	1.906	1.957	1.957	20%	45	0.185
		1-59/64	1.922	1.970	1.970	20%	45	0.198
		1-60/64	1.938	1.982	1.982	20%	45	0.210
	<b>CF150-4</b>	1-61/64	1.953	1.995	1.995	20%	45	0.223
		1-62/64	1.969	2.007	2.007	20%	45	0.235
		1-63/64	1.984	2.020	2.020	20%	51	0.011
		2	2.000	2.032	2.032	20%	51	0.024
	<b>CF150-5</b>	2-1/64	2.016	2.045	2.045	20%	51	0.036
		2-2/64	2.031	2.057	2.057	20%	51	0.049
		2-3/64	2.047	2.070	2.070	20%	51	0.061
		2-4/64	2.063	2.082	2.082	20%	51	0.074
	<b>CF150-6</b>	2-5/64	2.078	2.095	2.095	20%	51	0.087
		2-6/64	2.094	2.107	2.107	20%	51	0.099
		2-7/64	2.109	2.120	2.120	20%	51	0.112
		2-8/64	2.125	2.132	2.132	20%	51	0.124
	<b>CF150-7</b>	2-9/64	2.141	2.145	2.145	20%	51	0.137
		2-10/64	2.156	2.157	2.157	20%	51	0.149
		2-11/64	2.172	2.170	2.170	20%	51	0.162
		2-12/64	2.188	2.182	2.182	20%	51	0.174
	<b>CF150-8</b>	2-13/64	2.203	2.195	2.195	20%	51	0.187
		2-14/64	2.219	2.207	2.207	20%	51	0.199
		2-15/64	2.234	2.220	2.220	20%	51	0.212
		2-16/64	2.250	2.232	2.232	20%	51	0.224
	<b>CF150-9</b>	2-17/64	2.266	2.245	2.245	20%	57	0.000
		2-18/64	2.281	2.257	2.257	20%	57	0.013
		2-19/64	2.297	2.270	2.270	20%	57	0.025
		2-20/64	2.313	2.282	2.282	20%	57	0.038
	<b>CF150-10</b>	2-21/64	2.328	2.295	2.295	20%	57	0.050
		2-22/64	2.344	2.307	2.307	20%	57	0.063
		2-23/64	2.359	2.320	2.320	20%	57	0.075
		2-24/64	2.375	2.332	2.332	20%	57	0.088

## 2" Interlocking Style Cam and Groove Crimp Recommendations

Hose I.D.	Ferrule Part #	Hose O.D.		Crimp Diameter (±0.005)	% Reduction	Crimp Die #	Offset	
		Fractional	Decimal					
2"	<b>CF200-1</b>	2-21/64	2.328	2.388	20%	57	0.144	
		2-22/64	2.344	2.400	2.400	20%	57	0.156
		2-23/64	2.359	2.413	2.413	20%	57	0.169
		2-24/64	2.375	2.425	2.425	20%	57	0.181
	<b>CF200-2</b>	2-25/64	2.391	2.438	2.438	20%	57	0.194
		2-26/64	2.406	2.450	2.450	20%	57	0.206
		2-27/64	2.422	2.463	2.463	20%	57	0.219
		2-28/64	2.438	2.475	2.475	20%	57	0.231
	<b>CF200-3</b>	2-29/64	2.453	2.488	2.488	20%	63	0.007
		2-30/64	2.469	2.500	2.500	20%	63	0.020
		2-31/64	2.484	2.513	2.513	20%	63	0.033
		2-32/64	2.500	2.525	2.525	20%	63	0.045
	<b>CF200-4</b>	2-33/64	2.516	2.538	2.538	20%	63	0.058
		2-34/64	2.531	2.550	2.550	20%	63	0.070
		2-35/64	2.547	2.563	2.563	20%	63	0.083
		2-36/64	2.563	2.575	2.575	20%	63	0.095
	<b>CF200-5</b>	2-37/64	2.578	2.588	2.588	20%	63	0.108
		2-38/64	2.594	2.600	2.600	20%	63	0.120
		2-39/64	2.609	2.613	2.613	20%	63	0.133
		2-40/64	2.625	2.625	2.625	20%	63	0.145

## 2" Interlocking Style Cam and Groove Crimp Recommendations

Hose I.D.	Ferrule Part #	Hose O.D.		Crimp Diameter (±0.005)	% Reduction	Crimp Die #	Offset	
		Fractional	Decimal					
2"	CF200-6	2-41/64	2.641	2.638	20%	63	0.158	
		2-42/64	2.656	2.650	20%	63	0.170	
		2-43/64	2.672	2.663	20%	63	0.183	
		2-44/64	2.688	2.675	20%	63	0.195	
	CF200-7	2-45/64	2.703	2.688	2.688	20%	63	0.208
		2-46/64	2.719	2.700	2.700	20%	63	0.220
		2-47/64	2.734	2.713	2.713	20%	63	0.233
		2-48/64	2.750	2.725	2.725	20%	69	0.008
	CF200-8	2-49/64	2.766	2.738	2.738	20%	69	0.020
		2-50/64	2.781	2.750	2.750	20%	69	0.033
		2-51/64	2.797	2.763	2.763	20%	69	0.046
		2-52/64	2.813	2.775	2.775	20%	69	0.058
	CF200-9	2-53/64	2.828	2.788	2.788	20%	69	0.071
		2-54/64	2.844	2.800	2.800	20%	69	0.083
		2-55/64	2.859	2.813	2.813	20%	69	0.095
		2-56/64	2.875	2.825	2.825	20%	69	0.108
	CF200-10	2-57/64	2.891	2.838	2.838	20%	69	0.121
		2-58/64	2.906	2.850	2.850	20%	69	0.133
		2-59/64	2.922	2.863	2.863	20%	69	0.146
		2-60/64	2.938	2.875	2.875	20%	69	0.158

## 3" Interlocking Style Cam and Groove Crimp Recommendations

Hose I.D.	Ferrule Part #	Hose O.D.		Crimp Diameter (±0.005)	% Reduction	Crimp Die #	Offset	
		Fractional	Decimal					
3"	CF300-1	3-23/64	3.359	3.553	20%	90	0.010	
		3-24/64	3.375	3.565	20%	90	0.022	
		3-25/64	3.391	3.578	20%	90	0.035	
		3-26/64	3.406	3.590	20%	90	0.047	
	CF300-2	3-27/64	3.422	3.603	3.603	20%	90	0.059
		3-28/64	3.438	3.615	3.615	20%	90	0.072
		3-29/64	3.453	3.628	3.628	20%	90	0.084
		3-30/64	3.469	3.640	3.640	20%	90	0.097
	CF300-3	3-31/64	3.484	3.653	3.653	20%	90	0.110
		3-32/64	3.500	3.665	3.665	20%	90	0.122
		3-33/64	3.516	3.678	3.678	20%	90	0.135
		3-34/64	3.531	3.690	3.690	20%	90	0.147
	CF300-4	3-35/64	3.547	3.703	3.703	20%	90	0.160
		3-36/64	3.563	3.715	3.715	20%	90	0.172
		3-37/64	3.578	3.728	3.728	20%	90	0.185
		3-38/64	3.594	3.740	3.740	20%	90	0.197
	CF300-5	3-39/64	3.609	3.753	3.753	20%	90	0.210
		3-40/64	3.625	3.765	3.765	20%	90	0.222
		3-41/64	3.641	3.778	3.778	20%	90	0.235
		3-42/64	3.656	3.790	3.790	20%	96	0.010
	CF300-6	3-43/64	3.672	3.803	3.803	20%	96	0.023
		3-44/64	3.688	3.815	3.815	20%	96	0.035
		3-45/64	3.703	3.828	3.828	20%	96	0.048
		3-46/64	3.719	3.840	3.840	20%	96	0.060
	CF300-7	3-47/64	3.734	3.853	3.853	20%	96	0.073
		3-48/64	3.750	3.865	3.865	20%	96	0.085
		3-49/64	3.766	3.878	3.878	20%	96	0.098
		3-50/64	3.781	3.890	3.890	20%	96	0.110
	CF300-8	3-51/64	3.797	3.903	3.903	20%	96	0.123
		3-52/64	3.813	3.915	3.915	20%	96	0.135
		3-53/64	3.828	3.928	3.928	20%	96	0.148
		3-54/64	3.844	3.940	3.940	20%	96	0.160
	CF300-9	3-55/64	3.859	3.953	3.953	20%	96	0.173
		3-56/64	3.875	3.965	3.965	20%	96	0.185
		3-57/64	3.891	3.978	3.978	20%	96	0.198
		3-58/64	3.906	3.990	3.990	20%	96	0.210
	CF300-10	3-59/64	3.922	4.003	4.003	20%	96	0.223
		3-60/64	3.938	4.015	4.015	20%	96	0.235
		3-61/64	3.953	4.028	4.028	20%	102	0.011
		3-62/64	3.969	4.040	4.040	20%	102	0.024

## 4" Interlocking Style Cam and Groove Crimp Recommendations

Hose I.D.	Ferrule Part #	Hose O.D.		Crimp Diameter (±0.005)	% Reduction	Crimp Die #	Offset	
		Fractional	Decimal					
4"	CF400-1	4-23/64	4.359	4.553	20%	114	0.064	
		4-24/64	4.375	4.565	20%	114	0.077	
		4-25/64	4.391	4.578	20%	114	0.089	
		4-26/64	4.406	4.590	20%	114	0.102	
	CF400-2	4-27/64	4.422	4.603	4.603	20%	114	0.115
		4-28/64	4.438	4.615	4.615	20%	114	0.127
		4-29/64	4.453	4.628	4.628	20%	114	0.139
		4-30/64	4.469	4.640	4.640	20%	114	0.152
	CF400-3	4-31/64	4.484	4.653	4.653	20%	114	0.164
		4-32/64	4.500	4.665	4.665	20%	114	0.177
4-33/64		4.516	4.678	4.678	20%	114	0.189	
4-34/64		4.531	4.690	4.690	20%	114	0.202	
CF400-4	4-35/64	4.547	4.703	4.703	20%	114	0.214	
	4-36/64	4.563	4.715	4.715	20%	114	0.227	
	4-37/64	4.578	4.728	4.728	20%	120	0.003	
	4-38/64	4.594	4.740	4.740	20%	120	0.016	
CF400-5	4-39/64	4.609	4.753	4.753	20%	120	0.028	
	4-40/64	4.625	4.765	4.765	20%	120	0.041	
	4-41/64	4.641	4.778	4.778	20%	120	0.053	
	4-42/64	4.656	4.790	4.790	20%	120	0.066	
CF400-6	4-43/64	4.672	4.803	4.803	20%	120	0.078	
	4-44/64	4.688	4.815	4.815	20%	120	0.091	
	4-45/64	4.703	4.828	4.828	20%	120	0.103	
	4-46/64	4.719	4.840	4.840	20%	120	0.116	
CF400-7	4-47/64	4.734	4.853	4.853	20%	120	0.129	
	4-48/64	4.750	4.865	4.865	20%	120	0.141	
	4-49/64	4.766	4.878	4.878	20%	120	0.153	
	4-50/64	4.781	4.890	4.890	20%	120	0.166	
CF400-8	4-51/64	4.797	4.903	4.903	20%	120	0.179	
	4-52/64	4.813	4.915	4.915	20%	120	0.191	
	4-53/64	4.828	4.928	4.928	20%	120	0.203	
	4-54/64	4.844	4.940	4.940	20%	120	0.216	
CF400-9	4-55/64	4.859	4.953	4.953	20%	120	0.228	
	4-56/64	4.875	4.965	4.965	20%	126	0.004	
	4-57/64	4.891	4.978	4.978	20%	126	0.016	
	4-58/64	4.906	4.990	4.990	20%	126	0.029	
CF400-10	4-59/64	4.922	5.003	5.003	20%	126	0.041	
	4-60/64	4.938	5.015	5.015	20%	126	0.054	
	4-61/64	4.953	5.028	5.028	20%	126	0.066	
	4-62/64	4.969	5.040	5.040	20%	126	0.079	

*The crimp die #'s and offset dimensions are for use with Dixon's Holedall Crimp System (CM400) only.*



Visit [www.dixonvalve.com](http://www.dixonvalve.com) for information on the CM400 or to download a copy of the Holedall Crimp System flyer.



Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for fire protection, food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

## **Dixon Valve & Coupling Company**

800 High Street

Chestertown, MD 21620

Customer Service: 877.963.4966

Fax: 800.283.4966

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The Right Connection™

# LP Gas Hose Couplings, Adapters & Accessories

Products meet or exceed the requirements of Compressed Gas Association (CGA), the National Fire Protection Association (NFPA), the Canadian Gas Association, American Society of Mechanical Engineers (ASME) and Underwriters Laboratories (UL)

## Adapters



ME217



ME233



ME503-16

Brass Male Acme x MNPT Adapters

Part #	Description
<b>ME217</b>	1 3/4" male Acme x 1 1/4" MNPT adapter, brass
<b>ME233</b>	2 1/4" male Acme x 1 1/4" MNPT adapter, brass
<b>ME503-16</b>	3 1/4" male Acme x 2" MNPT adapter, brass



ME252-16

Brass Male Acme x FNPT Adapter

Part #	Description
<b>ME252-16</b>	3 1/4" male Acme x 2" FNPT adapter, brass



ME217S



ME503S-16

Steel Male Acme x MNPT Adapters

Part #	Description
<b>ME217S</b>	1 3/4" male Acme x 1 1/4" MNPT adapter, steel
<b>ME233S</b>	2 1/4" male Acme x 1 1/4" MNPT adapter, steel
<b>ME503S-16</b>	3 1/4" male Acme x 2" MNPT adapter, steel



ME252S-16

Steel Male Acme x FNPT Adapter

Part #	Description
<b>ME252S-16</b>	3 1/4" male Acme x 2" FNPT adapter, steel

## Couplings



ME112



ME130



ME120

Filler Couplings, Brass Nut

Part #	Description
<b>ME112</b>	1 3/4" fem. Acme x 1" MNPT filler coupling-brass nut, brass nipple
<b>ME120</b>	2 1/4" fem. Acme x 1 1/4" MNPT filler coupling-brass nut, brass nipple
<b>ME120S</b>	2 1/4" fem. Acme x 1 1/4" MNPT filler coupling-brass nut, steel nipple
<b>ME130</b>	3 1/4" fem. Acme x 2" MNPT filler coupling-brass nut, steel nipple



ME112S



ME130S



ME121S

Filler Couplings, Steel Nut

Part #	Description
<b>ME112S</b>	1 3/4" fem. Acme x 1" MNPT filler coupling, steel nut & nipple
<b>ME121S</b>	2 1/4" fem. Acme x 1 1/4" MNPT filler coupling, steel nut & nipple
<b>ME130S</b>	3 1/4" fem. Acme x 2" MNPT filler coupling, steel nut & nipple

## Couplings

- Clamp sections and hose barbs are made of steel and ductile iron making them usable in both LP gas and NH<sub>3</sub> applications.



ME3162-20

- The 32B and 32S sizes offer female Acme swivels to eliminate the need to add additional weight and bulk to the hose assembly.



ME3162-32B

### Clamp Style Hose Couplings

Part #	Description
<b>ME3162-16</b>	1" HB x 1" MNPT with 2 piece clamp
<b>ME3162-20</b>	1 1/4" HB x 1 1/4" MNPT with 2 piece clamp
<b>ME3162-24</b>	1 1/2" HB x 1 1/2" MNPT with 2 piece clamp
<b>ME3162-32</b>	2" HB x 2" MNPT with 2 piece clamp
<b>ME3162-32B</b>	2" HB x 3 1/4" female Acme, brass nut with 2 piece clamp
<b>ME3162-32S</b>	2" HB x 3 1/4" female Acme, steel nut with 2 piece clamp

## Caps



ME612



ME612S

### Adapter Caps

Part #	Description
<b>ME612</b>	3/4" female Acme x 1 1/4" male Acme adapter, brass
<b>ME612S</b>	3/4" female Acme x 1 1/4" male Acme adapter, steel



ME229



ME441F

### Metal Acme Caps

Part #	Description
<b>ME229-1</b>	1 1/4" female Acme cap with ring and chain, brass
<b>ME229S-1</b>	1 1/4" Acme cap with ring and chain, steel
<b>ME431F-1</b>	2 1/4" female Acme cap with knob plug and chain, brass
<b>ME431FS-1</b>	2 1/4" female Acme cap with knob plug, ring, chain, steel
<b>ME441F-1</b>	3 1/4" female Acme cap knob with ring and chain, brass
<b>ME441FS-1</b>	3 1/4" female Acme cap with knob plug, ring and chain, steel



ME109



ME109-NH3

### Plastic Acme Caps

Part #	Description
<b>ME109-1</b>	1 1/4" fem. Acme cap with ring & chain, yellow plastic
<b>ME109-NH3-1</b>	1 1/4" fem. Acme cap & chain assbly, anyhydrous service



ME179



ME180



ME181

### Plastic Dust Plugs

Part #	Description
<b>ME179-1</b>	1 1/4" male Acme yellow plastic dust seal w/chain assbly
<b>ME180-1</b>	2 1/4" male Acme yellow plastic dust seal w/chain assbly
<b>ME181-1</b>	3 1/4" male Acme yellow plastic dust seal w/chain assbly

## Wrench



Part #	Description
<b>MEP120B</b>	Acme spanner wrench for 2 1/4", 3 1/4" and 4 1/4" fittings, brass

## Dixon Valve & Coupling Co.

800 High Street • Chestertown, MD 21620

ph 800.355.1991 • fx 800.283.4966

[www.dixonvalve.com](http://www.dixonvalve.com)

## 400# Nitrile Covered Fire Hose - Light Duty - Red

**Outer construction:**

Thin ribbed nitrile

**Tube construction:**

Nitrile

Proof pressure: **400 PSI**

Service test pressure: **200 PSI**

Working pressure: **180 PSI**

- Synthetic rubber compound specially formulated for flexibility, as well as abrasion and chemical resistance. Ribbed for hose protection and easy handling.

- Ideal for industrial and construction washdown and discharge applications.

*Consult the factory for pricing and availability for any of the following features:*

- Hoses coupled with field reattachable couplings (*Flat Seal*).



uncoupled

**Uncoupled**

Size	Bowl	Length	Part #	Price / Each
2"	2-3/16"	50'	<b>H420R50UC</b>	<b>\$472.75</b>

**Coupled with Female and Male NPSH thread, brass expansion ring couplings with rocker lugs**

Size	Length	Part #	Price / Each
2"	50'	<b>H420R50RBS</b>	<b>\$602.70</b>



coupled

## 500# Nitrile Covered Fire Hose - Light Duty - Red

**Outer construction:**

Thin ribbed nitrile

**Tube construction:**

Nitrile

Proof pressure: **500 PSI**

Service test pressure: **250 PSI**

Working pressure: **225 PSI**

*Consult the factory for pricing and availability for any of the following features:*

- 25' lengths
- Other colors, threads and configurations
- Hoses coupled with field reattachable couplings (*Flat Seal*).
- Ideal for industrial and construction washdown and discharge applications.



uncoupled

**Uncoupled**

Size	Bowl	Length	Part #	Price / Each
1½"	1-13/16"	50'	<b>H515R50UC</b>	<b>\$359.85</b>
2½"	2-13/16"	50'	<b>H525R50UC</b>	<b>483.70</b>

**Coupled with female and male expansion ring couplings**

Size	Length	Part #	Rocker Lug Aluminum NST (NH) RAF	Rocker Lug Brass NST (NH) RBF	Pin Lug Brass NST (NH) PBF	Rocker Lug Aluminum NPSH RAS
1½"	50'	<b>H515R50</b>	<b>\$424.70</b>	<b>\$451.15</b>	<b>\$451.15</b>	<b>\$424.70</b>
2½"	50'	<b>H525R50</b>	<b>589.85</b>	<b>655.05</b>	<b>655.05</b>	<b>589.85</b>



coupled



The Right Connection™

# Non-Metallic Fittings

*The superior strength and light weight design make non-metallic fittings an ideal substitute for their metal counterparts.*

---

## Barbed Fittings

styles

- combination nipples
- suction couplings
- hose menders
- male inserts
- female inserts
- short shank couplings
- push-on hose barb

materials

- nylon
- polypropylene

sizes

- 1/4" - 3"



---

## Adapters

styles

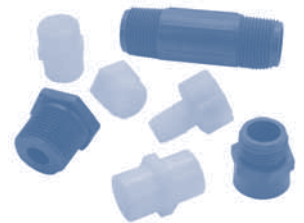
- close nipples
- reducing bushings
- female couplers
- GHT adapters
- schedule 80

materials

- nylon
- polypropylene

sizes

- 1/4" - 1"



---

## Elbows and Tees

styles

- hose barb
- street elbow
- threaded
- schedule 80

materials

- nylon
- polypropylene

sizes

- 1/4" - 1"



---

## Push-In Fittings

styles

- straight union
- tee
- elbows
- adapters

materials

- acetal

sizes

- 1/4" - 1/2"



## Quick-Connect Fittings



### styles

- cam & groove
- chemical transfer

### materials

- polypropylene

### sizes

- 1/2" - 4"

## Valves



### styles

- true union
- true union ball check
- butterfly
- single union
- bolted
- flanged

### materials

- polypropylene
- thermoplastic

### sizes

- 1/2" - 6"

## Nozzles



### styles

- 90° ball valve
- 45° single union

### materials

- polypropylene

### sizes

- 1-1/2" - 2"

## Strainers



### styles

- female NPT
- Y line
- T line

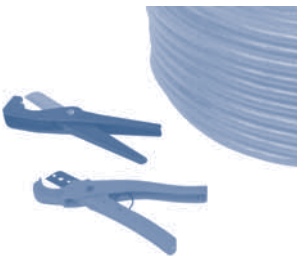
### materials

- polyethylene
- polypropylene

### sizes

- 3/4" - 3"

## Hose and Accessories



### styles

- clear tubing
- braided tubing
- cutters

### materials

- PVC

### sizes

- 3/16" - 1-1/2" ID

## Hose Coupling Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations.
- Call Dixon (1-800-355-1991) for advice on couplings, retention devices, and accessories for your application.



### Dixon Valve & Coupling Co.

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Chestertown, MD 21620  
800.355.1991  
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# Oilfield Products



*The Right Connection™*

# Table of Contents

<b>Holedall</b> .....	<b>3-7</b>
external swage high pressure couplings .....	3
grade D rotary hose couplings .....	3
350 ton ram coupling machine .....	4
15 ton ram coupling machine .....	4
25 ton ram coupling machine .....	4
50 ton ram coupling machine .....	4
100 ton ram coupling machine .....	4
external swage coupling system .....	5
internal expansion coupling system .....	6
Scovill style internally expanded couplings .....	7
Hookie Hook Hose Lifter .....	7
<b>Cam and Groove</b> .....	<b>8-9</b>
swaged EZ Boss-Lock type C cam and groove .....	8
notched EZ Boss-Lock type C cam and groove .....	8
swaged Boss-Lock type E cam and groove .....	9
notched Boss-Lock type E cam and groove .....	9
crimp sleeves .....	9
<b>Quick Disconnects</b> .....	<b>10-11</b>
dry disconnect couplings .....	10
cam and groove style dry disconnect couplings .....	11
<b>Hydraulic Fittings</b> .....	<b>12-14</b>
Oilfield, WS series .....	12
Industrial, H series .....	12
Mobile General Purpose, K series .....	13
Wingstyle, W series .....	13
Flushface, HT series .....	13
Highflow Oilfield Flush Face, ST series .....	14
Snap-tite V/VH series .....	14
Enerpac, T/3000 series .....	14
<b>Hammer Unions</b> .....	<b>15</b>
<b>Valves</b> .....	<b>16-19</b>
stainless steel ball valves .....	16
brass ball valves .....	16, 17
locking handle brass ball valves .....	16
spring return handle ball valves .....	17
diverting ball valves .....	17
high pressure grooved end ball valves .....	18
ball cone check valves .....	18
locking handle stainless ball valves .....	18
iron butterfly valves .....	19
<b>Ball-Joint Armored Hose</b> .....	<b>20</b>
<b>WS Series Blowout Prevention Safety Couplings</b> .....	<b>20</b>
<b>Swivel Joints</b> .....	<b>21</b>
<b>Boss Ground Joint Coupling System</b> .....	<b>22</b>
<b>Boss Male Stems</b> .....	<b>22</b>
<b>Boss Clamps</b> .....	<b>23</b>
<b>Oilfield Accessory Products</b> .....	<b>24</b>
<b>Pipe to Pipe Couplings</b> .....	<b>25</b>
<b>Installation and Inspection Procedures</b> .....	<b>26-27</b>

## Hose Coupling Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, [www.osha.gov](http://www.osha.gov).)
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.

**All dimensions illustrated in this brochure are nominal.**

External

## Swage High Pressure Couplings

*For services requiring a fitting capable of withstanding extremely high pressures and severe operating conditions*

### Features:

- For services requiring extremely high pressure (up to 3,000 PSI) applications such as on small and medium size drilling rigs; used for slim hole, core drill, workover, seismograph, water well, blast or shot holes, etc.
- long, rugged fittings machined from seamless pipe and tubing with specially designed serrations
- mating ferrules machined from heavy wall material with matching serrations and rows of set screws ensure better coupling retention
- Couplings are shipped with matching ferrules. To ensure receipt of a properly sized ferrule please provide hose OD when ordering. Make sure both ends of the hose are measured for OD
- must be swaged with a 50 Ton, 100 Ton or 350 Ton Ram (page 4)
- API and NPT sizes are interchangeable

### Material:

- Zinc plated steel

### Sizes:

- available in 2", 2½" and 3"



stem



ferrule

Grade "D"

## Rotary Hose Couplings

*Independent, elevated temperature tested*

### Features:

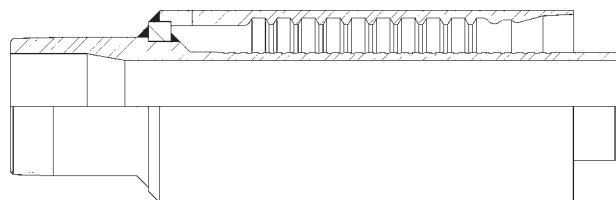
- complies to API 7K specifications
- working pressure: 5,000 PSI
- test pressure: 10,000 PSI
- independent, elevated temperature tested to 180°F
- 95,000 lb. end pull test
- 15,000 cycle test at full working pressure

### Sizes:

- available in 2½", 3" and 3½" ID

### End Configurations:

- weld end and API male



Holedall

# Coupling Machines

*Powerful, finely engineered machines designed specifically to swage and internally expand Holedall couplings by hydraulic pressure.*

All Rams require dies of the proper size to reduce the ferrule to the proper diameter for a good grip on the hose. Pushers of the proper size must be used on the end of the Ram to push the Holedall fitting through the die. Die and pusher selection depends on the sizes and types of hoses being coupled. Ferrule recommendations and a Die Chart binder are available upon request. Consult your Dixon representative for specific details.

## 15 Ton Ram



**Features:**

- designed for internally expanded couplings only
- bench mounted model (optional stand available)
- produces up to 10,000 PSI, for up to 15 tons of ram force
- expands 1" through 3" steel fittings and 3/4" through 4" brass Holedall petroleum fittings
- motor is 1/2 h.p., 115 volt, 60 cycle, single phase with foot pedal

## 25 Ton Ram



**Features:**

- free standing model
- produces up to 10,000 PSI of line pressure for up to 25 tons of ram force
- capable of external swaging 1/4" through 4" ID hose and internal expanding 5/8" through 4" ID hose, with proper equipment
- motor is 1/2 h.p., 115 volt, 60 cycle, single phase with foot pedal
- high speed pump kit option available

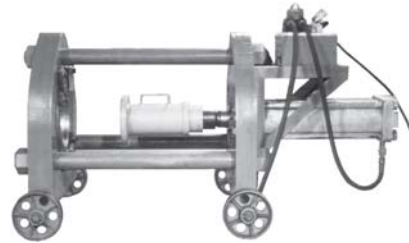
## 50 Ton Ram



**Features:**

- bench mounted model (optional stand available)
- produces up to 10,000 PSI, for up to 50 tons of ram force
- with proper equipment externally swages 1 1/4" through 6" ID hose and internally expands 5/8" through 6" ID hose
- motor is 1-1/8 h.p., 115 volt, 60 cycle, single phase, standard with remote, 220/440 volt motors are available

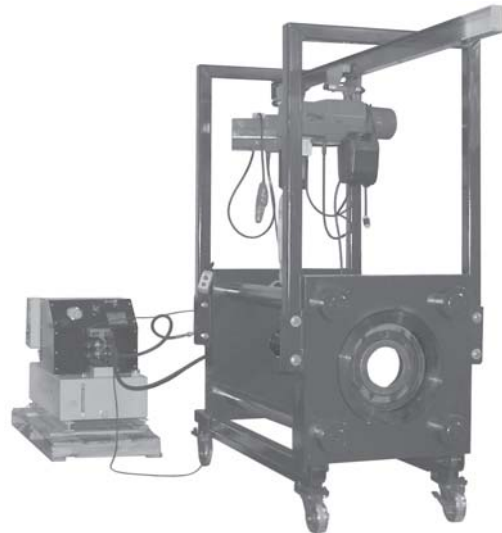
## 100 Ton Ram



**Features:**

- swages Holedall fittings to hose from 1 1/4" through 10" ID
- with optional accessories, this ram may be used for internally expanded couplings on hose from 1 1/4" through 6"
- produces up to 100 tons of ram force
- motor is 1-1/8 h.p., 115 volt, 60 cycle, single phase standard with remote, 220/440 volt motors are available

## 350 Ton Ram



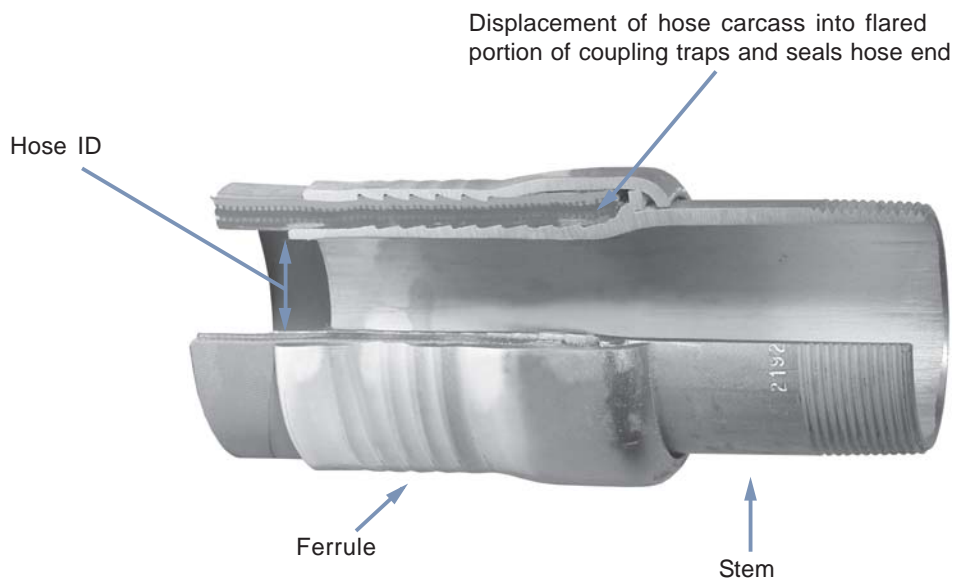
**Features:**

- long stroke allows swaging with one pusher, eliminating the need to stop the machine to add extensions
- 354 tons of swaging force ensures the ram will not stall out
- capable of producing 188 tons of pulling force allowing for internal expansion of fittings
- 10,000 PSI pump with 25 gallon reservoir
- 2 GPM flow rate at 10,000 PSI
- 3-phase motor is 12.5 h.p., 230 volt, 60 Hz, remote is standard



## External Swage Coupling System

*Provides outstanding strength, durability and safety by utilizing a progressive swage*



### Features:

- Patented Holedall couplings include a Holedall stem and a specially engineered ferrule. The hydraulic swaging of the coupling to the hose is accomplished by pushing the ferrule through a die which reduces the ferrule OD. The ferrule penetrates the hose wall, providing a 360° uninterrupted compression band around the hose.
- A hydraulic ram is the only piece of machinery necessary to accomplish the coupling. Available in five different sizes - 15, 25, 50, 100 and 350 ton - these rams will accommodate dies and pushers of various sizes so that hoses up to 10" in diameter may be coupled.
- This multi-purpose, high pressure coupling system requires no bolts and results in a clean coupling with no protrusions. The swaging operation is fast and hose of various lengths and different styles can be coupled. Ease of operation, flexibility and economy make the Holedall method an unequalled assembly system.
- Couplings are furnished with pipe thread, plain end, victaulic grooved or flanged ends.
- Dixon Holedall stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances, for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall products.

**SAFETY**  
**ALERT**

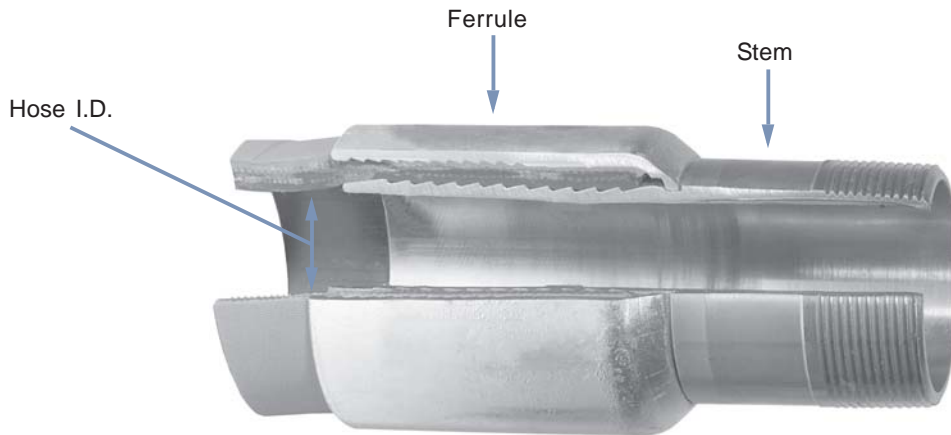
### Material:

- stainless steel and carbon steel

Internal

# Expansion Couplings

*Essential when maximum flow is important*



## Features:

- only one expansion tool is needed for each hose ID
- streamlined, lightweight coupling consists of ferrule and stem, no protrusions to snag on equipment
- Recommended applications for these fittings include: concrete pump hose, plaster and grout hose, oil suction and discharge hose, multi-purpose heavy duty air hose, jetting hose, barge loading hose and bottom loading hose.
- maximum flow of media
- reduction of turbulence through hose
- excellent sealing and retention characteristics
- outperforms band clamps
- easy and consistent installation
- Dixon Holedall stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances, for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall products.

**SAFETY  
ALERT**

## End Configurations:

- male NPT
- raised California
- victaulic
- other end configurations available on request



Scovill Style

# Internally Expanded Couplings

*For discharge and suction service*

## Features:

- commonly used in the fuel transfer industry to homes, airplanes, ships, etc.
- Couplings are compact, light and streamlined to eliminate catching on curbs and shrubs.
- 520-H fittings are designed for internal expansion only
- couplings are pre-lubricated for assembly
- Hand and electrically operated installation equipment is available. Consult factory for pricing and availability.
- The working pressure of the 520-H fitting varies with the size of the fitting, the size and construction of the hose and the media being conveyed. Consult the factory for recommendations.
- Dixon Holedall stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances, for safety reasons, **SAFETY ALERT** do not use other manufacturer's stems or ferrules with Dixon Holedall products.
- intended for fuel delivery service
- Both the male and female fittings have octagonal facets for tightening with a wrench. The 1½" and larger size females have special lugs for tightening. Couplings grip hose firmly over a broad area to provide a permanent, trouble-free assembly. The stem is expanded to nominal ID of hose for a rigid, uniform, full-flow area.

## Material:

- male and female stems machined from bar stock or solid brass forgings
- ferrules are available in brass and stainless steel

## Sizes:

- 520-H series available in ¾", 1", 1¼", 1-3/8", 1½", 2", 2½", 3", and 4"
- 520-G series available in 1", 1½", 2" and 2½"



520-H series  
male



520-H series  
female



520-G series  
grooved/victaulic type

## Hookie Hook Hose Lifter

*For bulk loading or rig supply hose operations in off-shore applications*

## Features:

- stems are yellow zinc plated in accordance with BS1706: 1990 as standard, with threads to API standard 5B: 1988
- Internal swage ferrules are available in yellow zinc plated or powder coat finishes in accordance with the UKOOA (United Kingdom Offshore Operators Association) color system
- Hose lifters are supplied with proof load test certificates and are specifically designed for use with bulk loading hose. Hookie Hook stems are also available, contact the factory for additional information

## Materials:

- forged steel or aluminum bronze

## Sizes:

- available in 3", 4" and 5"



Type C and E

# Swaged & Notched Cam and Groove

*Provides a permanently attached cam and groove fitting when superior coupling retention is required*

## Swaged EZ Boss-Lock Type C Cam and Groove Couplers



coupler x hose shank with ferrule

### Features:

- Developed specifically for chemical transport hoses having Crosslinked Polyethylene (XLPE) or Ultra High Molecular Weight Polyethylene (UHMW) tubes. In testing tank transport hoses from a wide variety of manufacturers, the swaged EZ Boss-Lock fittings proved to be the clear winner in overall performance.

### Sizes:

- coupler available in ¾" and 1"

### Material:

- 316 stainless steel

## Notched EZ Boss-Lock Type C Cam and Groove Couplers



coupler x hose shank

**SAFETY**  
ALERT

### Features:

- The notched EZ Boss-Lock system allows you to better manage your inventory. You can stock one coupling and two ferrules, covering the same hose range with less inventory. *You must purchase a fitting and the matching ferrule to create an assembly.*

**SAFETY**  
ALERT

- The largest advantage of the notched EZ Boss-Lock design is that the coupling can be removed from a damaged hose by cutting away the ferrule without necessarily damaging the fitting. *After inspection to determine its suitability for reuse, it can be reinstalled into another hose by using a new ferrule.*

**SAFETY**  
ALERT

- *Dixon stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances, for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall products.*

### Sizes:

- coupler available 1½", 2", 3" and 4"  
notched ferrule available in 1½", 2", 3" and 4"

### Material:

- 316 stainless steel



notched ferrule

Stainless steel crimp sleeves for Dixon couplers and adapters are available on the next page.

## Swaged Boss-Lock Type E Cam and Groove Adapters

### Features:

- Developed specifically for chemical transport hoses having Crosslinked Polyethylene (XLPE) or Ultra High Molecular Weight Polyethylene (UHMW) tubes. In testing tank transport hoses from a wide variety of manufacturers, the swaged Boss-Lock fittings proved to be the clear winner in overall performance.

### Sizes:

- coupler available in ¾" and 1"

### Material:

- 316 stainless steel



adapter x hose shank with ferrule

## Notched Boss-Lock Type E Cam and Groove Adapters

### Features:

- The largest advantage of the notched Boss-Lock design is that the coupling can be removed from a damaged hose by cutting away the ferrule without necessarily damaging the fitting. *After inspection to determine its suitability for reuse, it can be reinstalled into another hose by using a new ferrule.*
- The notched Boss-Lock system allows you to better manage your inventories. You can stock one coupling and two ferrules, covering the same hose range with less inventory. *You must purchase a fitting and the matching ferrule to create an assembly.*
- *Dixon stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances, for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall products.*

SAFETY  
ALERT

SAFETY  
ALERT

SAFETY  
ALERT



adapter x hose shank



notched ferrule

### Sizes:

- coupler available in 1½", 2", 3" and 4"  
notched ferrule available in 1½", 2", 3" and 4"

### Material:

- 316 stainless steel

## Crimp Sleeves

### Features:

- Hose OD ranges for crimp sleeves are the same as for Dixon's standard cam and groove notched ferrules.
- *Dixon stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances, for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall products.*
- The crimp sleeve is not designed to be used in applications where the assembly is exposed to high temperatures.

SAFETY  
ALERT



### Sizes:

- available in 2" and 3"

### Material:

- 304 stainless steel, carbon steel is also available contact the factory for pricing and availability

Dixon

# Dry Disconnect Couplings

*Connect and disconnect hose and pipelines without accidental spillage and product loss*

**Service:**

- working pressure -
  - aluminum 260 PSI
  - stainless steel 360 PSI
  - brass / gunmetal 360 PSI

**General Features:**

- easy to handle - push and turn - free flow; turn and pull - closed
- time saving - no need to drain hoses or pipe systems
- economical - no loss or spillage of liquids at connection or disconnection
- safety- the valve cannot be opened until the unit is coupled
- environment friendly - accidental spillage eliminated
- safe and reliable - due to rugged construction
- To avoid product contamination caused by connecting a coupler to the wrong adapter, selective versions of the adapters are available. Contact the factory for further information.
- product life - uncomplicated design and high quality materials ensures longer product life
- interchanges with Avery Hardoll and Todo-matic®
- seal kits are available

**Sizes:**

- couplers available in ¾", 1", 1½", 2", 3", 4" and 6"
- dust plugs available in ¾", 1", 1½", 2", 3", 4" and 6"
- adapters available in ¾", 1", 1½", 2", 3", 4" and 6"
- composite dust caps available in ¾", 1", 1½", 2", 3", 4" and 6"
- rubber dust caps available in 1" and 2"

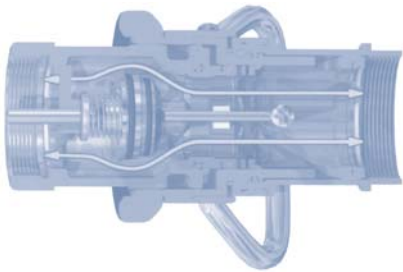
**Materials:**

- 316 stainless steel, anodized aluminum, brass / gunmetal
- standard seal - Viton®
- optional seals- EPDM, NBR - nitrile, Kalrez®, Chemraz®, Perlast®



## How it works

*The principle of operation is identical for all sizes of couplings.*



**Open:**

- push and turn, it is coupled - full flow



**Closed:**

- turn and pull, it is released - no spillage

## Cam and Groove Style

# Dry Disconnect Couplings

*Connect and disconnect hose and pipelines without accidental spillage and product loss*

### General Features:

- compatible with most cam and groove style dry disconnects
- spring loaded sealing device designed to "snap" closed should the valve become disconnected with the poppet open
- Contact the factory for chemical compatibility, size, and material selection. Special configurations can be designed for your application.

### Adapter Features:

- two-piece adapter design for easy rebuilding of adapters
- fully interchangeable with Kamvalok (OPW trademark) style fittings
- aluminum fittings have aluminum nose piece and brass piston

### Coupler Features:

- Dixon EZ Boss-Lock cam arms provide high security from accidental opening due to vibration or snagging.
- heavy duty stainless steel crank and link provides long service life.
- dry disconnect coupler has automatic closing poppet assembly
- stainless steel handle allows product exposure to corrosive chemicals or washdown service
- strong handle attachment prevents sheared pins and misaligned crank assemblies
- fully interchangeable with Kamvalok (OPW trademark) style fittings
- aluminum fittings have stainless steel (corrosion resistance comparable to 304 stainless) internals
- a DBA style adapter (sold separately) is required for the coupler to operate

**SAFETY**  
**ALERT**

### Sizes:

- couplers available in 1½", 2" and 3"
- adapters available in 1½", 2" and 3"

### Materials:

- stainless steel, aluminum
- adapter seals-
  - Buna
  - Viton®
  - Teflon® Encapsulated Silicone
  - EPT
  - Chemraz®
  - Teflon Encapsulated Viton®
- coupler seals-
  - Buna
  - Viton®
  - EPT
  - Teflon® Encapsulated Silicone and Kelraz®
  - Teflon® Encapsulated Silicone and Chemraz®
  - Teflon® Encapsulated Viton® and Chemraz®
  - Chemraz® and Teflon®



1½" and 2" DBA adapter



3" DBA adapter



1½" and 2" straight coupler



3" straight coupler



90° swivel

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Dixon, 877.963.4966



Hydraulic

# Quick Disconnect Couplings

*Serving the market for coupling sizes of 2" or below, these products are used in a variety of hydraulic and pneumatic applications*

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## Oilfield Series WS-Series Snap-Tite 75 Interchange



### Features:

- sleeve is cast using a unique process that provides improved surface finishes, tighter tolerance control and excellent repeatability
- Heavy duty hammer lugs are designed to provide optimum durability during connection and disconnection
- Seals are easily field replaceable, including the valve seal, which can be replaced without replacing the whole valve
- Comply with applicable Det Norske Veritas North Sea standards for coupling applications
- Unique initial-thread profile ensures nipple longevity in the toughest environments

### Sizes:

- available in ¾", 1", 1¼", 1½" and 2"

### Material:

- coupler and nipple: steel, 316 stainless
- dust plug and cap: aluminum body with stainless steel bead chain

---

## Industrial Hydraulic Series H-Series ISO7241 Series B Interchange



SAFETY  
ALERT

### Features:

- couplers and nipples comply with ISO7241, Series B
- wide variety of body and seal materials and thread configurations maximize compatibility in a variety of applications
- large diameter heavy duty knurled sleeves are designed to resist brinelling and maximize performance under impulse conditions
- not recommended for BOP (blow out prevention) systems

### Sizes:

- available in 1/8", ¼", 3/8", ½", ¾", 1", 1¼" and 1½"

### Material:

- coupler and nipple: steel, brass, 303 stainless, 316 stainless
- dust plug and cap: elastomer body and lanyard
- rigid dust plug and cap: aluminum body, steel ring
- protective pressure cap - steel



## Mobile General Purpose Series

### K / 5600-Series ISO7241 Series A Interchange

#### Features:

- couplers and nipples comply with ISO7241 Series A
- couplers have a high concentration of locking balls to reduce incidents of brinelling during operation
- heavy duty knurled sleeves are designed to resist brinelling (to create round indentations in a metal surface) and maximize performance under impulse conditions
- wide variety of thread configurations maximize compatibility in a variety of applications

#### Sizes:

- available in ¼", 3/8", ½", ¾", 1", 1¼", 1½" and 2"

#### Material:

- coupler and nipple: steel
- dust plug and cap: elastomer body and lanyard



## Wingstyle Series

### W / 7800-Series Wing Interchange

#### Features:

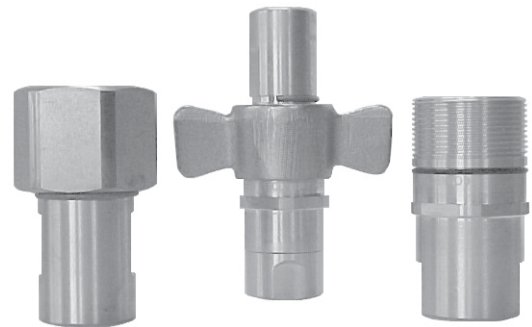
- threaded wing or hex sleeves enable easy connection and disconnection while under pressure
- O-ring connected marker is highly visible during connection, and helps keep contaminants out of the threads while connected
- coupler has a high flow tubular valve designed to reduce pressure drop and turbulence while improving flow performance
- bulkhead mounting kits available to secure nipples for simplified connection and disconnection
- flanged bonded seal prolongs coupling life and is integral in the reduction of spillage and air inclusion

#### Sizes:

- available in ¾", 1", 1¼" and 1½"

#### Material:

- coupler and nipple: brass, steel wing nut
- dust plug and cap: brass body with stainless steel bead chain
- nipple mounting flange: steel



## Flush Face Series

### HT-Series ISO16028 Flushface Interchange

#### Features:

- patented coupler-stem retention system provides optimum performance during surge flow, burst and impulse pressure
- couplers have a high concentration of locking balls to reduce incidents of brinelling during operation
- couplings designed to exceed 1,000,000 cycles during impulse testing, making them ideal for hammers
- heavy duty grooved sleeves are versatile, rugged and ideal for bulkhead mounting
- wide selection of seal and body materials provides optimum versatility in a variety of applications

#### Sizes:

- available in 3/8", ½", 5/8", ¾" and 1"

#### Material:

- coupler and nipple: steel, 316 stainless
- dust cap: elastomer body and lanyard



## High Flow Oilfield Flush Face Series ST-Series Snap-tite 71 Interchange



**Features:**

- design minimizes air inclusion during connection and fluid loss during disconnection
- heavy duty grooved sleeves provide bulkhead mounting options and reduce instances of brinelling
- designed to exceed 1,000,000 cycles during impulse pressure conditions
- couplings comply with applicable Det Norske Veritas North Sea standards for coupling applications
- available in a wide variety of materials, including high pressure stainless steel configurations upon request

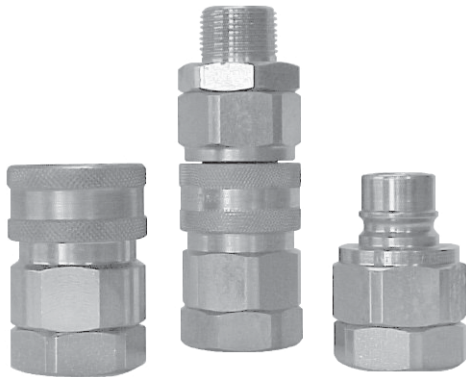
**Sizes:**

- available in 1/4", 3/8", 1/2", 3/4", 1" and 2"

**Material:**

- coupler and nipple: steel, 316 stainless
- dust cap: aluminum body with stainless steel bead chain

## Snap-tite Series V / VH-Series Snap-tite H / IH Interchange



**Features:**

- couplers and nipples comply with MIL-C-51234
- couplers have a high concentration of locking balls to reduce incidents of brinelling during operation
- large diameter heavy duty knurled sleeves are designed to resist brinelling and maximize performance under impulse conditions
- available in single shut-off, double shut-off, or straight through configurations with a wide selection of end connections

**Sizes:**

- available in 1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2"

**Material:**

- coupler and nipple: steel, brass, 316 stainless
- rigid dust plug and cap: aluminum body with stainless steel bead chain

## Enerpac Series T / 3000-Series High Pressure Screw-Together Interchange



**Features:**

- threaded sleeve allows connection and disconnection while coupler and/or nipple are under pressure
- urethane seal resists extrusion under high pressure during connection and disconnection

**Sizes:**

- available in 1/4" and 3/8"

**Material:**

- coupler and nipple: steel, 316 stainless
- dust plug and cap: steel body with steel chain lanyard

Dixon

# Hammer Unions

*Color coded connectors for temporary pipe and flow line installations*



100 Series

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## 100 Series

**Features:**

- used on low pressure manifolds and lines and in applications running air, water, oil or gas up to 1,000 PSI NSCW (non-shock cold working pressure)
- yellow sub, black nut

**Sizes:**

- available in 2", 2½", 3", 4", 6" and 8"

---

## 200 Series

**Features:**

- used in general service applications running air, water, oil or gas up to 2,000 PSI NSCW (non-shock cold working pressure)
- grey sub, blue nut

**Sizes:**

- available in 1", 1½", 2", 2½", 3", 4" and 6"

---

## 206 Series

**Features:**

- O-ring mounted sub provides excellent sealing properties
- runs air, water, oil or gas up to 2,000 PSI NSCW (non-shock cold working pressure)
- grey sub, blue nut

**Sizes:**

- available in 1", 1½", 2", 2½", 3", 4" and 6"

---

## 602 Series

**Features:**

- lip type seal ring minimizes fluid flow turbulence while creating a pressure seal
- for use in mud, manifold service and truck mounting applications running air, water, oil, gas or mud up to 6,000 PSI NSCW (non-shock cold working pressure)
- orange sub, black nut

**Sizes:**

- available in 1" and 2"

---

## 1002 Series

**Features:**

- lip type seal ring minimizes fluid flow turbulence while creating a pressure seal
- for use in high pressure systems and truck mounting applications running air, water, oil, gas or mud up to 10,000 PSI NSCW (non-shock cold working pressure)
- blue sub, red nut

**Sizes:**

- available in 1", 2" and 4"

---

## 1502 Series

**Features:**

- lip type seal ring minimizes fluid flow turbulence while creating a pressure seal
- for use in extreme high pressure applications running air, water, oil, gas or mud up to 15,000 PSI NSCW (non-shock cold working pressure)
- red sub, blue nut

**Sizes:**

- available in 2"

- Note: socket weld configurations and other materials are available, contact the factory for further information.
- Mismatching components of 1 series with another (i.e. 602 series with 1502 series) can lead to destruction of property, serious bodily injury or death.



Ball, Check and Butterfly

# Valves

For the control of air, water, oil and gas in hose or pipe lines

## Domestic Brass Ball Valves



Female NPT x Female NPT

**Features:**

- for control of air, water, oil and gas in hose or pipe lines, for other services, please contact the factory
- rated to 600 PSI WOG; 150 PSI saturated steam
- brass valve bodies, balls and stems
- blow-out proof stems
- glass-filled reinforced Teflon® seats and stuffing box ring; stem seals and washers.
- plated steel handles and nuts with vinyl sleeves, both styles repairable
- meets WW-V 35C, Type II Composition
- ball valve handle replacements available, consult factory for pricing
- ¼", 3/8" and ½" available in full port design
- ¾", 1", 1¼", 1½" and 2" available in standard port design

## Locking Handle Brass Ball Valves

sliding lock mechanism



female NPT x female NPT

**Features:**

- for control of air, water, oil and gas in hose or pipe lines, for other services, please contact the factory
- rated to 600 PSI WOG; 150 PSI steam
- blow-out proof RPTFE stem
- chrome-plated brass ball
- stainless steel sliding lock mechanism secures handle in open or closed position; can be padlocked opened or closed.
- ¼", 3/8" and ½" available in full port design
- ¾", 1", 1¼", 1½" and 2" available in standard port design



## Global Brass Ball Valves



female NPT x female NPT

**Features:**

- for control of air, water, oil and gas in hose or pipe lines
- rated to 600 PSI WOG
- body: forged brass, UNS#C37700
- adjustable stem packing nut
- silicone free
- temperature range to 300°F (150°C)
- Underwriters approved
- CSA (Canadian Standards Association) approved
- ½", ¾", 1", 1¼", 1½" and 2" available in full port design

## Stainless Steel Reduced Port Ball Valves



reduced port female NPT x female NPT

**Features:**

- for use in water, oil and gas
- ¼" - 1" rated to 2000 PSI (CWP); 1¼" - 2" rated to 1500 PSI (CWP)
- body conforms to ASTM A-351 Grade CF8M
- ball is 316 stainless steel
- PTFE, glass filled seat
- blow-out proof stem design
- ¼", 3/8", ½", ¾", 1", 1¼", 1½" and 2" available in reduced port design

## "Deadman" Spring Return Handle Ball Valves

### Bronze Features:

- rated to 600 PSI WOG; 150 PSI saturated steam
- vacuum service to 29 inches Hg
- threaded bronze valve
- stainless steel lever
- Chromium plated ball
- RTFE seats and stuffing box ring
- blow-out proof stem design
- adjustable packing gland
- spring return closes valve when not held open
- operating torque approximately three times standard valve torque.
- ½" available in full port design
- ¾", 1", 1½" and 2" available in standard port design

### 316 Stainless Steel Features:

- rated to 2000 PSI WOG ½" to 1"; 1500 PSI WOG 1¼" to 2"
- 150 PSI saturated steam, all sizes
- vacuum service to 29 inches Hg, all sizes
- PTFE seals
- blow-out proof stem design
- adjustable packing gland
- spring return closes valve when not held open
- operating torque approximately three times standard valve torque



female NPT x female NPT

## 3-Way Diversion Ball Valves

### Bronze Features:

- bronze body
- can be used with gasoline and diesel fuel
- rated to 400 PSI WOG
- blow out proof stem
- Chromium-plated ball
- RPTFE seats and stuffing box ring
- stainless steel handle and nut with vinyl sleeve
- adjustable packing gland
- ½" available in full port
- ¾" and 1" available in standard port design

### Stainless Features:

- stainless steel body and ball
- rated to 800 PSI WOG
- blow out proof stem
- RPTFE seats and stuffing box ring
- stainless steel handle and nut with vinyl sleeve
- adjustable packing gland
- meets NACE MR-01-75
- ½" available in full port design
- ¾" and 1" available in standard port design



L flow pattern  
female NPT x female NPT x female NPT

## 3-Way Diverting Ball Valves

### Features:

- rated to 400 PSI WOG; 100 PSI saturated steam
- brass body
- blow out proof stem
- chrome plated brass ball
- PTFE seats, seals, and thrust washer
- adjustable stem packing
- temperature range to 320°F
- ½", ¾", 1", 1¼", 1½" and 2" available in standard port design

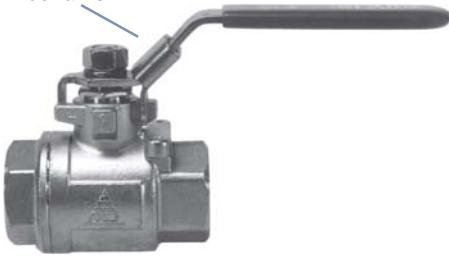


T flow pattern  
female NPT x female NPT x female NPT



## Locking Handle Stainless Steel Ball Valves

sliding lock mechanism

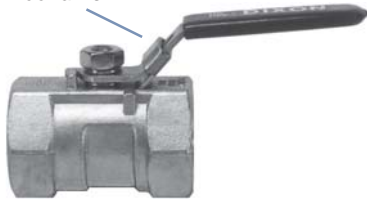


full port with locking handle  
female NPT x female NPT

**Features:**

- for use in water, oil and gas
- rated to 1000 PSI WOG; 100 PSI saturated steam
- 316 stainless steel body, ball and stem
- Teflon® seat, joint gasket and thrust washer
- plastic cover on handle
- blow-out proof stem design
- temperature range -60°F to 450°F
- ¼", 3/8", ½", ¾", 1", 1¼", 1½" and 2" available in full port design

sliding lock mechanism



reduced port with locking handle  
female NPT x female NPT

**Features:**

- for use in water, oil and gas
- rated to 800 PSI WOG; 100 PSI saturated steam
- 316 stainless steel body, ball and stem
- Teflon® seat, joint gasket and thrust washer
- plastic cover on handle
- blow-out proof stem design
- temperature range -60°F to 450°F
- ¼", 3/8", ½", ¾", 1", 1¼", 1½" and 2" available in reduced port design

## Compact High Pressure Grooved End Ball Valves



grooved end x grooved end

**Features:**

- suitable for many applications in high pressure pipeline systems, including petroleum, process systems, water, oil and gas
- rated to 600 PSI
- ductile iron
- epoxy coated high strength ductile iron body
- 316 stainless steel ball and stem
- 15% glass reinforced Teflon® seats
- temperature rated to 450°F
- available in 4" and 6"

## Ball Cone Check Valves



female NPT x female NPT



female NPT x male NPT

**Features:**

- For use with water, oil, air lines or inert gases. Not recommended for use on or near reciprocating pumps or other similar *vibration causing machinery*.
- tight shut-off with liquid media
- no radial alignment necessary
- straight through and streamlined for minimum change in velocity
- reinforced TFE check is spring loaded for fast seating action
- rated to 400 PSIG WOG, cold non-shock; 125 PSIG saturated steam
- cracking pressure is .5 PSI
- temperature range -20°F to 353°F
- ¼", 3/8", ½", ¾", 1", 1¼", 1½", 2", 2½" and 3" available in brass (female NPT x female NPT)
- ¼", 3/8", ½", ¾" and 1" available in stainless (female NPT x female NPT)
- ¼", 3/8", ½", ¾", 1", 1¼", 1½" and 2" available in brass (male NPT x female NPT)



## High Pressure Full-Bore Hydraulic Ball Valves

### Features:

- blow-out proof stem
- rugged construction
- Viton® shaft seals
- female NPTF and SAE ORB threads
- available in carbon and stainless



female NPTF x female NPTF

## Ductile Iron Butterfly Valves

*NOT RECOMMENDED FOR STEAM SERVICE*



*Pictures are representative, different size valves have different hole patterns.*

### Threaded Lug Style with bronze disc

#### Features:

- for use between two 150 lb. flanges
- will lock "open" or "closed"
- rated to 200 PSI
- ductile iron body, ASTM A126, class B
- aluminum bronze disc, ASTM B148, ALY.954
- Buna-N seal and stem seals
- available with Buna-N and EPDM liners
- PTFE bushing
- stainless steel top and bottom stems
- available in 2", 3", 4" and 6"



### Wafer Style with bronze disc

#### Features:

- for use between two 150 lb. flanges
- will lock "open" or "closed"
- rated to 200 PSI
- ductile iron body, ASTM A126, class B
- aluminum bronze disc, ASTM B148, ALY.954
- Buna-N seal and stem seals
- available with Buna-N and EPDM liners
- PTFE bushing
- stainless steel top and bottom stems
- available in 2", 3", 4" and 6"



### Wafer Style with stainless disc

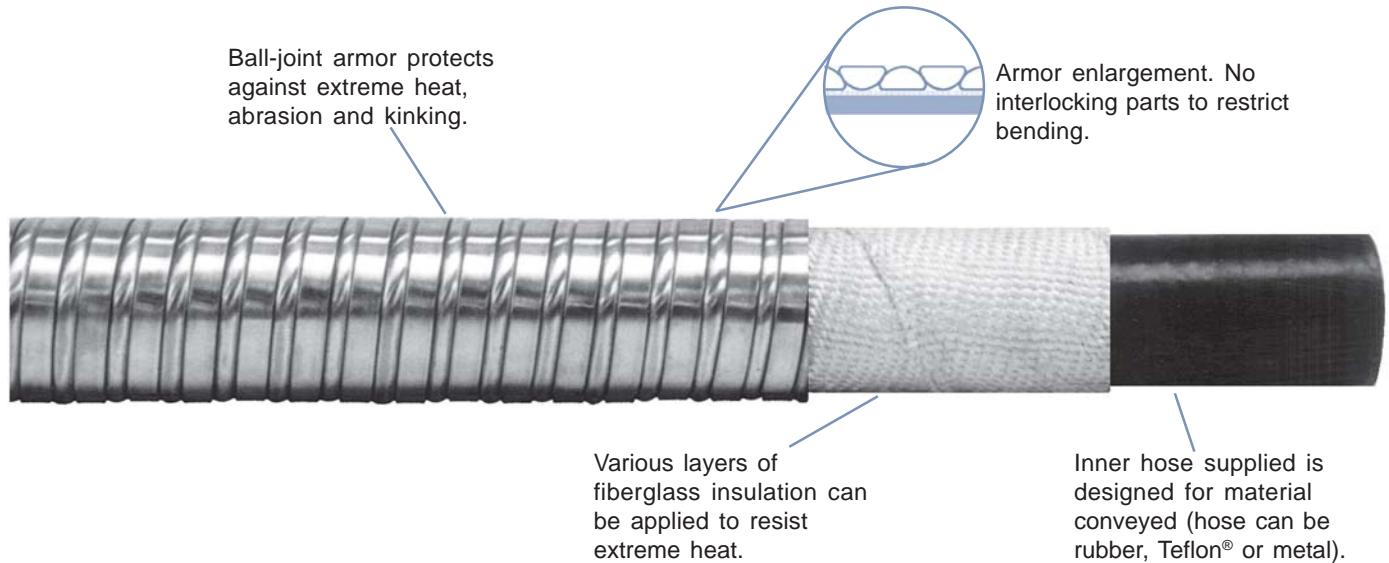
#### Features:

- for use between two 150 lb. flanges
- will lock "open" or "closed"
- rated to 200 PSI
- ductile iron body, ASTM A536
- stainless steel disc, ASTM A351, GR. CF-8M
- Buna-N seal, stem seals and liner
- PTFE bushing
- stainless steel top and bottom stems
- available in 2", 3", 4" and 6"



# GSM Ball-Joint Armored Hose

*A flexible connector for demanding service conditions*



## Features:

- A combination of insulation and GSM exclusive ball-joint armor protects hose from extreme heat, flame, abrasion, molten splash and kinking.
- GSM armor is applied directly over two wraps of insulation, leaving no gap between the armor and the hose.
- The insulation and armor are applied under controlled tension resulting in an integrated union of armor to the hose O.D.

## Materials:

- galvanized steel and stainless steel

## Sizes:

- ¼" - 12"

# WS Series Blowout Prevention Couplings



## Features:

- fire tested and Lloyd's certified to 700°C (1300°F) in accordance with API 16D (Certificate #NAO 0601041/1)
- Designed for hazardous area service where couplings are required to operate under fire conditions in an emergency.
- Sleeve is cast using a shell cast method that provides a better surface finish, tighter tolerance control, and excellent repeatability.
- Blowout Prevention Couplings are individually marked with the BOP series designation

## Material:

- coupler and nipple: steel, 316 stainless

## Sizes:

- available in ¾", 1", 1¼", 1½" and 2"

Performance Specifications	Operating Bar	Pressure PSI	Coupled Burst Bar (PSI)	Flow Rate $\Delta P=1$ Bar	Locking Mechanism
¾" steel	345	5,000	1,380 (20,000)	157 LPM (40 GPM)	Threaded
1" steel	345	5,000	1,380 (20,000)	227 LPM (60 GPM)	Threaded
1¼" steel	345	5,000	1,035 (15,000)	310 LPM (82 GPM)	Threaded
1½" steel	345	5,000	1,035 (15,000)	416 LPM (110 GPM)	Threaded
2" steel	345	5,000	1,035 (15,000)	908 LPM (240 GPM)	Threaded

Dixon

# Swivel Joints

*Full 360° rotational movement offers the maximum in flexibility*

## General Features:

- wide spacing between dual ball bearing raceways ensures greater load-bearing capacity
- precision-machined design ensures alignment and years of trouble-free service
- O-ring dust seal protects ball races and seal chamber from all outside elements
- radius elbow design ensures a smooth flow pattern
- optional 100% full penetration welding available

## O-Ring Style Features:

- The O-ring pressure seal ensures a leak-proof seal at either high or low pressure and smoother rotation at lower torques than multiple seal designs.
- Spring-loaded Teflon® pressure seals are available up through 3".
- Carbon steel and stainless steel O-ring type swivels provide greater strength and corrosion resistance when needed for lower torque applications.

## V-Ring Style Features:

- The spring-loaded triple V-ring sealing system ensures a leak-proof seal at either high or low pressure and an extended seal life compared to the conventional single O-ring design.
- The 3" - 8" carbon steel swivels are manufactured from carbon steel with flame hardened dual raceways for greater load bearing capacity and longer life.
- The stainless steel swivels are manufactured in 316 grade stainless steel for superior corrosion resistance.
- available with pressure ratings to 1,000 PSI

## Materials:

- V-ring type: carbon steel, stainless steel, aluminum
- O-ring type: carbon steel, stainless steel, aluminum, brass and iron

## Sizes:

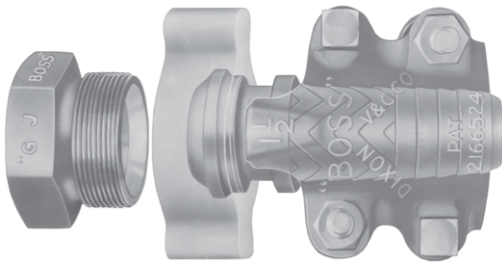
- V-ring type available in 2", 3", 4", 6" and 8"
- O-ring type available in 1", 1¼", 1½", 2", 3" and 4"



Boss

# Ground Joint Coupling System

*Boss couplings are all-purpose hose couplings, universally recommended for steam hose connections.*



## Service:

- used for steam, air, water, fluid petroleum and chemicals
- can be used for liquid petroleum gas up to 1" ID
- can be applied to many types of rubber, synthetic, plastic, metallic or semi-metallic hose, consult the factory for specific media capabilities

## Features:

- positive Metal-to-Polymer Seal - a leakproof seal is formed when the metal head of the stem makes contact with the patented polymer seat in the spud.
- The non-metallic polymer seat resists most chemicals found in manufacturing facilities (reference the Corrosion Resistance chart in the Dixon Price List or on the web at [www.dixonvalve.com/resources/cr\\_chart.php](http://www.dixonvalve.com/resources/cr_chart.php))
- recommended for steam service up to 450°F
- easy to seal
- works with existing ground joint fittings
- use with Boss clamps on page 23

**SAFETY  
ALERT**

## Materials:

- stems: ¼" - 1" plated steel, 1¼" - 4" plated iron, 6" tubular steel
- spuds: ¼" - 1" plated steel, 1¼" - 6" plated iron
- wing nuts: ¼" - 1" plated steel, 1¼" - 6" plated iron

## Sizes:

- Available in ¼", 3/8", ½", ¾", 1", 1¼", 1½", 2", 2½", 3", 4" and 6"

## Boss Male Stems



brass



iron



steel bar stock



316 stainless

## Features:

- use with Boss clamps on page 23.

## Materials:

- steel bar stock, iron, 316 stainless steel, brass

## Sizes:

- ¼", 3/8", ½", ¾", and 1" available in steel bar stock
- 1¼", 1½", 2", 2½", 3" and 4" available in iron
- ½", ¾", 1", 1¼", 1½", 2", 2½", 3" and 4" available in 316 stainless steel
- ¾", 1", 1¼", 1½", 2" and 3" available in brass

# Boss Clamps

*Widely used for air, water, fluid, petroleum, steam, chemicals and liquid petroleum*

## Features:

- The bolts used in the Boss interlocking clamps are not standard bolts. They vary from standard bolts in their length, diameter, overall thread length and material hardness. These bolts can be retorqued, but it is **not** recommended that the bolts or clamps be reused, as they are designed for a single bend only. Dixon recommends using only factory supplied replacement bolts. SAFETY ALERT
- Torque values for clamps are based on dry bolts. The use of lubricant on bolts will adversely effect clamp performance.
- do not lubricate nuts and bolts SAFETY ALERT
- refer to page 26-27 for installation and inspection procedures
- replacement nuts and bolts are available, contact the factory for more information

## Materials:

- plated iron, stainless steel, brass, investment cast carbon steel

## Sizes:

- ¼", 3/8", ½", ¾", 1", 1¼", 1½", 2", 2½", 3", 4" and 6" available in plated iron
- ½", ¾", 1", 1¼", 1½", 2" and 3" available in stainless steel
- ½", ¾", 1", 1¼", 1½", and 2" available in brass



2-bolt type



4-bolt type  
2 gripping fingers



4-bolt type  
4 gripping fingers

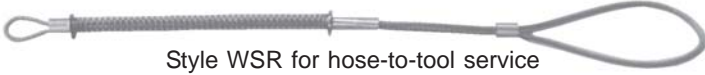


6-bolt type  
three piece

# Oilfield Accessory Products

*Additional accessory products offered by Dixon*

## King Safety Cables



Style WSR for hose-to-tool service



Style W for hose-to-hose service

**Service:**

- When hose, couplings or clamps fail, or there is an accidental separation of the assembly, King safety cables minimize injuries to operators and damage to equipment. King safety cables reach across the hose fittings to provide standby safety for hose.

**Styles:**

- WSR for hose-to-tool service; W for hose-to-hose service; other cable options are available, contact the factory for additional information

**Materials:**

- steel, stainless steel

## Gauges



brass liquid-filled



stainless liquid-filled



stainless panel builder



FlutterGuard™ dry

**Service:**

- Applications include those on pumps, hydraulic and pneumatic systems, compressors, machine tools and many other installations where it is necessary to have a gauge with a non-corrosive movement.

**Styles:**

- dry, contractor pressure, liquid filled, compound, welding, panel builder and vacuum gauges

**Materials:**

- stainless steel, brass, ABS plastic cases

## Filters, Regulators and Lubricators



Series 1 - coalescing filter



Wilkerson - high flow regulator



Watts - standard lubricator

**Service:**

- rugged, reliable air preparation systems protect your pneumatic equipment

**Styles:**

- compact, standard and miniature



# Straub Couplings

Joins like or dissimilar pipe materials: steel, galvanized, painted, stainless steel, thin-wall stainless steel, PVC, copper

## Grip-L Pipe to Pipe Couplings

### Service:

- not for steam or refrigerant service



### Features:

- Requires no special tools or pipe-end preparation; only a torque wrench is required for a secure and safe pipe connection that seldom needs retightening. Reusable.
- absorbs vibration, water hammer, and sound
- particularly suitable for pipes within the lower pressure range
- special patented grip ring for superior holding power on hard-surfaced pipes
- built to ASTM 1476, Type 2, Class 2 specifications
- Applications include, but are not limited to: shipbuilding, water and waste water treatment plants, and industrial process pipework.

### Specifications:

- casing: AISI 316Ti
- screws: AISI 316 L
- U-bolts: AISI 316 Ti
- anchoring ring: AISI 301
- EPDM sealing sleeve: temp. range - 4°F to 176°F (-20°C to 80°C)

### Materials:

- component parts: 316 Ti stainless steel, *elastomer liner*
- sealing sleeve: EPDM standard (NBR and Viton® A are also available, contact the factory for additional information)

### Sizes:

- available in ¾", 1", 1½", 2", 2½", 3", 4", 5", 6" and 8"



## Open-Flex 1L Couplings

### Service:

- not pull-out resistant



### Features:

- Requires no special tools or pipe-end preparation; only a torque wrench is required for a secure and safe pipe connection that seldom needs retightening.
- Straub Open-Flex couplings do *require the pipes to be properly anchored and restrained* as they are *not pull-out resistant* like the Straub Grip-L couplings
- absorbs vibration, water hammer, and sound
- built to ASTM 1476, Type 2, Class 3 specifications
- acts as an expansion joint; will accept up to .25" of axial movement

### Specifications:

- casing: AISI 316Ti
- screws: AISI 4135 steel
- bolts: AISI 12L 14 galvanized
- EPDM sealing sleeve: temp. range - 4°F to 176°F (-20°C to 80°C)

### Materials:

- component parts: 316 Ti stainless steel, 4135 steel, 12L 14 galvanized
- sealing sleeve: EPDM

### Sizes:

- available in 1½", 2", 2½", 3", 4", 5" and 6"



## Procedure 1000

### Boss Clamp Selection

1. Measure the hose ID (Inside Diameter).
  2. Measure the hose free OD (Outside Diameter) with a diameter tape. Free OD is measured before the stem is inserted.
  3. On the Boss clamp page in the Boss couplings section of the current DPL (Dixon Price List) locate the Hose ID column.
  4. Locate the section in that column that corresponds with the hose ID.
  5. From that section, select the clamp with a hose OD range (Hose OD From/To columns) that best fits the hose OD just measured.
    - a. For steam hose, select the clamp that has a maximum range (To column) as close to the measured hose O.D. as possible. This will allow the clamp to be re-tightened many times to adjust for Cold-Flow which speeds up with increased temperature and/or hot/cold cycles.
    - b. For hard wall constructed hose (wire present) with an OD at or near the clamp's maximum range (To column), use of the next largest clamp may be required.
    - c. For soft wall constructed hose (no wire present) having an OD at or near the clamp's minimum range (From column), use of the next smallest clamp may be required. Select the proper clamp based on material requirements.
  6. Select the proper clamp material based on the environmental compatibility requirements.
- 

## Procedure 2000

### Installation of Boss 2-Bolt Clamp

1. Insert shank into hose.
  2. Place the stem in a vise:
    - a. For male stems, tighten the vise on the hex.
    - b. For female stems (wing nut), place a spud in the vise, tighten, and then thread the wing nut onto the spud.
  3. Position the clamp gripping fingers behind the stem collar.
  4. Tighten the bolts by hand until there is equal thread engagement. When hose OD is at or near clamp maximum range, starting of nuts on bolts may require squeezing clamp halves in a vise.
  5. Using a torque wrench tighten bolts to the recommended torque value listed in the current DPL. Torque values are based upon "dry bolts". Lubricant on bolts will adversely effect clamp performance.

Bolt tightening sequence:

    - a. Front bolt, 1 full turn.
    - b. Opposite side front bolt, 1 full turn.
    - c. Repeat "a" and "b" until all bolts are tightened. Clamp bolts are designed to bend during tightening. This "bending" allows the clamp to conform to the hose circumference.
  6. Inspect results using Procedure 3000 (Criteria for Sufficient Fit of a Boss Clamp) and Procedure 3001 (Bolt Clamp Inspection).
  7. Test assembly using Procedure 4000 (General Hydrostatic Testing Information) and 4001 (Hydrostatic Testing Procedure).
- 

## Procedure 2001

### Installation of Boss 4-Bolt Clamp

1. Insert shank into hose.
2. Place the stem in a vise:
  - a. For male stems, tighten the vise on the hex.
  - b. For female stems (wing nut), place a spud in the vise, tighten, and then thread the wing nut onto the spud.
3. Position the clamp gripping fingers behind the stem collar.
4. Tighten the bolts by hand until there is equal thread engagement. When hose OD is at or near clamp maximum range, starting of nuts on bolts may require squeezing clamp halves in a vise.
5. Using a torque wrench tighten bolts to the recommended torque value listed in the current DPL. Torque values are based upon "dry bolts". Lubricant on bolts will adversely effect clamp performance. Bolt tightening sequence:
  - a. Back bolt, 1 full turn.
  - b. Front bolt, 1 full turn.
  - c. Snug by hand, nuts on opposite side of bolts just tightened.
  - d. Opposite side back bolt, 1 full turn.
  - e. Opposite side front bolt, 1 full turn.
  - f. Snug by hand, nuts on opposite side of bolts just tightened.
  - g. Repeat "a" to "f" until all bolts are tightened. Clamp bolts are designed to bend during tightening. This "bending" allows the clamp to conform to the hose circumference.
6. Inspect results using Procedure 3000 (Criteria for Sufficient Fit of a Boss Clamp) and Procedure 3001 (Bolt Clamp Inspection).
7. Test assembly using Procedure 4000 (General Hydrostatic Testing Information) and 4001 (Hydrostatic Testing).

*Installation and Inspection procedures may be viewed in full on the Dixon website, [www.dixonvalve.com](http://www.dixonvalve.com).  
A printed copy of the complete Installation and Inspection Procedures Manual is available upon request.*

*Procedure 3000***Criteria for Sufficient Fit of a Boss Clamp**Minimum Range

1. 1/32" clearance between clamp halves (both sides) for clamps designed to fit 1/4" ID through 2" ID hose.
2. 1/16" clearance between clamp halves (both sides for 4 bolt clamps) or all segments (6 bolt clamps) for clamps designed to fit 2-1/2" ID through 6" ID hose.
3. 1/32" clearance between clamp gripping fingers (all gripping fingers) and stem groove for all sizes.

Maximum Range

1. 1/32" interlock between clamp gripping finger and stem collar (all gripping fingers) for clamps designed to fit 1/4" ID - 2" ID hose.
2. 1/16" interlock between clamp gripping finger and stem collar (all gripping fingers) for clamps designed to fit 2-1/2" ID - 6" ID hose.
3. 1/32" interlock between dovetail extensions (both sides) for clamps designed to fit 1/4" ID through 2" ID hose.
4. 1/16" interlock between dovetail extensions on both sides (4 bolt clamps) or all segments (6 bolt clamps) for clamps designed to fit 2-1/2" ID through 6" ID hose.

*Procedure 3001***Bolt Clamp Inspection**All Bolt Clamps

1. Prior to initial use, check to ensure that the clamp is appropriate for the hose and application.
2. Prior to initial use and at scheduled subsequent inspections, ensure that each clamp has its full complement of nuts and bolts. If any are missing, call an authorized Dixon distributor or Dixon at 1-800-355-1991. Replacing clamp nuts and bolts with other than those supplied by Dixon could adversely affect the function of the clamp.
3. Prior to use after storage, tighten all bolts to their recommended torque rating. Use the tightening sequence recommended in the appropriate Dixon Procedure. Over tightening nuts can damage the bolt and /or clamp and affect its function.
4. For assemblies that are in constant service (connected whether product is being conveyed or not), retighten all bolts to their recommended torque rating every month. *Note: Do not tighten bolts while assembly is pressurized.*
5. Prior to initial use of the assembly, spray paint the junction of the hose and coupling. *Note: Use a paint color that contrasts with the color of the coupling and the hose cover. Do not use silver paint.*
6. Look for slippage between the hose and coupling prior to each use, during use and at each scheduled inspection. If 1/16" or more slippage has occurred or occurs, repair the assembly. *Note: If slippage has occurred, inspect the hose to determine suitability for returning it to service. Follow hose manufacturer's recommendations for determining hose serviceability. Note: Some hoses exhibit "stretch" while under pressure. This stretch may appear to be slippage. To be certain, relieve the pressure in the assembly. If the "slippage" indication disappears, stretch has occurred and the assembly can be returned to service. If the "slippage" indication does not disappear, the assembly should be removed from service for repair or replacement.*

Bolt Clamps without Gripping Fingers

1. Prior to each use or at each inspection interval, inspect:
  - a. Bolt lugs for cracks.
  - b. Bolt lugs for excessive wear (worn down to bolt hole).
  - c. Clamp bodies for cracks.
  - d. Clamp bodies for excessive wear. (Example: Lettering detail "Dixon" worn off.)
  - e. For inadequate spacing between clamp halves (on clamps without saddles).
  - f. For inadequate spacing between clamp halves and the saddle loop (on clamps with saddles).
2. If any of the above conditions exist, do not place assembly in service or remove assembly from service.

Bolt Clamps with Gripping Fingers

1. Prior to each use or at each inspection interval, inspect:
  - a. Bolt lugs for cracks.
  - b. Bolt lugs for excessive wear (worn down to bolt hole).
  - c. Junction of bolt lugs and clamp body for cracks.
  - d. Clamp body for cracks.
  - e. Clamp body for excessive wear. (Example: Lettering detail "Dixon" worn off.)
  - f. Gripping fingers for cracks.
  - g. Missing gripping fingers.
  - h. For adequate spacing between clamp halves.
    - i. For adequate spacing between the end of gripping fingers and the stem in the groove behind the collar.
2. If any of the above conditions exist, do not place assembly in service or remove assembly from service.

*Installation and Inspection procedures may be viewed in full on the Dixon website, [www.dixonvalve.com](http://www.dixonvalve.com).  
A printed copy of the complete Installation and Inspection Procedures Manual is available upon request.*

Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for fire protection, food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining and manufacturing.



*The Right Connection™*

**Dixon Valve & Coupling Company**

800 High Street, Chestertown, MD 21620

Customer Service: 877.963.4966

Fax: 800.283.4966

**[www.dixonvalve.com](http://www.dixonvalve.com)**



The Right Connection™

# OSHA Compliant Products

The following products will help you comply with several OSHA requirements concerning the use of Hose Couplings and related accessories.

These products are available from Dixon Valve and Coupling Co. and our large distributor base throughout the U.S. Please see the current DPL Product Catalog for complete product descriptions and more information on the rest of Dixon's product line.

OSHA Standard	Dixon Product	Product Description
1926.302(b2)	Air King Safety Clip	For securing Air King Universal Couplers.
1910.169	ASME Air Receiver Manifold	7 gallon Tank with Air King Couplers.
1910.147	Bronze Ball Valve with NPT Tap for Drain	Vents downstream air; has NPT Tap for noise muffler or venting elbow.
1910.95	Conical Muffler	Reduces noise levels below 90 dBA.
1910.242(b)	Extended Nozzle Pistol Grip	Tip pressure will not exceed 30 PSI.
1910.95	Safety Blowgun	Reduces noise levels below 90 dBA.
1910.95	Muffler/Filter	Reduces noise levels below 90 dBA.
1910.242(b)	Pistol Grip Safety Blowgun and Premium Safety Blowgun	Tip pressure will not exceed 30 PSI. Reduces noise levels below 90 dBA.
1910.242(b)	Push Button Controlled Pressure Safety Blowgun	Tip pressure will not exceed 30 PSI.
1910.242(b)	Safety Blowgun and Safety Air Booster Blowgun	Tip pressure will not exceed 30 PSI. Reduces noise levels below 90 dBA.
1926.302(b7)	Safety Check Valve	Prevents hose whip during accidental fitting separation or pressure surge.
1910.147	Safety Vented Ball Valve	Vents downstream air.
1926.302(b1)	WhipChek	Prevents hose whip during accidental separation of hose assembly.

**Dixon Valve & Coupling Company**  
**800 High Street • Chestertown, Maryland 21620**  
**Customer Service: 800-355-1991 • Fax: 800-283-4966**  
**[www.dixonvalve.com](http://www.dixonvalve.com)**

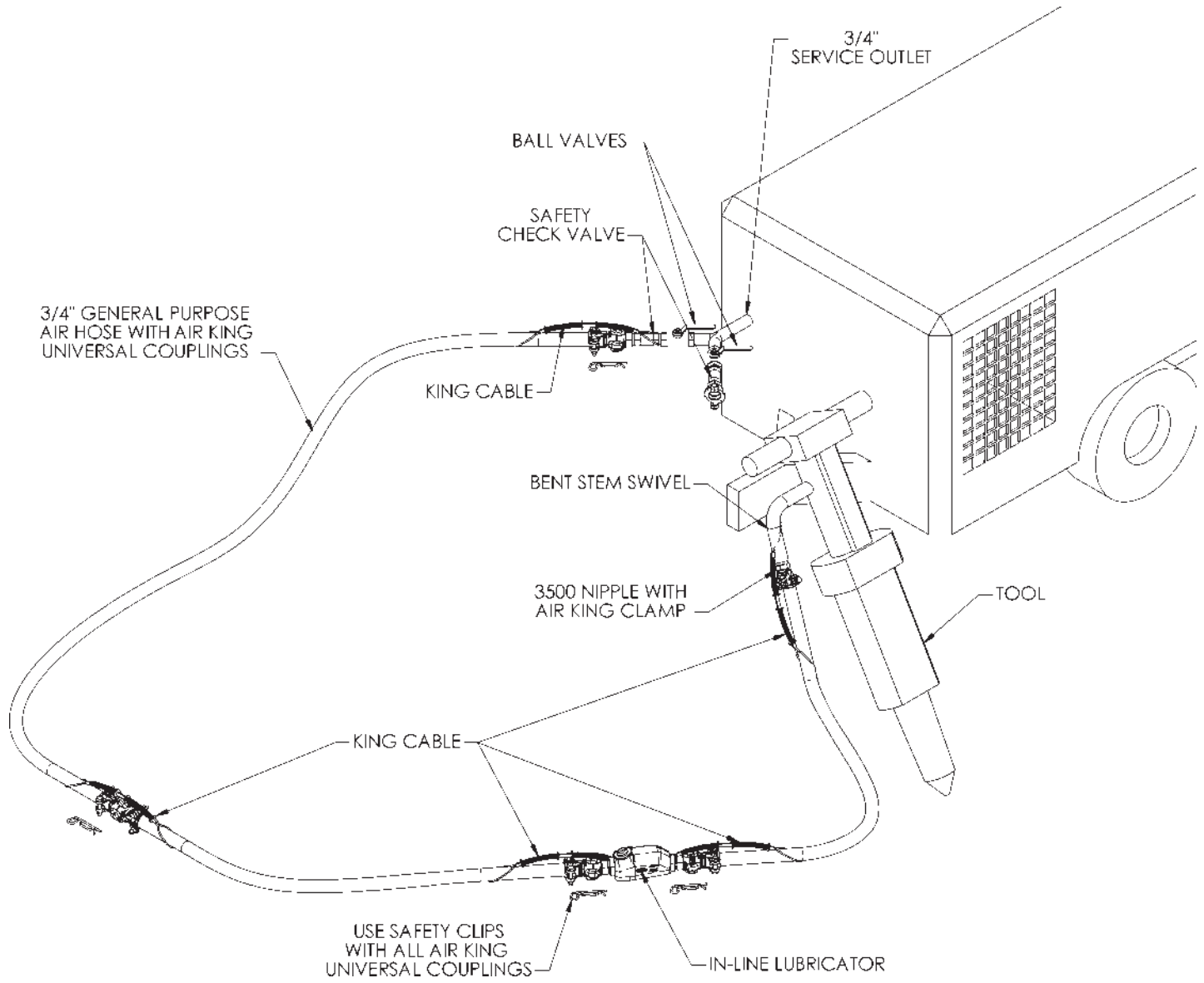
# Outside Air Applications



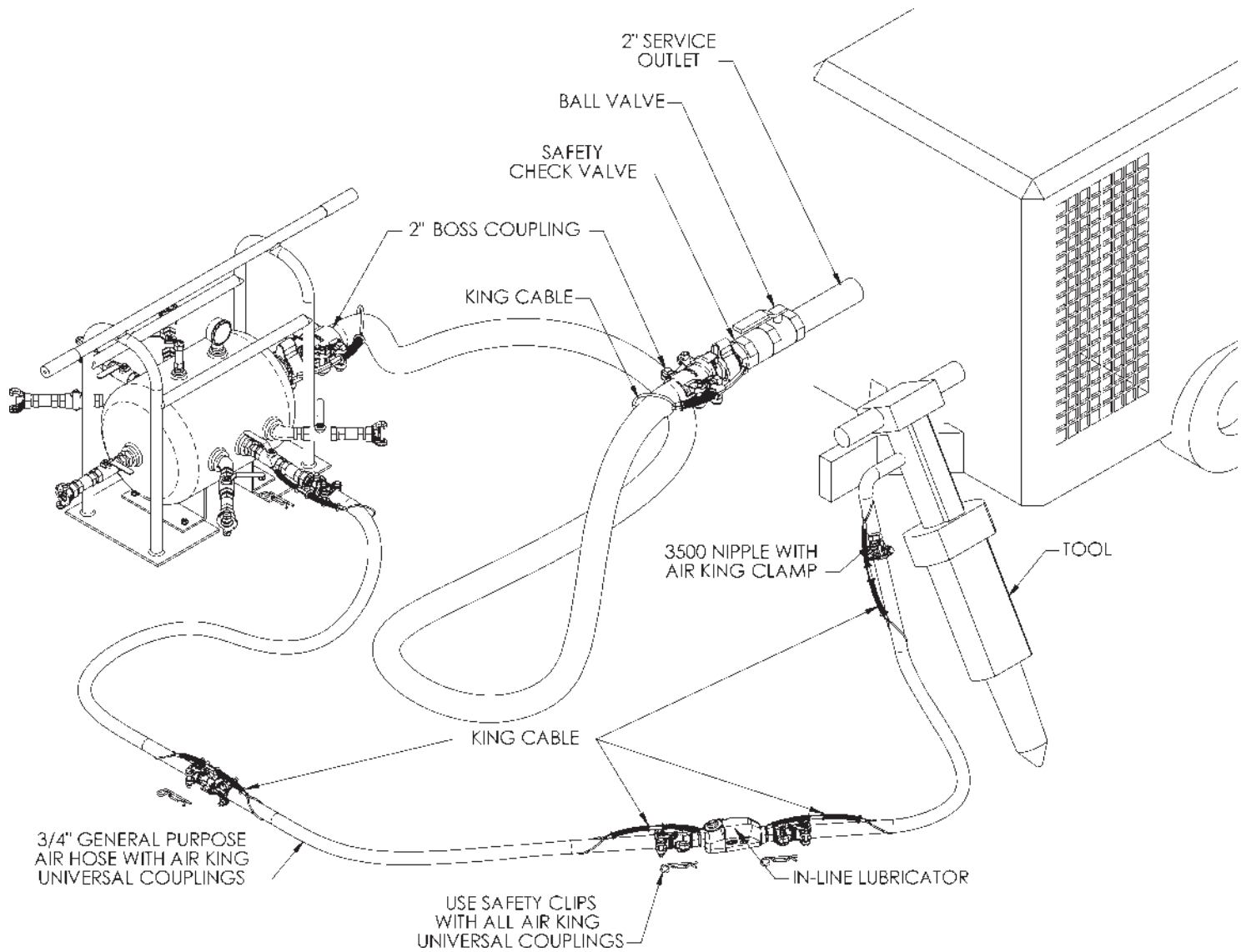
*The Right Connection™*



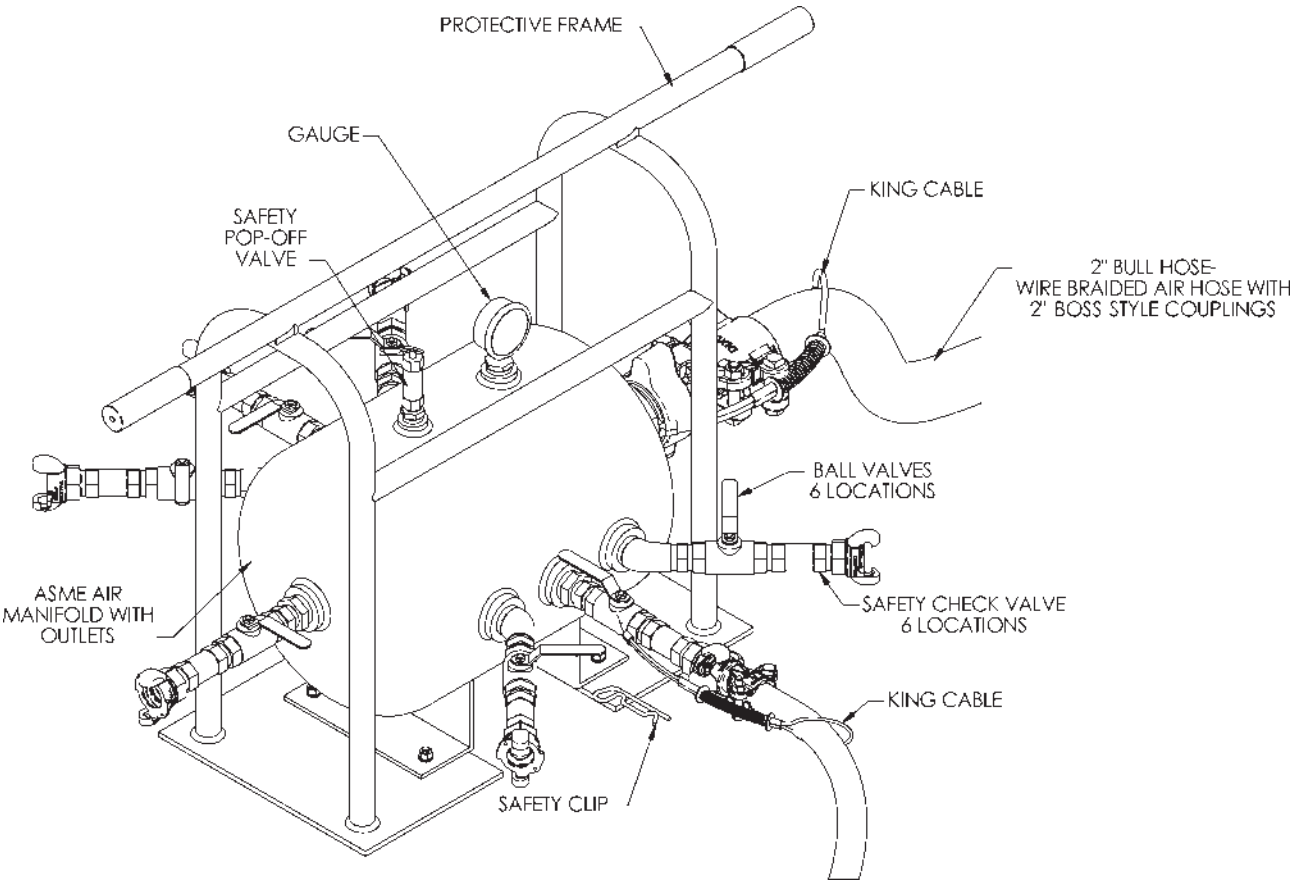
# Compressor 125 CFM



# Compressor 600 CFM



# Detailed view of manifold assembly



- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, [www.osha.gov](http://www.osha.gov).)
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.

## The Importance of Whip Hose

The constant vibration created by air tools, like air drills and pavement breakers, is destructive to air hose couplings, especially the quick-acting type. To provide protection against coupling breakage and related hazards, Dixon recommends the use of a Whip Hose. To construct a Whip Hose, connect one end of a short (3' to 10') air hose to the air tool using a 3500 type steel nipple. Connect the other end of the hose to the air supply using the standard quick-acting coupling. The heat-treated 3500 nipple is will withstand vibration far better than the standard coupling and provide a safer connection. The Whip Hose should remain permanently connected to the tool.

## OSHA Regulations

### ASME Air Receiver Manifold-

1910.169; 1926.306

### King Safety Cable-

1926.302 (b1)

### Air King Safety Clip-

1926.302 (b2)

### Safety Check Valve-

1926.302 (b7)

### Safety Vented Ball Valve-

1910.147

*The regulations may be viewed in full on the OSHA website, <http://www.osha.gov>. Please check the website for updates.*

## Installation and Inspection Procedures

### Procedure # 1000

Boss clamp selection

### Procedure # 2000

Installation of Boss 2 bolt clamp

### Procedure # 2001

Installation of Boss 4 bolt clamp

### Procedure # 2300

Installation of King Cable Safety Cable

### Procedure # 2306

Crimping Unirange, Air King, Dix-Lock and Dual-Lock couplings

### Procedure # 3001

Bolt Clamp Inspection

*A printed copy of the complete Installation and Inspection Procedures Manual is available upon request.*

**All dimensions are nominal.  
All package quantity shown is optional.**

## Air-King

# Universal Couplings

*Dixon Air King couplings are recommended for use on virtually any type of pneumatic equipment.*

### Service:

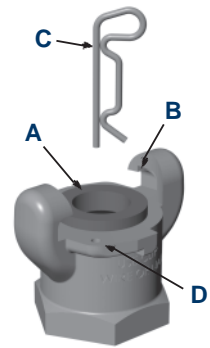
- The maximum recommended working pressure for Dixon Air King is **150 PSI** at ambient temperature (70°F).
- for air and water service only



### Features:

- A universal head that is identical for all parts in the 1/4" to 1" range. With this head, any fittings within that range can be connected regardless of hose shank or thread size.
- Couplings with optional ferrules permanently attached are provided ready install.
- **Safety** - There are three safety features built into every Dixon Air King:

1. Washer design (A) – Dixon AWR4 washers supplied with every Air King are designed to seal up to **150 PSI**. The washer design helps keep the coupling together while pressurized.
2. Internal lug design (B) – Cast inside each Air King lug is a ninety-degree step that locks with an opposite step on the outside of the adjoining Air King part. These step-locks provide additional holding power to keep the Air King connected up to its 150 PSI rating.
3. Safety Clip (C) – Unexpected twisting of hose assemblies can occur during use. To eliminate the possibility of accidentally disconnecting, each Air King comes with a Safety Clip. This clip is designed to be inserted into the locking holes (D) on the fittings. The use of a Safety Clip assures the users that the fittings have been properly connected.



### Connecting:

- Push two couplings together and turn the one in your right hand until they seat.
- Insert an Air King safety clip through the hole in the flanged area of the head. If a safety clip is not available, use a cotter pin or wire type retainer. Lanyards (not pictured, see page 9) are available separately to fasten the Safety Clip to the locking head.

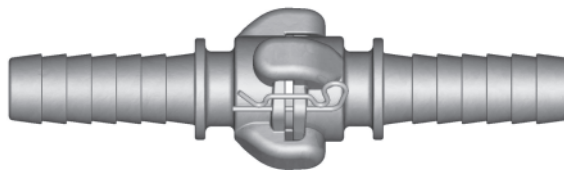
### Disconnecting:

- Remove the safety clip, cotter pin or wire. Press the couplings together and turn the one in your right hand until they unseat. **Never attempt to disconnect any hose while pressure is in the line.**



### Interchange:

- Although Air King may couple with other manufacturers' fittings, **we do not recommend their use with other products.** Not all universal locking heads are made to the same standard.



**Air King meets pressure requirements as specified in Commercial Item Description A-A-59553 that supersedes Mil Spec. WWC-633D.**

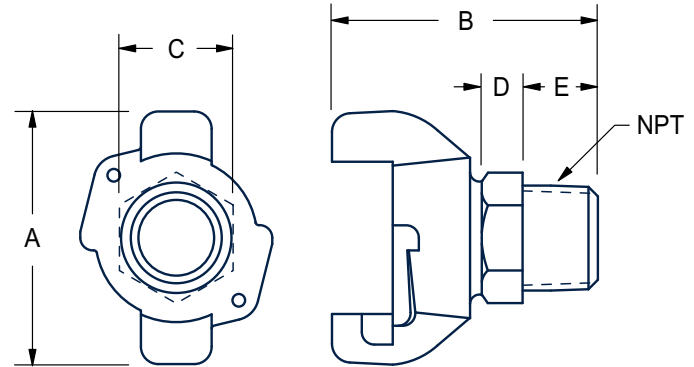
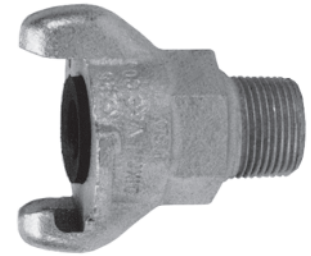
**Male NPT Ends**

- male NPT thread with hex for a wrench
- available in iron, brass or 316 stainless steel
- available in sizes 1/4" to 1", 1/4" not available in stainless steel

Size	Iron		Brass		316 Stainless Steel
	Part #	pkg qty	Part #	pkg qty	Part #
1/4"	<b>AMB1</b>	25	<b>ABB1</b>	25	---
3/8"	<b>AMB</b>	25	<b>ABB</b>	25	<b>RAMB</b>
1/2"	<b>AM2</b>	50	<b>AB2</b>	50	<b>RAM2</b>
3/4"	<b>AM7</b>	50	<b>AB7</b>	50	<b>RAM7</b>
1"	<b>AM12</b>	50	<b>AB12</b>	50	<b>RAM12</b>

**Dimensions**

Size	A	B	C	D	E	NPT
1/4"	2-1/2"	2-9/16"	1"	7/16"	5/8"	1/4"
3/8"	2-1/2"	2-9/16"	1"	7/16"	5/8"	3/8"
1/2"	2-1/2"	2-11/16"	1-1/8"	3/8"	13/16"	1/2"
3/4"	2-1/2"	2-13/16"	1-3/8"	3/8"	7/8"	3/4"
1"	2-1/2"	2-7/8"	1-1/2"	3/8"	7/8"	1"

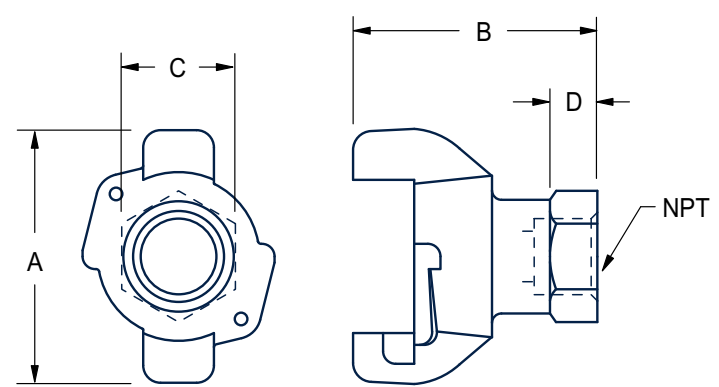


- female NPT thread with hex for a wrench
- available in malleable iron, brass or 316 stainless steel
- available in sizes 1/4" to 1", 1/4" not available in stainless steel

Size	Iron		Brass		316 Stainless Steel
	Part #	pkg qty	Part #	pkg qty	Part #
1/4"	<b>AMC1</b>	25	<b>ABC1</b>	25	---
3/8"	<b>AMC</b>	25	<b>ABC</b>	25	<b>RAMC</b>
1/2"	<b>AM3</b>	50	<b>AB3</b>	50	<b>RAM3</b>
3/4"	<b>AM8</b>	50	<b>AB8</b>	50	<b>RAM8</b>
1"	<b>AM13</b>	50	<b>AB13</b>	50	<b>RAM13</b>

**Dimensions**

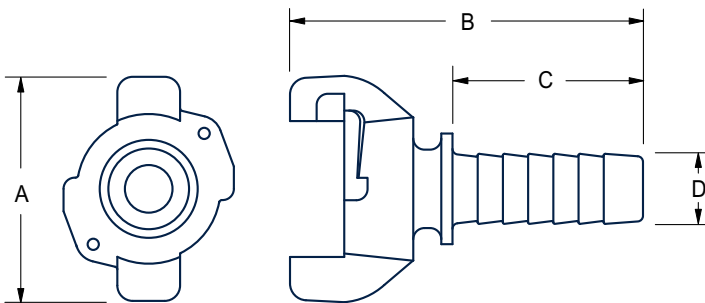
Size	A	B	C	D	NPT
3/8"	2-1/2"	2-7/16"	1-1/8"	3/8"	1/4"
1/2"	2-1/2"	2-7/16"	1-1/8"	3/8"	3/8"
5/8"	2-1/2"	2-7/16"	1-1/8"	3/8"	1/2"
3/4"	2-1/2"	2-1/2"	1-7/16"	3/8"	3/4"
1"	2-1/2"	2-1/16"	1-5/8"	3/8"	1"





## Hose Ends

- shanks are long and deeply corrugated
- available in iron, brass or 316 stainless steel
- available in sizes 3/8" to 1", 5/8" not available in stainless steel



Size	Iron		Brass		316 Stainless Steel
	Part #	pkg qty	Part #	pkg qty	Part #
3/8"	<b>AMH</b>	25	<b>ABH</b>	25	<b>RAMH</b>
1/2"	<b>AM1</b>	50	<b>AB1</b> <sup>1</sup>	50	<b>RAM1</b>
5/8"	<b>AM5</b>	50	<b>AB5</b>	50	---
3/4"	<b>AM6</b>	50	<b>AB6</b> <sup>1</sup>	50	<b>RAM6</b>
1"	<b>AM11</b>	50	<b>AB11</b> <sup>1</sup>	50	<b>RAM11</b>

<sup>1</sup> may be used with Air King ferrules

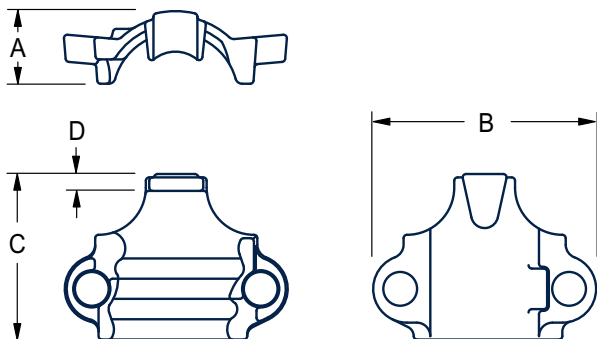
### Dimensions

Size	A	B	C	D
3/8"	2-1/2"	3-1/2"	1-11/16"	7/16"
1/2"	2-1/2"	3-13/16"	1-5/8"	17/32"
5/8"	2-1/2"	4-1/4"	2-7/16"	11/16"
3/4"	2-1/2"	4-3/16"	2-1/8"	25/32"
1"	2-1/2"	4-25/32"	2-13/16"	1-1/16"

Refer to Installation and Inspection Procedure # 2306 on page 51.

## Clamps

- Air King clamps should be used on all Air King shank fittings
- clamp fingers engage on the collar behind the universal head to anchor the coupling to the hose
- the ridges on the underside provide additional retention
- available in zinc plated iron in sizes 3/8" to 1"



Size	Hose O.D.		Torque <sup>1</sup>	Part #	pkg qty
	From:	To:			
3/8"	11/16"	7/8"	6	<b>CD</b> <sup>3</sup>	100
1/2"	1"	1 3/16"	6	<b>A4</b>	50
3/4"	1 1/8"	1 5/16"	21	<b>A9</b> <sup>3</sup>	50
1"	1 5/16"	1 1/2"	12	<b>A10</b> <sup>2,3</sup>	50
1"	1 1/2"	1 13/16"	21	<b>A14</b>	50

<sup>1</sup> recommended torque rating in ft. lbs.

<sup>2</sup> can be used with **AM6** and **AM11**

<sup>3</sup> investment carbon steel

**Note:** Torque values for clamps are based on dry bolts. The use of lubricant on bolts will adversely effect clamp performance.



### Dimensions

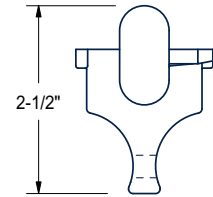
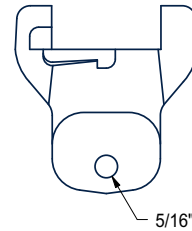
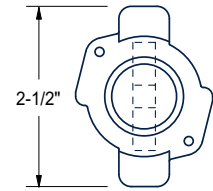
Size	A	B	C	D
3/8"	15/32"	1-11/16"	1-7/16"	1/8"
1/2"	11/16"	2-1/16"	1-17/32"	5/32"
3/4"	7/8"	2-1/2"	1-21/32"	1/8"
1"	7/8"	2-19/32"	1-15/16"	9/32"
1"	1"	3-1/32"	2-1/4"	5/32"

Refer to Installation and Inspection Procedure #'s 1000, 2000 and 3001 on pages 50 and 51.

Blank Ends

- Blank end fittings have no outlet and are used to block the line at any coupling point.
- The end opposite the coupling head is flat, with an eye for a chain to secure the fitting when not in use.
- available in iron, brass and 316 stainless steel

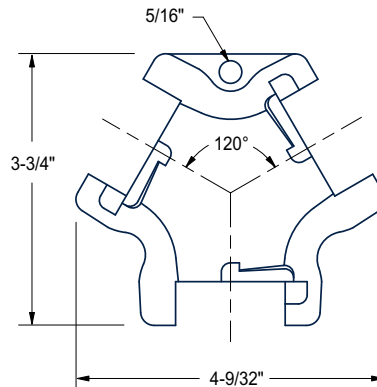
Iron		Brass		316 Stainless Steel
Part #	pkg qty	Part #	pkg qty	Part #
AM0	25	AB0	25	RAM0



Triple Connections

- Triple connection consists of three universal couplings that provide an extra outlet when connected to the line.
- available in iron or brass

Iron		Brass	
Part #	pkg qty	Part #	pkg qty
AM10	25	AB10	25



Air King Safety Pins, Clips, Lanyards and Washers

The use of an Air King safety clip or wire type retainer is necessary to ensure the couplings will not become accidentally disconnected. The clip will not go through the locking holes unless the couplings are locked in place. Only one safety clip or wire type retainer is required for each assembly.



Standard Safety Clips

Wire Diameter	Part #
.080	AC1



- same size for all coupling sizes
- sold only in bags of 25

- heavy duty
- oversized

Wire Diameter	Part #
.058	AKSP1
.091	AKSP25

Air King Safety Pinsh



Lanyards



- stainless steel cable

Part #	pkg qty
LR7	25



- same size for all coupling sizes
- synthetic cord
- sold only in bags of 25

Part #	pkg qty
ACL8	25

Stainless Steel Clips

- same size for all coupling sizes

Wire Diameter	Part #
.072	AC7



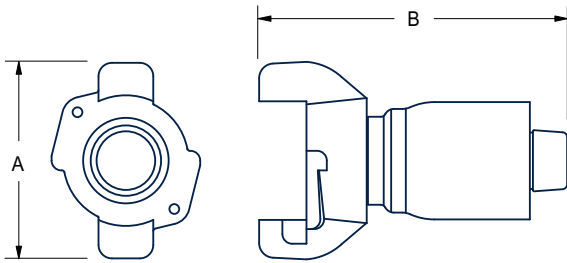
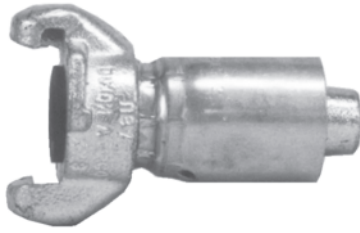
- rubber temperature range: -20°F to 160°F
- neoprene temperature range: -20°F to 190°F
- neoprene is oil resistant
- same size for all coupling sizes
- sold only in bags of 50

Description	Part #
black natural rubber	AWR4
Neoprene	AWS6



Washers

## Air King with Ferrules



- couples with other Air King fittings
- rated to **150 PSI** working pressure
- ferrules are available on iron and stainless steel
- carbon steel ferrules can be crimped or swaged
- for air and water service only

**SAFETY**  
**ALERT**

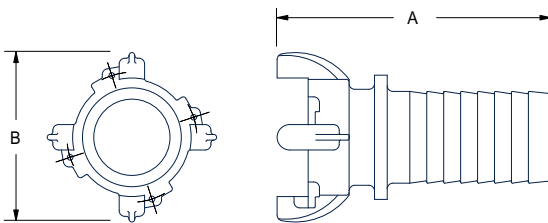
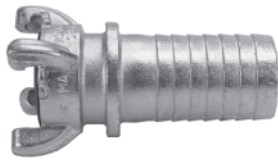
Size	OD Range		Part #	
	From:	To:	Iron	Stainless Steel
1/2"	27/32"	1-1/32"	<b>AM1WF</b>	---
3/4"	1-1/16"	1-11/32"	<b>AM6WF</b>	<b>RAM6WF</b>
1"	1-18/64"	1-34/64"	<b>AM11WF-1</b>	---
1"	1-30/64"	1-46/64"	<b>AM11WF</b>	---

### Dimensions

Size	A	B
1/2"	2-1/2"	3-13/16"
3/4"	2-1/2"	4-3/16"
1"	2-1/2"	4-25/32"

Refer to Installation and Inspection Procedure # 2306 on page 51.

## 4-Lug Quick Acting Couplings



Not to be used for steam service. Must use safety clips. Note: Safety clips are same size for both 2-lug and 4-lug Universal Couplings, see page 9. Use safety clips on all Universal Coupling applications.

**SAFETY**  
**ALERT**

- Boss clamps recommended, see pages 18 and 19 for clamp selection.
- rated to **150 PSI** working pressure

### Hose Ends

Size	Iron	Brass	pkg qty
	Part #	Part #	
1-1/4"	<b>AM16</b>	<b>AB16</b>	25
1-1/2"	<b>AM21</b>	<b>AB21</b>	25
2"	<b>AM26</b>	<b>AB26</b>	10

### Dimensions

Size	A	B
1-1/4"	5-5/8"	3-3/4"
1-1/2"	5-7/8"	3-3/4"
2"	6-1/16"	3-3/4"

### Female NPT Ends

Size	Iron	Brass	pkg qty
	Part #	Part #	
1-1/4"	<b>AM18</b>	<b>AB18</b>	25
1-1/2"	<b>AM23</b>	<b>AB23</b>	25
2"	<b>AM28</b>	<b>AB28</b>	20

### Dimensions

Size	A	B
1-1/4"	2-15/16"	3-3/4"
1-1/2"	3"	3-3/4"
2"	3-3/32"	3-3/4"

## Rubber Washer for 4-lug



Part #

**AWR14**

fits all sizes

## Crimped Recommendation Guide

The chart below is only a guide. It will not apply to every coupling situation. In some instances alternative dies and crimping dimensions must be employed to ensure safety. Experience has shown that variances in the construction of similar hoses and couplings may cause some assemblies to react differently when crimped. It is not uncommon to find hose with an outer diameter that fluctuates from one end to the other or from production lot to production lot. These inconsistencies coupled with the inherent differences between textile or wire braid, hard or soft wall, the presence or absence of an internal spiral wire and the differences in hose coverings make it difficult to establish hard and fast rules. Therefore, it is imperative that hose dimensions are accurately measured, assemblies are tested, and documentation is maintained.

Hose ID	Part #	Hose OD		Crimp Diameter (±0.005)	Crimp Length	% Reduction		
		Fractional	Decimal					
½"	<b>AM1WF</b>	54/64	0.843	0.906	1-1/4	18.3		
		55/64	0.859	0.937	1-1/4	13.2		
		56/64	0.875	0.937	1-1/4	16.9		
		57/64	0.890	0.968	1-1/4	12.1		
		58/64	0.906	0.968	1-1/4	15.5		
		59/64	0.921	1.000	1-1/4	11.1		
		60/64	0.937	1.000	1-1/4	14.4		
		61/64	0.953	1.000	1-1/4	17.2		
		62/64	0.968	1.031	1-1/4	13.4		
		63/64	0.984	1.031	1-1/4	16.1		
		1	1.000	1.062	1-1/4	12.7		
		1-1/64	1.015	1.062	1-1/4	15.3		
		1-2/64	1.031	1.093	1-1/4	12.0		
		¾"	<b>AM6WF RAM6WF</b>	1-4/64	1.062	1.156	1-1/4	13.4
				1-5/64	1.078	1.156	1-1/4	17.3
1-6/64	1.093			1.187	1-1/4	11.9		
1-7/64	1.109			1.187	1-1/4	15.8		
1-8/64	1.125			1.218	1-1/4	11.2		
1-9/64	1.140			1.218	1-1/4	14.6		
1-10/64	1.156			1.218	1-1/4	17.5		
1-11/64	1.171			1.250	1-1/4	13.0		
1-12/64	1.187			1.250	1-1/4	16.2		
1-13/64	1.203			1.281	1-1/4	12.3		
1-14/64	1.218			1.281	1-1/4	15.1		
1-15/64	1.234			1.312	1-1/4	11.5		
1-16/64	1.250			1.312	1-1/4	14.4		
1-17/64	1.265			1.312	1-1/4	16.9		
1-18/64	1.281			1.343	1-1/4	13.5		
1-19/64	1.296			1.343	1-1/4	15.9		
1-20/64	1.312			1.375	1-1/4	12.6		
1-21/64	1.328			1.375	1-1/4	15.0		
1-22/64	1.343			1.406	1-1/4	12.1		
1"	<b>AM11WF-1</b>			1-18/64	1.281	1.375	1-1/2	16.7
				1-19/64	1.296	1.375	1-1/2	20.5
		1-20/64	1.312	1.406	1-1/2	15.0		
		1-21/64	1.328	1.406	1-1/2	18.6		
		1-22/64	1.343	1.437	1-1/2	13.7		
		1-23/64	1.359	1.437	1-1/2	17.5		
		1-24/64	1.375	1.468	1-1/2	12.8		
		1-25/64	1.390	1.468	1-1/2	16.1		
		1-26/64	1.406	1.500	1-1/2	11.5		
		1-27/64	1.421	1.500	1-1/2	14.7		
		1-28/64	1.437	1.500	1-1/2	17.6		
		1-29/64	1.453	1.531	1-1/2	13.9		
		<b>AM11WF-1 AM11WF</b>	1-30/64	1.468	1.531	1-1/2	16.8	
			1-31/64	1.484	1.562	1-1/2	12.8	
			1-32/64	1.500	1.562	1-1/2	15.4	
	<b>AM11WF</b>	1-33/64	1.515	1.593	1-1/2	12.0		
		1-34/64	1.531	1.593	1-1/2	14.7		
		1-35/64	1.546	1.625	1-1/2	11.1		
		1-36/64	1.562	1.625	1-1/2	13.7		
		1-37/64	1.578	1.625	1-1/2	15.9		
		1-38/64	1.593	1.656	1-1/2	12.9		
		1-39/64	1.609	1.656	1-1/2	15.1		
		1-40/64	1.625	1.687	1-1/2	12.4		
		1-41/64	1.640	1.687	1-1/2	14.5		
		1-42/64	1.656	1.718	1-1/2	11.8		
		1-43/64	1.671	1.718	1-1/2	14.0		
		1-44/64	1.687	1.750	1-1/2	11.3		
	1-45/64	1.703	1.750	1-1/2	13.3			
	1-46/64	1.718	1.750	1-1/2	15.1			

Refer to Installation and Inspection Procedure # 2306 on page 51.

## Boss

# Coupling System

*Boss Couplings supply a convenient threaded fitting to connect two lengths of hose, or a single length to a male or female threaded (NPT) outlet.*

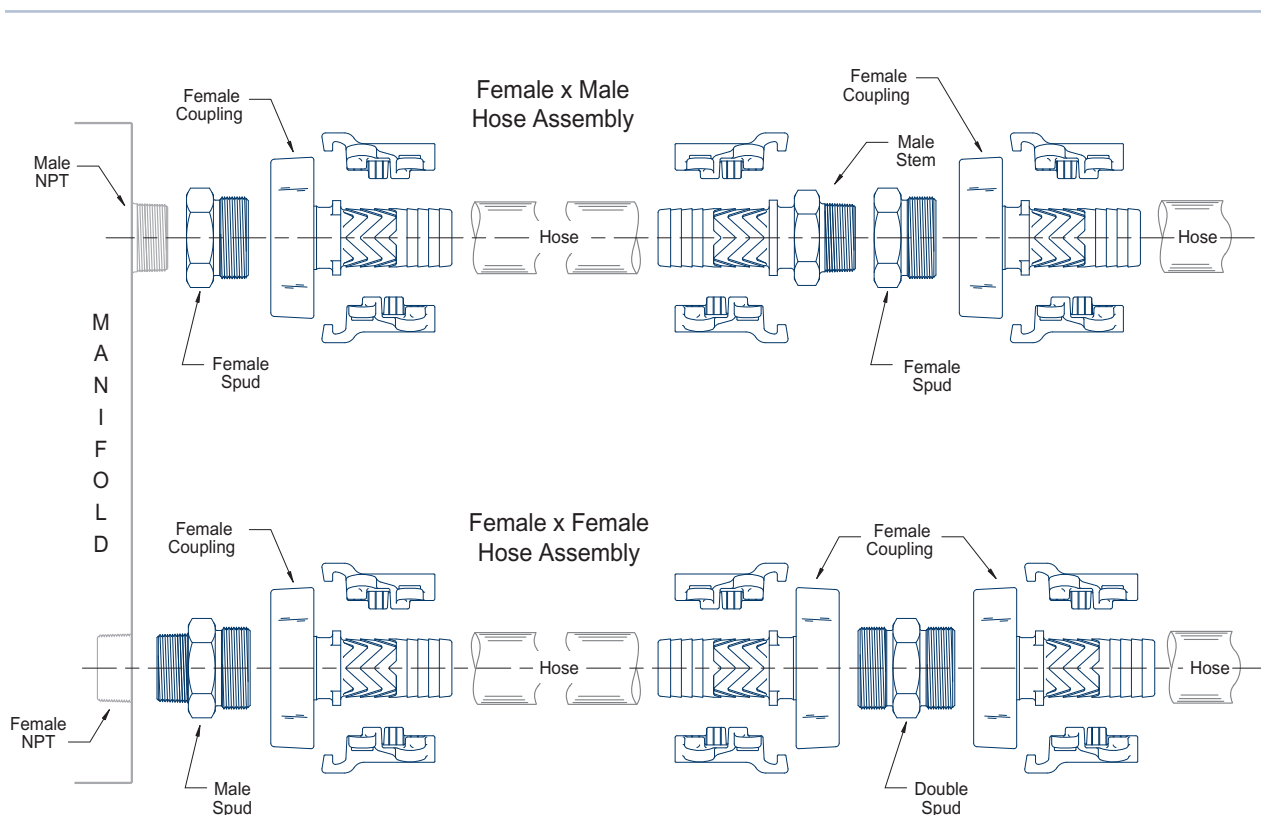
**Features:** The spud part of the coupling serves as one half of the connection and is usually fixed to the equipment. The stem part that is clamped to the hose is the other half. The two halves are connected or disconnected by rotating the wing nut onto the spud. When connected they achieve a mechanical, as well as, a pressure seal.

**Services:** Boss couplings are all-purpose hose couplings, universally recommended for steam hose connections. They are also widely used for air, water, fluid petroleum, chemicals and liquid petroleum gas up to 1" ID. Boss couplings can be applied to many types of rubber, synthetic, plastic, metallic or semi-metallic hose. Consult the factory for specific media capabilities.

**Purpose:** Boss couplings supply a convenient threaded fitting to connect two lengths of hose, or a single length to a male or female threaded (NPT) outlet.

### Material:

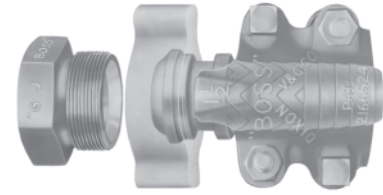
- stem: ¼" - 1" plated steel, 1¼" - 4" plated iron, 6" tubular steel
- spud: ¼" - 1" plated steel, 1¼" - 6" plated iron
- wing nut: ¼" - 1" plated steel, 1¼" - 6" plated iron



*Worn-out hose couplings can be dangerous. They should be checked regularly and replaced when necessary. Each coupling user should review applications and add safety devices where indicated.*

### Positive Metal-to-Polymer Seal

- A leakproof seal is formed when the metal head of the stem makes contact with the patented polymer seat in the spud.
- The non-metallic polymer seat resists most chemicals found in manufacturing facilities.
- recommended for steam service up to **450°F**
- easy to seal
- works with existing Ground Joint fittings
- use with Boss clamps found on pages 18 and 19



Refer to Installation and Inspection Procedure #'s 1000, 2000, 2001 and 3001 on pages 50 and 51.

### Plated Steel and/or Iron

Hose x NPT	Part #	Part #	Part #	Part #	Part #	Part #
1/4"	<b>GF1</b> <sup>1</sup>	<b>GBA</b>	<b>BA2</b>	<b>GBC</b> <sup>1</sup>	---	---
3/8"	<b>GF3</b> <sup>1</sup>	<b>GCA</b>	<b>CB</b>	<b>GCC</b> <sup>1</sup>	<b>GMC</b> <sup>1</sup>	---
1/2"	<b>GF6</b>	<b>GB1</b>	<b>B2</b>	<b>GB3</b>	<b>GM3</b>	<b>GDB3</b>
3/4"	<b>GF26</b>	<b>GB6</b>	<b>B12</b>	<b>GB8</b>	<b>GM8</b>	<b>GDB13</b>
1"	<b>GF36</b>	<b>GB11</b>	<b>B12</b>	<b>GB13</b>	<b>GM13</b>	<b>GDB13</b>
1-1/4"	<b>GF51</b>	<b>GB16</b>	<b>B17</b>	<b>GB18</b>	<b>GM18</b>	<b>GDB23</b>
1-1/2"	<b>GF61</b>	<b>GB21</b>	<b>B17</b>	<b>GB23</b>	<b>GM23</b>	<b>GDB23</b>
2"	<b>GF81</b> <sup>2</sup>	<b>GB26</b> <sup>2</sup>	<b>B27</b>	<b>GB28</b>	<b>GM28</b>	<b>GDB28</b>
2-1/2"	<b>GF96</b>	<b>GB31</b>	<b>B32</b>	<b>GB33</b>	<b>GM33</b>	<b>GDB33</b>
3"	<b>GF111</b>	<b>GB36</b>	<b>B37</b>	<b>GB38</b>	<b>GM38</b>	<b>GDB38</b>
4"	<b>GF141</b>	<b>GB46</b>	<b>B47</b>	<b>GB48</b>	---	---
6"	<b>GF201</b> <sup>1</sup>	<b>GB66</b>	<b>B67</b>	<b>GB68</b> <sup>1</sup>	---	---

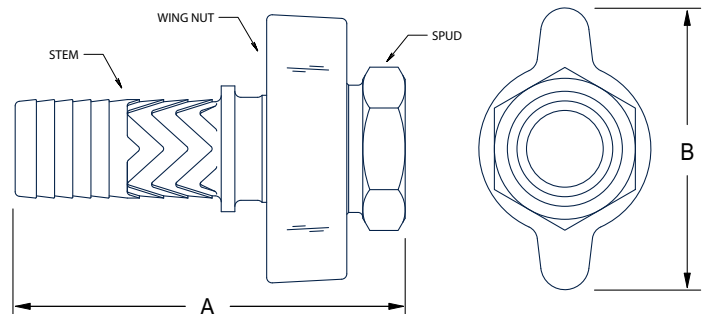
<sup>1</sup> 1/4", 3/8" and 6" come only with copper seat spuds.

<sup>2</sup> not to be used with #250 or #306 Boss clamps



### Dimensions

Size	A	B
1/4"	2-1/2"	1-5/32" <sup>1</sup>
3/8"	2-15/16"	1-3/4"
1/2"	3-9/16"	2-13/32"
3/4"	4-3/4"	3-9/16"
1"	5-1/8"	3-9/16"
1-1/4"	6-13/16"	4-3/8"
1-1/2"	7-1/16"	4-3/8"
2"	7-9/16"	5-5/8"
2-1/2"	8-29/32"	6-3/4"
3"	9-1/2"	7-3/4"
4"	11-7/32"	9-1/2" <sup>2</sup>
6"	11-1/2"	12-1/4" <sup>2</sup>

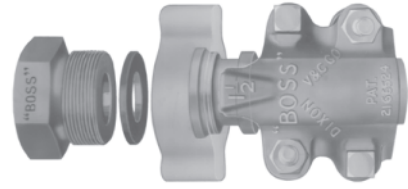


- 'A' dimension represents a complete coupling length with a female spud.
  - 'B' dimension is the largest dimension over the wing nut.
- <sup>1</sup> 1/4" coupling has a hex style nut.  
<sup>2</sup> 4" and 6" couplings have a 3 wing nut design.



# Washer Type

- A Klingersil® C-4401 washer is inserted between the stem and spud.
- A leakproof seal is formed by rotating the wing nut and hammering it tight.



Refer to Installation and Inspection Procedure #'s 1000, 2000, 2001 and 3001 on pages 50 and 51.

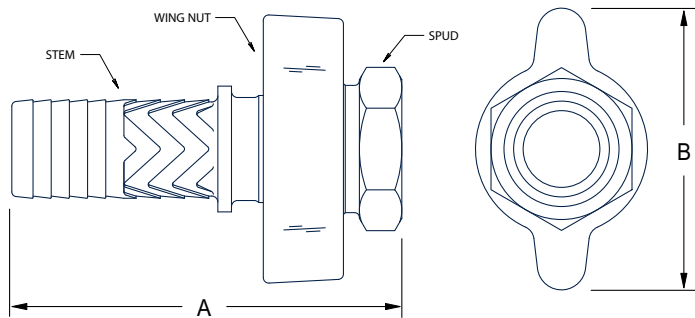
## Plated Steel and/or Iron

Coupling with Female Spud		Stem	Wing Nut	Female Spud	Male Spud	Double Spud	Washer <sup>1</sup>
Hose x NPT	Part #	Part #	Part #	Part #	Part #	Part #	Part #
3/8"	WF3	SS337	CB	CC	WMC	---	WBC
1/2"	WF6	B1	B2	B3	WM3	DB3	W2
3/4"	WF26	B6	B12	B8	WM8	DB13	W12
1"	WF36	B11	B12	B13	WM13	DB13	W12
1-1/4"	WF51	B16	B17	B18	WM18	DB23	W17
1-1/2"	WF61	B21	B17	B23	WM23	DB23	W17
2"	WF81 <sup>2</sup>	B26 <sup>2</sup>	B27	B28	WM28	DB28	W27
2-1/2"	WF96	B31	B32	B33	---	---	W32
3"	WF111	B36	B37	B38	WM38	DB38	W37

<sup>1</sup> washer is nitrile rubber bonded, non-asbestos Klingersil® C-4401

<sup>2</sup> not to be used with #250 or #306 Boss clamps

**SAFETY**  
AIRFT



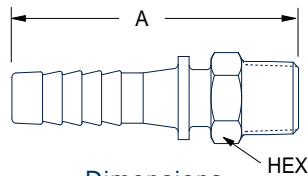
## Dimensions

Size	A	B
3/8"	2-27/32"	1-3/4"
1/2"	3-1/2"	2-13/32"
3/4"	4-49/64"	3-9/16"
1"	5-1/16"	3-9/16"
1-1/4"	6-21/32"	4-3/8"
1-1/2"	6-7/8"	4-3/8"
2"	7-9/16"	5-5/8"
2-1/2"	9"	6-3/4"
3"	9-1/2"	7-3/4"

- 'A' dimension represents a complete coupling length with a female spud.
- 'B' dimension is the largest dimension over the wing nut.

**Male Stems**

- steel bar stock
- use with Boss Clamps on pages 18 and 19



Dimensions

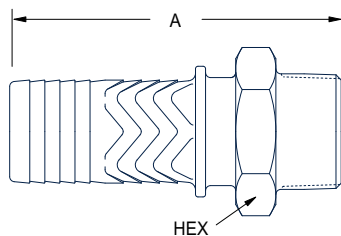
Hose Size	Thread Size	A	HEX
1/4"	1/8"	2-1/4"	9/16"
1/4"	1/4"	2-3/8"	9/16"
1/4"	3/8"	2-7/16"	11/16"
3/8"	1/4"	2-5/8"	11/16"
3/8"	3/8"	2-11/16"	11/16"
3/8"	1/2"	2-13/16"	7/8"
1/2"	1/4"	3"	13/16"
1/2"	3/8"	3"	7/8"
1/2"	1/2"	3-3/16"	7/8"
1/2"	3/4"	3-3/16"	1-1/8"
3/4"	1/2"	4-3/32"	1-1/16"
3/4"	3/4"	4-3/32"	1-1/8"
3/4"	1"	4-11/32"	1-3/8"
1"	3/4"	4-13/32"	1-3/8"
1"	1"	4-19/32"	1-3/8"



Hose Size	Thread Size	Steel Part #	pkg qty
1/4"	1/8"	<b>MS4X2</b>	25
1/4"	1/4"	<b>MSA</b>	50
1/4"	3/8"	<b>MSB</b>	25
3/8"	1/4"	<b>MS6X4</b>	25
3/8"	3/8"	<b>MSC</b>	100
3/8"	1/2"	<b>MS6X8</b>	25
1/2"	1/4"	<b>MS8X4</b>	25
1/2"	3/8"	<b>MS8X6</b>	50
1/2"	1/2"	<b>MS1</b>	25
1/2"	3/4"	<b>MS8X12</b>	25
3/4"	1/2"	<b>MS12X8</b>	25
3/4"	3/4"	<b>MS6</b>	25
3/4"	1"	<b>MS12X16</b>	25
1"	3/4"	<b>MS16X12</b>	25
1"	1"	<b>MS11</b>	25

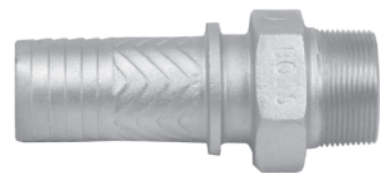
- 'HEX' dimension is the distance across the flats.

- castings
- use with Boss Clamps on pages 18 and 19



Dimensions

Size	A	HEX
1/2"	3-1/4"	7/8"
3/4"	4-5/32"	1-1/8"
1"	4-21/32"	1-3/8"
1-1/4"	6-1/32"	2-1/8"
1-1/2"	6-5/16"	2-7/16"
2"	6-7/8"	2-7/8"
2-1/2"	8-5/8"	3-5/8"
3"	9-5/16"	4-1/8"
4"	10-5/8"	5"



Size	Iron		Brass	316 Stainless Steel
	Part #	pkg qty	Part #	Part #
1/2"	---	--	---	<b>RMS1</b>
3/4"	---	--	<b>BMS6</b>	<b>RMS6</b>
1"	---	--	<b>BMS11</b>	<b>RMS11</b>
1-1/4"	<b>MS16</b>	20	<b>BMS16</b>	<b>RMS16</b>
1-1/2"	<b>MS21</b>	20	<b>BMS21</b>	<b>RMS21</b>
2"	<b>MS26</b>	10	<b>BMS26</b>	<b>RMS26</b>
2-1/2"	<b>MS31</b>	5	---	<b>RMS31</b>
3"	<b>MS36</b>	5	<b>BMS36</b>	<b>RLP36</b> <sup>1</sup>
4"	<b>MS46</b>	2	---	<b>RLP46</b> <sup>1</sup>

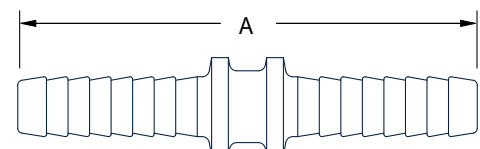
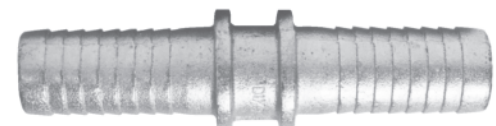
- 'HEX' dimension is the distance across the flats.

<sup>1</sup> tubular steel

- collars engage grip fingers of Boss clamps
- 1/2"; plated steel
- 3/4" - 3"; plated iron

Size	Part #	A	Size	Part #	A
1/2"	<b>M1</b>	4"	1 1/2"	<b>M21</b>	8-3/8"
3/4"	<b>M6</b>	6"	2"	<b>M26</b>	9-1/16"
1"	<b>M11</b>	6-3/16"	2 1/2"	<b>M31</b>	10-1/2"
1 1/4"	<b>M16</b>	7-7/8"	3"	<b>M36</b>	11-7/8"

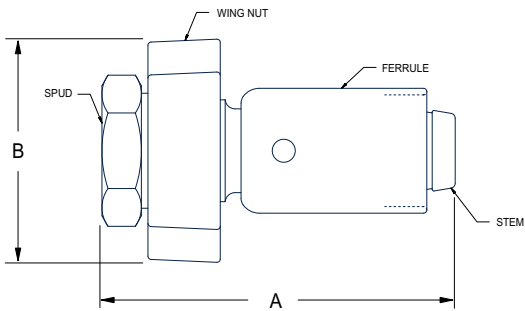
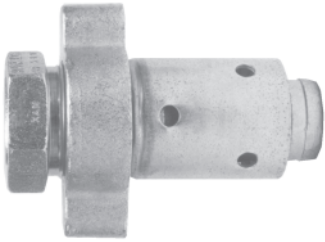
**Hose Menders**



## Holedall Fittings

- Designed for air or liquid applications where a permanent, low profile clamping system is desired.
- Fittings are supplied with carbon steel ferrules.
- Consult the factory for swage and/or crimp specifications.
- **not For Steam Service**

**SAFETY**  
**ALERT**



- 'A' dimension represents a complete coupling length with a female spud.
- 'B' dimension is the largest dimension over the wing nut.

Size	OD Range		Part #	
	From:	To:	Iron	Stainless Steel
3/4"	1-10/64"	1-14/64"	<b>GF26P1</b>	---
	1-15/64"	1-18/64"	<b>GF26P2</b>	---
	1-19/64"	1-22/64"	<b>GF26P3</b>	---
1"	1-30/64"	1-34/64"	<b>GF36P1</b>	---
	1-35/64"	1-38/64"	<b>GF36P2</b>	---
	1-39/64"	1-42/64"	<b>GF36P3</b>	---
1 1/2"	1-15/16"	2"	<b>GF61P1</b>	<b>RGF61P1</b>
	2-1/64"	2-1/8"	<b>GF61P2</b>	<b>RGF61P2</b>
	2-9/64"	2-1/4"	<b>GF61P3</b>	---
2"	2-9/16"	2-5/8"	<b>GF81P1</b>	<b>RGF81P1</b>
	2-41/64"	2-3/4"	<b>GF81P2</b>	<b>RGF81P2</b>
	2-49/64"	2-7/8"	<b>GF81P3</b>	---
3"	3-9/16"	3-5/8"	<b>GF111P1</b>	---
	3-41/64"	3-3/4"	<b>GF111P2</b>	---
	3-49/64"	3-7/8"	<b>GF111P3</b>	---

### Dimensions

Size	A	B
3/4"	4-3/4"	3-9/16"
1"	5-1/8"	3-9/16"
1-1/2"	7-1/16"	4-3/8"
2"	7-9/16"	5-5/8"
3"	9-1/2"	7-3/4"

## Adapters

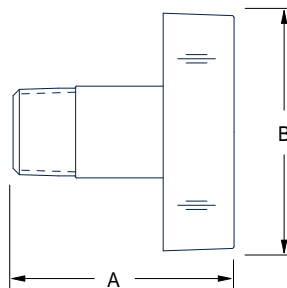
- These fittings have male or female NPT threads and are designed to fit the standard ground joint spuds on page 13.
- *Couplings come with adapter and wing nut.*

### Male NPT



Size	Part #	Pkg Qty
3/4"	<b>GMAS6</b>	25
1"	<b>GMAS11</b>	25
1 1/2"	<b>GMAS21</b>	10
2"	<b>GMAS26</b> <sup>1</sup>	10

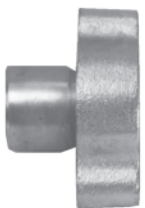
<sup>1</sup> uses a special wing nut, part # B27-3



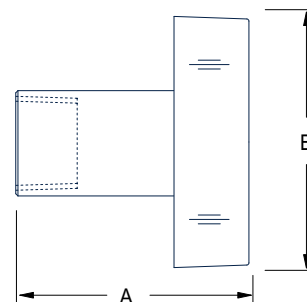
### Dimensions

Size	A	B
3/4"	3-1/16"	3-9/16"
1"	3-5/16"	3-9/16"
1-1/2"	4-1/8"	4-1/4"
2"	4-5/16"	5-5/8"

### Female NPT



Size	Part #
3/4"	<b>GFAS6</b>
1"	<b>GFAS11</b>



### Dimensions

Size	A	B
3/4"	3-1/8"	3-9/16"
1"	3-5/16"	3-9/16"

Size	Part #	Pkg Qty
¾" and 1"	<b>B12SC</b>	25
1¼" and 1½"	<b>B17SC</b>	25
2"	<b>B27SC</b>	10
3"	<b>B37SC</b>	5

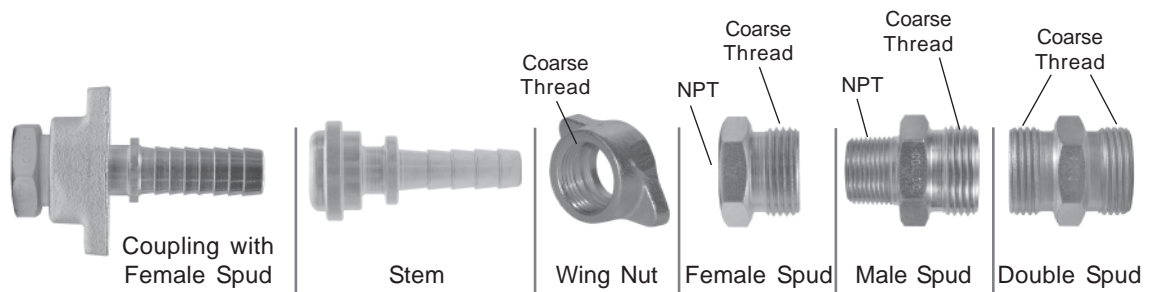


- for best results, use with washer style spuds on page 14
- supplied with 12" chain and washer
- *Note: Boss Wing Nut Caps are not intended for pressure applications.*



## Ground Joint Air Hammer Couplings

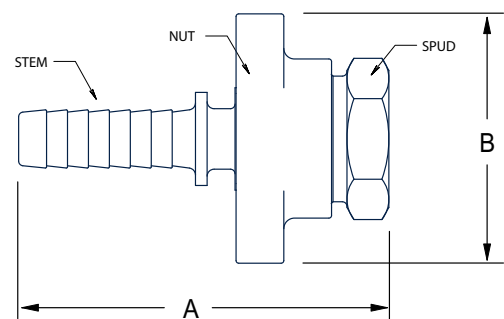
- superior sealing
- The plated steel head of the stem fits into concave copper seat of the spud.
- wing nut is plated iron
- use with Boss clamps on page 18 and 19



Style	Hose x NPT	Coarse Thread	Part #	Part #	Part #	Part #	Part #	Part #
Compact	1/2"	1-31/64" O.D.	<b>GDF6</b>	<b>GBA45</b>	<b>J47</b>	<b>GJ65</b>	<b>GJ60</b>	<b>GJ75</b>
	3/4"	x 8 T.P.I.	<b>GDF8</b>	<b>GBA46</b>	<b>J47</b>	<b>GJ55</b>	<b>GJ50</b>	<b>GJ75</b>
Heavy	3/4"	1-47/64" O.D.	<b>GDF10</b>	<b>GBB18</b>	<b>DLB12</b>	<b>GDL8</b>	<b>GDL7</b>	<b>GDL25</b>
	1"	x 8 T.P.I.	<b>GDF12</b>	<b>GBB11</b>	<b>DLB12</b>	<b>GDL13</b>	<b>GDL10</b>	<b>GDL25</b>

Dimensions

Style	Size	A	B
Compact	1/2"	4-1/32"	2-15/16"
	3/4"	4-55/64"	2-15/16"
Heavy	3/4"	5"	3-5/8"
	1"	5-21/64"	3-5/8"



- 'A' dimension represents a complete coupling length with a female spud.
- 'B' dimension is the largest dimension over the wing nut.

# Clamps

Refer to Installation and Inspection Procedure #'s 1000, 2000, 2001 and 3001 on pages 50 and 51.

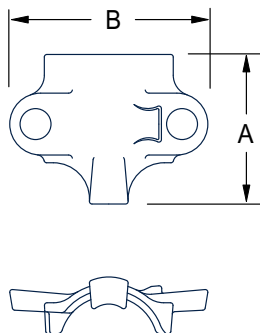


2-bolt type

Size	Hose OD		Investment cast Carbon Steel		316 Stainless Steel		Brass	
	From:	To:	Part #	pkg qty	Part #	Torque <sup>2</sup>	Part #	Torque
1/4"	36/64"	42/64"	<b>BD</b>	100	---	6	---	--
3/8"	44/64"	56/64"	<b>CD</b>	100	---	6	---	--
1/2"	52/64"	60/64"	<b>DD</b>	100	---	6	---	--
1/2"	60/64"	1-4/64"	<b>B4</b>	25	<b>RB4</b>	12	<b>BB4</b>	10
1/2"	1-4/64"	1-12/64"	<b>B5</b>	25	---	12	---	--
3/4"	1-12/64"	1-20/64"	<b>BU9</b>	50	<b>RBU9</b>	21	<b>BBU9</b>	18
3/4"	1-20/64"	1-32/64"	<b>B9<sup>1</sup></b>	25	<b>RB9</b>	21	<b>BB9</b>	18
3/4"	1-32/64"	1-44/64"	<b>B10</b>	25	---	21	<b>BB10</b>	--

<sup>1</sup> plated iron

<sup>2</sup> torque applies to plated iron *and* stainless steel clamps



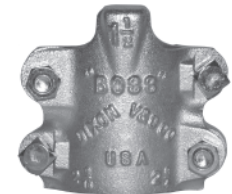
Dimensions

Size	Part #	A	B
1/4"	<b>BD</b>	1-1/4"	1-1/2"
3/8"	<b>CD</b>	1-7/16"	1-11/16"
1/2"	<b>DD</b>	1-7/8"	1-3/4"
1/2"	<b>B4</b>	1-13/16"	2-11/32"
1/2"	<b>B5</b>	1-13/16"	2-13/32"
3/4"	<b>BU9S</b>	2-9/16"	2-3/4"
3/4"	<b>BU9</b>	2-9/16"	2-3/4"
3/4"	<b>B9</b>	2-3/4"	2-7/8"
3/4"	<b>B10</b>	2-11/16"	3-1/32"

- Replacement nuts and bolts are available, contact the factory for more information.
- The bolts used in the Boss interlocking clamps are not standard bolts. They vary from standard bolts in their length, diameter, overall thread length and material hardness. These bolts can be retorqued, but it is **not** recommended that the bolts or clamps be reused, as they are designed for a single bend only. Dixon recommends using only factory supplied replacement bolts. SAFETY  
ALERT
- Torque values for clamps are based on dry bolts. The use of lubricant on bolts will adversely effect clamp performance. *Do not lubricate nuts and bolts.*
- recommended torque rating in ft. lbs. SAFETY  
ALERT

Refer to Installation and Inspection Procedure #'s  
1000, 2000, 2001 and 3001 on pages 50 and 51.

Size	Hose OD		Plated Iron		316 Stainless Steel		Brass	
	From:	To:	Part #	pkg qty	Part #	Torque <sup>3</sup>	Part #	Torque
1/2"	5/8/64"	1-2/64"	<b>968</b>	50	---	6	---	--
1"	1-26/64"	1-36/64"	<b>156</b> <sup>1,4</sup>	20	---	21	---	--
1"	1-34/64"	1-46/64"	<b>BU14</b>	25	<b>RBU14</b>	21	<b>BBU14</b>	18
1"	1-44/64"	1-60/64"	<b>B14</b> <sup>4</sup>	25	<b>RB14</b>	21	<b>BB14</b>	18
1"	1-60/64"	2-8/64"	<b>B15</b>	20	---	21	---	--
1-1/4"	1-32/64"	1-50/64"	<b>BU18</b>	10	---	40	---	--
1-1/4"	1-44/64"	1-56/64"	<b>187</b> <sup>1</sup>	10	---	21	---	--
1-1/4"	1-50/64"	2-6/64"	<b>BU19</b>	10	---	40	---	--
1-1/4"	1-56/64"	2-4/64"	<b>206</b> <sup>1</sup>	20	---	21	---	--
1-1/4"	2-8/64"	2-24/64"	<b>B19</b>	10	<b>RB19</b>	40	<b>BB19</b> <sup>2</sup>	28
1-1/2"	1-52/64"	2"	<b>BU22</b>	10	---	40	---	--
1-1/2"	2"	2-14/64"	<b>B22</b>	10	---	40	---	--
1-1/2"	2"	2-8/64"	<b>212</b> <sup>1</sup>	10	---	21	---	--
1-1/2"	2-4/64"	2-16/64"	<b>225</b> <sup>1</sup>	10	---	40	---	--
1-1/2"	2-12/64"	2-24/64"	<b>BU24</b>	10	<b>RBU24</b>	40	<b>BBU24</b> <sup>2</sup>	28
1-1/2"	2-24/64"	2-36/64"	<b>B24</b>	10	<b>RB24</b>	40	---	--
1-1/2"	2-36/64"	2-48/64"	<b>B25</b>	10	---	40	---	--
2"	2-16/64"	2-32/64"	<b>250</b> <sup>1,5</sup>	10	---	40	---	--
2"	2-22/64"	2-34/64"	<b>BU28</b>	10	---	60	---	--
2"	2-32/64"	2-48/64"	<b>275</b> <sup>1,5</sup>	10	---	40	---	--
2"	2-32/64"	2-50/64"	<b>BU29</b>	10	<b>RBU29</b>	60	<b>BBU29</b> <sup>2</sup>	40
2"	2-48/64"	3-4/64"	<b>B29</b>	10	<b>RB29</b>	60	<b>BB29</b> <sup>2</sup>	40
2"	2-48/64"	3-4/64"	<b>306</b> <sup>1,5</sup>	10	---	60	---	--
2"	3-6/64"	3-28/64"	<b>B30</b>	5	---	60	---	--
2-1/2"	3-4/64"	3-32/64"	<b>350</b> <sup>1</sup>	5	---	60	---	--
2-1/2"	3-6/64"	3-28/64"	<b>BU34</b>	5	---	60	---	--
2-1/2"	3-32/64"	3-60/64"	<b>B34</b>	5	---	150	---	--
3"	3-32/64"	3-48/64"	<b>375</b> <sup>1</sup>	5	---	60	---	--
3"	3-32/64"	3-60/64"	<b>BU35</b>	5	<b>RBU35</b>	150	---	--
3"	3-48/64"	4"	<b>401</b> <sup>1</sup>	5	---	150	---	--
3"	3-52/64"	4-4/64"	<b>B35</b>	5	---	150	---	--
3"	4"	4-12/64"	<b>418</b> <sup>1</sup>	4	---	200	---	--
3"	4-4/64"	4-28/64"	<b>B39</b>	5	---	200	---	--
3"	4-12/64"	4-32/64"	<b>450</b> <sup>1</sup>	2	---	200	---	--



4-bolt type  
2 gripping fingers



4-bolt type  
4 gripping fingers

<sup>1</sup> 4 gripping fingers

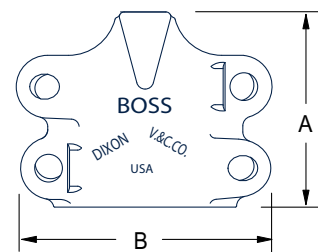
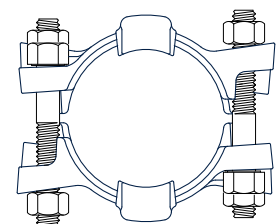
<sup>2</sup> will become obsolete as inventory is depleted

<sup>3</sup> torque applies to plated iron and stainless steel clamps

<sup>4</sup> investment cast carbon steel

<sup>5</sup> not to be used with GF81, GB26, WF81, B26, RGF81, RGB26, BGF81, BGB26, RWF81, RB26

Dimensions				Dimensions			
Size	Part #	A	B	Size	Part #	A	B
1/2"	<b>968</b>	1-11/16"	2-1/16"	2"	<b>250</b> <sup>1,5</sup>	3-13/16"	4-3/16"
1"	<b>156</b> <sup>1,4</sup>	2-21/32"	3-3/16"	2"	<b>BU28</b>	3-15/16"	4-7/16"
1"	<b>BU14</b>	3-3/32"	3-1/2"	2"	<b>275</b> <sup>1,5</sup>	3-7/8"	4-1/2"
1"	<b>B14</b> <sup>4</sup>	3-1/8"	3-3/8"	2"	<b>BU29</b>	3-7/8"	4-13/32"
1"	<b>B15</b>	3-1/8"	3-3/4"	2"	<b>B29</b>	4-5/16"	5-1/16"
1-1/4"	<b>BU18</b>	3-11/16"	3-5/8"	2"	<b>306</b> <sup>1,5</sup>	4-1/8"	5-1/8"
1-1/4"	<b>187</b> <sup>1</sup>	3-1/16"	3-9/16"	2"	<b>B30</b>	4-1/4"	5-5/8"
1-1/4"	<b>BU19</b>	3-11/16"	3-7/8"	2-1/2"	<b>350</b> <sup>1</sup>	4-1/8"	5-3/4"
1-1/4"	<b>206</b> <sup>1</sup>	2-29/32"	3-21/32"	2-1/2"	<b>BU34</b>	4-5/16"	5-3/4"
1-1/4"	<b>B19</b>	3-3/4"	4"	2-1/2"	<b>B34</b>	5"	6-9/16"
1-1/2"	<b>BU22</b>	3-13/16"	4"	3"	<b>375</b> <sup>1</sup>	4-15/32"	6-1/8"
1-1/2"	<b>B22</b>	3-13/16"	4-1/8"	3"	<b>BU35</b>	5"	6-1/2"
1-1/2"	<b>212</b> <sup>1</sup>	3-3/8"	4"	3"	<b>401</b> <sup>1</sup>	4-23/32"	6-1/2"
1-1/2"	<b>225</b> <sup>1</sup>	3-5/8"	4"	3"	<b>B35</b>	5-1/16"	6-11/16"
1-1/2"	<b>BU24</b>	3-25/32"	4-3/32"	3"	<b>418</b> <sup>1</sup>	4-29/32"	7"
1-1/2"	<b>B24</b>	3-31/32"	4-1/8"	3"	<b>B39</b>	5-1/2"	7-1/2"
1-1/2"	<b>B25</b>	3-15/16"	4-1/2"	3"	<b>450</b> <sup>1</sup>	5-3/16"	7-1/2"



All dimensions are nominal.



## Dix-Lock

# Quick Acting Couplings

*Dix-Lock coupling's non-valved design allows full air flow to the tool, while providing a quick, secure connection.*

### Service:

- The recommended working pressure for Dix-Lock quick acting couplings is **300 PSI**.
- The operating temperature range is **-40° to +250°F** (-40° to +121°C).

### Features:

- dual-guide sleeve tabs ensure smooth action
- corrosion resistant coatings and materials improve performance
- pneumatically energized seal for optimal performance at a variety of pressures
- wide variety of end configurations

### Materials:

- female and male bodies: zinc plated steel  
*optional* - brass or 303 stainless steel
- sleeve: steel
- retaining ring and spring: phosphor bronze
- seal: nitrile (buna-n)

### Connecting:

- convenient push-twist and click

### Disconnecting:

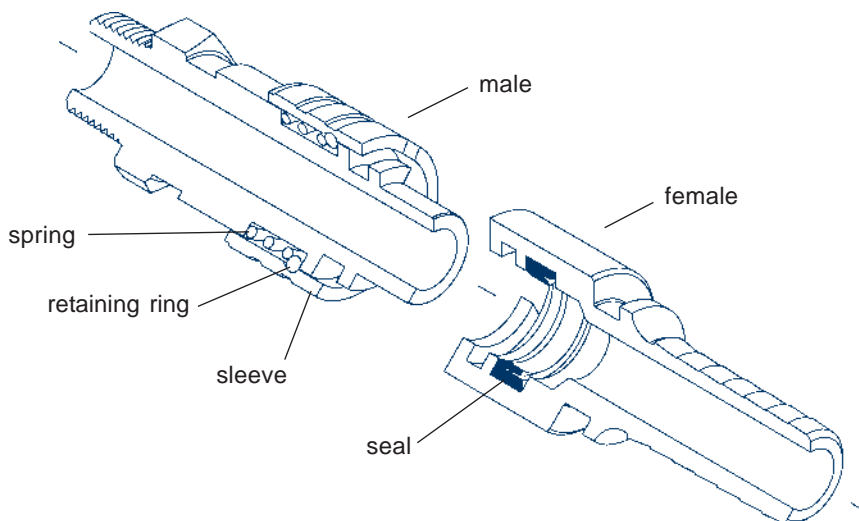
- retract sleeve, twist and pull

**Never attempt to disconnect any hose while pressure is in the line.**

**SAFETY**  
**ALERT**

### Interchange:

- interchanges with the MIL-C-3486 Standard and the A-A50431-A Commercial Item Description
- interchanges with Bowes and National brands

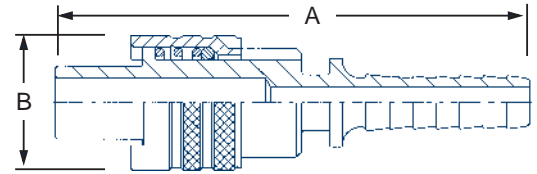
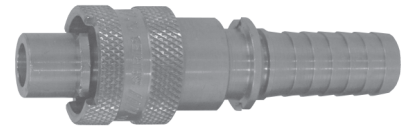


Male Head x Hose End

Body Size	Hose Shank	Plated Steel	pkg qty	Brass	pkg qty	Stainless Steel	pkg qty
3/8"	1/2"	<b>QM1</b>	25	---	--	---	--
1/2"	3/8"	<b>QM2</b>	25	<b>QB2</b>	--	---	--
1/2"	1/2"	<b>QM3</b>	25	<b>QB3</b>	--	---	--
1/2"	3/4"	<b>QM4</b>	25	<b>QB4</b>	--	<b>QSS4</b>	--
1/2"	1"	<b>QM5</b>	25	<b>QB5</b>	25	---	--

Dimensions

Body Size	Hose Shank	A	B
3/8"	1/2"	3.73"	1.13"
1/2"	3/8"	4.36"	1.40"
	1/2"	4.63"	1.40"
	3/4"	4.77"	1.40"
	1"	4.77"	1.40"

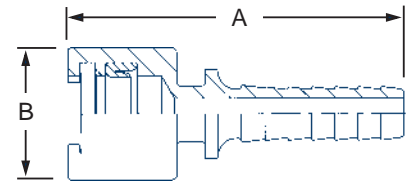
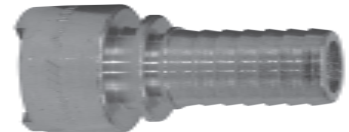


Female Head x Hose End

Body Size	Hose Shank	Plated Steel	pkg qty	Brass	pkg qty	Stainless Steel	pkg qty
3/8"	1/2"	<b>QM20</b>	25	---	--	---	--
1/2"	3/8"	<b>QM21</b>	25	<b>QB21</b>	--	---	--
1/2"	1/2"	<b>QM22</b>	25	<b>QB22</b>	--	---	--
1/2"	3/4"	<b>QM23</b>	25	<b>QB23</b>	--	<b>QSS23</b>	--
1/2"	1"	<b>QM25</b>	25	<b>QB25</b>	25	---	--

Dimensions

Body Size	Hose Shank	A	B
3/8"	1/2"	2.41"	1.20"
1/2"	3/8"	2.98"	1.54"
	1/2"	3.37"	1.54"
	3/4"	3.37"	1.54"
	1"	3.49"	1.54"

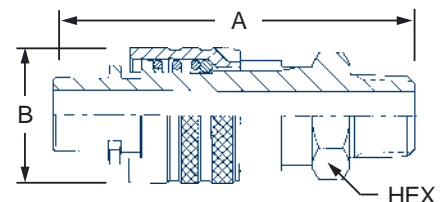


Male Head x Male NPT End

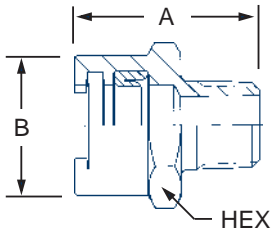
Body Size	Male NPT	Plated Steel	pkg qty	Brass	pkg qty	Stainless Steel	pkg qty
3/8"	1/2"	<b>QM40</b>	25	---	--	---	--
1/2"	3/8"	<b>QM41</b>	25	<b>QB41</b>	--	---	--
1/2"	1/2"	<b>QM42</b>	25	<b>QB42</b>	--	---	--
1/2"	3/4"	<b>QM43</b>	25	<b>QB43</b>	--	<b>QSS43</b>	--
1/2"	1"	<b>QM45</b>	25	<b>QB45</b>	25	---	--
1-1/4"	1"	---	--	<b>QB47</b>	10	---	--
1-1/4"	1-1/4"	---	--	<b>QB49</b>	10	---	--

Dimensions

Body Size	Male NPT	A	B	HEX
3/8"	1/2"	3.28"	1.13"	1-3/16"
1/2"	3/8"	3.65"	1.40"	1-1/8"
	1/2"	3.65"	1.40"	1-1/8"
	3/4"	3.74"	1.40"	1-3/8"
	1"	3.78"	1.40"	1-1/2"
1-1/4"	1"	4.50"	2.00"	1-3/4"
	1-1/4"	4.67"	2.00"	2"



## Female Head x Male NPT End



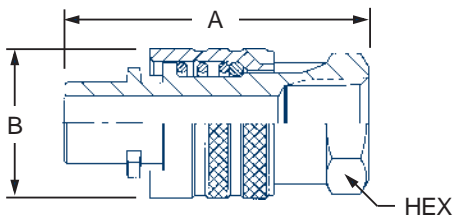
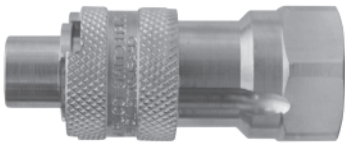
\* valved coupler not shown

Body Size	Male NPT	Plated Steel	pkg qty	Brass	pkg qty	Stainless Steel	pkg qty
3/8"	1/2"	<b>QM60</b>	25	---	--	---	--
1/2"	3/8"	<b>QM61</b>	25	<b>QB61</b>	--	---	--
1/2"	1/2"	<b>QM62</b>	25	<b>QB62</b>	--	---	--
1/2"	3/4"	<b>QM63</b>	25	<b>QB63</b>	--	<b>QSS63</b>	--
1/2"	3/4"	<b>QM63V*</b>	25	---	--	---	--
1/2"	1"	<b>QM65</b>	25	<b>QB65</b>	25	---	--
1-1/4"	1"	---	--	<b>QB67</b>	10	---	--
1-1/4"	1-1/4"	---	--	<b>QB69</b>	10	---	--

### Dimensions

Body Size	Male NPT	A	B	HEX
3/8"	1/2"	1.72"	1.20"	1-3/16"
1/2"	3/8"	1.77"	1.54"	1-3/8"
	1/2"	1.77"	1.54"	1-3/8"
	3/4"	1.77"	1.54"	1-3/8"
1-1/4"	1"	1.84"	1.54"	1-1/2"
	1"	2.36"	2.05"	2"
	1-1/4"	2.36"	2.05"	2"

## Male Head x Female NPT End

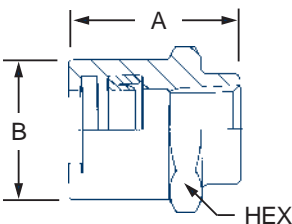


Body Size	Female NPT	Plated Steel	pkg qty	Brass	pkg qty	Stainless Steel	pkg qty
1/2"	3/8"	<b>QM81</b>	25	<b>QB81</b>	--	---	--
1/2"	1/2"	<b>QM82</b>	25	<b>QB82</b>	--	---	--
1/2"	3/4"	<b>QM83</b>	25	<b>QB83</b>	--	<b>QSS83</b>	--
1/2"	1"	<b>QM85</b>	25	<b>QB85</b>	25	---	--
1-1/4"	1"	---	--	<b>QB87</b>	10	---	--
1-1/4"	1-1/4"	---	--	<b>QB89</b>	10	---	--

### Dimensions

Body Size	Female NPT	A	B	HEX
1/2"	3/8"	2.73"	1.40"	1-1/8"
	1/2"	2.73"	1.40"	1-1/8"
	3/4"	3.34"	1.40"	1-3/8"
	1"	3.37"	1.40"	1-1/2"
1-1/4"	1"	3.44"	2.00"	1-3/4"
	1-1/4"	3.53"	2.00"	2"

## Female Head x Female NPT End



\* valved coupler not shown

Body Size	Female NPT	Plated Steel	pkg qty	Brass	pkg qty	Stainless Steel	pkg qty
1/2"	3/8"	<b>QM101</b>	25	<b>QB101</b>	--	---	--
1/2"	1/2"	<b>QM102</b>	25	<b>QB102</b>	--	---	--
1/2"	3/4"	<b>QM103</b>	25	<b>QB103</b>	--	<b>QSS103</b>	--
1/2"	3/4"	<b>QM103V*</b>	25	---	--	---	--
1/2"	1"	<b>QM105</b>	25	<b>QB105</b>	25	---	--
1-1/4"	1"	---	--	<b>QB107</b>	10	---	--
1-1/4"	1-1/4"	---	--	<b>QB109</b>	10	---	--

### Dimensions

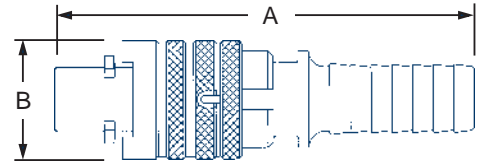
Body Size	Female NPT	A	B	HEX
1/2"	3/8"	1.63"	1.54"	1-3/8"
	1/2"	1.63"	1.54"	1-3/8"
	3/4"	1.63"	1.54"	1-3/8"
	1"	1.68"	1.54"	1-1/2"
1-1/4"	1"	1.99"	2.05"	2"
	1-1/4"	2.08"	2.05"	2"

### Male Locking Head x Hose End

Body Size	Hose Shank	Part #	
		Plated Steel	Brass
1/2"	1/2"	<b>QM33</b>	<b>QB33</b>
1/2"	3/4"	<b>QM44</b>	<b>QB44</b>

Dimensions		
Size	A	B
1/2"	4.36"	1.40"
3/4"	4.63"	1.40"

*Positive Safety Lock*  
With locking nut in place sleeve cannot be moved to open coupling.

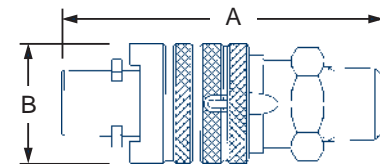
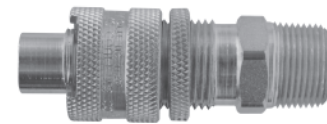


### Male Locking Head x Male NPT

Body Size	Male NPT	Part #	
		Plated Steel	Brass
1/2"	1/2"	<b>QM66</b>	<b>QB66</b>
1/2"	3/4"	<b>QM88</b>	<b>QB88</b>

Dimensions		
Size	A	B
1/2"	3.65"	1.40"
3/4"	3.65"	1.40"

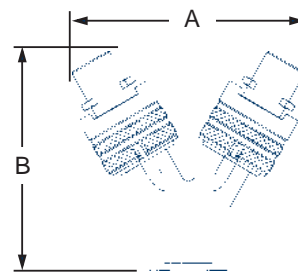
*Positive Safety Lock*  
With locking nut in place sleeve cannot be moved to open coupling.



Body Size	Part #	pkg qty
1/2"	<b>Steel</b> <b>QM9</b>	25

Dimensions		
Size	A	B
1/2"	3.73"	4.00"

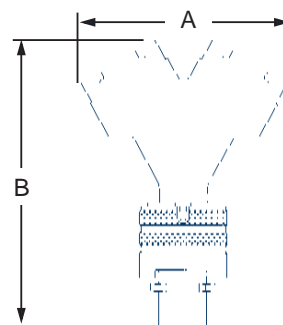
### Male Y



Body Size	Part #	pkg qty
1/2"	<b>Steel</b> <b>QM7</b>	25

Dimensions		
Size	A	B
1/2"	2.83"	4.20"

### Female Y

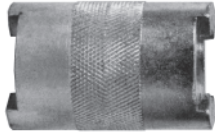


## Cap



Body Size	Part #		pkg qty
	Brass	Steel	
1/2"	<b>QBCAP</b>	<b>QMCAP</b>	25

## Converter



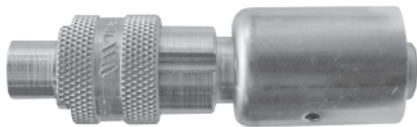
Body Size	Part #	pkg qty
	Steel	
1/2"	<b>QM0</b>	25

## (Buna-N) Gaskets



Body Size	Part #
3/8"	<b>QBM1</b>
1/2"	<b>QBM2</b>
1-1/4"	<b>QBM3</b>

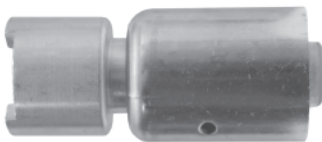
## Male Head



- rated to **300 PSI** working pressure
- for crimp recommendations see page 25
- also available in stainless steel, *contact the factory for further information*

Body Size	Hose ID	OD Range		Part #	
		From:	To:	Plated Steel	Brass
1/2"	1/2"	27/32"	1-1/32"	<b>QM3WF</b>	<b>QB3WF</b>
1/2"	3/4"	1-5/32"	1-11/32"	<b>QM4WF</b>	<b>QB4WF</b>

## Female Head



- rated to **300 PSI** working pressure
- for crimp recommendations see page 25
- also available in stainless steel, *contact the factory for further information*

Body Size	Hose ID	OD Range		Part #	
		From:	To:	Plated Steel	Brass
1/2"	1/2"	27/32"	1-1/32"	<b>QM22WF</b>	<b>QB22WF</b>
1/2"	3/4"	1-5/32"	1-11/32"	<b>QM23WF</b>	<b>QB23WF</b>

## Male Locking Head



- rated to **300 PSI** working pressure
- for crimp recommendations see page 25
- also available in stainless steel, *contact the factory for further information*

Body Size	Hose ID	OD Range		Part #	
		From:	To:	Plated Steel	Brass
1/2"	1/2"	27/32"	1-1/32"	<b>QM33WF</b>	<b>QB33WF</b>
1/2"	3/4"	1-5/32"	1-11/32"	<b>QM44WF</b>	<b>QB44WF</b>

## Crimped Recommendation Guide

The chart below is only a guide. It will not apply to every coupling situation. In some instances alternative dies and crimping dimensions must be employed to ensure safety. Experience has shown that variances in the construction of similar hoses and couplings may cause some assemblies to react differently when crimped. It is not uncommon to find hose with an outer diameter that fluctuates from one end to the other or from production lot to production lot. These inconsistencies coupled with the inherent differences between textile or wire braid, hard or soft wall, the presence or absence of an internal spiral wire and the differences in hose coverings make it difficult to establish hard and fast rules. Therefore, it is imperative that hose dimensions are accurately measured, assemblies are tested, and documentation is maintained.

Hose ID	Part #	Hose OD		Crimp Diameter (±0.005)	Crimp Length	% Reduction
		<i>Fractional</i>	<i>Decimal</i>			
1/2"	<b>QM3WF</b>	54/64	0.844	0.925	1-1/8	18.9
	<b>QB3WF</b>	55/64	0.859	0.940	1-1/8	18.1
	<b>QM22WF</b>	56/64	0.875	0.950	1-1/8	18.9
	<b>QB22WF</b>	57/64	0.891	0.965	1-1/8	18.4
	<b>QM33WF</b>	58/64	0.906	0.975	1-1/8	19.0
	<b>QB33WF</b>	59/64	0.922	0.990	1-1/8	18.5
		60/64	0.938	1.005	1-1/8	18.0
		61/64	0.953	1.015	1-1/8	18.5
		62/64	0.969	1.030	1-1/8	18.1
		63/64	0.984	1.040	1-1/8	18.6
		1	1.000	1.055	1-1/8	18.2
		1-1/64	1.016	1.065	1-1/8	18.8
		1-2/64	1.031	1.080	1-1/8	18.3
	3/4"	<b>QM4WF</b>	1-10/64	1.156	1.220	1-1/4
<b>QB4WF</b>		1-11/64	1.171	1.235	1-1/4	18.0
<b>QM23WF</b>		1-12/64	1.187	1.244	1-1/4	18.7
<b>QB23WF</b>		1-13/64	1.203	1.260	1-1/4	18.1
<b>QM44WF</b>		1-14/64	1.218	1.270	1-1/4	18.8
<b>QB44WF</b>		1-15/64	1.234	1.285	1-1/4	18.2
		1-16/64	1.250	1.295	1-1/4	18.8
		1-17/64	1.265	1.310	1-1/4	18.4
		1-18/64	1.281	1.320	1-1/4	18.8
		1-19/64	1.296	1.335	1-1/4	18.5
		1-20/64	1.312	1.345	1-1/4	19.0
		1-21/64	1.328	1.360	1-1/4	18.5
		1-22/64	1.343	1.370	1-1/4	19.0

Refer to Installation and Inspection Procedure # 2306 on page 51.



## Dual-Lock

# Quick Acting Couplings

*Dual-Lock couplings allow full air flow for general purpose air handling requiring high flow and pneumatic impact tools.*

### Service:

- The recommended working pressure for Dual-Lock quick acting couplings is **300 PSI**.
- The operating temperature range is **-40° to +250°F** (-40° to +121°C).

### Features:

- unisex design
- spring loaded interlocking engagement
- corrosion resistant coatings and materials improve performance
- smooth flow paths permit tool optimization
- optional locking key prevents accidental sleeve retraction
- wide variety of end configurations

### Materials:

- body: trivalent chrome plated steel  
*optional* - brass or 303 stainless steel
- sleeve: steel  
*optional* - brass or 303 stainless steel
- retaining ring and spring: phosphor bronze
- seal: nitrile (buna-n)  
*optional* - Viton®

### Connecting:

- push and twist  
Locking clip is available to prevent unintentional disconnection.

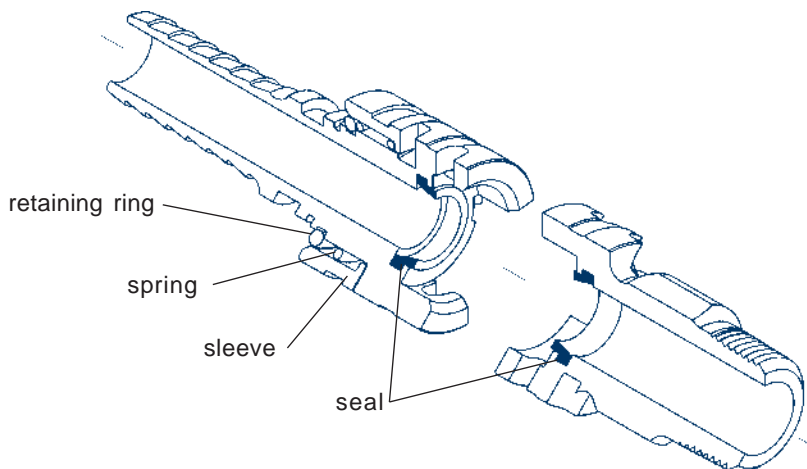
### Disconnecting:

- pull and twist  
**Never attempt to disconnect any hose while pressure is in the line.**

**SAFETY**  
**ALERT**

### Interchange:

- interchangeable with National A type, Dixon Quick Coupling P type and Thor PHC series couplings

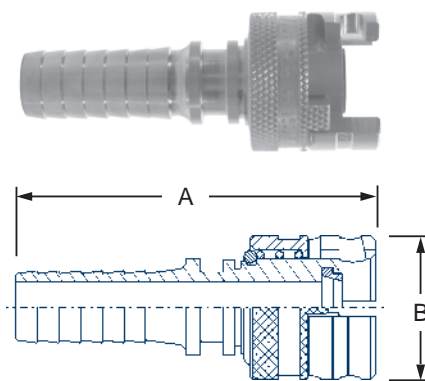


### Hose Barb with Locking Sleeve

Body Size	Hose Shank	Plated Steel	pkg qty	Brass	pkg qty	Stainless Steel	pkg qty
1/2"	3/8"	<b>PHL6</b>	25	---	--	---	--
1/2"	1/2"	<b>PHL8</b>	25	---	--	---	--
1/2"	3/4"	<b>PHL12</b>	25	<b>PHLB12</b>	25	<b>PHL12SS</b>	10
1/2"	1"	<b>PHL16</b>	25	<b>PHLB16</b>	25	---	--

Dimensions

Size	A	B
3/8"	3.53"	1.55"
1/2"	3.95"	1.55"
3/4"	3.95"	1.55"
1"	6.06"	1.55"

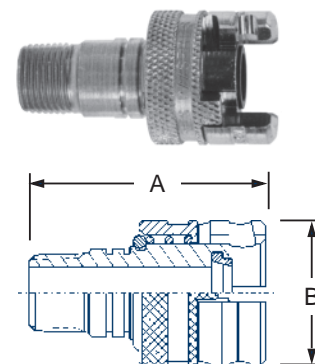


### Male Pipe Thread with Locking Sleeve

Body Size	Male NPT	Plated Steel	pkg qty	Stainless Steel	pkg qty
1/2"	3/8"	<b>PML6</b>	25	---	--
1/2"	1/2"	<b>PML8</b>	25	---	--
1/2"	3/4"	<b>PML12</b>	25	<b>PML12SS</b>	10

Dimensions

Size	A	B
1/2"	2.93"	1.55"
3/4"	3.11"	1.55"
1"	3.13"	1.55"

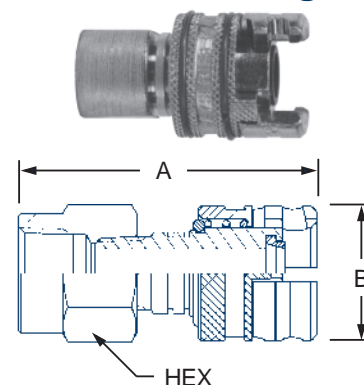


### Female Pipe Thread with Locking Sleeve

Body Size	Female NPT	Plated Steel	pkg qty	Stainless Steel	pkg qty
1/2"	1/2"	<b>PFL8</b>	25	---	--
1/2"	3/4"	<b>PFL12</b>	25	<b>PFL12SS</b>	10

Dimensions

Size	A	B	HEX
1/2"	1.55"	1.55"	1.38"
3/4"	1.55"	1.55"	1.38"



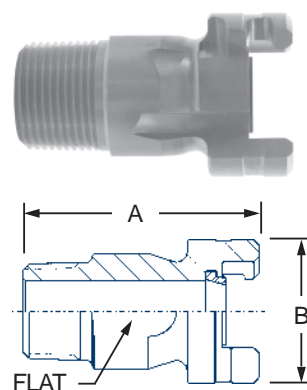
Must be used with locking sleeve fittings above.

Body Size	Male NPT	Plated Steel	pkg qty	Brass	pkg qty	Stainless Steel	pkg qty
1/2"	3/8"	<b>PM6</b>	25	---	--	---	--
1/2"	1/2"	<b>PM8</b>	25	<b>PMB8</b>	25	---	--
1/2"	3/4"	<b>PM12</b>	25	<b>PMB12</b>	25	<b>PM12SS</b>	10
1/2"	1"	<b>PM16</b>	25	<b>PMB16</b>	25	---	--

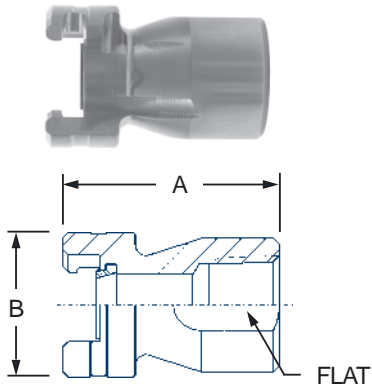
Dimensions

Size	A	B	FLAT
3/8"	2.00"	1.55"	0.88"
1/2"	2.25"	1.55"	0.97"
3/4"	2.55"	1.55"	1.13"
1"	3.25"	1.55"	1.38"

### Male Pipe Thread



## Female Pipe Thread



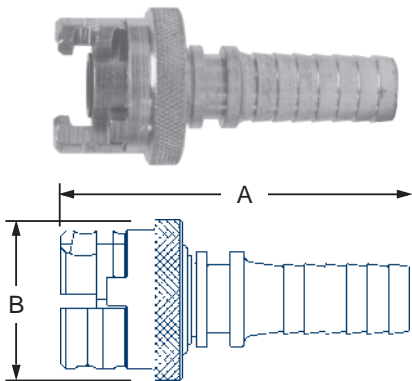
Must be used with locking sleeve fittings on page 27.

Body Size	Female NPT	Plated Steel	pkg qty	Brass	pkg qty	Stainless Steel	pkg qty
1/2"	3/8"	<b>PF6</b>	25	---	--	---	--
1/2"	1/2"	<b>PF8</b>	25	<b>PFB8</b>	25	---	--
1/2"	3/4"	<b>PF12</b>	25	<b>PFB12</b>	25	<b>PF12SS</b>	10
1/2"	1"	<b>PF16</b>	25	<b>PFB16</b>	25	---	--

### Dimensions

Size	A	B	FLAT
3/8"	1.79"	1.55"	0.88"
1/2"	2.25"	1.55"	0.97"
3/4"	2.34"	1.55"	1.13"
1"	2.76"	1.55"	1.38"

## Hose Barb with Knurled Flanged Sleeve



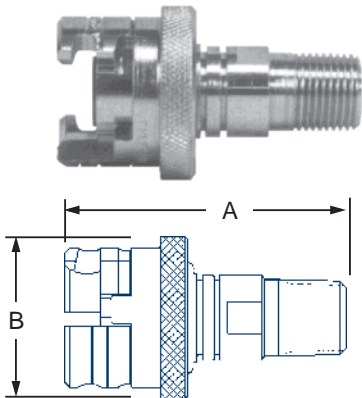
- zinc coated
- Large, raised collar sleeve permits easier handling when wearing gloves.

Body Size	Hose Shank	Part # Plated Steel	pkg qty
1/2"	3/8"	<b>PHL6FS</b>	25
1/2"	1/2"	<b>PHL8FS</b>	25
1/2"	3/4"	<b>PHL12FS</b>	25

### Dimensions

Size	A	B
3/8"	3.53"	1.81"
1/2"	3.95"	1.81"
3/4"	3.95"	1.81"

## Male Pipe Thread with Knurled Flanged Sleeve



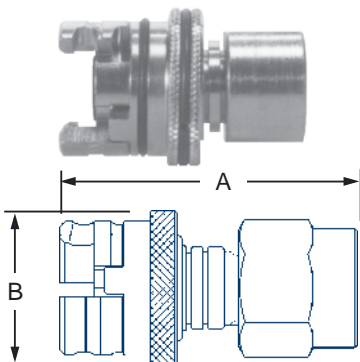
- zinc coated
- Large, raised collar sleeve permits easier handling when wearing gloves.

Body Size	Male NPT	Part # Plated Steel	pkg qty
1/2"	3/8"	<b>PML6FS</b>	25
1/2"	1/2"	<b>PML8FS</b>	25
1/2"	3/4"	<b>PML12FS</b>	25

### Dimensions

Size	A	B
3/8"	2.93"	1.81"
1/2"	3.11"	1.81"
3/4"	3.13"	1.81"

## Female Pipe Thread with Knurled Flanged Sleeve



Large, raised collar sleeve permits easier handling when wearing gloves.

Body Size	Female NPT	Part # Plated Steel	pkg qty
1/2"	1/2"	<b>PFL8FS</b>	25
1/2"	3/4"	<b>PFL12FS</b>	25

### Dimensions

Size	A	B
1/2"	3.43"	1.81"
3/4"	3.43"	1.81"

## Replacement Gaskets

## Sleeve Locking Key

Part #	Description
<b>855206</b>	Buna-N (standard)
<b>452963</b>	Viton®



- fits couplings with locking sleeve
- prevents sleeve retraction

Part #
<b>855231</b>

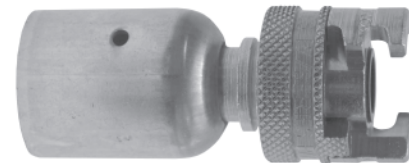


Viton® is a registered trademark of DuPont Dow Elastomers.

- Dual Lock couplings with ferrules are rated to **300 PSI** working pressure.
- yellow zinc coated coupling with plated steel ferrule
- also available in brass and stainless steel
- for crimp recommendations see below

Body Size	Hose ID	OD Range		Part # <i>Plated Steel</i>
		From:	To:	
1/2"	1/2"	54/64"	1-2/64"	<b>PHL8WF</b>
1/2"	3/4"	1-10/64"	1-22/64"	<b>PHL12WF</b>

## Dual-Lock with Ferrule



## Crimped Recommendation Guide

The chart below is only a guide. It will not apply to every coupling situation. In some instances alternative dies and crimping dimensions must be employed to ensure safety. Experience has shown that variances in the construction of similar hoses and couplings may cause some assemblies to react differently when crimped. It is not uncommon to find hose with an outer diameter that fluctuates from one end to the other or from production lot to production lot. These inconsistencies coupled with the inherent differences between textile or wire braid, hard or soft wall, the presence or absence of an internal spiral wire and the differences in hose coverings make it difficult to establish hard and fast rules. Therefore, it is imperative that hose dimensions are accurately measured, assemblies are tested, and documentation is maintained.

Hose ID	Part #	Hose OD		Crimp Diameter (±0.005)	Crimp Length	% Reduction
		Fractional	Decimal			
1/2"	<b>PHL8WF</b>	54/64	0.844	0.925	1-1/4	18.9
		55/64	0.859	0.940	1-1/4	18.1
		56/64	0.875	0.950	1-1/4	18.9
		57/64	0.891	0.965	1-1/4	18.4
		58/64	0.906	0.975	1-1/4	19.0
		59/64	0.922	0.990	1-1/4	18.5
		60/64	0.938	1.005	1-1/4	18.0
		61/64	0.953	1.015	1-1/4	18.5
		62/64	0.969	1.030	1-1/4	18.1
		63/64	0.984	1.040	1-1/4	18.6
		1	1.000	1.055	1-1/4	18.2
		1-1/64	1.016	1.065	1-1/4	18.8
		1-2/64	1.031	1.080	1-1/4	18.3
		3/4"	<b>PHL12WF</b>	1-10/64	1.156	1.220
1-11/64	1.171			1.235	1-1/4	18.0
1-12/64	1.187			1.244	1-1/4	18.7
1-13/64	1.203			1.260	1-1/4	18.1
1-14/64	1.218			1.270	1-1/4	18.8
1-15/64	1.234			1.285	1-1/4	18.2
1-16/64	1.250			1.295	1-1/4	18.8
1-17/64	1.265			1.310	1-1/4	18.4
1-18/64	1.281			1.320	1-1/4	18.8
1-19/64	1.296			1.335	1-1/4	18.5
1-20/64	1.312			1.345	1-1/4	19.0
1-21/64	1.328			1.360	1-1/4	18.5
1-22/64	1.343			1.370	1-1/4	19.0

Refer to Installation and Inspection Procedure # 2306 on page 51.

part # **1217AR-4AK**

# Air Receiver Manifold Assembly

*with Air King Couplers used to safely distribute air to machines and tools*

*Tank provides (1) 2" Ground Joint inlet for supply hose and (7) Air King outlets for tool hoses.*

## Service:

- 7 gallon capacity provides air reserve needed for operation of tools
- **200 PSI** maximum working pressure for tank (Working pressure of the system is limited to maximum working pressure of the components, i.e. 150 PSI for Air King)

## Features:

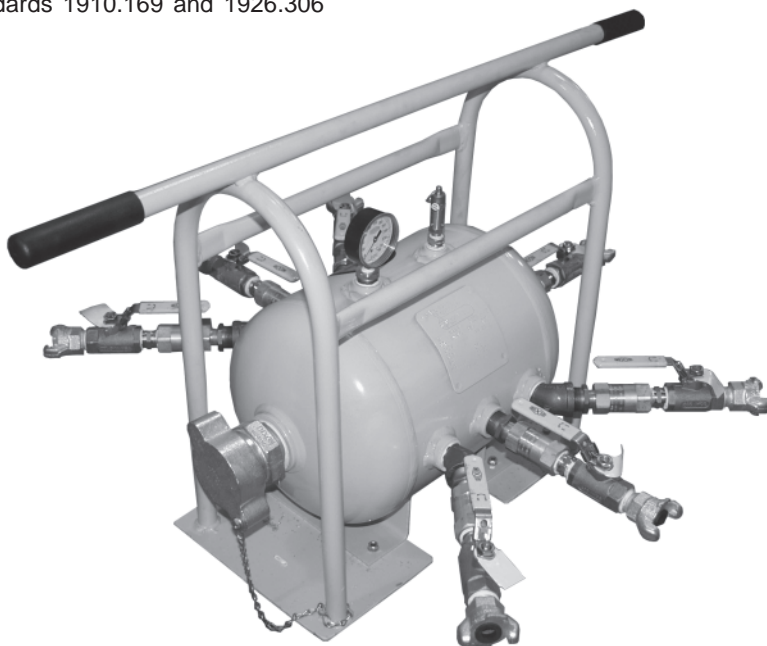
- all tank outlets have female NPT threads
- portable - easy carry handles standard
- solid base with mounting holes standard
- approximate tank dimensions are 12" x 17"; 40" x 24" with frame
- painted safety orange

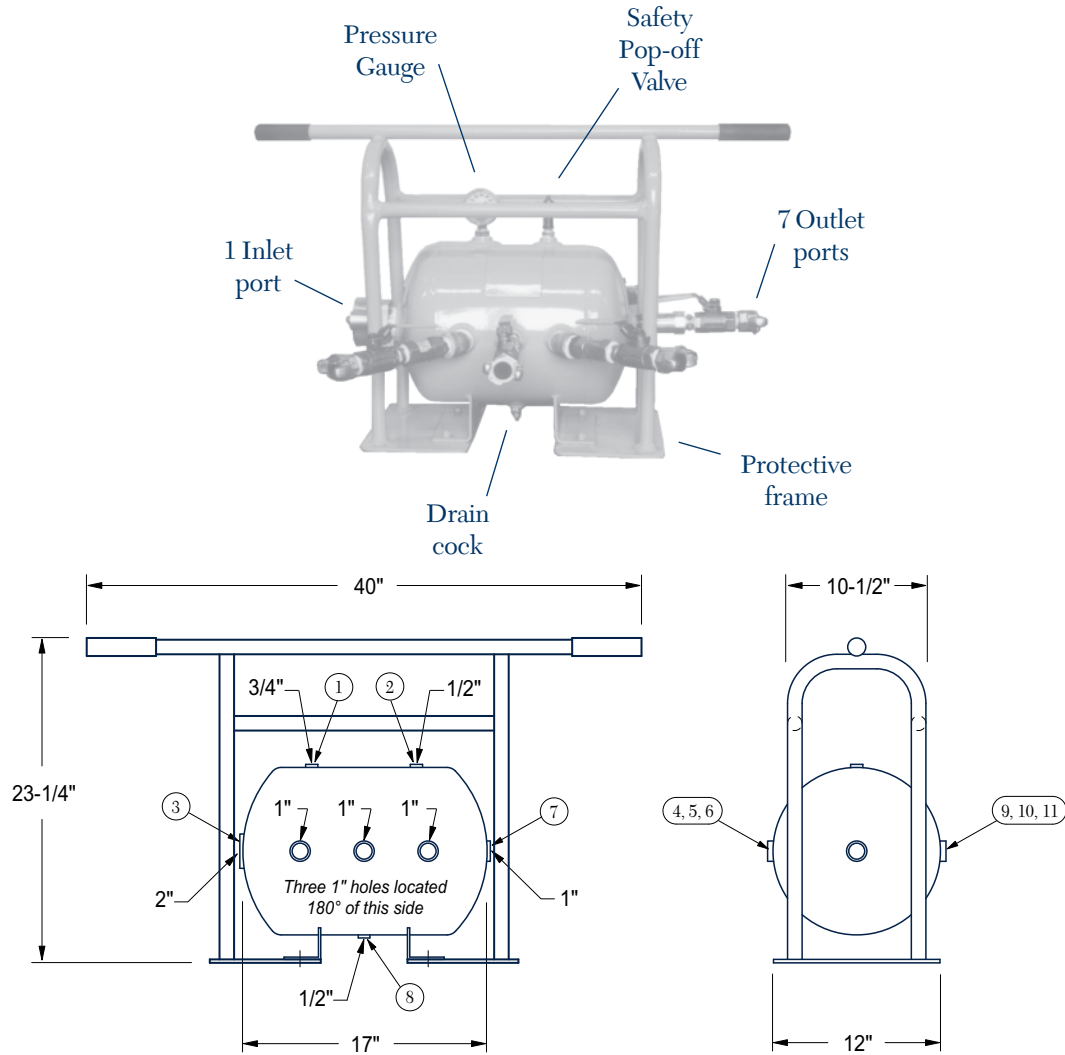
## Components:

- spring-loaded Safety Shut-off Valves (Cut-off Flow Rate 160-180 CFM at 90 PSI)
- safety Pop-off Valve (200 PSI) to protect against over-pressurizing of tank
- 0-300 PSI gauge
- drain valve provides for removal of accumulated oil and water
- locking handle ball valve

## Codes and Standards:

- built to ASME Code, National Board registered
- conforms to OSHA Standards 1910.169 and 1926.306





Includes the following:

Part #	Description
<b>1217AR-4AK</b>	Air King receiver manifold complete assembly
<b>1217AR-4</b>	7 gallon ASME compressed air receiver
Location 1	1 <b>HB2F6M</b> 3/4" male x 1/4" female hex bushing 1 <b>GL345</b> 0-300 PSI gauge
Location 2	1 <b>HB2F4M</b> 1/2" male x 1/4" female hex bushing 1 <b>SV200</b> safety pop-off valve
Location 3	1 <b>GM28</b> 2" male spud 1 <b>B27SC</b> wing nut cap
Locations 4, 5, 6, 9, 10, 11	6 <b>HB6F8M</b> 1" male x 3/4" female bushings 6 <b>BCN75</b> 3/4" brass hex nipples 6 <b>BBLV75</b> locking handle ball valves 6 <b>SCVS6</b> safety shut-off valves 6 <b>AM7</b> Air King universal couplings *
	4 <b>SE45100</b> 45° street elbow (1 each in locations 4, 6, 9, and 11 only)
Location 7	1 <b>HB2075</b> 2" male x 3/4" female bushing 1 <b>BCN75</b> 3/4" brass hex nipple 1 <b>BBLV75</b> locking handle ball valve 1 <b>SCVS6</b> safety shut-off valve 1 <b>AM7</b> Air King universal coupling *
Location 8	1 <b>HB2F4M</b> 1/2" male x 1/4" female hex bushing 1 <b>D04</b> 1/4" drain cock
<b>1217FRAME</b>	1 protective frame

\* Dixon recommends the use of safety clips and King safety cables on all air hose connections.





## Safety

# Safety Check Valve

*Prevents dangerous hose whip on portable air compressors*

### Features:

- does not prevent backflow
- high flow valve to provide optimum performance
- controls excess air flow (SCFM) in only one direction
- not for use in applications where 100% of the available air is required, i.e. sand blast, pile driving rigs, expansion joint blow down pipes, etc.
- automatically senses change in air flow and shuts off the flow in the event of a surge in excess of valve flow rating thus preventing hose whip
- conforms to OSHA regulation 1926.302 (b) (7) requiring a safety device at the source of the air supply and at branch air lines.
- applications include temporary plant/factory air, construction sites, shipyards or utilities

### Construction:

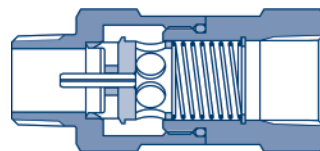
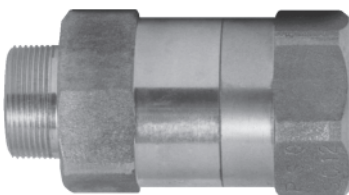
- solid brass body and valve
- stainless steel spring and roll pin
- maximum working pressure: **250 PSI**
- maximum temperature: **250°F**

### Use:

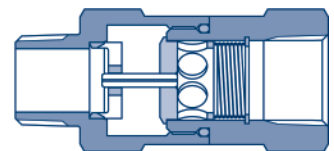
- Safety Check Valves operate by using the pressure differential across the valve to operate the valve and spring assembly. The pressure differential is directly related to the flow of air through the valve.
- When the pressure differential is within the operating limits -- below the cutoff flow -- of the unit, the force on the valve exerted by the spring is greater than that caused by the pressure differential (see open position graphic below). The valve remains open and normal operation continues.
- When the pressure differential is above the cutoff limit, the force on the valve exerted by the pressure differential is greater than the force exerted by the spring, and the valve closes (see the closed position graphic below).
- After the repair is made, normal operation is automatically enabled when pressure across the valve equalizes through the bleeder hole.
- The valve spring size can be specified by determining the air flow during normal operation and by estimating the air flow if a failure or rupture occurs.

### Questions to ask when selecting a safety shut-off valve:

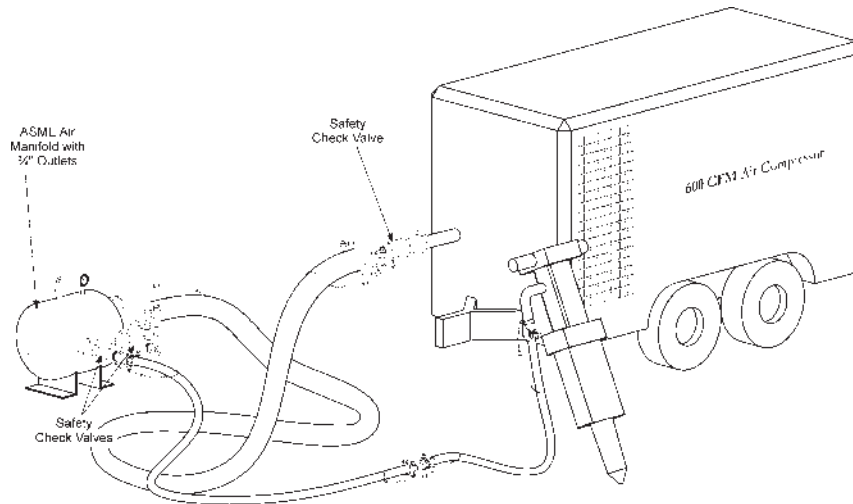
1. What is the hose ID size you are using?
2. What is the operating pressure of the compressor, in PSI?
3. What is the SCFM of your compressor? (printed on the side of most air compressors)
4. How much air flow, in SCFM, does the tool(s) require?
5. What is the maximum air flow possible, in SCFM, through your air hose, at the end of the length of the hose? Contact Dixon for recommendations if the hose length is over 100'.



Check Valve In Open Position



Check Valve In Closed Position



### Installation:

A safety shut-off valve should be placed immediately after the air control valve and before the hose on a compressor, and on each discharge port on a manifold (see drawing above).

### Sizing the safety shut-off valve:

1. The safety shut-off valve NPT size must be the same as the nominal ID size of the air line on which it is used.  
*Note: Never increase or decrease the hose size from the compressor to the tool or from the compressor to the manifold.*
2. One safety shut-off valve must be used on each hose outlet from the manifold.
3. To avoid nuisance cut-off's, the shut-off valve selected should have a cut-off range of 110% of the maximum anticipated air flow to the tool, or tools, to be used.
4. The maximum SCFM of the supply side air line must be above the cut-off range of the valve. The cut-off range of Dixon's shut-off valves is given at 90 PSI. To determine the cut-off range at other PSI's, use the formula or the sample numbers in the Cut-off Rate Chart below to find the flow rate multiplier. Multiply the flow rate multiplier by the numbers in the cut-off flow range column to find the cut-off range at your PSI.

**Safety Shut-off Valve Cut-off Rates  
at PSI's Other Than 90 PSI**

Inlet pressure (PSI)	25	50	75	100	125
Flow rate multiplier	.62	.79	.93	1.05	1.16

$$\text{Flow rate multiplier} = \sqrt{\frac{\text{PSIG} + 14.7}{104.7}}$$

### Operation:

Before starting the compressor the air control valve should be closed completely. When the compressor unloads, open the air control valve *very slowly*. Full port ball valves tend to work better than gate or butterfly type valves.

The air control valve must be fully open for the safety shut-off valve to work. Some portable air compressor manufacturers recommend start-up with the air control valve slightly open. In this case you may have to close the valve and reopen it slowly to the full open position, or wait for the safety shut-off valve to reset itself.

If the valve fails to operate despite meeting all conditions, check the hose line for obstructions or a hose mender restricting normal air flow.

## SCV-Series Selection Guide:

1. Sketch the position of the tool, fittings, safety check and supply line. Measure the length of hose from the safety check to the tool. There should be no jump sizes in the hose between the safety check and the tool. You will need one safety check valve for each branch line feeding the tool. A safety check in the main supply line is also recommended.
2. Determine the hose size you want to protect. Select the same size safety check as the hose size. For example, a 3/8" hose will require a 3/8" safety check. Do not use a different size safety check. One exception to this rule is for 5/8" hose, use a 1/2" safety check valve.
3. Determine the maximum operating air flow (SCFM) required through the safety check during normal use. For example, the maximum air consumption of the largest tool used on that supply line. Determine the optimum cutoff flow by multiplying the maximum operating air flow by 110%.
4. Add to the length of hose, you measured in step 1, length adders to compensate for system components. Add 0.91m (3') for each elbow, 0.91m (3') for each tee, 3.05m (10') for each globe valve, 0.61m (2') for each gate valve, 0.91m (3') for each hose fitting. This calculation will result in the total length for your safety check valve selection. Find the column in the Unobstructed Air Flow Chart, below, that corresponds to your hose size and the row that corresponds to your calculated total length. Where they intersect, is the unobstructed air flow in SCFM.
5. If the optimum cutoff flow is 80% of the unobstructed air flow or less, you should use the optimum cutoff flow (110% of the maximum calculated air flow) to select the appropriate safety check valve. To do this, find the safety check that has a corresponding cutoff flow rate in the product list on the next page.
6. If the optimum cutoff flow is greater than 80% of the unobstructed air flow, there may be a problem with the safety check valve sensing the difference between normal air demand and a line rupture. You may want to consider removing fittings from the flow path, reducing the length of your hose or increasing your hose diameter. If you are not sure, call your Dixon distributor for assistance.
7. Always install one safety check and test the performance of the system before you continue other installations. When start-up is underway, open the air control valve at the compressor or manifold *veryslowly* to allow air to bleed through the check valve so that pressure is equalized on each side of the valve. If the valve fails to operate despite meeting all conditions, check the supply line for obstructions or a hose mender restricting normal air flow.

## Unobstructed Air Flow Chart (SCFM)

Total Length (feet)	Hose Size (ID)										
	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
5	28	66	124	199	294	550	1200	1800	3300	5300	7900
8	27	65	123	196	290	540	1140	1700	3100	5000	7500
10	27	64	121	194	286	531	1100	1640	3000	4600	7200
20	26	62	116	189	278	520	960	1420	2500	4200	6300
30	24	58	108	175	258	480	850	1280	2300	3800	5600
50	22	54	101	163	240	447	720	1080	2000	3200	4700
75	20	47	86	140	207	385	670	960	1850	3000	4400
100	17	41	77	124	178	340	620	940	1760	2800	4200
150	15	35	65	105	158	290	590	870	1630	2600	3900
200	13	30	57	92	136	253	550	820	1520	2400	3600
250	11	27	51	83	123	228	520	780	1450	2300	3400
300	10	25	47	56	114	210	500	750	1390	2200	3300

Length Adders: 3' for each elbow  
 3' for each tee  
 10' for each globe valve  
 2' for each gate valve  
 3' for each hose fitting

• Use 1/2" Safety Check Valve for 5/8" Hose.

Not recommended for applications requiring 100% of the available air supply. These applications include, but are not limited to, sand blast equipment, pile driving rigs, and expansion joint blow down pipes.

It is recommended to install auxiliary safety devices, including Safety Cables, to ensure optimum safety for the operator in the event of a coupling failure or hose rupture. (see page 37)



NPT and Hose ID Size	Part #	Cut-off Flow Range (SCFM at 90 PSI)
1/4"	<b>SCVL2</b>	23-29
3/8"	<b>SCVM3</b>	39-47
	<b>SCVS3</b>	52-65
1/2"	<b>SCVM4</b>	70-78
	<b>SCVS4</b>	80-96
3/4"	<b>SCVL6</b>	72-88
	<b>SCVM6</b>	92-108
	<b>SCVR6</b>	112-128
	<b>SCVJ6</b>	132-148
	<b>SCVS6</b>	160-180
	<b>SCVH6</b>	180-200
1"	<b>SCVL8</b>	165-195
	<b>SCVM8</b>	220-260
	<b>SCVS8</b>	280-320
	<b>SCVH8</b>	310-340
1-1/4"	<b>SCVL10</b>	260-290
	<b>SCVM10</b>	300-340
	<b>SCVS10</b>	440-500
	<b>SCVH10</b>	570-630
1-1/2"	<b>SCVL12</b>	300-360
	<b>SCVM12</b>	470-530
	<b>SCVS12</b>	640-720
	<b>SCVH12</b>	750-830
2"	<b>SCVL16</b>	510-590
	<b>SCVM16</b>	725-825
	<b>SCVS16</b>	900-1050
	<b>SCVH16</b>	1100-1200
3"	<b>SCVL24</b>	1200-1400
	<b>SCVS24</b>	2400-2700
	<b>SCVH24</b>	2850-3050

## Performance Specifications

- high flow design results in maximum flow with minimal pressure drop
- automatically and instantly protects the operator against hose whip in the event of a damaged hose or coupling
- In the event of a hose rupture or coupling failure, the valve will automatically reset after the problem is fixed.
- SCV-Series is available in a large selection of sizes ranging from 1/4" to 3", NPTF or BSPP/BSPT threads.
- Valve operation is fully compliant with OSHA Safety Regulation 1926.302(b)(7), (referenced on Page 5).

Performance Specifications	Operating Bar (PSI)	Minimum Burst Bar (PSI)	Temperature °C (°F)	Air Flow <sup>1</sup> 30.5m (100')
1/4"	17 (250)	138 (2,000)	121 (250)	17 SCFM
3/8"	17 (250)	138 (2,000)	121 (250)	41 SCFM
1/2"	17 (250)	138 (2,000)	121 (250)	77 SCFM
3/4"	17 (250)	138 (2,000)	121 (250)	178 SCFM
1"	17 (250)	138 (2,000)	121 (250)	340 SCFM
1-1/4"	17 (250)	138 (2,000)	121 (250)	620 SCFM
1-1/2"	17 (250)	138 (2,000)	121 (250)	940 SCFM
2"	17 (250)	138 (2,000)	121 (250)	1,760 SCFM
2-1/2"	17 (250)	138 (2,000)	121 (250)	2,800 SCFM
3"	17 (250)	138 (2,000)	121 (250)	4,200 SCFM

<sup>1</sup> Air flow rating is based upon calculated values using unobstructed air flow for the applicable hose size.



# King Safety Cable

*A positive safeguard for air hose connections King Safety Cable helps you meet today's safety standards*

- Hose-to-hose or hose-to-rigid outlet styles available
- Low cost answer to eliminating injuries caused by broken air hose connections
- Highly resistant to rust and corrosion
- Easy installation and removal - no tools needed
- Custom lengths available

When a pressurized air hose becomes accidentally uncoupled, or a hose failure occurs, the quick exhaust of air causes the hose assembly to whip violently, creating a potentially dangerous situation.

**King Safety Cables** prevent hose whip in the event of the accidental separation of a coupling or clamp device. The steel cables span the hose fittings to provide standby safety for the hose. Spring-loaded loops in the cable ends are easily opened to pass over the couplings and provide a firm grip on the hose.

The cables can be used in hose to hose installations, as well as hose to rigid outlet, or tool.

On hose to hose applications the **King Safety Cable** should be installed on the hose portion of the assembly in a fully extended position. When used on hose to rigid outlet, or tool, the spring loaded end should be over the hose, while the choker end is installed on the outlet, or tool. **King Safety Cable** should always be installed in a fully extended position.



## OSHA Regulations

**Standards - 29 CFR, 1915.131 (partial):**

**(e)** Before use, pneumatic tools shall be secured to the extension hose or whip by some positive means to prevent the tool from becoming accidentally disconnected from the whip.

**Standards - 29 CFR, 1926.302 (partial):**

**(b)(1)** Pneumatic power tools shall be secured to the hose or whip by some positive means to prevent the tool from becoming accidentally disconnected.

**Standards - 29 CFR, 1926.603 (partial):**

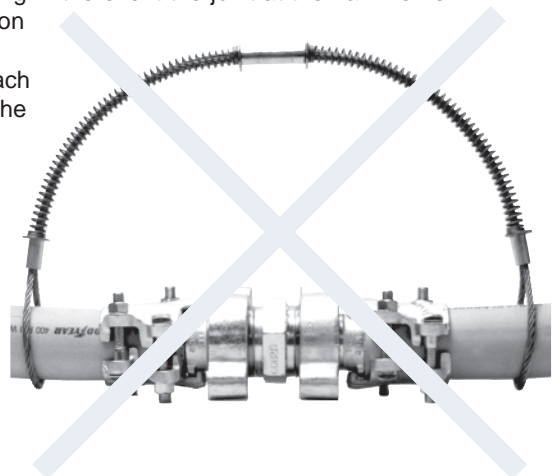
**(a)(9)** Steam hose leading to a steam hammer or jet pipe shall be securely attached to the hammer with an adequate length of at least 1/4-inch diameter chain or cable to prevent whipping in the event the joint at the hammer is broken. Air hammer hoses shall be provided with the same protection as required for steam lines.

**(a)(10)** Safety chains, or equivalent means, shall be provided for each hose connection to prevent the line from thrashing around in case the coupling becomes disconnected.



**Correct Installation**

King Safety Cable installed in the extended position (no slack).



**Incorrect Installation**

King Safety Cable is not installed in the extended position (too much slack).

**Features:**

- hose-to-hose or hose-to-rigid outlet
- King Cable is the low cost answer to eliminate injuries caused by broken air hose connections
- highly resistant to rust and corrosion
- no tools needed - easy to install and remove
- maximum working pressure **200 PSI**



Hose End

Tool End

**Style WSR, for hose-to-tool service**

Cable	Hose I.D.	Length	Part #	
			Steel	Stainless
1/8"	1/2" to 1-1/4"	20-1/4"	<b>WSR1</b>	<b>WSR1SS</b>
3/16"	1/2" to 2"	28"	<b>WSR3</b>	---
1/4"	1-1/2" to 3"	38"	<b>WSR2</b>	<b>WSR2SS</b>
3/8"	4"	44"	<b>WSR4</b>	---



Hose End

Hose End

**Style W, for hose-to-hose service**

Cable	Hose I.D.	Length	Part #	
			Steel	Stainless
1/8"	1/2" to 1-1/4"	20-1/4"	<b>WB1</b>	---
3/16"	1/2" to 2"	28"	<b>WB3</b>	---
1/4"	1-1/2" to 3"	38-1/4"	<b>WA2</b>	<b>WA2SS</b>
3/8"	4"	44"	<b>WA4</b>	---

Note: Cables are shipped with safety restraint labels attached. Labels are not pictured.

**King Safety Cable Options**



**WB1C**

WB1 with safety clip and lanyard



**WSR1E**

WSR1E with stainless steel marine eye

Cable	Part #	Description	Maximum WP PSI
1/8"	<b>WSR1C</b>	<b>WSR1</b> with safety clip and lanyard used to lock Air King couplings	<b>200</b>
1/8"	<b>WB1C</b>	<b>WB1</b> with safety clip and lanyard used to lock Air King couplings	<b>200</b>
1/8"	<b>WSR1E</b>	<b>WSR1</b> with stainless steel safety marine eye used to connect safety cable to a bolt on tool	<b>200</b>
1/4"	<b>WA2B</b>	<b>WA2</b> with bronze/copper ferrule for special environmental conditions	<b>200</b>
1/8"	<b>WB1SS</b>	<b>WB1</b> made with 304 stainless steel cable and springs with bronze/copper ferrules for special environmental conditions	<b>200</b>

**King Safety Cable Installation Procedures**

**A. For Hose to Tool Installation (WSR1, WSR2, WSR3, WSR4)**

1. Loosen cinch on end of cable without spring.
2. Loop cable over tool or connection. The connection must be shaped so that the cable will not slip off if a failure occurs. The connection or tool is the anchor for the cable.
3. Open the cable loop on the spring end and slide it over the hose end.
4. Attach hose to tool or connection.
5. Remove slack from cable by loosening spring on hose and sliding cable as far away as possible from tool or connections.

**B. For Hose to Hose Installation (WB1, WA2, WB3, WA4)**

1. Open the cable loop on one end and slide it over the coupling of one hose.
2. Open the cable loop on the connecting end and slide it over the coupling on the other hose.
3. Couple the hoses together.
4. Remove slack by sliding both cables equally apart.

Refer to Installation and Inspection Procedure # 2300 on page 50.



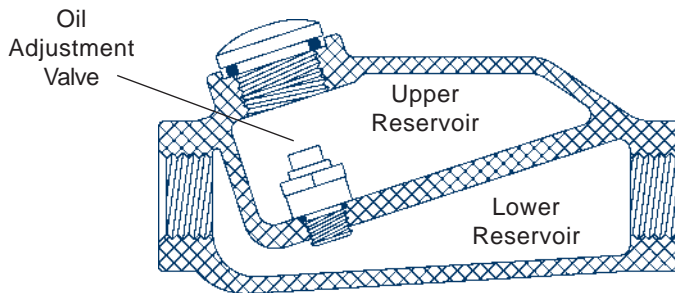
**Dixon**

# In-Line Lubricators

*Designed for use with hose-connected tools that are too far from the compressor to be lubricated by a permanently mounted unit.*



- The minimum flow rate that must be achieved for the PL series lubricators to work is 30 SCFM. A flow rate less than 30 SCFM will not create the pressure difference needed between chambers to force the oil into the air stream.
- Install within 25 feet of the air tool requiring lubrication. Refer to the arrow for proper air flow direction.
- transparent sight disc allows visual inspection of oil level
- oil flow regulated by screwdriver adjustment of oil adjustment valve inside body
- not recommended for constant flow applications
- *for use on reciprocating tools only*
- can dispense standard air tool lubricant or Dixon anti-freeze lubricant
- lubricator body is 356-T6 aluminum



## Description:

- The lubricator has two reservoirs. The upper reservoir holds the oil, and a lower reservoir that is the passageway for the air to enter. The air and oil mixture exits through the lower reservoir. The oil adjustment valve between the two compartments initially allows air to enter the reservoir to pressurize it, and then it controls the amount of oil entering the air stream.

## How it works:

- Before the hose is charged with air, the pressure in both chambers of the lubricator are equal. When the tool is turned on it draws air from the compressor through the lower chamber. As air passes through the lower chamber it creates an area of low pressure. When the pressure in the lower chamber is less than the pressure in the upper chamber the dual purpose oil adjustment valve allows oil to flow at the set rate into the airstream of the chamber below to lubricate the tool. When the flow of air stops, the oil adjustment valve allows pressure to build in the top chamber until the pressure is equal between the top and bottom. As long as the pressure in the upper chamber is less than or equal to the pressure in the lower chamber no oil will flow through the oil adjustment valve.



*Note: These lubricators are only recommended for use with tools that are frequently turned on and off.*

**Installation:**

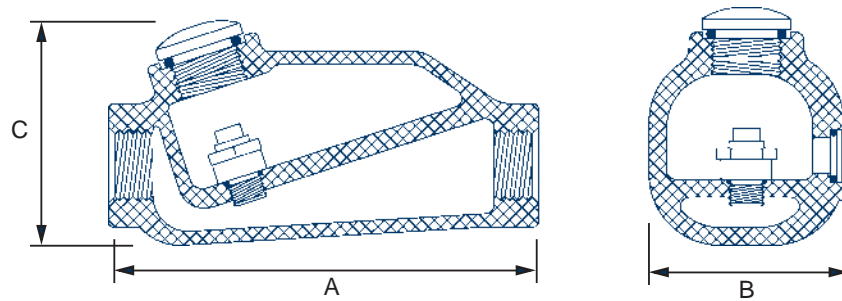
- At start up, additional lubricant is required to coat the inside of the line between the lubricator and the tool. To avoid operating a dry tool, add 1/2 ounce (15cc) of oil directly into the line.
- By removing the fill plug and using a screwdriver, the operator can adjust the amount of oil flowing into the air stream. It is not necessary to shut off the airflow to do this.
- The viscosity of the oil used and uniqueness of the application determine the right setting for proper lubrication. A setting of 5 is suitable for average conditions using 10-weight oil. Remember that the lag time between adjustment and resulting effect at the tool may be as long as an hour. Make small adjustments, and check the result.

**Storage:**

- The simple principle behind the operation of this lubricator does not provide for oil shut off when the tool is not being used. To prevent a pressure differential from forcing the remaining oil from the reservoir into the air line, turn the lubricator upside down or open the fill plug to depressurize the reservoir.

**Safety Notes:**

- Wear eye protection when connecting or disconnecting couplings. Always use a whip hose with impact tools, King Cable to protect junctions, and couplings that are compatible with the media being transferred.
- Always unscrew fill plug slowly to depressurize upper chamber before filling or adjusting valve.



NPT Sizes	Part #	Oil Capacity	Max. Working Pressure	Air Flow at 70 PSI	Length A	Width B	Height C	Weight
1/2"	<b>PL300</b>	1.4 fluid ozs.	<b>500 PSI</b>	30 SCFM	4 1/2"	2 1/4"	2 1/4"	14 ozs.
3/4"	<b>PL400</b>	3.7 fluid ozs.	<b>200 PSI</b>	70 SCFM	6"	2 3/4"	2 3/4"	22 ozs.
3/4"	<b>PL400L</b>	11.0 fluid ozs.	<b>300 PSI</b>	70 SCFM	7"	3 1/2"	3 3/4"	38 ozs.
1"	<b>PL500</b>	16.0 fluid ozs.	<b>250 PSI</b>	100 SCFM	10"	4 1/4"	4"	69 ozs.

**Available with Filter**

Combination unit consists of **9076M** particle filter with 40 micron sintered bronze element and **PL400** (3.7 ounce) or **PL400L** (11.0 ounce) lubricator.

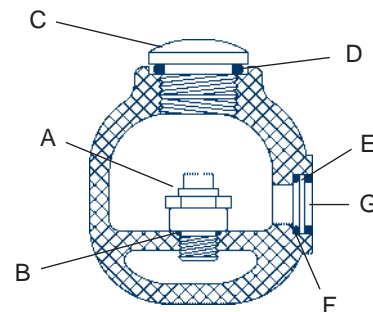
Part #	Max. WP
<b>PL400WF</b>	<b>200 PSI</b>
<b>PL400LWF</b>	<b>300 PSI</b>



**Repair Parts**

(same for all sizes)

Description	Part #
(A) oil adjustment valve assembly	<b>851661</b>
(B) valve gasket	<b>452531</b>
(C) fill plug	<b>452525</b>
(D) fill plug O-ring	<b>844319</b>
(E) sight disk	<b>452532</b>
(F) sight disk seal	<b>847272</b>
(G) sight disk lock nut	<b>452533</b>



**Type of oil to use:**

- Any petroleum-base, non-detergent light weight oil (SAE 10/150SSU) which will readily break up into a mist, i.e., Mobil DTE light or comparable oil. *Do not use any synthetic oil or oils containing additives or solvents.*



**Lubricant**

Part #	Size	pkg qty
<b>DATL016</b>	1 pint	12
<b>DATL128</b>	1 gallon	4

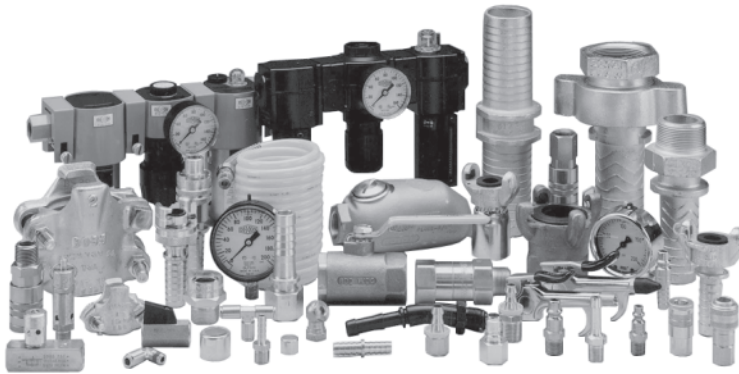
**Anti-Freeze**

Part #	Size	pkg qty
<b>DATL016W</b>	1 pint	12
<b>DATL128W</b>	1 gallon	4

## Accessories

# Air Accessories

*Additional Contractor Air Related Products*



### Safety Pop-Off Valves:

- section E in the DPL (Dixon Price List)

### Filters and Lubricators:

- section E in the DPL (Dixon Price List)

### Gauges:

- section E in the DPL (Dixon Price List)

### Ball Valves:

- section N in the DPL (Dixon Price List)

### Boss Fittings and Clamps:

- section D in the DPL (Dixon Price List)

### 3500 Series nipples:

- section F in the DPL (Dixon Price List)

### Bent Stem Swivels:

- section E in the DPL (Dixon Price List)

### Compressor Y fitting:

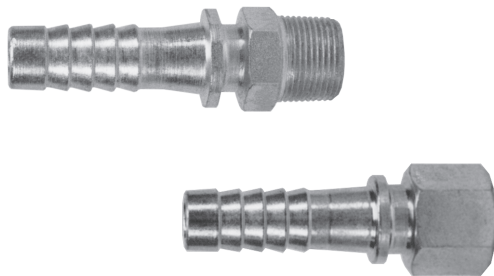
- section E in the DPL (Dixon Price List)

- designed for long reliable service



### 3500 Nipples

- used with whip hose to withstand vibration



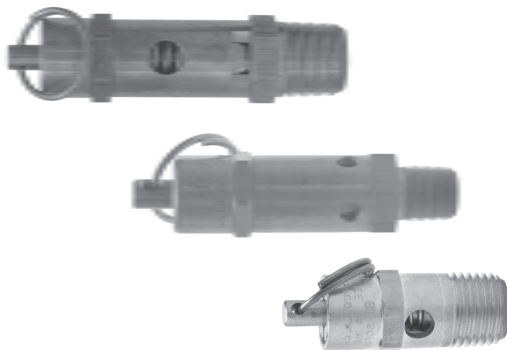
### Compressor Y

- converts a single supply source to a dual outlet



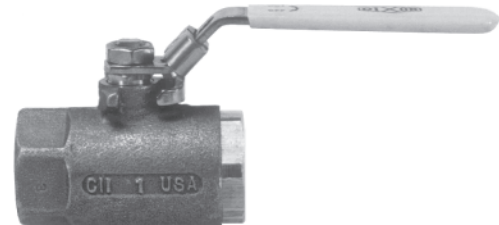
### Safety Pop-Off Valves

- National Board Certified Safety Valves



### Ball Valves

- handle position quickly indicates if valve is open or closed



### Bent Stem Swivels

- convenient air tool connectors



### Filters and Lubricators

- general purpose, rugged and reliable



# S.T.A.M.P.E.D.

## Questions to Ask

- S** Size
- T** Temperature
- A** Application
- M** Media
- P** Pressure
- E** Ends
- D** Dixon

## Pressure Conversions

100 PSI = 6.9 Bars      5 Bars = 72.5 PSI  
 250 PSI = 17.25 Bars    10 Bars = 145 PSI  
 600 PSI = 41.4 Bars     25 Bars = 362.5 PSI

## Measurement Information

### Measures of Pressure

1 Pound Per Square Inch = 144 Pounds Per Square Foot = 0.068 Atmosphere = 2.042 Inches of Mercury at 62°F = 27.7 Inches of Water at 62°F = 2.31 Feet of Water at 62°F.

1 Atmosphere = 30 Inches of Mercury at 62°F = 14.7 Pounds Per Square Inch = 2116.3 Pounds Per Square Foot = 33.95 Feet of Water at 62°F.

1 Foot of Water at 62°F = 62.355 Pounds Per Square Foot = 0.433 Pounds Per Square Inch.

1 Inch of Mercury at 62°F = 1.132 Feet of Water = 13.58 Inches of Water = 0.491 Pounds Per Square Inch.

Column of Water 12 Inches High, 1 Inch in Diameter = .341 Pounds

### Length Conversion Constants

Millimeters x .039370 = Inches	Inches x 25.4001 = Millimeters
Meters x 39.370 = Inches	Inches x .0254 = Meters
Meters x 3.2808 = Feet	Feet x .30480 = Meters
Meters x 1.09361 = Yards	Yards x .91440 = Meters
Kilometers x 3,280.8 = Feet	Feet x .0003048 = Kilometers
Kilometers x .62137 = Statute Mile	Statute Miles x 1.60935 = Kilometers
Kilometers x .53959 = Nautical Miles	Nautical Miles x 1.85325 = Kilometers

### Weight Conversion Constants

Grams x .03527 = Ounces (Avd.)	Ounces (Avd.) x 28.35 = Grams
Grams x .033818 = Fluid Ounces (Water)	Fluid Ounces (Water) x 29.57 = Grams
Kilograms x 35.27 = Ounces (Avd.)	Ounces (Avd.) x .02835 = Kilograms
Kilograms x 2.20462 = Pounds (Avd.)	Pounds (Avd.) x .45359 = Kilograms

## Force Chart Force (In Pounds)

Hose I.D.	25 PSI	50 PSI	75 PSI	100 PSI	150 PSI	200 PSI	250 PSI	300 PSI	500 PSI	1000 PSI
1/4"	1	2	4	5	7	10	12	15	25	49
3/8"	3	6	8	11	17	22	28	33	55	110
1/2"	5	10	15	20	29	39	49	59	98	196
3/4"	11	22	33	44	66	88	110	133	221	442
1"	20	39	59	79	118	157	196	236	393	785
1-1/4"	31	61	92	123	184	245	307	368	614	1227
1-1/2"	44	88	133	177	265	353	442	530	884	1767
2"	79	157	236	314	471	628	785	942	1571	3142
2-1/2"	123	245	368	491	736	982	1227	1473	2454	4909
3"	177	353	530	707	1060	1414	1767	2121	3534	7069
4"	314	628	942	1257	1885	2513	3142	3770	6283	12566
5"	491	982	1473	1964	2945	3927	4909	5891	9818	19635
6"	707	1414	2121	2827	4241	5655	7069	8482	14137	28274
8"	1257	2513	3770	5027	7540	10053	12566	15080	25133	50266
10"	1964	3927	5891	7854	11781	15708	19635	23562	39270	78540
12"	2827	5655	8482	11310	16965	22620	28274	33929	56549	113098

Note: For hose ID's from 1-1/4" to 12" the force in pounds is greater than the PSI.

- Force is the dynamic power which is exported longitudinally through a hose, towards the ends. To arrive at the number of pounds of force exerted, you merely multiply the area of the ID times the working pressure being used.
- Area of a circle:  $\pi \times r^2$  (PI [3.1416] times radius squared)
- Force = Area x Pressure

Fraction - Decimal Conversion Chart

	Inches	Millimeters		Inches	Millimeters
$\frac{1}{32}$	$\frac{1}{64}$ .015625	.3969	$\frac{17}{32}$	$\frac{33}{64}$ .515625	13.0969
$\frac{1}{16}$	.03125	.7938	$\frac{9}{16}$	$\frac{35}{64}$ .546875	13.8907
$\frac{3}{32}$	$\frac{3}{64}$ .046875	1.1906	$\frac{19}{32}$	$\frac{37}{64}$ .578125	14.6844
$\frac{1}{8}$	.0625	1.5875	$\frac{5}{8}$	$\frac{39}{64}$ .609375	15.4782
$\frac{5}{32}$	$\frac{5}{64}$ .078125	1.9844	$\frac{21}{32}$	$\frac{41}{64}$ .640625	16.2719
$\frac{3}{16}$	.09375	2.3813	$\frac{11}{16}$	$\frac{43}{64}$ .671875	17.0657
$\frac{7}{32}$	$\frac{7}{64}$ .109375	2.7781	$\frac{23}{32}$	$\frac{45}{64}$ .703125	17.8594
$\frac{1}{4}$	.125	3.1750	$\frac{3}{4}$	$\frac{47}{64}$ .734375	18.6532
$\frac{5}{16}$	$\frac{9}{64}$ .140625	3.5719	$\frac{25}{32}$	$\frac{49}{64}$ .765625	19.4470
$\frac{3}{8}$	.15625	3.9688	$\frac{13}{16}$	$\frac{51}{64}$ .796875	20.2407
$\frac{11}{32}$	$\frac{11}{64}$ .171875	4.3656	$\frac{27}{32}$	$\frac{53}{64}$ .828125	21.0345
$\frac{1}{2}$	.1875	4.7625	$\frac{7}{8}$	$\frac{55}{64}$ .859375	21.8282
$\frac{5}{8}$	$\frac{13}{64}$ .203125	5.1594	$\frac{29}{32}$	$\frac{57}{64}$ .890625	22.6220
$\frac{3}{4}$	.21875	5.5563	$\frac{15}{16}$	$\frac{59}{64}$ .921875	23.4157
$\frac{7}{8}$	$\frac{15}{64}$ .234375	5.9531	$\frac{31}{32}$	$\frac{61}{64}$ .953125	24.2095
$1$	.250	6.3500	$\frac{1}{2}$	$\frac{63}{64}$ .984375	25.0032
$\frac{1}{8}$	$\frac{17}{64}$ .265625	6.7469	$1$	1.000	25.4001
$\frac{1}{4}$	.28125	7.1438			
$\frac{1}{2}$	$\frac{19}{64}$ .296875	7.5406			
$\frac{3}{4}$	.3125	7.9375			
$1$	$\frac{21}{64}$ .328125	8.3344			
$\frac{1}{4}$	.34375	8.7313			
$\frac{1}{2}$	$\frac{23}{64}$ .359375	9.1282			
$\frac{3}{4}$	.375	9.5250			
$1$	$\frac{25}{64}$ .390625	9.9219			
$\frac{1}{4}$	.40625	10.3188			
$\frac{1}{2}$	$\frac{27}{64}$ .421875	10.7157			
$\frac{3}{4}$	.4375	11.1125			
$1$	$\frac{29}{64}$ .453125	11.5094			
$\frac{1}{4}$	.46875	11.9063			
$\frac{1}{2}$	$\frac{31}{64}$ .484375	12.3032			
$\frac{3}{4}$	.500	12.7001			



# Fittings Size Chart

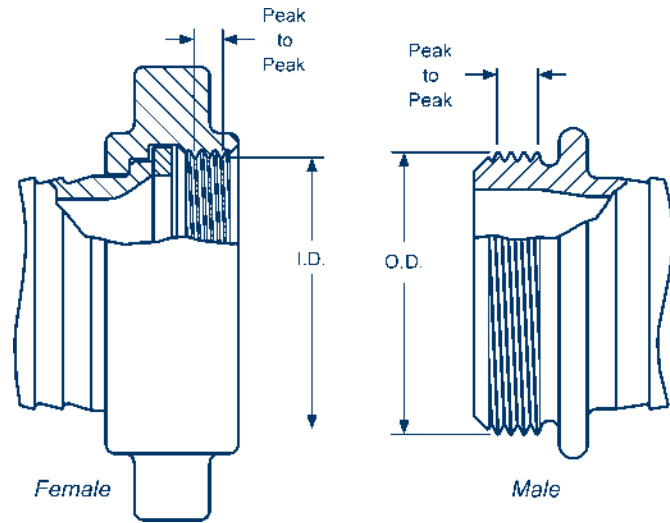
## Male NPT Thread Sizes

1-1/4	1/8
	1/4
1-1/2	3/8
	1/2
2	3/4
	1

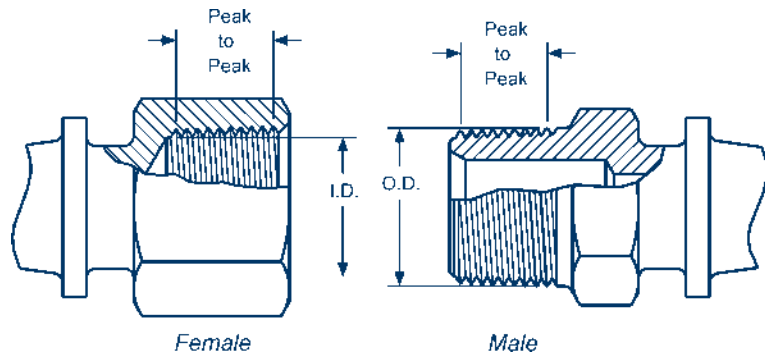
## Male NST Thread Sizes

2-1/2	1-1/2
-------	-------

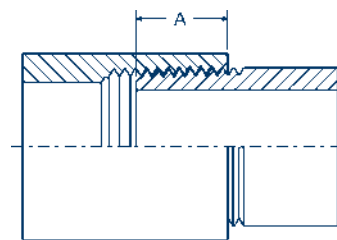
### Straight Thread



### Tapered Thread



### Normal Engagement Length of NPT Thread in Inches ("A") \*



\* Dimensions given do not allow for variations in tapping or threading.

Thread Size	"A"	Thread Size	"A"
1/8"	1/4"	2-1/2"	15/16"
1/4"	3/8"	3"	1"
3/8"	3/8"	4"	1-1/8"
1/2"	1/2"	5"	1-1/4"
3/4"	9/16"	6"	1-5/16"
1"	11/16"	8"	1-7/16"
1-1/4"	11/16"	10"	1-5/8"
1-1/2"	11/16"	12"	1-3/4"
2"	3/4"		

## Identifying Threads

*It is important to identify the threads required before ordering couplings.*

Identifying threads can sometimes be the most difficult and frustrating part of coupling selection. However, without the right combination of threads, you may not provide a functional or safe connection.

The diameters, threads per inch (TPI) and thread pitch, etc. are necessary to completely identify a thread. Ring, Plug and GO/NOGO gauges are required to accurately gauge or identify threads. In the field, in the absence of these gauges, thread leaf gauges can be used to identify the "Threads Per Inch" (TPI) and the thread pitch. On threads you have determined to be straight threads, a caliper can be used to measure the "Outside Diameter of the Male" (ODM) or the "Inside Diameter of the Female" (IDF). A caliper can also be used to take measurements of tapered thread diameters. However, these are more difficult to define because of the taper. Fortunately, there are few tapered threads to deal with and these can usually be identified from the nominal ODM and the TPI.

However, identifying the thread may not fully identify what is needed in a mating fitting. The application is the primary **limiting factor on the thread type used**. Dixon offers products with a wide variety of threads used with hose, pipe and hydraulics.

When attempting to choose a fitting, it is always advisable to first identify the thread to which it must connect. This may entail checking with a fitting or equipment manufacturer.

**The fire hose thread specifications for some local municipal fire equipment and hydrants may vary according to local specifications.** *These can generally be most easily identified by contacting the local fire department responsible for the hydrant.* The most common thread used on fire equipment is National Standard Thread (NST), also known as National Hose thread (NH).

### When it is not possible to identify the thread:

- 1) Determine the number of threads per inch by measuring the distance from peak of thread to peak of thread across the largest number of whole threads. Then divide the number of threads by the measurement (This will provide the TPI).
- 2) Check to see if the thread is straight or tapered.

#### a) Straight Threads

Measure the "Outside Diameter of the Male" (ODM) or the "Inside Diameter of the Female" (IDF), from peak of thread to peak of thread.

#### b) Tapered Threads

Measure the "Outside Diameter of the Male" (ODM) at the large end and the small end, or the "Inside Diameter of the Female" (IDF) at the large end and the small end, from peak of thread to peak of thread. Then measure the Outside Diameter (OD) of the unthreaded pipe.

Once the application and these two pieces of information have been determined, the thread can generally be determined. When in doubt, *contact the factory.*

## Thread Dimensions

### Nominal Dimensions of Standard Threads

ODM -- Outside Diameter of the Male

IDF -- Inside Diameter of the Female

TPI -- Threads Per Inch

Size	Pipe O.D.	Tapered Threads		Straight Threads											
		NPT	BSPT <sub>r</sub>	NPSH			NPSM			NST (NH)			BSPP		
		TPI	TPI	TPI	ODM (max)	IDF (min)	TPI	ODM (max)	IDF (min)	TPI	ODM (max)	IDF (min)	TPI	ODM (max)	IDF (min)
1/8"	.405	27	28				27	0.397	0.358					0.383	0.337
1/4"	.504	18	19				18	0.526	0.468					0.516	0.450
3/8"	.675	18	19				18	0.662	0.603					0.656	0.588
1/2"	.840	14	14	14	0.8248	0.7395	14	0.823	0.747					0.825	0.733
3/4"	1.050	14	14	14	1.0353	0.9500	14	1.034	0.958	8	1.375	1.2246		1.041	0.950
1"	1.315	11.5	11	11.5	1.2951	1.1921	11.5	1.293	1.201	8	1.375	1.2246	11	1.309	1.193
1-1/4"	1.660	11.5	11	11.5	1.6399	1.5369	11.5	1.638	1.546				11	1.650	1.534
1-1/2"	1.900	11.5	11	11.5	1.8788	1.7758	11.5	1.877	1.785	9	1.990	1.8577		1.882	1.766
2"	2.375	11.5	11	11.5	2.3528	2.2498	11.5	2.351	2.259				11	2.347	2.231
2-1/2"	2.875	8	11	8	2.8434	2.6930	8	2.841	2.708	7.5	3.068	2.9104	11	2.960	2.844
3"	3.500	8	11				8	3.467	3.334	6	3.623	3.5306	11	3.460	3.344
4"	4.500	8	11				8	4.466	4.333	4	5.010	4.7111		4.450	4.334
4-1/2"										4	5.760	5.4611	11		
5"	5.563	8	11				8	5.528	5.395	4	6.260	5.9602	11	5.450	5.359
6"	6.625	8	11				8	6.585	6.452	4	7.025	6.7252		6.450	6.359
8"	8.625	8													
10"	10.750	8													
12"	12.750	8													

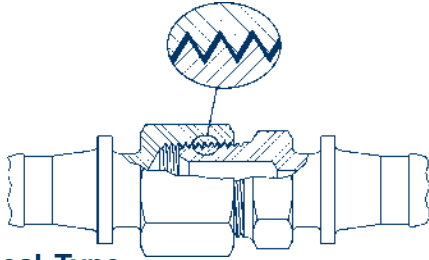
GHT (3/4") -- 1.0625 ODM, 11-1/2 TPI

NOTE: Female NPT (Tapered Pipe) thread is not available on hose swivel nuts.

## Threading Information

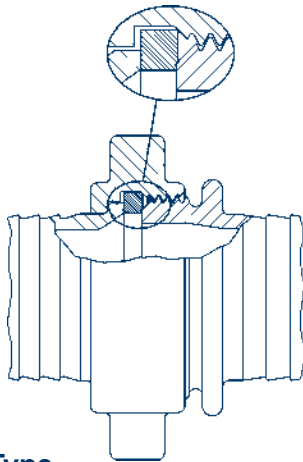
Abbreviation	System Name	Compatibility	Seal Method
<b>BSPP</b>	<b>British Standard Pipe Parallel</b>	Male BSPP with Female BSPP Female BSPP with Male BSPP Female BSPP with Male BSPT <sub>r</sub>	Washer Washer Washer
<b>BSPT<sub>r</sub></b>	<b>British Standard Pipe Taper</b>	Male BSPT <sub>r</sub> with Female BSPT <sub>r</sub> Male BSPT <sub>r</sub> with Female BSPP Female BSPT <sub>r</sub> with Male BSPT <sub>r</sub> <i>Female BSPT<sub>r</sub> not compatible with Male BSPP</i>	Thread Washer Thread
<b>CHT</b>	American Standard Fire Hose Thread (1" National Hose Thread is <b>C</b> hemical <b>H</b> ose <b>T</b> hread, also known as Booster Hose Thread)	1" Male NH (NST) with 1" Female NH (NST) 1" Female NH (NST) with 1" Male NH (NST) 1" Thread is used on both 3/4" hose and 1" hose. <i>Not compatible with other systems</i>	Washer Washer
<b>GHT</b>	<b>G</b> arden <b>H</b> ose <b>T</b> hread	Male GHT with Female GHT Female GHT with Male GHT Thread is same for all size hose <i>Not compatible with other systems</i>	Washer Washer
<b>IPS</b>	<b>I</b> ron <b>P</b> ipe <b>S</b> traight Thread	Generic Name for Straight Pipe Thread See NPSH for compatibility	Washer
<b>IPT</b>	<b>I</b> ron <b>P</b> ipe <b>T</b> hread	Generic Name for All Pipe Thread <i>More information required</i>	
<b>JIC</b>	<b>J</b> oint <b>I</b> ndustrial <b>C</b> ommittee	Used with other mating JIC threads	Mechanical
<b>NH</b> <i>or</i> <b>NST</b>	American Standard Fire Hose Coupling Thread ( <b>N</b> ational <b>H</b> ose thread also known as <b>N</b> ational <b>S</b> tandard <b>T</b> hread)	Male NH (NST) with Female NH (NST) Female NH (NST) with Male NH (NST) <i>Not compatible with other systems</i> Thread pitch and diameters of fire threads may vary according to local and municipal regulations.	Washer Washer
<b>NPT</b>	American Standard Taper Pipe Thread ( <b>N</b> ational <b>P</b> ipe <b>T</b> apered)	Male NPT with Female NPT Male NPT with Female NPTF Male NPT with Female NPSM Male NPT with Female NPSH Female NPT with Male NPT Female NPT with Male NPTF Female NPT not compatible with Male NPSM or Male NPSH	Thread Thread Washer Washer Thread Thread
<b>NPTF</b>	American Standard Taper Pipe Fuel Dryseal Thread ( <b>N</b> ational <b>P</b> ipe <b>T</b> apered)	Male NPTF with Female NPTF Male NPTF with Female NPT Male NPTF with Female NPSM Male NPTF with Female NPSH Female NPTF with Male NPTF Female NPTF with Male NPT <i>Female NPTF with Male NPSM or NPSH</i> <i>Note: NPTF with NPTF threads do not require sealant for the initial use. After that, sealant is required.</i>	Thread Thread Washer Washer Thread Thread <i>Not Compatible</i>
<b>NPSH</b>	American Standard Straight Pipe for Hose Couplings ( <b>N</b> ational <b>P</b> ipe <b>S</b> traight <b>H</b> ose)	Male NPSH with Female NPSH Female NPSH with Male NPSH Female NPSH with Male NPT Female NPSH with Male NPTF Female NPSH with Male NPSM	Washer Washer Washer Washer Washer
<b>NPSM</b>	American Standard Straight Mechanical Joints ( <b>N</b> ational <b>P</b> ipe <b>S</b> traight <b>M</b> echanical)	Male NPSM with Female NPSM Male NPSM with Female NPSH Female NPSM with Male NPSM Female NPSM with Male NPT Female NPSM with Male NPTF	Seal can be either mechanical or washer. Mating fittings must be of same type.
<b>SIPT</b>	<b>S</b> traight <b>I</b> ron <b>P</b> ipe <b>T</b> hread	Generic name for Straight Pipe Thread	Washer
<b>TIPT</b>	<b>T</b> apered <b>I</b> ron <b>P</b> ipe <b>T</b> hread	Generic name for Tapered Pipe Thread	Thread

## Thread Sealing Tips



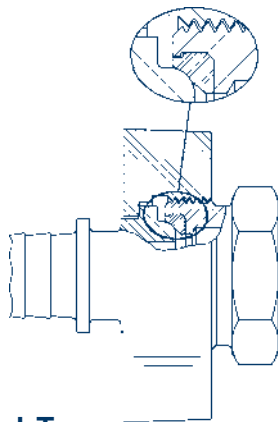
### Thread Seal Type

- A seal is obtained by applying a sealant to the male thread before engaging.
- The sealant is used to prevent spiral leakage.
- Thread tape or paste is the preferred sealant in this type of application.



### Washer Seal Type

- A seal is obtained when the male thread is tightened down onto the washer of the female assembly.
- The washer should be inspected regularly and replaced as needed to prevent leakage.



### Mechanical Seal Type

- A seal is obtained through metal to metal contact or metal to seal contact, i.e. JIC couplings have a metal to metal seal. EZ-Boss Ground Joint couplings have a metal to seal contact, (shown above).
- The couplings should be retightened as needed to prevent leakage.

### Thread Sealing Tips

Sealing N.P.T. threads can be an exasperating experience if certain techniques are not followed. The following tips will help alleviate many common problems in thread sealing:

1. Always use some type of sealant (tape or paste) and apply sealant to male thread only. If using a hydraulic sealant, allow sufficient curing time before system is pressurized.
2. When using tape sealant, wrap the threads in a clockwise motion starting at the first thread and, as layers are applied, work towards the imperfect (vanishing) thread. If the system that the connection being made to cannot tolerate foreign matter (i.e. air systems), leave the first thread exposed and apply the tape sealant as outlined above.
3. When using paste sealant, apply to threads with a brush, using the brush to work the sealant into the threads. Apply enough sealant to fill in all the threads all the way around.
4. When connecting one stainless steel part to another stainless steel part that will require future disassembly, use a thread sealant that is designed for stainless steel. This stainless steel thread sealant is also useful when connecting aluminum to aluminum that needs to be disconnected in the future. These two materials gall easily, and if the correct sealant is not used, it can be next to impossible to disassemble.
5. When connecting parts made of dissimilar metals (i.e. steel and aluminum), standard tape or paste sealant performs satisfactory.
6. For sizes 2" and below, tape or paste performs satisfactory. When using thread tape, four wraps (covering all necessary threads) is usually sufficient.
7. For sizes 2-1/2" and above, thread paste is recommended. If thread tape is used, eight wraps (covering all necessary threads) is usually sufficient. Apply more wraps if necessary.
8. For stubborn to seal threads, apply a normal coating of thread paste followed by a normal layer of thread tape.
9. For *extremely* stubborn to seal threads, apply a normal coating of thread paste followed by a single layer of gauze bandage followed by a normal layer of thread tape.

### Caution!

When this procedure is done, the connection becomes permanent. Extreme measures will be necessary to disconnect these components. All other measures to seal the threads should be explored prior to use of this technique.

10. Over-tightening threads can be just as detrimental as insufficient tightening. For sizes 2" and below, hand tighten the components and, with a wrench, tighten 3 full turns. For sizes 2-1/2" and above, hand tighten the components and, with a wrench, tighten 2 full turns.

## Pipe Dimensions

### Dimensions of Seamless and Welded Steel Pipe ASA-B36.10 and B36.19

Nominal Pipe Size	Outside Diameter	Pipe Schedule Wall Thickness												
		10	20	30	Stand.	40	60	Extra Strong	80	100	120	140	160	XXX Strong
1/8"	0.405"	0.049	-----	-----	0.068	0.068	-----	0.095	0.095	-----	-----	-----	-----	-----
1/4"	0.540"	0.065	-----	-----	0.088	0.088	-----	0.119	0.119	-----	-----	-----	-----	-----
3/8"	0.675"	0.065	-----	-----	0.091	0.091	-----	0.126	0.126	-----	-----	-----	-----	-----
1/2"	0.840"	0.083	-----	-----	0.109	0.109	-----	0.147	0.147	-----	-----	-----	0.188	0.294
3/4"	1.050"	0.083	-----	-----	0.113	0.113	-----	0.154	0.154	-----	-----	-----	0.219	0.308
1"	1.315"	0.109	-----	-----	0.133	0.133	-----	0.179	0.179	-----	-----	-----	0.250	0.358
1-1/4"	1.660"	0.109	-----	-----	0.140	0.140	-----	0.191	0.191	-----	-----	-----	0.250	0.382
1-1/2"	1.900"	0.109	-----	-----	0.145	0.145	-----	0.200	0.200	-----	-----	-----	0.281	0.400
2"	2.375"	0.109	-----	-----	0.154	0.154	-----	0.218	0.218	-----	-----	-----	0.344	0.436
2-1/2"	2.875"	0.120	-----	-----	0.203	0.203	-----	0.276	0.276	-----	-----	-----	0.375	0.552
3"	3.500"	0.120	-----	-----	0.216	0.216	-----	0.300	0.300	-----	-----	-----	0.438	0.600
3-1/2"	4.000"	0.120	-----	-----	0.226	0.226	-----	0.318	0.318	-----	-----	-----	-----	-----
4"	4.500"	0.120	-----	-----	0.237	0.237	-----	0.337	0.337	-----	0.438	-----	0.531	0.674
5"	5.563"	0.134	-----	-----	0.258	0.258	-----	0.375	0.375	-----	0.500	-----	0.625	0.750
6"	6.625"	0.134	-----	-----	0.280	0.280	-----	0.432	0.432	-----	0.562	-----	0.719	0.864
8"	8.625"	0.148	0.250	0.277	0.322	0.322	0.406	0.500	0.500	0.594	0.719	0.812	0.906	0.873
10"	10.750"	0.165	0.250	0.307	0.365	0.365	0.500	0.500	0.594	0.719	0.844	1.000	1.125	1.000
12"	12.750"	0.180	0.250	0.330	0.375	0.406	0.562	0.500	0.688	0.844	1.000	1.125	1.312	1.000

## Maximum Recommended Air Flow (SCFM) Through ANSI Standard Weight Schedule 40 Pipe

The flow values in the table below are based on a pressure drop of 10% of the applied pressure per 100 feet of pipe for 1/8", 1/4", 3/8", and 1/2" pipe sizes; and a pressure drop of 5% of the applied pressure per 100 feet of pipe for 3/4", 1", 1-1/4", 2", 2-1/2", 3" pipe sizes. The table gives recommended flows for pipe sizes at listed pressures and should be used to determine appropriate piping for air systems.

Applied Pressure PSI	Nominal Standard Pipe Size										
	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
<b>5</b>	0.5	1.2	2.7	4.9	6.6	13	27	40	80	135	240
<b>10</b>	0.8	1.7	3.9	7.7	11.0	21	44	64	125	200	370
<b>20</b>	1.3	3.0	6.6	13.0	18.5	35	75	110	215	350	600
<b>40</b>	2.5	5.5	12.0	23.0	34.0	62	135	200	385	640	1100
<b>60</b>	3.5	8.0	18.0	34.0	50.0	93	195	290	560	900	1600
<b>80</b>	4.7	10.5	23.0	44.0	65.0	120	255	380	720	1200	2100
<b>100</b>	5.8	13.0	29.0	54.0	80.0	150	315	470	900	1450	2600
<b>150</b>	8.6	20.0	41.0	80.0	115.0	220	460	680	1350	2200	3900
<b>200</b>	11.5	26.0	58.0	108.0	155.0	290	620	910	1750	2800	5000
<b>250</b>	14.5	33.0	73.0	135.0	200.0	370	770	1150	2200	3500	6100

### Water Data and Formulas

1 gallon water = 231 cubic inches = 8.333 pounds

1 pound of water = 27.7 cubic inches

1 cubic foot water = 7.5 gallons = 62.5 pounds (salt water weighs approximately 64.3 pounds per cubic foot)

Pounds per square inch at bottom of a column of water = height of column in feet x .434

1 miner's inch = 9 to 12 gallons per minute

**Horsepower to Raise Water**

If pumping liquid other than water, multiply the gallons per minute below by the liquids specific gravity

$$\text{Horsepower} = \frac{\text{gallons per minute} \times \text{total head in feet}}{3960}$$

**Gallons Per Minute through a Pipe**

GPM = .0408 x pipe diameter inches<sup>2</sup> x feet/minute water velocity

**Weight of Water in a Pipe**

Pounds water = pipe length feet x pipe diameter inches<sup>2</sup> x .34

Distance (inches)	Gallons per Minute Discharge for a Given Nominal Pipe Diameter (inches)				
	5	6	8	10	12
5	163	—	—	—	—
6	195	285	—	—	—
7	228	334	580	—	—
8	260	380	665	1060	—
9	293	430	750	1190	1660
10	326	476	830	1330	1850
11	360	525	915	1460	2020
12	390	570	1000	1600	2220
13	425	620	1080	1730	2400
14	456	670	1160	1860	2590
15	490	710	1250	2000	2780
16	520	760	1330	2120	2960
17	550	810	1410	2260	3140
18	590	860	1500	2390	3330
19	620	910	1580	2520	3500
20	650	950	1660	2660	3700
21	685	1000	1750	2800	3890
22	720	1050	1830	2920	4060
23	750	1100	1910	3060	4250
24	—	1140	2000	3200	4440

### Water Discharge Table

This table is intended for general reference and general applicability only, and should not be relied upon as the sole or precise source of information available with respect to the subject covered. The user should also refer to and follow manufacturer's specific instructions and recommendations with regard to such information, where they exist.

Flow of water through 100 foot lengths of hose, Straight-Smooth Bore - U.S. Gallons per minute

PSI at Hose Inlet	Nominal Hose I.D. Diameters - Inches							
	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
20	26	47	76	161	290	468	997	2895
30	32	58	94	200	360	582	1240	3603
40	38	68	110	234	421	680	1449	4209
50	43	77	124	264	475	767	1635	4748
60	47	85	137	291	524	846	1804	5239
75	53	95	154	329	591	955	2035	5910
100	62	112	180	384	690	1115	2377	6904
125	70	126	203	433	779	1258	2681	7788
150	77	139	224	478	859	1388	2958	8593
200	90	162	262	558	1004	1621	3455	10038

Figures are to be used as a guide since the hose inside diameter tolerance, the type of fittings used, and orifice restriction all influence the actual discharge. Thus, variations plus or minus from the table may be obtained in actual service.

### Conversion Table - Feet of Water to Inches of Mercury

Feet of Water	1	2	4	6	8	10	12	14	16	20	22	24	26	28	30	32	34
Inches of Mercury	0.9	1.8	3.5	5.3	7.1	8.8	10.6	12.4	14.1	17.7	19.4	21.2	23.0	24.8	26.5	28.3	30.0



## Procedure 1000

### Boss Clamp Selection

- Measure the hose ID (Inside Diameter).
- Measure the hose 'free' OD (Outside Diameter) with a diameter tape. 'Free' OD is measured before the stem is inserted.
- Locate the Hose ID in the Size column on the Boss Clamp page 19.
- Locate the section in that column that corresponds with the hose ID.
- From that section, find the clamp in the Hose OD From/To columns that best fits the hose OD just measured.
- Select the proper clamp material based on the environmental compatibility requirements.

## Procedure 2000

### Installation of Boss 2 Bolt Clamp

- Prepare the hose.
- Place the stem in a vise.
- Select the proper Boss Clamp. (see page 19)
- Position the clamp gripping fingers behind the stem collar.
- Tighten the bolts by hand until there is equal thread engagement.
- Bolt tightening sequence is as follows:
  1. Front bolt, 1 full turn.
  2. Opposite side front bolt, 1 full turn.
  3. Repeat 1 and 2 until all bolts are tightened to recommended torque.
  4. Remove assembly from vise.
- Test assembly if required.

## Procedure 2001

### Installation of Boss 4 Bolt Clamp

- Prepare the hose.
- Place the stem in a vise.
- Select the proper Boss Clamp. (see page 19)
- Position the clamp gripping fingers behind the stem collar.
- Tighten the bolts by hand until there is equal thread engagement.
- Bolt tightening sequence is as follows:
  1. Back bolt, 1 full turn.
  2. Front bolt, 1 full turn.
  3. Snug by hand, nuts on opposite side of bolts just tightened.
  4. Opposite side back bolt, 1 full turn.
  5. Opposite side front bolt, 1 full turn.
  6. Snug by hand, nuts on opposite side of bolts just tightened.
  7. Repeat 1 to 6 until all bolts are tightened to recommended torque.
  8. Remove assembly from vise.
- Test assembly if required.

## Procedure 2300

### Installation of King Safety Cable

- For Hose to Tool Installations
  1. Select proper King Safety Cable. (see page 37)
  2. Loosen cinch on cable (end without spring).
  3. Loop the cable over tool or connection.
  4. Tighten cinch.
  5. Open the cable loop (spring side) and slide it over the hose end.
  6. Attach hose to tool.
  7. Remove slack from cable by sliding cable loop as far away from tool as possible.
- For Hose to Hose Installations
  1. Select proper King Safety Cable. (see page 37)
  2. Open the cable loop on one end and slide it over the coupling of one hose.
  3. Open the cable loop on the other end and slide it over the coupling on the other hose.
  4. Connect the hoses.
  5. Remove slack by sliding both cable loops equally as far apart as possible.

*Procedure 2306*

## **Crimping Unirange, Air King (WF), Dix-Lock (WF), and Dual-Lock (WF) Couplings**

- Prepare the hose.
- Select the proper fitting from the Holedall Die Chart or the current Dixon catalog (DPL).
- From the Holedall Die Chart, determine proper crimp diameter and crimp length.
- Depending upon type of crimper, set crimp diameter on machine or select die cage and spacers to achieve required crimp diameter.
- Measure the distance from the end of the ferrule to the stem collar. Place a mark (line) on the hose (from the hose end) corresponding with this distance.
- Insert the coupling into the hose until the end of the ferrule is even with the line just placed on the hose.
- Mark the crimp length on the ferrule.
- Insert the coupling through the crimper die segments until the line on the ferrule is at the end of the die segments. Jog the machine until the die segments lightly contact the ferrule. Adjust fitting, if necessary, to ensure line is at end of die segments.
- With light pressure on hose to ensure stem collar is contacting ferrule, activate the crimper until desired crimp diameter has been achieved.
- Reverse machine and remove the coupling from the die segments. Measure the crimp diameter with dial calipers or micrometer.
- Test assembly if required.

*Procedure 3001*

## **Bolt Clamp Inspection**

*All Bolt Clamps*

1. Prior to initial use, check to ensure that the clamp is appropriate for the hose and application.
2. Prior to initial use and at each subsequent inspection interval, make sure each clamp has its full accompaniment of bolts and nuts. If any bolts and nuts are missing, call your local authorized Dixon distributor or call Dixon Valve & Coupling Company at 1-800-355-1991. Replacing a missing bolt and nut with any bolt and nut other than that supplied by Dixon could affect its function and safety.
3. Prior to initial use of assembly and prior to each subsequent use after storage, tighten all bolts on each clamp to their recommended torque rating, in the order defined in the installation instructions. Over tightening can damage the bolt and /or clamp and affect its function and safety. Reference current Dixon catalog (DPL) for torque ratings. (see page 19)
4. For assemblies that are in constant service (connected whether product is being conveyed or not), retighten all bolts on each clamp to their recommended torque rating every month. **Do not tighten bolts while assembly is pressurized. Doing so can result in injury or death and damage or destruction of property if hose and couplings separate.**
5. Inspect for slippage between hose and coupling prior to each use or at each inspection interval. If 1/16" or more slippage has occurred, repair assembly before returning to service. If 1/16" or more slippage has occurred while assembly is in service, remove assembly from service for repair or replacement.

*Bolt Clamps With Gripping Fingers*

1. Prior to initial use of assembly, paint junction of hose and clamp. This will bear evidence if slippage between hose and coupling occurs.
2. Prior to each use or at each inspection interval, inspect each clamp as follows:
  - A. Bolt lugs for cracks.
  - B. Junction of bolt lugs and clamp body for cracks.
  - C. Clamp body for cracks.
  - D. Gripping fingers for cracks.
  - E. Missing gripping fingers.
  - F. Bolt lugs for excessive wear (worn down to bolt hole).
  - G. Clamp body for excessive wear. Lettering detail (ex: "DIXON") worn off.
  - H. Clamp halves bottomed out (contacting each other).
  - I. Gripping fingers bottomed out (contacting stem) in groove behind collar.

If any of the above conditions exist, do not place assembly in service or remove assembly from service.

*A printed copy of the complete Installation and Inspection Procedures Manual is available upon request.*

Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining and manufacturing.



*The Right Connection™*

**Dixon Valve & Coupling Company**

800 High Street, Chestertown, MD 21620

Customer Service: 800.355.1991

Fax: 800.283.4966

**dixonvalve.com**

# Threaded Pipe Fittings



*The Right Connection™*

## NPT Threaded Pipe Fittings

### Reducer Hex Bushings



150# iron  
HB2010



galvanized  
HB2010G



316 stainless steel  
HB2010SS



forged steel  
HB2010FS



brass  
HB2010B

Male NPT	Female NPT	150# Iron Part #	Galvanized Part #	316 Stainless Steel Part #	Forged Steel Part #	Brass Part #
1/4"	1/8"	HB2518	HB2518G	HB2518SS	HB2518FS	---
3/8"	1/8"	HB3818	---	---	---	---
3/8"	1/4"	HB3825	HB3825G	HB3825SS	HB3825FS	---
1/2"	1/8"	HB5018	---	---	---	---
1/2"	1/4"	HB5025	HB5025G	HB5025SS	HB5025FS	---
1/2"	3/8"	HB5038	HB5038G	HB5038SS	HB5038FS	---
3/4"	1/8"	HB7518	---	---	---	---
3/4"	1/4"	HB7525	HB7525G	HB7525SS	HB7525FS	---
3/4"	3/8"	HB7538	HB7538G	HB7538SS	HB7538FS	---
3/4"	1/2"	HB7550	HB7550G	HB7550SS	HB7550FS	---
1"	1/8"	HB1018	---	---	---	---
1"	1/4"	HB1025	HB1025G	HB1025SS	HB1025FS	---
1"	3/8"	HB1038	HB1038G	HB1038SS	HB1038FS	---
1"	1/2"	HB1050	HB1050G	HB1050SS	HB1050FS	---
1"	3/4"	HB1075	HB1075G	HB1075SS	HB1075FS	---
1-1/4"	1/2"	HB1250	---	---	---	---
1-1/4"	3/4"	HB1275	---	HB1275SS	HB1275FS	---
1-1/4"	1"	HB1210	HB1210G	HB1210SS	HB1210FS	HB1210B
1-1/2"	1/2"	HB1550	---	---	---	---
1-1/2"	3/4"	HB1575	HB1575G	HB1575SS	HB1575FS	HB1575B
1-1/2"	1"	HB1510	HB1510G	HB1510SS	HB1510FS	HB1510B
1-1/2"	1-1/4"	HB1512	HB1512G	HB1512SS	HB1512FS	HB1512B
2"	1/2"	HB2050	HB2050G	---	---	HB2050B
2"	3/4"	HB2075	HB2075G	HB2075SS	HB2075FS	HB2075B
2"	1"	HB2010	HB2010G	HB2010SS	HB2010FS	HB2010B
2"	1-1/4"	HB2012	HB2012G	HB2012SS	HB2012FS	HB2012B
2"	1-1/2"	HB2015	HB2015G	HB2015SS	HB2015FS	HB2015B
2-1/2"	1-1/2"	HB2515	---	---	---	---
2-1/2"	2"	HB2520	HB2520G	HB2520SS	HB2520FS	---
3"	1"	HB3010	---	---	---	---
3"	1-1/2"	HB3015	---	---	---	---
3"	2"	HB3020	HB3020G	HB3020SS	HB3020FS	HB3020B
3"	2-1/2"	HB3025	---	HB3025SS	HB3025FS	HB3025B
4"	1"	HB4010	---	---	---	---
4"	1-1/2"	HB4015	---	---	---	---
4"	2"	HB4020	HB4020G	HB4020SS	---	HB4020B
4"	2-1/2"	HB4025	---	---	---	---
4"	3"	HB4030	HB4030G	HB4030SS	HB4030FS	HB4030B
5"	4"	HB5040	---	---	---	---
6"	3"	HB6030	---	---	---	---
6"	4"	HB6040	---	---	---	---

NPT Threaded Pipe Fittings

Reducing Union



150# iron  
MIRU7550

Female NPT	150# Iron Part #
3/4" x 1/2"	MIRU7550

Threaded Unions



150# iron  
MIU150



galvanized  
TUN150G



316 stainless steel  
TUN150SS



forged steel  
TUN100FS



brass  
TUN8F

- 304 stainless steel and other sizes are available, consult the factory for pricing and availability

Female NPT	150# Iron Part #	Galvanized Part #	316 Stainless Steel Part #	Forged Steel Part #	Brass Part #
1/8"	MIU18	---	---	---	---
1/4"	MIU25	---	TUN025SS	---	TUN2F
3/8"	MIU38	---	---	---	TUN3F
1/2"	MIU50	TUN050G	TUN050SS	TUN050FS	TUN4F
3/4"	MIU75	TUN075G	TUN075SS	TUN075FS	TUN5F
1"	MIU100	TUN100G	TUN100SS	TUN100FS	TUN6F
1-1/4"	MIU125	TUN125G	TUN125SS	---	TUN7F
1-1/2"	MIU150	TUN150G	TUN150SS	TUN150FS	TUN8F
2"	MIU200	TUN200G	TUN200SS	TUN200FS	TUN9F
2-1/2"	MIU250	---	---	---	---
3"	MIU300	---	---	---	---
4"	MIU400	---	---	---	---



## NPT Threaded Pipe Fittings

### Threaded Bell Reducers



150# iron  
BR1075



galvanized  
BR1075G



316 stainless steel  
BR1075SS



forged steel  
BR1075FS



brass  
BR1075B

- 304 stainless steel and other sizes are available, consult the factory for pricing and availability

Female NPT	Female NPT	150# Iron Part #	Galvanized Part #	316 Stainless Steel Part #	Forged Steel Part #	Brass Part #
3/8"	1/4"	---	---	BR3825SS	---	---
1/2"	1/4"	BR5025	BR5025G	BR5025SS	---	---
1/2"	3/8"	BR5038	BR5038G	BR5038SS	BR5038FS	BR5038B
3/4"	1/4"	BR7525	---	---	---	---
3/4"	3/8"	BR7538	---	BR7538SS	---	---
3/4"	1/2"	BR7550	BR7550G	BR7550SS	BR7550FS	BR7550B
1"	1/4"	BR1025	---	---	---	---
1"	3/8"	BR1038	---	---	---	---
1"	1/2"	BR1050	BR1050G	BR1050SS	---	---
1"	3/4"	BR1075	BR1075G	BR1075SS	BR1075FS	BR1075B
1-1/4"	1/2"	BR1250	---	---	---	---
1-1/4"	3/4"	BR1275	---	---	---	---
1-1/4"	1"	BR1210	BR1210G	BR1210SS	---	BR1210B
1-1/2"	3/4"	BR1575	---	---	---	BR1575B
1-1/2"	1"	BR1510	BR1510G	BR1510SS	BR1510FS	BR1510B
1-1/2"	1-1/4"	BR1512	BR1512G	BR1512SS	BR1512FS	---
2"	3/4"	BR2075	---	---	---	---
2"	1"	BR2010	BR2010G	BR2010SS	BR2010FS	BR2010B
2"	1-1/4"	BR2012	---	---	---	---
2"	1-1/2"	BR2015	BR2015G	BR2015SS	BR2015FS	BR2015B
2-1/2"	1"	BR2510	---	---	---	---
2-1/2"	1-1/2"	BR2515	---	---	---	---
2-1/2"	2"	BR2520	---	---	---	---
3"	1"	BR3010	---	---	---	---
3"	1-1/4"	BR3012	---	---	---	---
3"	1-1/2"	BR3015	---	---	---	---
3"	2"	BR3020	BR3020G	BR3020SS	---	BR3020B
3"	2-1/2"	BR3025	---	---	---	---
4"	1"	BR4010	---	---	---	---
4"	1-1/2"	BR4015	---	---	---	---
4"	2"	BR4020	---	---	---	---
4"	2-1/2"	BR4025	---	---	---	---
4"	3"	BR4030	BR4030G	---	---	BR4030B
6"	3"	BR6030	---	---	---	---
6"	4"	BR6040	---	---	---	---

## NPT Threaded Pipe Fittings

### Threaded Both Ends Couplings



150# iron  
RHC150



galvanized  
RHC150G



316 stainless steel  
RHC150SS



forged steel  
RHC150FS



brass  
RHC150B

- 304 stainless steel and other sizes are available, consult the factory for pricing and availability

Female NPT	150# Iron Part #	Galvanized Part #	316 Stainless Steel Part #	Forged Steel Part #	Brass Part #
1/8"	RHC18	---	---	---	---
1/4"	RHC25	RHC25G	RHC25SS	RHC25FS	RHC25B
3/8"	RHC38	RHC38G	RHC38SS	RHC38FS	RHC38B
1/2"	RHC50	RHC50G	RHC50SS	RHC50FS	RHC50B
3/4"	RHC75	RHC75G	RHC75SS	RHC75FS	RHC75B
1"	RHC100	RHC100G	RHC100SS	RHC100FS	RHC100B
1-1/4"	RHC125	RHC125G	RHC125SS	RHC125FS	RHC125B
1-1/2"	RHC150	RHC150G	RHC150SS	RHC150FS	RHC150B
2"	RHC200	RHC200G	RHC200SS	RHC200FS	RHC200B
2-1/2"	RHC250	---	---	---	---
3"	RHC300	RHC300G	RHC300SS	---	---
4"	RHC400	RHC400G	RHC400SS	---	---
5"	RHC500	---	---	---	---
6"	RHC600	---	---	---	---

### 90° Threaded Elbows



150# iron  
EL90150



galvanized  
EL90150G



316 stainless steel  
EL90150SS



forged steel  
EL90150FS



brass  
EL90150B

- 304 stainless steel and other sizes are available, consult the factory for pricing and availability

Female NPT	Female NPT	150# Iron Part #	Galvanized Part #	316 Stainless Steel Part #	Forged Steel Part #	Brass Part #
1/8"	1/8"	EL9018	EL9018G	EL9018SS	---	---
1/4"	1/4"	EL9025	EL9025G	EL90025SS	EL9025FS	---
3/8"	3/8"	EL9038	EL9038G	EL90038SS	EL9038FS	---
1/2"	1/2"	EL9050	EL9050G	EL90050SS	EL9050FS	---
3/4"	3/4"	EL9075	EL9075G	EL90075SS	EL9075FS	---
1"	1"	EL90100	EL90100G	EL90100SS	EL90100FS	EL90100B
1-1/4"	1-1/4"	EL90125	EL90125G	EL90125SS	EL90125FS	---
1-1/2"	1-1/2"	EL90150	EL90150G	EL90150SS	EL90150FS	EL90150B
2"	2"	EL90200	EL90200G	EL90200SS	EL90200FS	EL90200B
2-1/2"	2-12"	EL90250	---	---	---	---
3"	3"	EL90300	---	EL90300SS	---	---
4"	4"	EL90400	---	EL90400SS	---	---
5"	5"	EL90500	---	---	---	---
6"	6"	EL90600	---	---	---	---

## NPT Threaded Pipe Fittings

### 45° Threaded Elbows

- 304 stainless steel and additional sizes are available, consult the factory for pricing and availability



150# iron  
EL45150

Female NPT	Female NPT	150# Iron Part #
1/8"	1/8"	EL4518
1/4"	1/4"	EL4525
3/8"	3/8"	EL4538
1/2"	1/2"	EL4550
3/4"	3/4"	EL4575
1"	1"	EL45100
1-1/4"	1-1/4"	EL45125
1-1/2"	1-1/2"	EL45150
2"	2"	EL45200
2-1/2"	2-1/2"	EL45250
3"	3"	EL45300
4"	4"	EL45400
5"	5"	EL45500
6"	6"	EL45600

### Side Outlet Elbows

- 304 stainless steel and additional sizes are available, consult the factory for pricing and availability



150# iron  
SOE200

Female NPT	150# Iron Part #
1/8"	SOE18
1/4"	SOE25
3/8"	SOE38
1/2"	SOE50
3/4"	SOE75
1"	SOE100
1-1/4"	SOE120
1-1/2"	SOE150
2"	SOE200

### Reducing Elbows

- 304 stainless steel and additional sizes are available, consult the factory for pricing and availability



150# iron  
REL1525

Female NPT	Female NPT	150# Iron Part #
1/4"	1/8"	REL2518
1/2"	1/4"	REL5025
1/2"	3/8"	REL5038
3/4"	1/2"	REL7550
1"	1/2"	REL1050
1"	3/4"	REL1075
1-1/4"	1"	REL1210
1-1/2"	1"	REL1510
1-1/2"	1-1/4"	REL1525
2"	1"	REL2010
2"	1-1/2"	REL2015
2-1/2"	2"	REL2520
3"	2"	REL3020
4"	2"	REL4020
4"	3"	REL4030

## NPT Threaded Pipe Fittings

### 45° Street Elbows



150# iron  
SE45150



galvanized  
SE45150G

- 304 stainless steel and additional sizes are available, consult the factory for pricing and availability

NPT	150# Iron Part #	Galvanized Part #
1/8"	SE4518	---
1/4"	SE4525	SE4525G
3/8"	SE4538	---
1/2"	SE4550	SE4550G
3/4"	SE4575	SE4575G
1"	SE45100	---
1-1/4"	SE45125	SE45125G
1-1/2"	SE45150	SE45150G
2"	SE45200	SE45200G
2-1/2"	SE45250	SE45250G
3"	SE45300	SE45300G
4"	SE45400	SE45400G

### 90° Street Elbows



150# iron  
SE9015



galvanized  
SE9015G



316 stainless steel  
SE9012SS



forged steel  
SE9010FS



brass  
SE9012B

- 304 stainless steel and other sizes are available, consult the factory for pricing and availability

NPT	150# Iron Part #	Galvanized Part #	316 Stainless Steel Part #	Forged Steel Part #	Brass Part #
1/8"	SE9018	SE9018G	SE9018SS	---	---
1/4"	SE9025	SE9025G	SE9025SS	SE9025FS	---
3/8"	SE9038	SE9038G	SE9038SS	SE9038FS	---
1/2"	SE9050	SE9050G	SE9050SS	SE9050FS	---
3/4"	SE9075	SE9075G	SE9075SS	SE9075FS	SE9075B
1"	SE9010	SE9010G	SE9010SS	SE9010FS	SE9010B
1-1/4"	SE9012	SE9012G	SE9012SS	SE9012FS	SE9012B
1-1/2"	SE9015	SE9015G	---	SE9015FS	SE9015B
2"	SE9020	SE9020G	SE9020SS	SE9020FS	SE9020B
2-1/2"	SE90250	---	---	---	---
3"	SE90300	---	---	---	---
4"	SE90400	---	---	---	---
6"	SE90600	---	---	---	---

## NPT Threaded Pipe Fittings

### Female Reducing Tees



150# iron  
FRT1210

- 304 stainless steel and other sizes are available, consult the factory for pricing and availability

Female NPT	Female NPT	150# Iron Part #
3/8"	1/4"	FRT3825
1/2"	3/8"	FRT5038
3/4"	1/2"	FRT7550
1"	1/2"	FRT1050
1-1/4"	1"	FRT1210
1-1/2"	1"	FRT1510
2"	1"	FRT2010
2"	1-1/2"	FRT2015
3"	2"	FRT3020

### Side Outlet Tees



150# iron  
SOT150

NPT	150# Iron Part #
1/2"	SOT50
3/4"	SOT75
1"	SOT100
1-1/4"	SOT120
1-1/2"	SOT150
2"	SOT200

### Street Service Tees



150# iron  
SST100

NPT	150# Iron Part #
1/2"	SST50
3/4"	SST75
1"	SST100
1-1/2"	SST150

## NPT Threaded Pipe Fittings

### Female Tees



150# iron  
FT15



galvanized  
FT150G



316 stainless steel  
FT150SS



forged steel  
FT150FS



brass  
FT15B

Female NPT	150# Iron Part #	Galvanized Part #	316 Stainless Steel Part #	Forged Steel Part #	Brass Part #
1/8"	FT18	---	---	---	---
1/4"	FT25	FT25G	FT25SS	FT25FS	---
3/8"	FT38	FT38G	FT38SS	---	---
1/2"	FT50	FT50G	FT50SS	FT50FS	---
3/4"	FT75	FT75G	FT75SS	FT75FS	FT75B
1"	FT10	FT100G	FT100SS	FT100FS	FT10B
1-1/4"	FT120	FT120G	FT120SS	FT120FS	---
1-1/2"	FT15	FT150G	FT150SS	FT150FS	FT15B
2"	FT200	FT200G	FT200SS	FT200FS	FT20B
2-1/2"	FT250	---	---	---	---
3"	FT30	---	---	---	---
4"	FT40	---	---	---	---
5"	FT500	---	---	---	---
6"	FT60	---	---	---	---

### Bull Head Tees



150# iron  
BHT1020

Female NPT	Female NPT	150# Iron Part #
1/2"	3/4"	BHT1575
1/2"	1"	BHT1510
3/4"	1"	BHT7510
1"	1-1/2"	BHT1015
1"	2"	BHT1020
1-1/2"	2"	BHT1520
2"	2-1/2"	BHT2025



## NPT Threaded Pipe Fittings

### Square Head Plugs



150# iron  
SHP150



galvanized  
SHP1510G



316 stainless steel  
SHP100SS



forged steel  
SHP150FS

- 304 stainless steel and other sizes are available, consult the factory for pricing and availability

Size	150# Iron Part #	Galvanized Part #	316 Stainless Steel Part #	Forged Steel Part #
1/8"	SHP18	SHP18G	SHP18SS	---
1/4"	SHP14	SHP14G	SHP14SS	SHP14FS
3/8"	SHP38	SHP38G	SHP38SS	SHP38FS
1/2"	SHP50	SHP50G	SHP50SS	SHP50FS
3/4"	SHP75	SHP75G	SHP75SS	SHP75FS
1"	SHP100	SHP100G	SHP100SS	SHP100FS
1-1/4"	SHP125	SHP125G	SHP125SS	---
1-1/2"	SHP150	SHP150G	SHP150SS	SHP150FS
2"	SHP200	SHP200G	SHP200SS	---
2-1/2"	SHP250	SHP250G	SHP250SS	---
3"	SHP300	SHP300G	SHP300SS	SHP300FS
4"	SHP400	SHP400G	SHP400SS	---
5"	SHP500	---	---	---
6"	SHP600	SHP600G	---	---

### Crosses



150# iron  
MIC150

- 304 stainless steel and other sizes are available, consult the factory for pricing and availability

Size	150# Iron Part #
1/8"	MIC18
1/4"	MIC25
3/8"	MIC38
1/2"	MIC50
3/4"	MIC75
1"	MIC100
1-1/4"	MIC125
1-1/2"	MIC150
2"	MIC200
2-1/2"	MIC250
3"	MIC300
4"	MIC400

## NPT Threaded Pipe Fittings

### Caps



150# iron  
MICAP75



galvanized  
MICAP75G



316 stainless steel  
SSCAP75

- 304 stainless steel and other sizes are available, consult the factory for pricing and availability

Size	150# Iron Part #	Galvanized Part #	316 Stainless Steel Part #
1/8"	MICAP18	---	SSCAP18
1/4"	MICAP25	---	SSCAP25
3/8"	MICAP38	---	SSCAP38
1/2"	MICAP50	MICAP50G	SSCAP50
3/4"	MICAP75	MICAP75G	SSCAP75
1"	MICAP100	---	SSCAP10
1-1/4"	MICAP120	---	SSCAP12
1-1/2"	MICAP150	---	SSCAP15
2"	MICAP200	---	SSCAP20
2-1/2"	MICAP250	---	---
3"	MICAP300	---	---
4"	MICAP400	---	---
5"	MICAP500	---	---
6"	MICAP600	---	---

### Floor Flanges



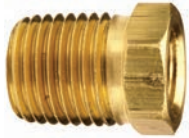
iron  
FF50

NPT	Iron Part #
1/4"	FF14
3/8"	FF38
1/2"	FF50
3/4"	FF75
1"	FF100
1-1/4"	FF120
1-1/2"	FF150
2"	FF200

## Extruded Brass NPT Threaded Pipe Fittings

### Reducer Hex Bushings

- NPTF - Dryseal
- reference SAE 130140



Female NPTF	Male NPTF	Brass Part #	Optional Pkg Qty
1/8"	1/4"	HB1F2M	25
1/8"	3/8"	HB1F3M	25
1/8"	1/2"	HB1F4M	25
1/8"	3/4"	HB1F6M *	25
1/4"	3/8"	HB2F3M	25
1/4"	1/2"	HB2F4M	25
1/4"	3/4"	HB2F6M	25
1/4"	1"	HB2F8M *	25
3/8"	1/2"	HB3F4M	25
3/8"	3/4"	HB3F6M	25
3/8"	1"	HB3F8M	25
1/2"	3/4"	HB4F6M	10
1/2"	1"	HB4F8M	10
3/4"	1"	HB6F8M	10

\* SAE does not provide a standard for these sizes

### 90° Female Pipe Elbows

- NPTF - Dryseal
- reference SAE 130238



Female NPTF	Brass Part #	Optional Pkg Qty
1/8"	EL1F1F	25
1/4"	EL2F2F	25
3/8"	EL3F3F	25
1/2"	EL4F4F	25
3/4"	EL6F6F	25

### Reducer Hex Nipples

- NPTF - Dryseal
- reference SAE 130137



Male NPTF	Male NPTF	Brass Part #	Optional Pkg Qty
1/4"	1/8"	HN2M1M	25
3/8"	1/4"	HN3M2M	25
1/2"	1/4"	HN4M2M	25
1/2"	3/8"	HN4M3M	25
3/4"	1/2"	HN6M4M	25

Extruded Brass NPT Threaded Pipe Fittings

Reducer Couplings

- NPTF - Dryseal (double female)
- reference SAE 130138

Female NPT	Female NPT	Brass Part #	Optional Pkg Qty
1/4"	1/8"	RC2F1F	25
3/8"	1/4"	RC3F2F	25
1/2"	1/4"	RC4F2F	25
1/2"	3/8"	RC4F3F	25
3/4"	1/2"	RC6F4F	25



Reducer Adapters

- NPTF - Dryseal
- reference SAE 130139

Female NPT	Male NPT	Brass Part #	Optional Pkg Qty
1/8"	1/8"	RA1F1M	25
1/4"	1/8"	RA2F1M	25
1/4"	1/4"	RA2F2M	25
3/8"	1/4"	RA3F2M	25
3/8"	3/8"	RA3F3M	25
1/2"	1/4"	RA4F2M	25
1/2"	3/8"	RA4F3M	25
1/2"	1/2"	RA4F4M	25
3/4"	1/2"	RA6F4M	10



Couplings

- NPTF - Dryseal
- reference SAE 130138

Female NPT	Brass Part #	Optional Pkg Qty
1/8"	BA1F1F	25
1/4"	BA2F2F	25
3/8"	BA3F3F	25
1/2"	BA4F4F	25
3/4"	BA6F6F	25



Female Tees

- NPTF - Dryseal
- reference SAE 130438

Female NPT	Brass Part #	Optional Pkg Qty
1/8"	322-0202	25
1/4"	322-0404	25
3/8"	322-0606	25
1/2"	322-0808	25



## Extruded Brass NPT Threaded Pipe Fittings

### 90° Street Elbows



- NPTF - Dryseal
- reference SAE 130239

Female NPTF	Male NPTF	Brass Part #	Optional Pkg Qty
1/8"	1/8"	SE1F1M	10
1/4"	1/4"	SE2F2M	10
3/8"	3/8"	SE3F3M	10
1/2"	1/2"	SE4F4M	10

### Hex Nipples



- NPTF - Dryseal
- reference SAE 130137

Male NPTF	Brass Part #	Optional Pkg Qty
1/8"	BCN12	100
1/4"	BCN25	100
3/8"	BCN37	50
1/2"	BCN50	25
3/4"	BCN75	100
1"	BCN100	50

### Hex Head Plugs



Male NPT	Brass Part #	Optional Pkg Qty
1/8"	HHP1M	25
1/4"	HHP2M	300
3/8"	HHP3M	25
1/2"	HHP4M	25
3/4"	HHP6M	25

## Schedule 80 Threaded Polypropylene Pipe Fittings

- glass-reinforced polypropylene for strength and durability
- pressure rated to **150 PSI** at **70°F**
- recommended operating pressure: **120 PSI** at **0°F**, **150 PSI** at **70°F**, **90 PSI** at **150°F**

### Nipples

NPT Size	Length	Schedule 80 Polypropylene Part #
3/4"	4"	62223
3/4"	6"	62224
1"	4"	62225
1"	6"	62226
2"	4"	62192
2"	6"	62193



### King Nipples

NPT Size	Schedule 80 Polypropylene Part #
1 1/2"	HB150
2"	HB200
3"	HB300
4"	HB400



### Reducer Nipples

NPT Size	Schedule 80 Polypropylene Part #
3/4" x 1/2"	62233
1" x 3/4"	62234
1 1/4" x 1"	62235
1 1/2" x 1 1/4"	62236
2" x 1 1/2"	60549



### Hex Nipples

NPT Size	Schedule 80 Polypropylene Part #
1/2"	62221
3/4"	60554
1"	60555
1 1/4"	60556
1 1/2"	60547
2"	60548
3"	61769





## Schedule 80 Threaded Polypropylene Pipe Fittings

### Pipe Caps



NPT Size	Schedule 80 Polypropylene Part #
¾"	62250
1"	62251

### Reducer Bushings



NPT Size	Schedule 80 Polypropylene Part #
½" x ¼"	62267
¾" x ½"	62272
1" x ½"	62275
1" x ¾"	62276
1¼" x ¾"	62277
1¼" x 1"	62278
1½" x ¾"	62279
1½" x 1"	62280
1½" x 1¼"	62281
2" x ¾"	62195
2" x 1"	62196
2" x 1¼"	62197
2" x 1½"	62198
3" x 2"	60330

### Cross



NPT Size	Schedule 80 Polypropylene Part #
1"	62263

### 90° Street Elbows



NPT Size	Schedule 80 Polypropylene Part #
½"	62243
¾"	62244
1"	62245
1¼"	62246
1½"	62247
2"	62199
3"	62248

Schedule 80 Threaded Polypropylene Pipe Fittings

90° Elbows

NPT Size	Schedule 80 Polypropylene Part #
1/2"	62215
3/4"	62216
1"	62217
1 1/2"	62219
2"	62191
3"	62220



Pipe Couplings

NPT Size	Schedule 80 Polypropylene Part #
3/4"	62238
1"	62239
1 1/2"	62241
2"	62194



Pipe Plugs

NPT Size	Schedule 80 Polypropylene Part #
3/4"	62256
1"	62257
1 1/4"	62258
1 1/2"	62259
2"	62201



Tees

NPT Size	Schedule 80 Polypropylene Part #
1/2"	62209
3/4"	62210
1"	62211
1 1/4"	62212
1 1/2"	62213
2"	62190
3"	62214



## Technical Information

### Threading Information

Abbreviation	System Name	Compatibility	Seal Method
<b>NPT</b>	American Standard Taper Pipe Thread (National Pipe Tapered)	male NPT with female NPT male NPT with female NPTF male NPT with female NPSM male NPT with female NPSH female NPT with male NPT female NPT with male NPTF female NPT not compatible with male NPSM or male NPSH	thread thread washer washer thread thread
<b>NPTF</b>	American Standard Taper Pipe Fuel Dryseal Thread (National Pipe Tapered) (Dryseal)	male NPTF with female NPTF male NPTF with female NPT male NPTF with female NPSM male NPTF with female NPSH female NPTF with male NPTF female NPTF with male NPT <i>female NPTF with male NPSM or NPSH</i> <b>Note: NPTF with NPTF threads do not require sealant for the initial use. After that, sealant is required.</b>	thread thread washer washer thread thread <i>not compatible</i>

### Thread Dimensions

Nominal Dimensions of Standard Threads

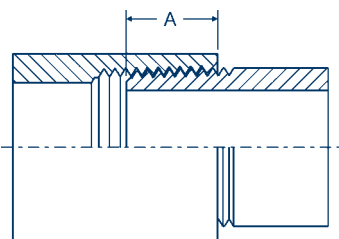
ODM -- Outside Diameter of the Male

IDF -- Inside Diameter of the Female

TPI -- Threads Per Inch

Size	Pipe O.D.	Tapered Thread		Straight Thread		
		NPT		NPSM		
		TPI		TPI	ODM (max)	IDF (min)
1/8"	.405	27		27	0.397	0.358
1/4"	.540	18		18	0.526	0.468
3/8"	.675	18		18	0.662	0.603
1/2"	.840	14		14	0.823	0.747
3/4"	1.050	14		14	1.034	0.958
1"	1.315	11.5		11.5	1.293	1.201
1-1/4"	1.660	11.5		11.5	1.638	1.546
1-1/2"	1.900	11.5		11.5	1.877	1.785
2"	2.375	11.5		11.5	2.351	2.259
2-1/2"	2.875	8		8	2.841	2.708
3"	3.500	8		8	3.467	3.334
4"	4.500	8		8	4.466	4.333
5"	5.563	8		8	5.528	5.395
6"	6.625	8		8	6.585	6.452
8"	8.625	8				
10"	10.750	8				
12"	12.750	8				

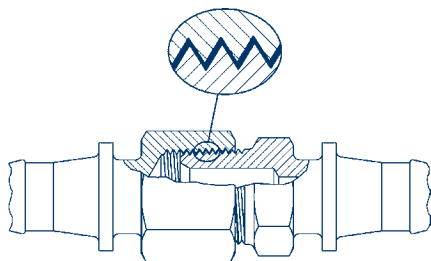
### Normal Engagement Length of NPT Thread in Inches (A) \*



Thread Size	"A"	Thread Size	"A"
1/8"	1/4"	2-1/2"	15/16"
1/4"	3/8"	3"	1"
3/8"	3/8"	4"	1-1/8"
1/2"	1/2"	5"	1-1/4"
3/4"	9/16"	6"	1-5/16"
1"	11/16"	8"	1-7/16"
1-1/4"	11/16"	10"	1-5/8"
1-1/2"	11/16"	12"	1-3/4"
2"	3/4"		

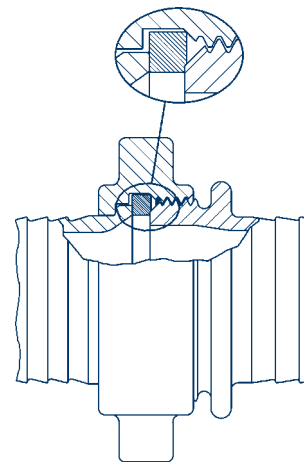
\* Dimensions given do not allow for variations in tapping or threading.

## Thread Sealing Tips



thread seal

- A seal is obtained by applying a sealant to the male thread before engaging.
- The sealant is used to prevent spiral leakage.
- Thread tape or paste is the preferred sealant in this type of application.



washer seal

- A seal is obtained when the male thread is tightened down onto the washer of the female assembly.
- The washer should be inspected regularly and replaced as needed to prevent leakage.

Sealing NPT threads can be an exasperating experience if certain techniques are not followed. The following tips will help alleviate many common problems in thread sealing:

1. Always use some type of sealant (tape or paste) and apply sealant to male thread only. If using a hydraulic sealant, allow sufficient curing time before system is pressurized.
2. When using tape sealant, wrap the threads in a clock-wise motion starting at the first thread and, as layers are applied, work towards the imperfect (vanishing) thread. If the system that the connection being made to cannot tolerate foreign matter (i.e. air systems), leave the first thread exposed and apply the tape sealant as outlined above.
3. When using paste sealant, apply to threads with a brush, using the brush to work the sealant into the threads. Apply enough sealant to fill in all the threads all the way around.
4. When connecting one stainless steel part to another stainless steel part that will require future disassembly, use a thread sealant that is designed for stainless steel. This stainless steel thread sealant is also useful when connecting aluminum to aluminum that needs to be disconnected in the future. These two materials gall easily, and if the correct sealant is not used, it can be next to impossible to disassemble.
5. When connecting parts made of dissimilar metals (i.e. steel and aluminum), standard tape or paste sealant performs satisfactory.
6. For sizes 2" and below, tape or paste performs satisfactory. When using thread tape, four wraps (covering all necessary threads) is usually sufficient.
7. For sizes 2½" and above, thread paste is recommended. If thread tape is used, eight wraps (covering all necessary threads) is usually sufficient. Apply more wraps if necessary.
8. For stubborn to seal threads, apply a normal coating of thread paste followed by a normal layer of thread tape.
9. For *extremely* stubborn to seal threads, apply a normal coating of thread paste followed by a single layer of gauze bandage followed by a normal layer of thread tape.

**Caution!**

When this procedure is done, the connection becomes permanent. Extreme measures will be necessary to disconnect these components. All other measures to seal *the threads should be explored prior to use of this technique.*

10. Over-tightening threads can be just as detrimental as insufficient tightening. For sizes 2" and below, hand tighten the components and, with a wrench, tighten 3 full turns. For sizes 2½" and above, hand tighten the components and, with a wrench, tighten 2 full turns.

## Thread Sealants

Dixon offers a variety of thread sealants including thread sealant paste and tape. Please consult the current Dixon Price List for additional product information.

Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for fire protection, food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



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# Dixon Product Mix

## "The Right Connection"

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"Andrews", "Boss-Lock", "EZ Boss-Lock", swaged-on and phonograph finish, polypropylene, reducing couplers, adapters, gaskets, replacement handles, accessories, "Strap-Grip", dry-quick disconnects

### "Boss"



"Boss" and "EZ-Boss" ground joint and washer type couplings, male and LP stems, "Boss" clamps, air hammer fittings, "Boss"/Holedall fittings, steam quick disconnects

### Air Fittings, FRL's and Gauges



Air receiver manifold, "Air King" universal couplings, King Cable, "Dix-Lock", "Dual-Lock", manifolds, "Air Chief" quick connects, air valves, blow guns, tube fittings and valves, FRL's, thermometers, gauges, hose racks and reels, safety check valves

### Shank Fittings



Menders, nipples, suction couplings, foot valves, strainers, long and short shank fittings, spray hose couplings, stainless steel fittings

### Brass Fittings



Hose stations, nozzles, garden hose fittings, garden hose, brass shank fittings, brass fittings, ferrules, crimping tools, grease whip assemblies

### Plastic Fittings



Quick disconnect fittings, PVC tubing, tubing cutters, Tuff-Lite nylon and polypropylene hose fittings

### Clamps



Pinch-on, worm gear, band clamps, "Strap-Grip", single and double bolt clamps, spiral clamps, T-bolt clamps, "StayPut" wire clamps, clamp kits, tools and accessories

Distributed By:

800 High Street • Chestertown, MD 21620  
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## Holedall and Sanitary Fittings



Rams, Holedall externally swaged, fittings, flanged assemblies, notched fittings, Holedall internally expanded fittings, sanitary fittings, Holedall petroleum fittings, petroleum coupling expanders, API certified fittings

## Fire Hose Fittings



Flat Seal couplings, fire hose, reels, clappers, expansion ring couplings, wrenches, adapters, swivels, nipples, valves, thermoplastic, brass and aluminum nozzles, dry hydrants, Storz fittings

## Valves



Ball valves, locking ball valves, steam valves, mini valves, pneumatically actuated valves, non-metallic ball valves, strainers, gate valves, butterfly valves, air valves

## Pipe and Welding Fittings



Weld end fittings, welding nipples, flanges, turned back fittings, NPT threaded fittings, nipples, sight flow indicators, grooved pipe fittings

## Tank Truck Fittings



Tight and loose fill couplers and adapters, shank couplings, pipe caps, sight flow indicators, reducers and adapters for tank trucks, Bayco hose swivels, Bayco hose nozzles, rack cords

## Maintenance and Repair



Thread tape, test pumps, coupling inserter, hose mallet, hose knife, hose jackets and guards, hose tags, ties and tape

## Hydraulic Fittings



Straight Thru's, flow control valves, high pressure ball valves, needle valves, hydraulic quick connects, return line fittings, plugs and caps, swivel adapters, hydraulic couplings

## Swivel Joints



V-Ring type and O-ring type swivel joints



The Right Connection™

# Push-In Fittings

*Allow instant connection without the use of tools.*

## Brass Push-In Fittings

### Features:

- configurations: elbows, unions, connectors, swivels, tees
- sizes: 5/32"-1/2"
- working temperature: **-10°F to 200°F**
- male NPTF threads have pre-applied sealant
- working pressure: fittings are suitable for use up to the maximum working pressure of the plastic tubing used

### Brass D.O.T. fittings:

- working temperature: **-40°F to 212°F**



## Legris Stainless Steel Push-In Fittings



### Features:

- configurations: elbows, unions, connectors, tees
- tube size: 1/4"-1/2" O.D.
- thread size: 1/8" - 1/2" NPT
- working temperature: **-4°F to 250°F**
- working pressure: **290 PSI** maximum  
*Maximum circuit pressure depends equally on the type and diameter of the tube used.*
- grade 316 stainless steel

## Legris Nickel-Plated Brass Push-In Fittings

### Features:

- configurations: elbows, unions, connectors, swivels, tees
- tube size: 5/32"-1/2" O.D.
- thread size: 10/32" UNF, 1/8" - 1/2" NPT
- working temperature: **5°F to 180°F**
- working pressure: vacuum to **290 PSI**  
*Maximum circuit pressure depends equally on the type and diameter of the tube used.*



## Legris Nylon/Nickel-Plated Brass Push-In Fittings



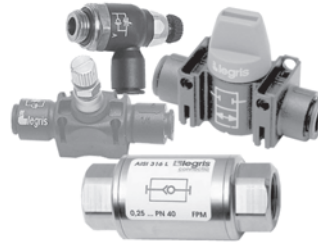
### Features:

- configurations: elbows, unions, connectors, swivels, tees, Y's, plugs
- tube size: 1/8"-1/2" O.D.
- thread size: 1/16" - 1/2" NPT
- working temperature: **-4°F to 175°F**
- working pressure: to **290 PSI** at ambient temperature  
*Maximum circuit pressure depends equally on the type and diameter of the tube used.*
- vacuum capability: 28" Hg (99% vacuum)

## Push-In Valves

### Features:

- configurations: mini ball, quick exhaust, in-line, flow control, check
- sizes: 5/32", 1/8", 1/4", 5/16", 3/8", 1/2"



## Metric Push-In Fittings



### Features:

- configurations: elbows, connectors, swivels, tees
- tube size: 4 mm to 8 mm O.D.
- thread size: 1/8", 1/4" BSPT
- working temperature: **-4°F to 175°F**
- working pressure: to **290 PSI** at ambient temperature  
*Maximum circuit pressure depends equally on the type and diameter of the tube used.*

## D.O.T Push-In Fittings

### Features:

- configurations: elbows, connectors, swivels, tees, unions, Y's, plug-ins
- tube size: 5/32", 3/16", 1/4", 3/8", 1/2" O.D.
- thread size: 1/8", 1/4", 3/8", 1/2" NPT
- working temperature: **-20°F to 225°F**
- working pressure: vacuum to **275 PSI** at ambient temperature  
*Maximum circuit pressure depends equally on the type and diameter of the tube used.*



## Tubing



### Features:

- tubing styles: polyurethane, polyethylene, nylon 11, metric nylon, D.O.T. airbrake

## Cutters



### Features:

- permit tubing/hose cutting from 3/4" to 2" O.D.
- cut hard or soft copper, aluminum, brass, thin wall steel, stainless steel, monel, titanium and other tubing
- have high quality wear resistant chromium steel rollers

## Accessories

- push-in fitting kit
- modular manifolds - 5/32", 1/4" and 3/8"

## Hose Coupling Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, [www.osha.gov](http://www.osha.gov).)
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.



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# Push-In Fittings

*Allow instant connection without the use of tools.*

## Brass Push-In Fittings

### Features:

- configurations: elbows, unions, connectors, swivels, tees
- sizes: 5/32"-1/2"
- working temperature: **-10°F to 200°F**
- male NPTF threads have pre-applied sealant
- working pressure: fittings are suitable for use up to the maximum working pressure of the plastic tubing used

### Brass D.O.T. fittings:

- working temperature: **-40°F to 212°F**



## Legris Stainless Steel Push-In Fittings



### Features:

- configurations: elbows, unions, connectors, tees
- tube size: 1/4"-1/2" O.D.
- thread size: 1/8" - 1/2" NPT
- working temperature: **-4°F to 250°F**
- working pressure: **290 PSI** maximum  
*Maximum circuit pressure depends equally on the type and diameter of the tube used.*
- grade 316 stainless steel

## Legris Nickel-Plated Brass Push-In Fittings

### Features:

- configurations: elbows, unions, connectors, swivels, tees
- tube size: 5/32"-1/2" O.D.
- thread size: 10/32" UNF, 1/8" - 1/2" NPT
- working temperature: **5°F to 180°F**
- working pressure: vacuum to **290 PSI**  
*Maximum circuit pressure depends equally on the type and diameter of the tube used.*



## Legris Nylon/Nickel-Plated Brass Push-In Fittings



### Features:

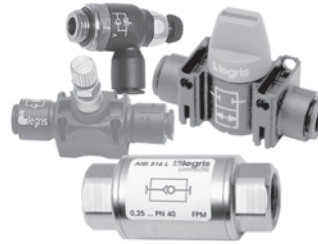
- configurations: elbows, unions, connectors, swivels, tees, Y's, plugs
- tube size: 1/8"-1/2" O.D.
- thread size: 1/16" - 1/2" NPT
- working temperature: **-4°F to 175°F**
- working pressure: to **290 PSI** at ambient temperature  
*Maximum circuit pressure depends equally on the type and diameter of the tube used.*
- vacuum capability: 28" Hg (99% vacuum)



## Push-In Valves

### Features:

- configurations: mini ball, quick exhaust, in-line, flow control, check
- sizes: 5/32", 1/8", 1/4", 5/16", 3/8", 1/2"



## Metric Push-In Fittings



### Features:

- configurations: elbows, connectors, swivels, tees
- tube size: 4 mm to 8 mm O.D.
- thread size: 1/8", 1/4" BSPT
- working temperature: **-4°F to 175°F**
- working pressure: to **290 PSI** at ambient temperature  
*Maximum circuit pressure depends equally on the type and diameter of the tube used.*

## D.O.T Push-In Fittings

### Features:

- configurations: elbows, connectors, swivels, tees, unions, Y's, plug-ins
- tube size: 5/32", 3/16", 1/4", 3/8", 1/2" O.D.
- thread size: 1/8", 1/4", 3/8", 1/2" NPT
- working temperature: **-20°F to 225°F**
- working pressure: vacuum to **275 PSI** at ambient temperature  
*Maximum circuit pressure depends equally on the type and diameter of the tube used.*



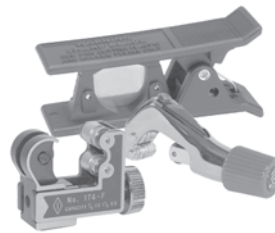
## Tubing



### Features:

- tubing styles: polyurethane, polyethylene, nylon 11, metric nylon, D.O.T. airbrake

## Cutters



### Features:

- permit tubing/hose cutting from 3/4" to 2" O.D.
- cut hard or soft copper, aluminum, brass, thin wall steel, stainless steel, monel, titanium and other tubing
- have high quality wear resistant chromium steel rollers

## Accessories

- push-in fitting kit
- modular manifolds - 5/32", 1/4" and 3/8"

## Hose Coupling Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.

- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.

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- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.

- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, [www.osha.gov](http://www.osha.gov).)

- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).

- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.



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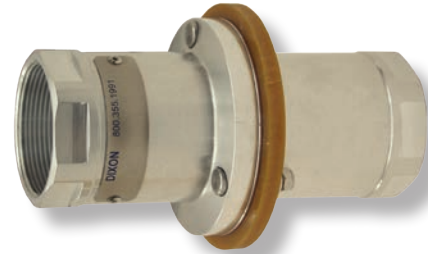
# Safety Break-away Couplings Breaking Bolt Series

*Designed to minimize spillage and damage associated with drive away and pull-away incidents*

## Industrial Version

The breaking bolt industrial breakaway coupling is designed to minimize spillage and damage associated with drive away and pull away incidents.

- provides passive security against situations where a hose or loading arm could be subjected to inadvertent excessive loads
- operates independently of shut off safety systems and does not require an external power source
- high flow rate / low pressure drop
- female NPT is standard, optional ANSI / DIN flanges are available
- stainless steel or aluminum
- working pressure: stainless steel **360 PSI** and aluminum **230 PSI**
- Viton® is standard seal



Size	Width	Length	Weight in Lbs.		Flow Rate / GPM	DN	Stainless Steel Part #	Aluminum Part #
			stainless	aluminum				
2"	4.5"	7"	5	3	<b>200</b>	50	<b>SBC200SS</b>	<b>SBC200AL</b>
3"	6.2"	11"	18	8	<b>650</b>	80	<b>SBC300SS</b>	<b>SBC300AL</b>
4"	7.9"	12"	34	14	<b>800</b>	100	<b>SBC400SS</b>	<b>SBC400AL</b>

## Marine Version

The breaking bolt marine version break-away coupling is designed to minimize spillage and damage associated with pull-away incidents.

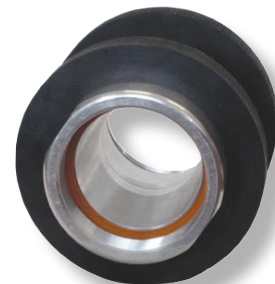
- designed to be installed within a hose string where the coupling will have a length of hose attached to both sides
- typical applications include: ship-to-offshore platform and ship-to-ship product transfer operations
- coupling automatically senses an excessive load, closes the valves and disconnects
- release is executed when force causes bolts to break
- 316T1 stainless steel body with Viton® O-rings
- working pressure: **360 PSI**
- female NPT, both ends



Size	Width	Length	Weight in Lbs.	Flow Rate / GPM	DN	Stainless Steel Part #
2"	4.5"	7"	5.7	<b>200</b>	50	<b>MSBC200SS</b>
3"	6.2"	11"	18.8	<b>650</b>	80	<b>MSBC300SS</b>
4"	7.9"	12"	34.1	<b>800</b>	100	<b>MSBC400SS</b>

## Non-Closure Version

The non-closure design acts purely as an identified safe parting point within the transfer system, protecting equipment and personnel. With no internal mechanism these couplings are utilized when the medium is non-hazardous and spillage is acceptable.



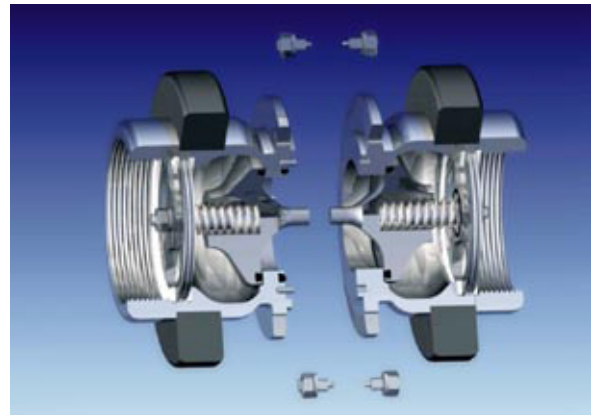
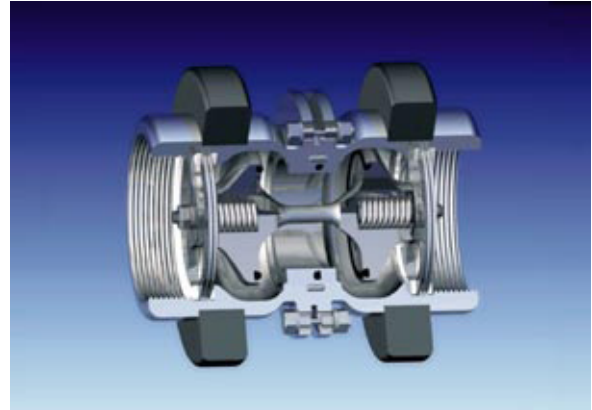


## How It Works

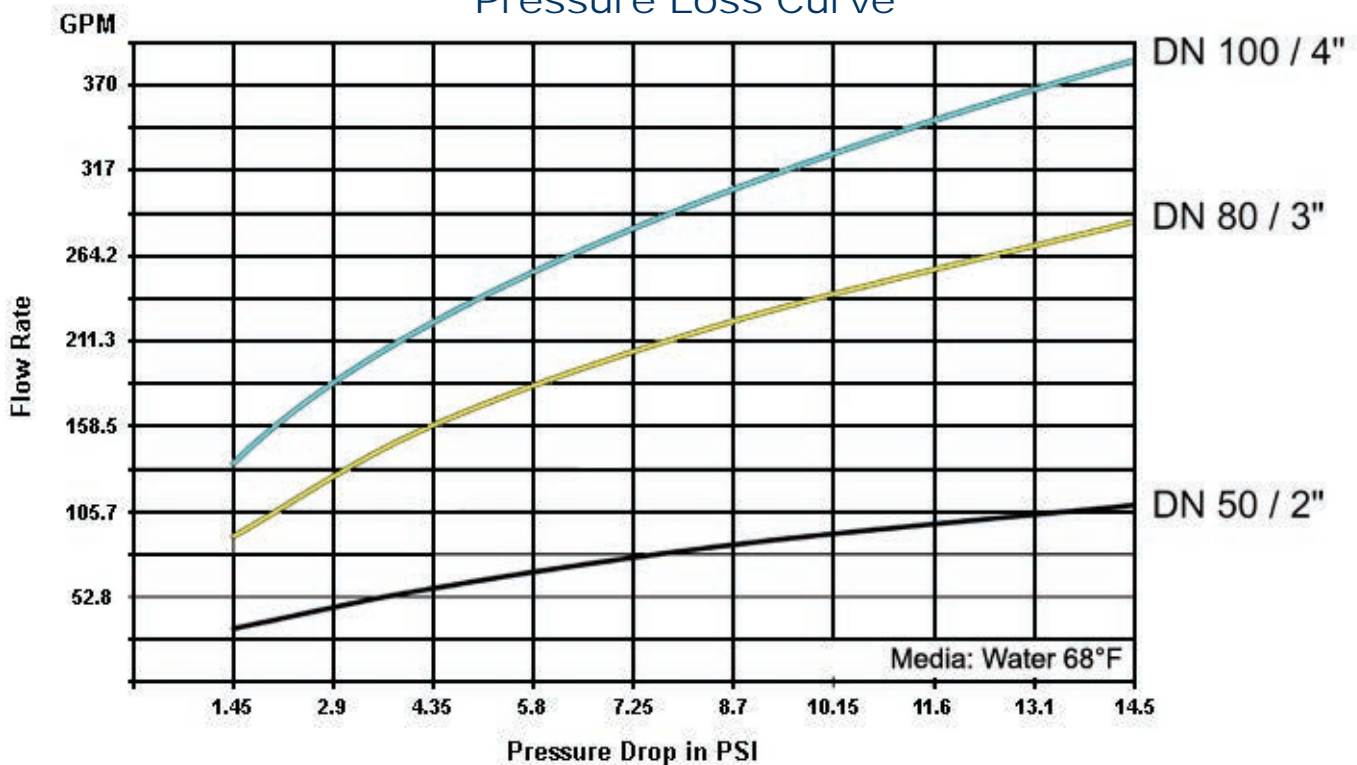
The safety break-away valve consists of two halves, each with a valve that has a flat type-sealing surface similar to a dry disconnect coupling.

The coupling automatically senses an excessive load, closes the valves and disconnects.

When the SBCouplings separate, it allows the poppets to close. The two poppets close rapidly, minimizing exposure to personnel and the environment.



## Pressure Loss Curve



**Dixon Valve & Coupling Co.**  
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# Safety Break-away Couplings Cable Release Series

*Designed to minimize spillage and damage associated with drive away and pull-away incidents*

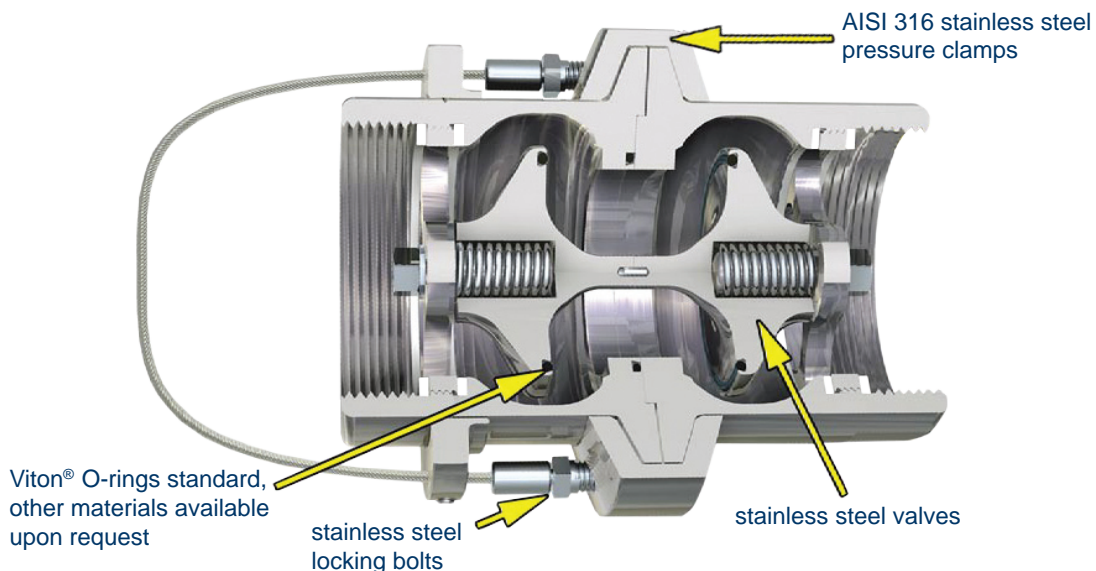


Cable release series break-away couplings are designed to minimize spillage and damage associated with drive away and pull-away incidents. Couplings feature a simple mechanism and no loose components to lose after release. In some applications the necessary force of the breaking bolts may be too high to prevent damage to loading arms or other pipe and equipment; under these conditions the use of cable release safety break-aways may be more suitable.

- coupling automatically senses an excessive load, closes the valves and disconnects
- release is executed by pulling out the locking bolts with the help of a cable
- when the coupling separates, the poppets close
- 316 T1 stainless steel body with Viton® O-rings
- working pressure: **360 PSI**

Size	Width	Length	Weight	Flow Rate/ GPM	DN	Part #
1½"	3.86"	5.59"	6.8 lbs	<b>100</b>	40	<b>SBC150SS-CR</b>
2"	4.33"	5.67"	9.1 lbs	<b>132</b>	50	<b>SBC200SS-CR</b>
3"	5.71"	7.68"	18.8 lbs	<b>264</b>	80	<b>SBC300SS-CR</b>
4"	7.28"	8.90"	35.4 lbs	<b>396</b>	100	<b>SBC400SS-CR</b>

## Advantages



## How It Works

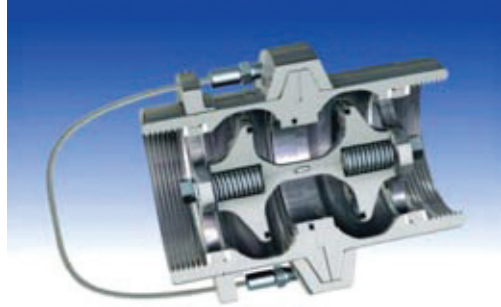
The safety break-away valve consists of two halves, each with a valve that has a flat type-sealing surface similar to a dry disconnect coupling.

The valve remains constantly open under normal use.

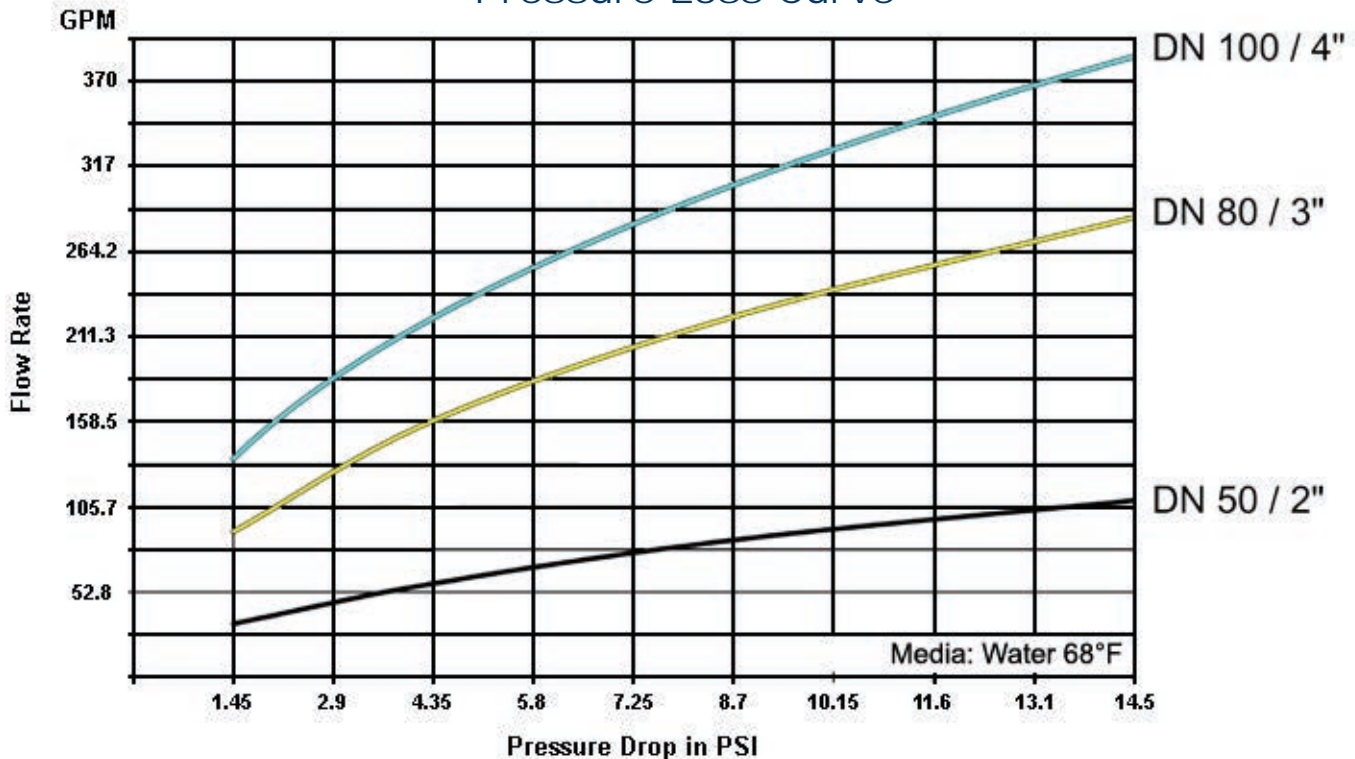
The two halves of the break-away coupling only close when there is excessive force, such as in a Road Tanker, or Rail Car drive away situation.

The release is executed by pulling out the locking bolts with the help of the cable. The locking bolts hold the two pressure clamps in position which press both casing halves of the SBCoupling together. A guiding pin set in between serves the alignment of the locking bolts.

When the SBCouplings separate, this allows the poppets to close. Product loss is minimized because of the two poppets close rapidly, minimizing exposure to personnel and the environment.



## Pressure Loss Curve



### Dixon Valve & Coupling Co.

800 High Street • Chestertown, MD 21620

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# "King" Safety Cable

*A positive safeguard for air hose connections*

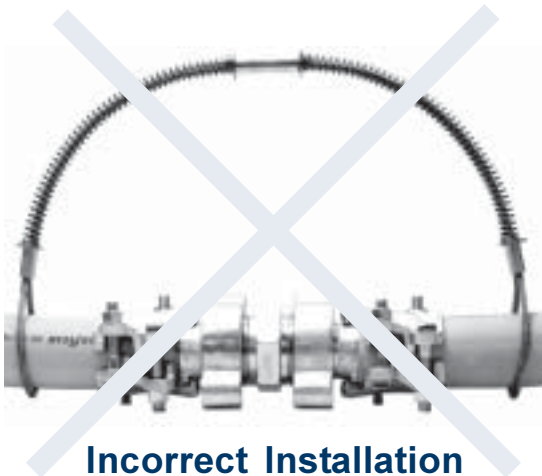
*"King" Safety Cable helps you meet today's safety standards*

- Hose-to-hose or hose-to-rigid outlet styles available
- Low cost answer to eliminating injuries caused by broken air hose connections
- Highly resistant to rust and corrosion
- Easy installation and removal - no tools needed
- Custom lengths available
- Another genuine Dixon product manufactured in the U.S.A.



## Correct Installation

King Safety Cable installed in the extended position (no slack).



## Incorrect Installation

King Safety Cable is not installed in the extended position (too much slack).

When a pressurized air hose becomes accidentally uncoupled, or a hose failure occurs, the quick exhaust of air causes the hose assembly to whip violently, creating a potentially dangerous situation.

**King Safety Cables** prevent hose whip in the event of the accidental separation of a coupling or clamp device. The steel cables span the hose fittings to provide standby safety for the hose. Spring-loaded loops in the cable ends are easily opened to pass over the couplings and provide a firm grip on the hose.

The cables can be used in hose to hose installations, as well as hose to rigid outlet, or tool.

On hose to hose applications the **King Safety Cable** should be installed on the hose portion of the assembly in a fully extended position. When used on hose to rigid outlet, or tool, the spring loaded end should be over the hose, while the choker end is installed on the outlet, or tool. **King Safety Cable should always be installed in a fully extended position.**



## Style WSR - hose-to-tool service



Hose End

Tool End

Cable size	Part #	Hose I.D.	Length	Max. Working Pressure PSI
1/8"	<b>WSR1</b>	1/2" - 1-1/4"	20-1/4"	<b>200</b>
3/16"	<b>WSR3</b>	1/2" - 2"	28"	<b>200</b>
1/4"	<b>WSR2</b>	1-1/2" - 3"	38"	<b>200</b>
3/8"	<b>WSR4</b>	4"	44"	<b>200</b>

## Style W - hose-to-hose service



Hose End

Hose End

Cable size	Part #	Hose I.D.	Length	Max. Working Pressure PSI
1/8"	<b>WB1</b>	1/2" - 1-1/4"	20-1/4"	<b>200</b>
3/16"	<b>WB3</b>	1/2" - 2"	28"	<b>200</b>
1/4"	<b>WA2</b>	1-1/2" - 3"	38-1/4"	<b>200</b>
3/8"	<b>WA4</b>	4"	44"	<b>200</b>

Note: Cables are shipped with safety restraint labels attached. Labels are not pictured.

## "King" Safety Cable Options



**WSR1E**

WSR1 with Stainless Steel marine eye

**WB1C**

WB1 with safety clip and lanyard

Cable size	Part #	Description	Max. Working Pressure PSI
1/8"	<b>WSR1C</b>	WSR1 with safety clip and lanyard used to lock Air King couplings	<b>200</b>
1/8"	<b>WB1C</b>	WB1 with safety clip and lanyard used to lock Air King couplings	<b>200</b>
1/8"	<b>WSR1E</b>	WSR1 with Stainless Steel safety marine eye used to connect safety cable to a bolt on tool	<b>200</b>
1/4"	<b>WA2B</b>	WA2 with Bronze/Copper ferrule for special environmental conditions	<b>200</b>
1/8"	<b>WB1SS</b>	WB1 made with Stainless Steel cable and springs with Bronze/Copper ferrule for special environmental conditions	<b>200</b>

\* Custom options available. Consult factory for details.

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## Hose Coupling Safety

Dixon's couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling and retention devices, and the proper application of the coupling to the hose are of the utmost importance. Users must consider the size, temperature, application, media, pressure and the hose and coupling manufacturer's recommendations when selecting the proper hose assembly components. Dixon recommends that all hose assemblies be tested in accordance with the Rubber Manufacturers Association's recommendations and be inspected regularly (before each use), to ensure that they are not damaged or become loose.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices, such as safety clips and "King Cable" safety cables, are recommended. If any problem is detected, couplings must be removed from service immediately.

Please take advantage of Dixon's highly trained staff for consultation and training. Do not hesitate in contacting us for recommendations on the proper selection and application of the fittings and accessories offered in our catalog.

We strongly recommend that distributors, and end users, make use of Dixon's Engineering services for recommendations for special, or, critical applications.

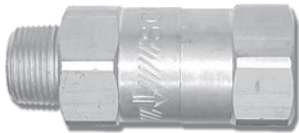
Dixon can be contacted at 1-800-355-1991.



# Safety Check Valve

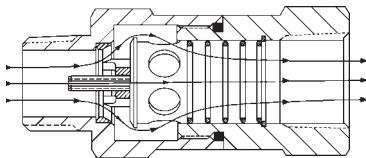
*Prevents dangerous hose whip on portable air compressors*

- Also known as Air Fuse
- High flow
- Controls excess air flow (SCFM) in only one direction however, permits flow in either direction
- Not for use in applications where 100% of the available air is required, i.e. sand blast, pile driving rigs, expansion joint blow down pipes, etc.
- Maximum working pressure: 250 PSI
- Maximum temperature: 250°F
- Functions efficiently at high discharge temperatures
- Automatically senses change in air flow and shuts off the flow in the event of a surge in excess of valve flow rating thus preventing hose whip
- Automatically resets after hose repair is made
- Conforms to OSHA regulation 1926.302 (b) (7) requiring a safety device at the source of the air supply and at branch air lines.
- Applications include temporary plant/factory air, construction sites, shipyards or utilities
- Solid brass with stainless steel springs

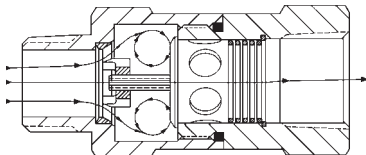


## Use:

- Safety Check Valves operate by using the pressure differential across the valve to operate the valve and spring assembly. The pressure differential is directly related to the flow of air through the valve.
- When the pressure differential is within the operating limits (below the cutoff flow) of the unit, the force on the valve exerted by the spring is greater than that caused by the pressure differential (see open position graphic below). The valve remains open and normal operation continues.
- When the pressure differential is above the cutoff limit, the force on the valve exerted by the pressure differential is greater than the force exerted by the spring, and the valve closes (see the closed position graphic to the left).
- After the repair is made, normal operation is automatically enabled when pressure across the valve equalizes through the bleeder hole.
- The valve spring size can be specified by determining the air flow during normal operation and by estimating the air flow if a failure or rupture occurs.



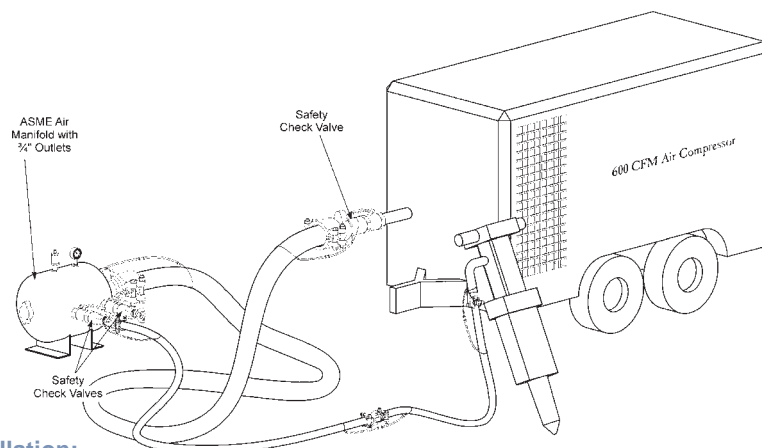
Check Valve In Open Position



Check Valve In Closed Position

## Questions to ask when selecting a safety shut-off valve:

1. What is the hose I.D. size you are using?
2. What is the operating pressure of the compressor, in PSI?
3. What is the SCFM of your compressor? (printed on the side of most air compressors)
4. How much air flow, in SCFM, does the tool(s) require?
5. What is the maximum air flow possible, in SCFM, through your air hose, at the end of the length of the hose? Contact Dixon for recommendations if the hose length is over 100'.



## Installation:

A safety shut-off valve should be placed immediately after the air control valve and before the hose on a compressor, and after each discharge port on a manifold (see drawing above).



### Sizing the safety shut-off valve:

1. The safety shut-off valve NPT size must be the same as the nominal I.D. size of the air line on which it is used. *Note: Never increase or decrease the hose size from the compressor to the tool or from the compressor to the manifold.*
2. One safety shut-off valve must be used on each hose outlet from the manifold.
3. To avoid nuisance cut-off's, the shut-off valve selected should have a cut-off range of 110% of the maximum anticipated air flow to the tool, or tools, to be used.
4. The maximum SCFM of the supply side air line must be above the cut-off range of the valve. The cut-off range of Dixon's shut-off valves is given at 90 PSI. To determine the cut-off range at other PSI's, use the formula or the sample numbers in the Cut-off Rate Chart below to find the flow rate multiplier. Multiply the flow rate multiplier by the numbers in the cut-off flow range column to find the cut-off range at your PSI.

$$\sqrt{\frac{\text{PSIG} + 14.7}{104.7}}$$

flow rate multiplier formula

### Safety Shut-off Valve Cut-off Rates at PSI's Other Than 90 PSI

Inlet pressure (PSI)	25	50	75	100	125
Flow rate multiplier	.62	.79	.93	1.05	1.16

### Operation:

Before starting the compressor the air control valve should be closed completely. When the compressor unloads, open the air control valve *very slowly*. Full port ball valves tend to work better than gate or butterfly type valves.

The air control valve must be fully open for the safety shut-off valve to work. Some portable air compressor manufacturers recommend start-up with the air control valve slightly open. In this case you may have to close the valve and reopen it slowly to the full open position, or wait for the safety shut-off valve to reset itself.

If the valve fails to operate despite meeting all conditions, check the hose line for obstructions or a hose mender restricting normal air flow.

NPT and Hose I.D. Size	Part #	Cut-off Flow Range (SCFM at 90 PSI)
1/4"	<b>SCVL2</b>	23-29
3/8"	<b>SCVM3</b>	39-47
	<b>SCVS3</b>	52-65
1/2"	<b>SCVM4</b>	70-78
	<b>SCVS4</b>	80-96
3/4"	<b>SCVL6</b>	72-88
	<b>SCVM6</b>	92-108
	<b>SCVR6</b>	112-128
	<b>SCVJ6</b>	132-148
	<b>SCVS6</b>	160-180
1"	<b>SCVH6</b>	180-200
	<b>SCVL8</b>	165-195
	<b>SCVM8</b>	220-260
1-1/4"	<b>SCVS8</b>	280-320
	<b>SCVH8</b>	310-340
	<b>SCVL10</b>	260-290
	<b>SCVM10</b>	300-340
1-1/2"	<b>SCVS10</b>	440-500
	<b>SCVH10</b>	570-630
	<b>SCVL12</b>	300-360
	<b>SCVM12</b>	470-530
2"	<b>SCVS12</b>	640-720
	<b>SCVH12</b>	750-830
	<b>SCVL16</b>	510-590
	<b>SCVM16</b>	725-825
3"	<b>SCVS16</b>	900-1050
	<b>SCVH16</b>	1100-1200
	<b>SCVL24</b>	1200-1400
	<b>SCVS24</b>	2400-2700
	<b>SCVH24</b>	2850-3050

## Hose Coupling Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations.
- Call Dixon (1-800-355-1991) for advice on couplings, retention devices, and accessories for your application.



### Dixon Valve & Coupling Co.

800 High Street  
Chestertown, MD 21620  
800.355.1991  
Fax: 800.283.4966  
[www.dixonvalve.com](http://www.dixonvalve.com)

Printed in the USA

# *Safety Concerns*

*got you tied up ...*



**Dixon Valve & Coupling Company**

*The Standard of Quality and Service Since 1916*  
*Accept No Substitutes*



*... Dixon's trained staff can help*

# Dixon Valve & Coupling Company's

## *Safety Survey Program*



### About the Program

Dixon Valve and Coupling Company, in partnership with your Industrial Hose Supplier, is pleased to offer a Hose Coupling Safety Survey of your plant. Our team will assist in your efforts to make your facility as safe, efficient and productive as possible.

Today, plant safety is an enormous, ongoing endeavor in which it is impossible to be an expert in every field.

The use of damaged or misapplied hose couplings and related items occurs. To the untrained eye, these hazards may continue to exist until an accident happens, threatening not only plant machinery but also the well-being of plant personnel.

Our program includes a visual inspection of hose assemblies and related accessories in your plant by trained technicians. A professionally written report containing our observations and recommendations for corrective action is subsequently provided to augment your own ongoing Safety Program. As a follow-up, the program offers an educational hands-on seminar directly relating to the safety concerns in your facility.

Plant Safety is coming under increasing scrutiny by various regulatory agencies. Let Dixon's trained personnel assist you in establishing and maintaining safety compliance in your plant.

The Safety Survey report is completely confidential and will only be shown to authorized plant personnel. Again, there is no cost to you for this service.

---

### What the Customers' Say...

*"We found this service valuable and would consider having another one in the future."*

Larry Gentzler, Safety Coordinator, Farmland Industries, Inc.

*"It would be mutually beneficial to conduct the same safety survey annually."*

John Profaizer, Safety Manager, Dow Brands



#### ***Clamps are bottomed-out***

Individual body sections of bolt style clamps should never be allowed to come in contact with each other.

*recommendation #103*



### ***In-line clamps***

The buckles of band clamps should be offset to eliminate the possibility of a straight line leak.

*recommendation #102*



### ***Missing bolts on clamps***

The bolts supplied with the clamps are a designed part of the overall usability and function of the clamp.

*recommendation #114*



### ***Dust Plug usage***

The use of dust plugs helps to keep contaminants out of lines, prevents environmental damage and keeps the gaskets properly in place.

*recommendation #204*



### ***Damaged Cam & Groove handles***

These parts are durable but not indestructible. Missing or damaged parts must be replaced.

*recommendation #206*



### ***Missing safety clips***

The use of a safety type retainer is necessary to assure that the universal couplings will not accidentally disconnect.

*recommendation #308*



### ***Common pipe nipples***

Industrial hose should be coupled with properly "barbed" or "serrated" hose stems.

*recommendation #404*



### ***Horizontal outlets***

A hard piped outlet horizontal to the floor is very dangerous, inefficient and causes undue stress on the hose.

*recommendation #503*



## ***BE SAFE***

Hose assemblies must be inspected prior to each use. Worn out fittings, attachment devices, hose and accessory items must be replaced. Retaining devices (safety devices) such as clips, cables or chains must be used. Clamps must be checked regularly to the specified torque found in the Dixon literature. Under no circumstance should any coupling be disconnected while under pressure unless the coupling is specifically designed to do so. Disconnecting couplings under pressure could result in serious injury or death, and destruction to property and equipment.

### **FOR ALL HOSE ASSEMBLIES IN USE:**

- B**eware - Hose assemblies when used improperly or in the wrong application can be dangerous. The maximum working pressure shown on the hose is not an indication of the working pressure of the assembly. Based on the hose, fittings and attachment method used all assemblies should be permanently marked with the designed working pressure and the intended media. The assembly working pressure should be permanently displayed. Hose assemblies must be used for the intended service only. Never alter a manufactured product or substitute component parts.
- E**liminate-Hazardous conditions by inspecting, maintaining and testing hose assemblies. Dixon recommends that all hose assemblies be tested in accordance with the hose manufacturer's specifications. The application determines the regularity of the re-testing schedule.
- S**ecure and inspect hose, fittings, clamping devices and safety accessories before each use. Never take for granted that the coupling or attachment devices are properly installed.
- A**lways inspect and re-tighten the bolts of any bolt style clamping device to the manufacturer's torque specifications.
- F**ittings, hose and clamping devices that are worn out or damaged must be removed from service.
- E**ducate your employees about the proper use, care and potential hazards of hose assemblies. Take advantage of Dixon's free Safety Survey Program and the follow up Training Seminar to aid you in setting up your own inspection program. Any questions on applications, use or assembly call 1-800-355-1991

## **SAFETY STATEMENT**

Dixon's couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling, and retention devices; and the proper application of the coupling to the hose are of utmost importance. Users must consider the size, temperature, application, media, pressure, and hose and coupling manufacturer's recommendations when selecting the proper hose assembly components. Dixon recommends that all hose assemblies be tested in accordance with the Rubber Manufacturers Association's recommendations and be inspected regularly (before each use), to ensure that they are not damaged or have become loose.

Safety devices are integral to the coupling and must be working and utilized. The use of supplementary safety devices, such as safety clips and King Cable, are recommended. If any problem is detected, couplings must be removed from service immediately.

Please take advantage of Dixon's highly trained staff for consultation and training. Do not hesitate in contacting us for recommendations on the proper selection and application of the fittings and accessories offered in our catalog.

We strongly recommend that distributors and end users make use of Dixon's Engineering services for recommendations for special, or, critical applications.

Dixon can be contacted at 1-800-355-1991.



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## 500# All Polyester Rack Hose

**Outer construction:**  
Single jacket, all polyester  
**Tube construction:**  
Clear thermoplastic

- **Not** to be used for washdown  
*For pin rack service / emergency fire fighting only.*



Proof pressure: **500 PSI**  
Service test pressure: **250 PSI**  
Working pressure: **225 PSI**

**Coupled with female and male NST (NH) thread expansion ring couplings**

Size	Length	Part #	Rocker Lug Aluminum NST (NH) RAF	Combo Lug Brass* NST (NH) CBF
1½"	50'	<b>R515-50</b>	<b>\$189.00</b>	<b>\$192.55</b>
1½"	100'	<b>R515100</b>	<b>304.95</b>	<b>315.75</b>

\* Brass expansion ring couplings have one pin lug and one rocker lug on the female end.  
Rack hoses are **not** recommended for use with field reattachable couplings (*Flat Seal*).



## 500# All Polyester Rack Hose - UL Labeled

**Outer construction:**  
Single jacket, all polyester  
**Tube construction:**  
Clear thermoplastic

- **Not** to be used for washdown  
*For pin rack service / emergency fire fighting only.*



Proof pressure: **300 PSI**  
Service test pressure: **150 PSI**  
Working pressure: **135 PSI**

**Coupled with female and male NST (NH) thread, brass expansion ring couplings \***

Size	Length	Part #	Price / Each
1½"	50'	<b>R515U50CBF</b>	<b>\$215.80</b>
1½"	100'	<b>R515U100CBF</b>	<b>368.50</b>

\* Rack hose couplings have one pin lug and one rocker lug on the female end.  
Rack hoses are **not** recommended for use with field reattachable couplings (*Flat Seal*).

## 500# Single Jacket Mine Fire Hose - MSHA Approved

Approved by MSHA - (Mine Safety and Health Administration), for all mine fire protection applications.

**Outer construction:**  
Single jacket, flame resistant synthetic  
**Tube construction:**  
Black flame resistant Neoprene rubber

*Consult the factory for pricing and availability for any of the following features:*

- 25' and 100' lengths
- Other threads and configurations



Proof pressure: **500 PSI**  
Servicetest pressure: **250 PSI**  
Working pressure: **225 PSI**

**Coupled with female and male expansion ring couplings**

Size	Length	Part #	Rocker Lug Aluminum NST (NH) RAF	Rocker Lug Aluminum NPSH RAS
1½"	50'	<b>SM515W50</b>	<b>\$490.90</b>	<b>\$490.90</b>



## 300# Single Jacket All Polyester Fire Hose

**Outer construction:**  
Single jacket, all polyester  
**Tube construction:**  
EPDM Rubber lining

Consult the factory for pricing and availability for any of the following features:

- 25' and 75' lengths
- U/L labeled hoses
- Other threads and configurations
- Hoses coupled with field reattachable couplings (*Flat Seal*)

Proof pressure: **300 PSI**  
Service test pressure: **150 PSI**  
Working pressure: **135 PSI**



uncoupled

### Uncoupled

Size	Bowl	Length	Part #	Price / Each
1½"	1-13/16"	50'	<b>A315-50UC</b>	<b>\$156.85</b>
1½"	1-13/16"	100'	<b>A315-100UC</b>	<b>313.70</b>
2½"	2-13/16"	50'	<b>A325-50UC</b>	<b>275.75</b>
2½"	2-13/16"	100'	<b>A325-100UC</b>	<b>551.50</b>



coupled

### Coupled with female and male expansion ring couplings

Size	Length	Part #	Rocker Lug Aluminum NST (NH) RAF	Rocker Lug Brass NST (NH) RBF	Pin Lug Brass NST (NH) PBF	Rocker Lug Aluminum NPSH RAS
1½"	50'	<b>A315-50</b>	<b>\$220.10</b>	<b>\$238.65</b>	<b>\$238.65</b>	<b>\$220.10</b>
1½"	100'	<b>A315100</b>	<b>366.70</b>	<b>400.20</b>	<b>400.20</b>	<b>366.70</b>
2½"	50'	<b>A325-50</b>	<b>377.55</b>	<b>431.30</b>	<b>431.30</b>	<b>377.55</b>
2½"	100'	<b>A325100</b>	<b>648.85</b>	<b>718.00</b>	<b>718.00</b>	<b>648.85</b>

## 500# Single Jacket All Polyester Fire Hose

**Outer construction:**  
Single jacket, all polyester  
**Tube construction:**  
EPDM Rubber lining

Consult the factory for pricing and availability for any of the following features:

- 75' lengths
- U/L labeled hoses
- Other threads and configurations
- Hoses coupled with field reattachable couplings (*Flat Seal*)

Proof pressure: **500 PSI**  
Service test pressure: **250 PSI**  
Working pressure: **225 PSI**



uncoupled

### Uncoupled

Size	Bowl	Length	Part #	Price / Each
1½"	1-13/16"	50'	<b>A515-50UC</b>	<b>\$171.40</b>
1½"	1-13/16"	100'	<b>A515-100UC</b>	<b>342.80</b>
2½"	2-13/16"	50'	<b>A525-50UC</b>	<b>289.35</b>
2½"	2-13/16"	100'	<b>A525-100UC</b>	<b>578.70</b>



coupled

### Coupled with female and male expansion ring couplings

Size	Length	Part #	Rocker Lug Aluminum NST (NH) RAF	Rocker Lug Brass NST (NH) RBF	Pin Lug Brass NST (NH) PBF	Rocker Lug Aluminum NPSH RAS
1½"	25'	<b>A515-25</b>	<b>\$151.70</b>	---	---	---
1½"	50'	<b>A515-50</b>	<b>233.90</b>	<b>\$258.35</b>	<b>\$258.35</b>	<b>\$233.90</b>
1½"	100'	<b>A515100</b>	<b>393.25</b>	<b>429.90</b>	<b>429.90</b>	<b>393.25</b>
2½"	25'	<b>A525-25</b>	<b>258.90</b>	---	---	---
2½"	50'	<b>A525-50</b>	<b>396.10</b>	<b>452.60</b>	<b>452.60</b>	<b>396.10</b>
2½"	100'	<b>A525100</b>	<b>705.55</b>	<b>777.90</b>	<b>777.90</b>	<b>705.55</b>

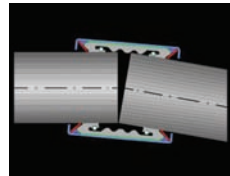


# Straub

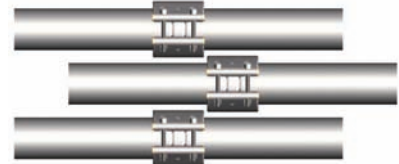
## Open-Flex 1L Couplings

*Joins like or dissimilar pipe materials: steel, galvanized, painted, stainless steel, thin-wall stainless steel, PVC, copper*

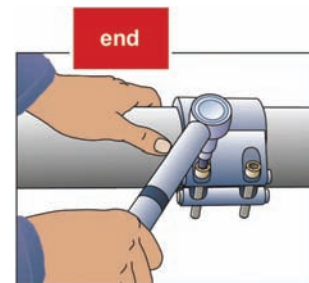
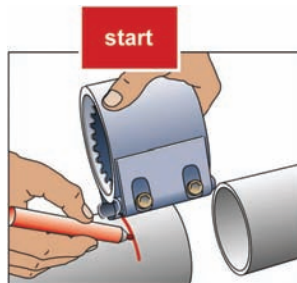
- Requires no pipe-end preparation; only a torque wrench is required for a secure and safe pipe connection that never needs retightening.
- Highest quality 316 Ti stainless steel construction
- Accommodates up to 5° of pipe misalignment
- Vary gap between pipe ends
- Absorbs vibration, water hammer, and sound
- Acts as an expansion joint; will accept up to .25" of axial movement
- 5 year limited warranty
- Reusable
- Conforms to ASTM 1476, Type 2, Class 3 specifications



Accommodates up to 5° of pipe misalignment



Lends itself well to confined areas



Straub couplings eliminate the need for threading, flanging, galling and welding. Coupling installation takes minutes instead of hours.

- 1½" installation - 2 minutes
- 4" installation - 5 minutes
- 8" installation - 9 minutes
- assembly tool available part # **STR6648**

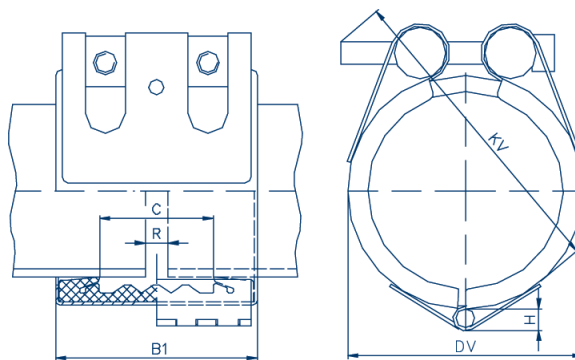
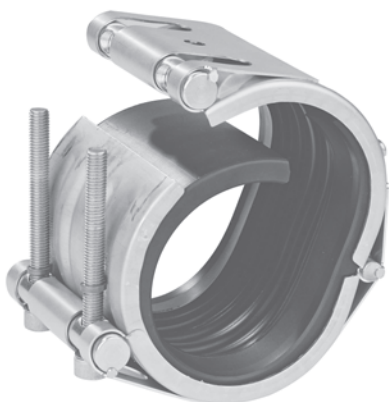


## Straub Open-Flex 1L Couplings

Straub Open-Flex 1L couplings are suitable for repairing or joining pipes where access to the pipe end is difficult or not possible. This unique wrap-around design differs from similar type repair products because the installation or repair is permanent due to the unique flexible lipseal gasket design. Open-Flex couplings will also act as an expansion joint. Straub Open-Flex couplings do *require the pipes to be properly anchored and restrained* as they are *not pull-out resistant* like the Straub Grip-L couplings. Use Straub Open-Flex couplings to replace bolted sleeve type couplings (AWWA Std. C-219) or for permanent repairs or installation.

### Specifications:

- Casing: AISI 316Ti
- Screws: AISI 4135 steel
- Bolts: AISI 12L 14 Galvanized
- EPDM sealing sleeve: temperature range - 4°F to 176°F (-20°C to 80°C)



Nominal Size	Pipe O.D. (in.)		Working Pressure PSI	Dimensions (in.)					Maximum Distance Between Pipe End R	Weight (lbs.)	Part #
				Coupling			Assembled				
				B	C	H	DV	KV			
1½"	1.90	1.85 - 1.95	232	3.0	1.4	.28	2.8	3.3	.20	1.10	<b>STR35001</b>
2"	2.38	2.32 - 2.42	232	3.0	1.4	.28	3.2	3.7	.20	1.34	<b>STR35151</b>
2½"	2.88	2.81 - 2.93	232	3.7	2.0	.36	3.7	4.6	.20	1.80	<b>STR35201</b>
3"	3.50	3.44 - 3.56	232	3.7	2.0	.36	4.4	5.2	.20	2.10	<b>STR35351</b>
4"	4.50	4.43 - 4.57	232	3.7	2.0	.36	5.4	6.2	.20	2.33	<b>STR35651</b>
5"	5.56	5.51 - 5.62	232	4.2	2.4	.38	6.4	6.9	.20	3.20	<b>STR35901</b>
6"	6.63	6.52 - 6.71	232	4.2	2.4	.38	7.5	8.1	.20	3.70	<b>STR36051</b>

**SAFETY  
ALERT**

***Not pull-out resistant.***

Ensure that pipes are properly anchored and supported.

Assembly tool, part # STR6648 is available.



**Dixon Valve & Coupling Co.**  
800 High Street  
Chestertown, MD 21620



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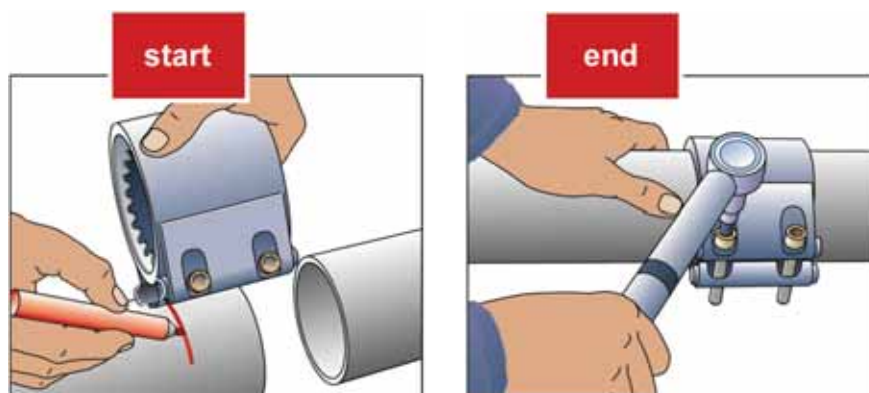
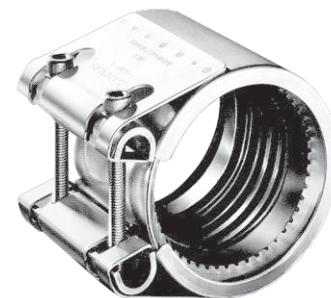


# Straub Pipe to Pipe Couplings

*Joins like or dissimilar pipe materials: steel, galvanized, painted, stainless steel, thin-wall stainless steel, PVC, copper*

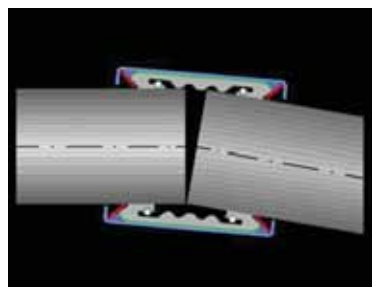
## Features:

- Requires no special tools or pipe-end preparation; only a torque wrench is required for a secure and safe pipe connection that never needs retightening.
- Absorbs vibration, water hammer, and sound
- Component parts are 316 Ti stainless steel, *elastomer liner*
- Particularly suitable for pipes within the lower pressure range
- Vary gap between pipe ends
- Special patented grip ring for superior holding power on hard-surfaced pipes
- 5 year limited warranty
- Reusable
- Built to ASTM 1476, Type 2, Class 2 specifications
- Applications include, but are not limited to: shipbuilding, water and waste water treatment plants, and industrial process pipework.

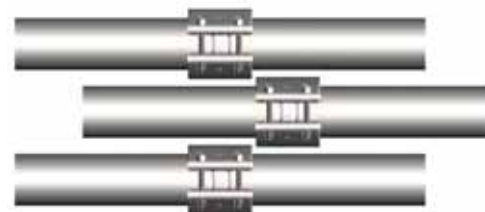


Straub couplings eliminate the need for threading, flanging, galling and welding. Coupling installation takes minutes instead of hours.

- 1½" installation - 2 minutes
- 4" installation - 5 minutes
- 8" installation - 9 minutes



Accommodates up to 5° of pipe misalignment



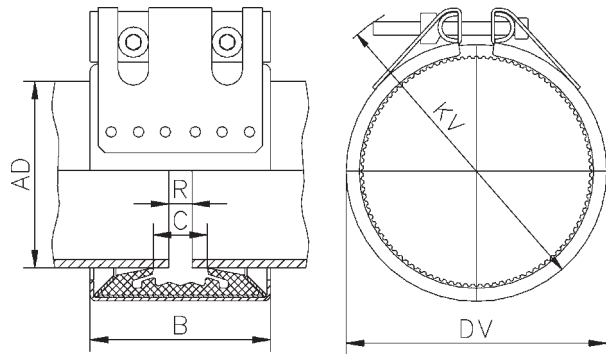
Lends itself well to confined areas

## Straub Grip-L Axial Restraint Pipe Couplings

Straub Grip-L couplings are suitable particularly for pipes within the lower pressure range. Applications include, but are not limited to: ship building, water and waste water treatment plants, and industrial process pipework.

**Specifications:**

- Casing: AISI 316Ti
- Screws: AISI 316 L
- U-bolts: AISI 316 Ti
- Anchoring ring: AISI 301
- Sealing sleeve: EPDM standard (NBR and Viton® A<sup>1</sup> are also available, contact the factory for additional information)
- EPDM sealing sleeve: temperature range - 4°F to 200°F (-20°C to 93°C)



Size	Pipe O.D. (in.)			Working Pressure PSI	Torque Rating (ft. lbs.)	Coupling Dimensions (in.)		Assembled Dimensions (in.)		Maximum Distance Between Pipe End (R)	Part #
	Actual	Tolerance +	-			B	C	DV	KV		
1½"	1.90	0.2	-0.2	440	11	2.4	1.0	2.6	3.9	0.2	<b>STR20300</b>
2"	2.37	0.3	-0.2	320	11	3.0	1.5	3.1	4.3	0.4	<b>STR20450</b>
2½"	2.87	0.3	-0.2	450	15	3.7	1.6	3.8	5.3	0.4	<b>STR20500</b>
3"	3.50	0.4	-0.4	320	15	3.7	1.6	4.4	5.9	0.4	<b>STR20650</b>
4"	4.50	0.4	-0.4	232	18	3.7	1.6	5.4	6.6	0.4	<b>STR20900</b>
5"	5.56	0.6	-0.5	232	30	4.3	2.1	6.5	8.3	0.4	<b>STR21150</b>
6"	6.63	0.6	-0.7	232	30	4.3	2.1	7.6	9.1	0.4	<b>STR21350</b>
8"	8.63	0.8	-0.9	232	45	5.6	3.2	9.8	11.6	0.4	<b>STR21400</b>



All Straub couplings require the correct use of a torque wrench for a safe and proper installation. Straub couplings must be torqued to the specified value as printed on each individual coupling. Failure to do so can result in serious injury or death.

**Not for steam or refrigerant service.**

**Dixon Valve & Coupling Co.**  
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Chestertown, MD 21620



877.963.4966  
Fax: 800.283.4966  
[www.dixonvalve.com](http://www.dixonvalve.com)





# Surelock Quick Acting Couplings

*Dixon's new Surelock fittings match or exceed the working pressure of most premium air and water hoses up to 500 PSI !*

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The working pressure of any assembly is determined by the lowest pressure rating of the components, hose, fittings and attachment method. Because of their unique natural rubber 'bellows' seal Surelock fittings are rated up to **500PSI** working pressure for air and water service. Surelock hose fittings can be double banded or permanently attached with a ferrule. Make sure your 500 PSI hose has a fitting designed to handle the pressure. For "The Right Connection" use Dixon Surelock fittings.

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The Surelock coupling is a multi-purpose coupling for water and air, commonly used in construction and mining. This coupling excels where ease, economy, safety and speed are paramount. They are stocked in sizes from 1/2" through 2". The pressure activated bellows gasket allows easy coupling (less than 15 lbs. of force is required to connect the coupling) and gaskets seal upon introduction of line pressure.



**Safety pins are required as a safety precaution.**

## Specifications:

- Body: SG iron AS1831 400-250-12
- Bellow seal: natural rubber (patent pending), other seal material available upon request
- Working pressure: **500 PSI**



female NPT



male NPT



hose shank



## Surelock Fittings with Ferrules

Universal design provides quick, easy and effective coupling of air hose. Exclusive interlocking ferrule can be crimped or swaged to achieve maximum coupling sealing and retention with a low profile streamline appearance. *Consult factory for crimp recommendations.*



Dixon recommends that all hose assemblies be tested in accordance with RMA testing procedures.

- Rated to **500 PSI** working pressure.
- *For air and water service only.*

**SAFETY**  
**ALERT**

## Surelock Accessories

### Blank Ends



### Three Way Connectors



### Standard Natural Rubber Bellows Seals



### Safety Locking Pin

**SAFETY**  
**ALERT**

**Warning:** The use of a safety locking pin is necessary to ensure that Surelock couplings will not become accidentally disconnected. This guarantees that the fittings are properly connected as the pin will not go through the holes in both couplings until the couplings are locked into place.



## Hose Coupling Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the **Rubber Manufacturers Association** recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations.
- Call Dixon (1-877-963-4966) for advice on couplings, retention devices, and accessories for your application.



### Dixon Valve & Coupling Co.

800 High Street  
Chestertown, MD 21620  
877.963.4966  
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# T-Bolt Clamps



*The Right Connection™*

## Standard Series



- T-bolts can be applied with a standard 7/16" socket wrench
- 3/4" wide 300 series stainless steel band, .025" thick
- **TBC style clamps** have an alloy steel bolt. **Torque rating 70 in/lbs**
- **STBC style clamps** have a 300 series stainless steel bolt. **Torque rating 50 in/lbs**

### Style TBC

*stainless steel band, carbon steel bolt*

Hose O.D. Range		Part #	Hose O.D. Range		Part #
From:	To:		From:	To:	
1.250"	1.406"	<b>TBC131</b>	3.516"	3.812"	<b>TBC375</b>
1.344"	1.562"	<b>TBC150</b>	3.586"	3.882"	<b>TBC382</b>
1.594"	1.812"	<b>TBC175</b>	3.766"	4.062"	<b>TBC400</b>
1.724"	1.942"	<b>TBC188</b>	4.016"	4.312"	<b>TBC425</b>
1.844"	2.062"	<b>TBC200</b>	4.266"	4.562"	<b>TBC450</b>
2.094"	2.312"	<b>TBC225</b>	4.516"	4.812"	<b>TBC475</b>
2.224"	2.442"	<b>TBC238</b>	4.766"	5.062"	<b>TBC500</b>
2.344"	2.562"	<b>TBC250</b>	5.016"	5.312"	<b>TBC525</b>
2.326"	2.622"	<b>TBC256</b>	5.266"	5.562"	<b>TBC550</b>
2.396"	2.692"	<b>TBC263</b>	5.516"	5.812"	<b>TBC575</b>
2.516"	2.812"	<b>TBC275</b>	5.766"	6.062"	<b>TBC600</b>
2.646"	2.942"	<b>TBC288</b>	6.016"	6.312"	<b>TBC625</b>
2.766"	3.062"	<b>TBC300</b>	6.266"	6.562"	<b>TBC650</b>
2.886"	3.182"	<b>TBC312</b>	6.516"	6.812"	<b>TBC675</b>
3.016"	3.312"	<b>TBC325</b>	6.766"	7.062"	<b>TBC700</b>
3.266"	3.562"	<b>TBC350</b>	7.266"	7.562"	<b>TBC750</b>

### Style STBC

*stainless steel band, stainless steel bolt*

Hose O.D. Range		Part #	Hose O.D. Range		Part #
From:	To:		From:	To:	
1.250"	1.406"	<b>STBC131</b>	4.016"	4.312"	<b>STBC425</b>
1.344"	1.562"	<b>STBC150</b>	4.266"	4.562"	<b>STBC450</b>
1.594"	1.812"	<b>STBC175</b>	4.516"	4.812"	<b>STBC475</b>
1.724"	1.942"	<b>STBC188</b>	4.766"	5.062"	<b>STBC500</b>
1.844"	2.062"	<b>STBC200</b>	5.016"	5.312"	<b>STBC525</b>
2.182"	1.964"	<b>STBC212</b>	5.266"	5.562"	<b>STBC550</b>
2.094"	2.312"	<b>STBC225</b>	5.516"	5.812"	<b>STBC575</b>
2.224"	2.442"	<b>STBC238</b>	5.766"	6.062"	<b>STBC600</b>
2.344"	2.562"	<b>STBC250</b>	6.016"	6.312"	<b>STBC625</b>
2.326"	2.622"	<b>STBC256</b>	6.266"	6.562"	<b>STBC650</b>
2.396"	2.692"	<b>STBC263</b>	6.516"	6.812"	<b>STBC675</b>
2.516"	2.812"	<b>STBC275</b>	6.766"	7.062"	<b>STBC700</b>
2.646"	2.942"	<b>STBC288</b>	7.266"	7.562"	<b>STBC750</b>
2.766"	3.062"	<b>STBC300</b>	7.766"	8.062"	<b>STBC800</b>
2.886"	3.182"	<b>STBC312</b>	8.266"	8.562"	<b>STBC850</b>
3.016"	3.312"	<b>STBC325</b>	8.942"	8.646"	<b>STBC888</b>
3.266"	3.562"	<b>STBC350</b>	8.766"	9.062"	<b>STBC900</b>
3.682"	3.386"	<b>STBC362</b>	9.266"	9.562"	<b>STBC950</b>
3.516"	3.812"	<b>STBC375</b>	9.766"	10.062"	<b>STBC1000</b>
3.586"	3.882"	<b>STBC382</b>	10.646"	10.942"	<b>STBC1088</b>
3.766"	4.062"	<b>STBC400</b>	11.766"	12.062"	<b>STBC1200</b>
			12.646"	12.942"	<b>STBC1288</b>

# Heavy Duty Series



- T-bolts can be applied with a standard 1/2" socket wrench
- 7/8" wide 300 series stainless steel band, .040" thick
- **HTBC style clamps** have a carbon steel bolt. **Torque rating 240 in/lbs**
- **HSTBC style clamps** have a 300 series stainless steel bolt. **Torque rating 180 in/lbs**

## Style HTBC

*stainless steel band, carbon steel bolt*

Hose O.D. Range		Part #
From:	To:	
2.125"	2.4375"	<b>HTBC238</b>
2.250"	2.5625"	<b>HTBC250</b>
2.750"	3.0625"	<b>HTBC300</b>
3.250"	3.5625"	<b>HTBC350</b>
3.750"	4.0625"	<b>HTBC400</b>
4.250"	4.5625"	<b>HTBC450</b>
4.750"	5.0625"	<b>HTBC500</b>
5.250"	5.5625"	<b>HTBC550</b>
5.750"	6.0625"	<b>HTBC600</b>
6.250"	6.5625"	<b>HTBC650</b>
6.750"	7.0625"	<b>HTBC700</b>
7.250"	7.5625"	<b>HTBC750</b>
7.750"	8.0625"	<b>HTBC800</b>

## Style HSTBC

*stainless steel band, stainless steel bolt*

Hose O.D. Range		Part #	Hose O.D. Range		Part #
From:	To:		From:	To:	
2.125"	2.4375"	<b>HSTBC238</b>	6.750"	7.0625"	<b>HSTBC700</b>
2.250"	2.5625"	<b>HSTBC250</b>	7.250"	7.5625"	<b>HSTBC750</b>
2.750"	3.0625"	<b>HSTBC300</b>	7.750"	8.0625"	<b>HSTBC800</b>
3.250"	3.5625"	<b>HSTBC350</b>	8.250"	8.5625"	<b>HSTBC850</b>
3.750"	4.0625"	<b>HSTBC400</b>	8.625"	8.9375"	<b>HSTBC888</b>
4.250"	4.5625"	<b>HSTBC450</b>	8.750"	9.0625"	<b>HSTBC900</b>
4.750"	5.0625"	<b>HSTBC500</b>	9.250"	9.5625"	<b>HSTBC950</b>
5.250"	5.5625"	<b>HSTBC550</b>	9.750"	10.0625"	<b>HSTBC1000</b>
5.750"	6.0625"	<b>HSTBC600</b>	10.625"	10.9375"	<b>HSTBC1088</b>
6.250"	6.5625"	<b>HSTBC650</b>	11.750"	12.0625"	<b>HSTBC1200</b>
			12.625"	12.9375"	<b>HSTBC1288</b>

## Long Bolt Series



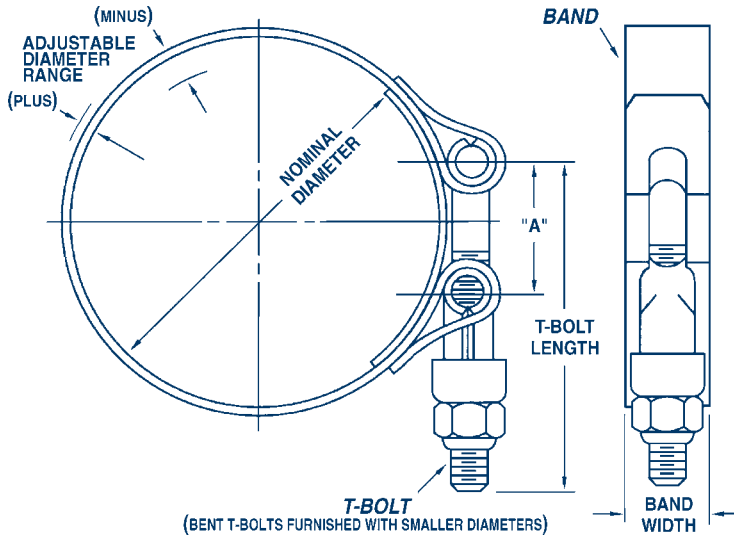
- T-bolts can be applied with a standard 7/16" socket wrench
- 3/4" wide 300 series stainless steel band, .025" thick
- **STBCL style clamps** have a 300 series stainless steel bolt. **Torque rating 50 in/lbs**

### Style STBCL

*stainless steel band, stainless steel bolt*

Hose O.D. Range		Part #
From:	To:	
2.80"	3.37"	<b>STBC325L</b>
3.05"	3.62"	<b>STBC350L</b>
3.37"	3.94"	<b>STBC382L</b>
3.55"	4.12"	<b>STBC400L</b>
3.75"	4.32"	<b>STBC420L</b>
3.87"	4.44"	<b>STBC432L</b>
4.05"	4.62"	<b>STBC450L</b>
4.37"	4.94"	<b>STBC482L</b>
4.55"	5.12"	<b>STBC500L</b>
4.87"	5.44"	<b>STBC532L</b>
5.05"	5.62"	<b>STBC550L</b>
5.37"	5.94"	<b>STBC582L</b>
5.55"	6.12"	<b>STBC600L</b>
5.87"	6.44"	<b>STBC632L</b>
6.05"	6.62"	<b>STBC650L</b>
6.30"	6.87"	<b>STBC675L</b>
6.53"	7.10"	<b>STBC698L</b>
6.55"	7.12"	<b>STBC700L</b>
6.62"	7.19"	<b>STBC707L</b>
8.30"	8.87"	<b>STBC875L</b>
8.62"	9.19"	<b>STBC907L</b>
10.25"	10.82"	<b>STBC1070L</b>
10.43"	11.00"	<b>STBC1088L</b>
10.62"	11.19"	<b>STBC1107L</b>
10.72"	11.29"	<b>STBC1117L</b>
12.20"	12.77"	<b>STBC1265L</b>
12.43"	13.00"	<b>STBC1288L</b>
12.75"	13.32"	<b>STBC1320L</b>
14.20"	14.77"	<b>STBC1465L</b>
14.43"	15.00"	<b>STBC1488L</b>
14.75"	15.32"	<b>STBC1520L</b>
16.20"	16.77"	<b>STBC1665L</b>
16.43"	17.00"	<b>STBC1688L</b>

# Technical Specifications



		Standard clamp style TBC & STBC	Heavy Duty clamp style HTBC & HSTBC	Long Bolt clamp style STBCL
Dimension "A"	<i>center to center</i>	1-3/16"	1-3/8"	2"
T-Bolt	<i>thread size</i>	1/4-28 UNF3A	5/16-24 UNF3A	1/4-28 UNF3A
	<i>bolt length</i>	2-1/2"	3-1/2"	3-1/2"
Band	<i>width</i>	3/4"	7/8"	3/4"
	<i>thickness</i>	.025"	.040"	.025"
	<i>minimum diameter</i>	1-3/16"	2-5/8"	3-1/4"
	<i>nominal diameter adjustable range (+) to (-)</i>	5/64" to 15/64"	6/64" to 14/64"	8/16" to 29/64"

## General Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the **Rubber Manufacturers Association** recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations.
- Call Dixon (1-800-355-1991) for advice on couplings, retention devices, and accessories for your application.



Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for fire protection, food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

### **Dixon Valve & Coupling Company**

800 High Street

Chestertown, MD 21620

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# T-Bolt Clamps



*The Right Connection™*

## Standard Series



- T-bolts can be applied with a standard 7/16" socket wrench
- 3/4" wide 300 series stainless steel band, .025" thick
- **TBC style clamps** have an alloy steel bolt. **Torque rating 70 in/lbs**
- **STBC style clamps** have a 300 series stainless steel bolt. **Torque rating 50 in/lbs**

### Style TBC

*stainless steel band, carbon steel bolt*

Hose O.D. Range		Part #	Hose O.D. Range		Part #
From:	To:		From:	To:	
1.250"	1.406"	<b>TBC131</b>	3.516"	3.812"	<b>TBC375</b>
1.344"	1.562"	<b>TBC150</b>	3.586"	3.882"	<b>TBC382</b>
1.594"	1.812"	<b>TBC175</b>	3.766"	4.062"	<b>TBC400</b>
1.724"	1.942"	<b>TBC188</b>	4.016"	4.312"	<b>TBC425</b>
1.844"	2.062"	<b>TBC200</b>	4.266"	4.562"	<b>TBC450</b>
2.094"	2.312"	<b>TBC225</b>	4.516"	4.812"	<b>TBC475</b>
2.224"	2.442"	<b>TBC238</b>	4.766"	5.062"	<b>TBC500</b>
2.344"	2.562"	<b>TBC250</b>	5.016"	5.312"	<b>TBC525</b>
2.326"	2.622"	<b>TBC256</b>	5.266"	5.562"	<b>TBC550</b>
2.396"	2.692"	<b>TBC263</b>	5.516"	5.812"	<b>TBC575</b>
2.516"	2.812"	<b>TBC275</b>	5.766"	6.062"	<b>TBC600</b>
2.646"	2.942"	<b>TBC288</b>	6.016"	6.312"	<b>TBC625</b>
2.766"	3.062"	<b>TBC300</b>	6.266"	6.562"	<b>TBC650</b>
2.886"	3.182"	<b>TBC312</b>	6.516"	6.812"	<b>TBC675</b>
3.016"	3.312"	<b>TBC325</b>	6.766"	7.062"	<b>TBC700</b>
3.266"	3.562"	<b>TBC350</b>	7.266"	7.562"	<b>TBC750</b>

### Style STBC

*stainless steel band, stainless steel bolt*

Hose O.D. Range		Part #	Hose O.D. Range		Part #
From:	To:		From:	To:	
1.250"	1.406"	<b>STBC131</b>	4.016"	4.312"	<b>STBC425</b>
1.344"	1.562"	<b>STBC150</b>	4.266"	4.562"	<b>STBC450</b>
1.594"	1.812"	<b>STBC175</b>	4.516"	4.812"	<b>STBC475</b>
1.724"	1.942"	<b>STBC188</b>	4.766"	5.062"	<b>STBC500</b>
1.844"	2.062"	<b>STBC200</b>	5.016"	5.312"	<b>STBC525</b>
2.182"	1.964"	<b>STBC212</b>	5.266"	5.562"	<b>STBC550</b>
2.094"	2.312"	<b>STBC225</b>	5.516"	5.812"	<b>STBC575</b>
2.224"	2.442"	<b>STBC238</b>	5.766"	6.062"	<b>STBC600</b>
2.344"	2.562"	<b>STBC250</b>	6.016"	6.312"	<b>STBC625</b>
2.326"	2.622"	<b>STBC256</b>	6.266"	6.562"	<b>STBC650</b>
2.396"	2.692"	<b>STBC263</b>	6.516"	6.812"	<b>STBC675</b>
2.516"	2.812"	<b>STBC275</b>	6.766"	7.062"	<b>STBC700</b>
2.646"	2.942"	<b>STBC288</b>	7.266"	7.562"	<b>STBC750</b>
2.766"	3.062"	<b>STBC300</b>	7.766"	8.062"	<b>STBC800</b>
2.886"	3.182"	<b>STBC312</b>	8.266"	8.562"	<b>STBC850</b>
3.016"	3.312"	<b>STBC325</b>	8.942"	8.646"	<b>STBC888</b>
3.266"	3.562"	<b>STBC350</b>	8.766"	9.062"	<b>STBC900</b>
3.682"	3.386"	<b>STBC362</b>	9.266"	9.562"	<b>STBC950</b>
3.516"	3.812"	<b>STBC375</b>	9.766"	10.062"	<b>STBC1000</b>
3.586"	3.882"	<b>STBC382</b>	10.646"	10.942"	<b>STBC1088</b>
3.766"	4.062"	<b>STBC400</b>	11.766"	12.062"	<b>STBC1200</b>
			12.646"	12.942"	<b>STBC1288</b>

# Heavy Duty Series



- T-bolts can be applied with a standard 1/2" socket wrench
- 7/8" wide 300 series stainless steel band, .040" thick
- **HTBC style clamps** have a carbon steel bolt. **Torque rating 240 in/lbs**
- **HSTBC style clamps** have a 300 series stainless steel bolt. **Torque rating 180 in/lbs**

## Style HTBC

*stainless steel band, carbon steel bolt*

Hose O.D. Range		Part #
From:	To:	
2.125"	2.4375"	<b>HTBC238</b>
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3.250"	3.5625"	<b>HTBC350</b>
3.750"	4.0625"	<b>HTBC400</b>
4.250"	4.5625"	<b>HTBC450</b>
4.750"	5.0625"	<b>HTBC500</b>
5.250"	5.5625"	<b>HTBC550</b>
5.750"	6.0625"	<b>HTBC600</b>
6.250"	6.5625"	<b>HTBC650</b>
6.750"	7.0625"	<b>HTBC700</b>
7.250"	7.5625"	<b>HTBC750</b>
7.750"	8.0625"	<b>HTBC800</b>

## Style HSTBC

*stainless steel band, stainless steel bolt*

Hose O.D. Range		Part #	Hose O.D. Range		Part #
From:	To:		From:	To:	
2.125"	2.4375"	<b>HSTBC238</b>	6.750"	7.0625"	<b>HSTBC700</b>
2.250"	2.5625"	<b>HSTBC250</b>	7.250"	7.5625"	<b>HSTBC750</b>
2.750"	3.0625"	<b>HSTBC300</b>	7.750"	8.0625"	<b>HSTBC800</b>
3.250"	3.5625"	<b>HSTBC350</b>	8.250"	8.5625"	<b>HSTBC850</b>
3.750"	4.0625"	<b>HSTBC400</b>	8.625"	8.9375"	<b>HSTBC888</b>
4.250"	4.5625"	<b>HSTBC450</b>	8.750"	9.0625"	<b>HSTBC900</b>
4.750"	5.0625"	<b>HSTBC500</b>	9.250"	9.5625"	<b>HSTBC950</b>
5.250"	5.5625"	<b>HSTBC550</b>	9.750"	10.0625"	<b>HSTBC1000</b>
5.750"	6.0625"	<b>HSTBC600</b>	10.625"	10.9375"	<b>HSTBC1088</b>
6.250"	6.5625"	<b>HSTBC650</b>	11.750"	12.0625"	<b>HSTBC1200</b>
			12.625"	12.9375"	<b>HSTBC1288</b>

## Long Bolt Series



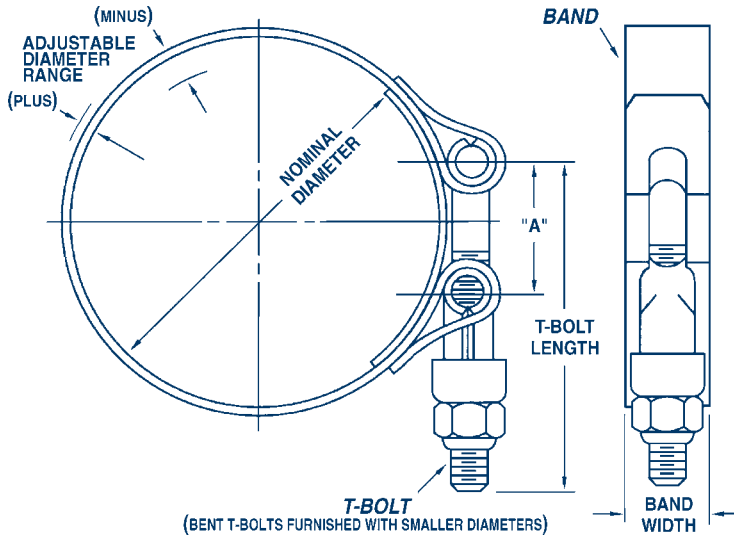
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### Style STBCL

*stainless steel band, stainless steel bolt*

Hose O.D. Range		Part #
From:	To:	
2.80"	3.37"	<b>STBC325L</b>
3.05"	3.62"	<b>STBC350L</b>
3.37"	3.94"	<b>STBC382L</b>
3.55"	4.12"	<b>STBC400L</b>
3.75"	4.32"	<b>STBC420L</b>
3.87"	4.44"	<b>STBC432L</b>
4.05"	4.62"	<b>STBC450L</b>
4.37"	4.94"	<b>STBC482L</b>
4.55"	5.12"	<b>STBC500L</b>
4.87"	5.44"	<b>STBC532L</b>
5.05"	5.62"	<b>STBC550L</b>
5.37"	5.94"	<b>STBC582L</b>
5.55"	6.12"	<b>STBC600L</b>
5.87"	6.44"	<b>STBC632L</b>
6.05"	6.62"	<b>STBC650L</b>
6.30"	6.87"	<b>STBC675L</b>
6.53"	7.10"	<b>STBC698L</b>
6.55"	7.12"	<b>STBC700L</b>
6.62"	7.19"	<b>STBC707L</b>
8.30"	8.87"	<b>STBC875L</b>
8.62"	9.19"	<b>STBC907L</b>
10.25"	10.82"	<b>STBC1070L</b>
10.43"	11.00"	<b>STBC1088L</b>
10.62"	11.19"	<b>STBC1107L</b>
10.72"	11.29"	<b>STBC1117L</b>
12.20"	12.77"	<b>STBC1265L</b>
12.43"	13.00"	<b>STBC1288L</b>
12.75"	13.32"	<b>STBC1320L</b>
14.20"	14.77"	<b>STBC1465L</b>
14.43"	15.00"	<b>STBC1488L</b>
14.75"	15.32"	<b>STBC1520L</b>
16.20"	16.77"	<b>STBC1665L</b>
16.43"	17.00"	<b>STBC1688L</b>

# Technical Specifications



		Standard clamp style TBC & STBC	Heavy Duty clamp style HTBC & HSTBC	Long Bolt clamp style STBCL
Dimension "A"	<i>center to center</i>	1-3/16"	1-3/8"	2"
T-Bolt	<i>thread size</i>	1/4-28 UNF3A	5/16-24 UNF3A	1/4-28 UNF3A
	<i>bolt length</i>	2-1/2"	3-1/2"	3-1/2"
Band	<i>width</i>	3/4"	7/8"	3/4"
	<i>thickness</i>	.025"	.040"	.025"
	<i>minimum diameter</i>	1-3/16"	2-5/8"	3-1/4"
	<i>nominal diameter adjustable range (+) to (-)</i>	5/64" to 15/64"	6/64" to 14/64"	8/16" to 29/64"

## General Safety

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the **Rubber Manufacturers Association** recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations.
- Call Dixon (1-800-355-1991) for advice on couplings, retention devices, and accessories for your application.



Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for fire protection, food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

### **Dixon Valve & Coupling Company**

800 High Street

Chestertown, MD 21620

Customer Service: 877.963.4966

Fax: 800.283.4966

**[www.dixonvalve.com](http://www.dixonvalve.com)**

# Valves



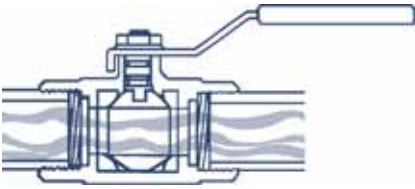
*The Right Connection™*

## Valve Selection Guide

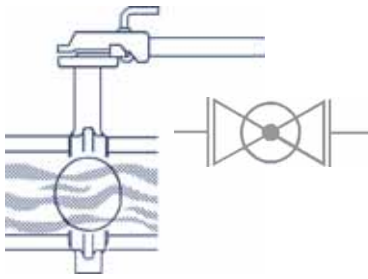
### Ball Valve



- Can be used for on and off service or throttling
- When positive shut-off is necessary
- Where a low valve profile is necessary
- Only 90° rotation from open to fully closed (quick opening)
- Handle position is a quick indication of whether valve is open or closed.
- Full port ball valves do not resist flow

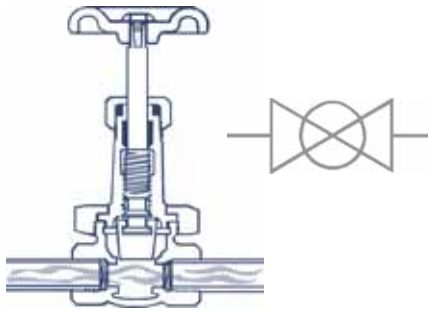


### Butterfly Valve



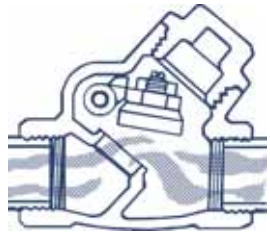
- Where positive shut-off is necessary
- Primarily for fully open or fully closed applications
- May be used for throttling
- Only 90° rotation from open to fully closed
- Lightweight
- Easy to install
- Less costly than an Iron body gate valve

### Gate Valve



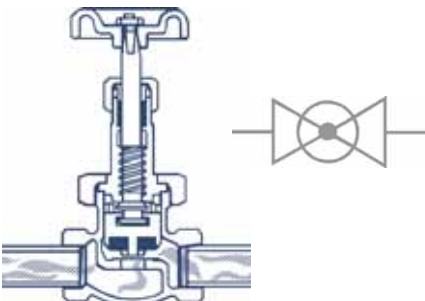
- For fully open or fully closed service  
*NOT FOR THROTTLING*
- For minimum line pressure drop
- For minimum fluid entrapment in the line
- For relatively infrequent operation

### Check Valve



- To control the direction of flow and for quick, automatic reactions to flow change. Swing check valves are used when a minimum resistance to flow is required.
- Swing check valves are recommended for use in conjunction with gate valves. They should not be used in a rapid recycling system such as reciprocating pumps or air compressor service where they could cause chatter and damaging vibration.

### Globe Valve



- For regulation (throttling) of flow
- For frequent operation; short stem travel reduces operator's time.
- Where some line resistance is acceptable

## SAFETY

- Use Dixon couplings, retention devices and accessory products **only** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size**, **Temperature**, **Application**, **Media**, and **Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the **Rubber Manufacturers Association** recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations.
- Call Dixon (1-877-963-4966) for advice on couplings, retention devices, and accessories for your application.

SAFETY  
ALERT

## Full Flow Aluminum Ball Valves

Female NPT x Female NPT

### Features

- High flow rate; low pressure drop
- Wetted parts are aluminum and stainless steel
- Seals are FPM (Viton® and PTFE Teflon®)
- Spindle can be disassembled even when ball valve is installed
- Working pressure: **150 PSI**
- Female NPT outlets are standard
- Optional flanges are available
- 2", 3" and 4" available in one-way and two-way flow
- One-way (**1WAYBV...**) and two-way (**2WAYBV...**)



Two-way ball valve shown

## Domestic Brass Ball Valves

Female NPT x Female NPT

### Features

- For control of air, water, oil and gas in hose or pipe lines.  
For other services, please contact the factory.
- Rated to **600 PSI WOG**; **150 PSI** saturated steam
- Brass valve bodies, balls and stems
- Blow-out proof stems
- Glass-filled reinforced Teflon® seats and stuffing box ring; stem seals and washers.
- Plated steel handles and nuts with vinyl sleeves, both styles repairable
- Meets WW-V 35C, Type II Composition
- Ball valve handle replacements available, consult factory for pricing.
- ¼" - ½" available in full port design (**BBV..**)
- ¾" - 2" available in standard port design (**BBV...**)



## Locking Handle Brass Ball Valves

Female NPT x Female NPT

### Features

- For control of air, water, oil and gas in hose or pipe lines.  
For other services, please contact the factory.
- Rated to **600 PSI WOG**; **150 PSI** steam
- Blow-out proof RPTFE stem
- Chrome-plated brass ball
- Stainless steel sliding lock mechanism secures handle in open or closed position; can be padlocked opened or closed.
- ¼" - ½" available in full port design (**BBLV..**)
- ¾" - 2" available in standard port design (**BBLV...**)

Sliding Lock  
Mechanism



## Imported Brass Ball Valves

Female NPT x Female NPT



### Features

- For control of air, water, oil and gas in hose or pipe lines. For other services, please contact the factory.
- Rated to **600 PSI WOG**; **100 PSI steam**
- Forged brass bodies
- Blow-out proof stems
- Teflon® seats, seals and thrust washers
- Chrome-plated brass balls and plated steel handles
- Temperature range to **320°F**
- Underwriters, Factory Mutual, American Gas Association and Canadian Gas Association approved
- ¼" - 4" available in full port design (**FBV.., FBV...**)

## Global Brass Ball Valves

Female NPT x Female NPT



### Features

- For control of air, water, oil and gas in hose or pipe lines.
- Rated to **600 PSI WOG**
- Body: forged brass, UNS#C37700
- Adjustable stem packing nut
- Silicone free
- Temperature range to **300°F**
- Underwriters approved
- CSA (Canadian Standards Association) approved
- ½" - 2" available in full port design (**FBVG.., FBVG...**)

## Imported Brass Ball Valves

Female NPT x Female NPT



### Features

#### Standard design

- For control of air, water, oil and gas in hose or pipe lines. For other services, please contact the factory.
- Rated to **600 PSI WOG**; **100 PSI steam**
- Forged brass bodies
- Blow-out proof stems
- Teflon® seats, seals and thrust washers
- Chrome-plated brass balls and plated steel handles
- Temperature range to **320°F**
- ½" - 2" available in standard port design (**BV.., BV...**)

### Features

#### Full port design

- For control of air, water, oil and gas in hose or pipe lines. For other services, please contact the factory.
- Rated to **400 PSI WOG**; **125 PSI steam**
- Blow-out proof stems
- PTFE seats, double O-ring stem packing
- Chrome-plated brass ball
- Temperature range to **266°F**
- Underwriters approved
- ½" - 2" available in full port design (**FBVI.., FBVI...**)



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## Brass Mini Ball Valves

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Female NPT x Female NPT



### Features

- Rated to **450 PSI**
- Nickel plated brass body
- Teflon® seats and Buna-N stem seal
- Blow-out proof stem
- Temperature range to **200°F**
- American Gas Association and Canadian Gas Association approved
- 1/8" - 1/2" available in standard port design (**MBV..**)
- 1/4" - 3/8" available in full port design (**MBV..**)



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## Safety Vented Ball Valves

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Female NPT x Female NPT

### Features

- For air service only
- Rated to **600 PSI WOG**; **150 PSI** saturated steam
- Lockable ball valves vent downstream air in accordance with new OSHA regulations for pneumatic systems.
- Brass valve
- Chromium plated ball
- RTFE seats and stuffing box ring
- Blow-out proof stem design
- Temperature range to **50°F - 200°F**
- Adjustable packing gland
- 1/4" - 1/2" available in full port design (**BBV..LV**)
- 3/4" - 2" available in standard port design (**BBV..LV**)

Sliding Lock Mechanism



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## Bronze "Deadman" Spring Return Handle Ball Valves

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Female NPT x Female NPT

### Features

- Rated to **600 PSI WOG**; **150 PSI** saturated steam
- Vacuum service to 29 inches Hg
- Threaded bronze valve
- Stainless steel lever
- Chromium plated ball
- RTFE seats and stuffing box ring
- Blow-out proof stem design
- Adjustable packing gland
- Spring return to close and open valve
- Operating torque approximately three times standard valve torque.
- 1/4" - 3/4" available in full port design (**BBV...SR**)
- 1" - 2" available in standard port design (**BBV...SR**)





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## Bronze Ball Valves with NPT Tap for Drain

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Female NPT x Female NPT



### Features

- Recommended for water and air service
- Rated to **125 PSI WOG**
- Bronze ball valves vent downstream air in accordance with OSHA regulations for pneumatic systems.
- Chromium plated ball
- RTFE seats and stuffing box ring
- Blow-out proof stem design
- Adjustable packing gland
- Auto-drain / Auto-vent
- Features a ¼" NPT tapped port for additional options such as an air venting elbow or noise muffler.
- ¼" - 1" available in full port design (**BBV-VT**)

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## 3-Way Diversion Ball Valves

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Female NPT x Female NPT



### Features

#### **Brass Valves**

- Can be used with gasoline and diesel fuel
- Rated to **400 PSI WOG**
- Bronze body
- Chromium-plated ball
- RPTFE seats and stuffing box ring
- Stainless steel handle and nut with vinyl sleeve
- Adjustable packing gland
- Female NPT
- ½" - 1" available in full and standard port design (**BBV-TW**)

### Features

#### **Stainless Steel Valves**

- Rated to **800 PSI WOG**
- Stainless steel body and ball
- Blow out proof stem
- RPTFE seats and stuffing box ring
- Stainless steel handle and nut with vinyl sleeve
- Adjustable packing gland
- Meets NACE MR-01-75
- Female NPT
- ½" - 1" available in full and standard port design (**SSBV-TW**)

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## 3-Way Diverting Ball Valves

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Female NPT x Female NPT x Female NPT



### Features

- Rated to **400 PSI WOG**; **100 PSI** saturated steam
- Brass body
- Blow out proof stem
- Chrome plated brass ball
- PTFE seats, seals, and thrust washer
- Adjustable stem packing
- Temperature range to **320°F**
- Female NPT
- ½" - 2" available in standard port design (**BBV-DTW**)

## Domestic Full Port Ball Valves

Female NPT x Female NPT

### Features

- Rated to **600 PSI** WOG; **150 PSI** saturated steam
- Machined solid chrome-plated ball
- Multi-fill PTFE seats and seals
- Adjustable packing
- Blow-out proof stem design
- Bronze castings
- Vacuum service to 29 inches Hg
- ¼" - 4" available in full port design (**BBV--FP**, **BBV...FP**)



## 250 Lb. Steam Ball Valves

Female NPT x Female NPT

### Features

- Recommended for use with fluids with widely varying temperatures and/or thermal expansion rates.
- Rated to **600 PSIG**; **250 PSI** saturated steam
- Vacuum service to 29 inches Hg
- Threaded bronze valve
- 316 stainless steel ball and stem
- Multi-filled RPTFE seats
- Multi-filled stuffing box ring
- High-temperature MTFE stem packing
- Blow-out proof stem design
- Adjustable packing gland
- Maximum temperature rating **406°F**
- ½" - 2" available in standard port design (**BBV--ST**)



## Carbon Steel Ball Valves

Female NPT x Female NPT

### Features

- ¼" to 1" are rated to **2000 PSI** WOG
- 1¼" to 2" are rated to **1500 PSI** WOG
- Rated to **150 PSI** saturated steam
- For control of air, water, oil and gas in hose or pipe lines. For other services contact the factory.
- RPTFE seats and seals
- Blow-out proof stem design
- Adjustable packing gland
- Chromium plated ball
- 1/4" - 3/8" available in full port design (**IBV--**)
- 1/2" - 2" available in standard port design (**IBV...)**



## High Pressure Full-Bore Hydraulic Ball Valves

Female NPTF x Female NPTF



### Features

- Blow-out proof stems
- Rugged carbon steel construction
- Viton® shaft seals
- ¼" - 2" available, (**HPBV...**)

## Dual Y Valves

Female NPT x Female NPT



### Features

- Dual action valve, ideal for compressor applications
- Female NPT threads
- Non-vented rated to **600 PSI** WOG
- Vented rated to **125 CWP** (Cold Working Pressure)
- 1" and 1½" available in non-vented and vented flow
- Non-vented (**BBV...DW**) and vented (**BBV...DWW**)

## In-Line Ball Valve with Air King End



### Features

- Easily maintained in line valve
- One piece ball and stem
- Positive on/off
- ¾" female NPT (**VAM75**)

## Stainless Steel Ball Valves

Female NPT x Female NPT



### Features

- For use in water, oil and gas
- ¼" - 2" rated to **1000 PSI** WOG (CWP);  
2½" - 3" rated to **800 PSI** WOG (CWP); **100 PSI** saturated steam
- 316 stainless steel body, ball and stem
- Teflon® seat, joint gasket and thrust washer
- Plastic cover on handle
- Blow-out proof stem design
- Temperature range **-60°F** to **450°F**
- ¼" - 3" available in full port design (**SSBV..**, **SSBV...**)

## Stainless Steel Ball Valves

Female NPT x Female NPT

### Features

- For use in water, oil and gas
- ¼" - 1" rated to **2000 PSI** (CWP);  
1¼" - 2" rated to **1500 PSI** (CWP)
- Body conforms to ASTM A-351 Grade CF8M
- Ball is 316 stainless steel
- PTFE, glass filled seat
- Blow-out proof stem design
- ¼" - 2" available in reduced port design (**SSBV..RP**, **SSBV...RP**)



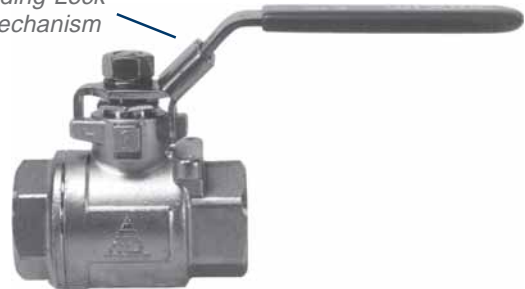
## Locking Handle Stainless Steel Ball Valves

Female NPT x Female NPT

### Features

- For use in water, oil and gas
- Rated to **1000 PSI** WOG; **100 PSI** saturated steam
- 316 stainless steel body, ball and stem
- Teflon® seat, joint gasket and thrust washer
- Plastic cover on handle
- Blow-out proof stem design
- Temperature range **-60°F** to **450°F**
- ¼" - 2" available in full port design (**SSLBV..**, **SSLBV...)**

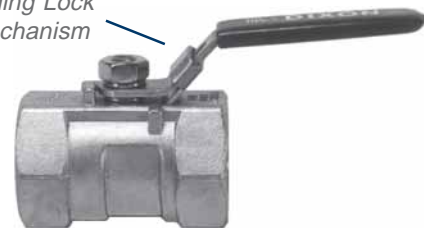
Sliding Lock  
Mechanism



### Features

- For use in water, oil and gas
- Rated to **800 PSI** WOG; **100 PSI** saturated steam
- 316 stainless steel body, ball and stem
- Teflon® seat, joint gasket and thrust washer
- Plastic cover on handle
- Blow-out proof stem design
- Temperature range **-60°F** to **450°F**
- ¼" - 2" available in standard port design (**SSLBV..SP**, **SSLBV...SP**)

Sliding Lock  
Mechanism



## Pneumatically Actuated Stainless 3 Piece Ball Valves

Full Port

Female NPT x Female NPT

### Features

- 3-piece rack and pinion design
- Hard anodized aluminum body actuator
- NAMUR mounting
- Swing out in-line easy maintenance
- Self-adjusting stem packing with Belleville washers
- ¼" - 2" rated to **1000 PSI** WOG;  
2½" - 3" rated to **800 PSI** WOG
- Media temperature range: **-40°F** to **400°F**
- Minimum operating pressure: **70 PSI**
- Maximum operating pressure: **150 PSI**
- Material: 316 stainless steel



## Pneumatically Actuated 2 Piece Ball Valves

Direct Mount - Full Port  
Female NPT x Female NPT



### Features

#### **316 Stainless Steel Valves**

- Precise stem alignment
- NAMUR interface
- Actuator temperature **-4°F to +185°F**
- Ball valve rated to **1,000 WOG/150 PSI** steam
- Ball valve maximum temperature to **366°F**
- Minimum operating pressure: **70 PSI**
- Maximum operating pressure: **150 PSI**
- Compact, no brackets required
- O-ring backed seats for lowest torque
- Double Viton® O-ring stem seals
- ISO 5211 pad

### Features

#### **Brass Valves**

- Precise stem alignment
- NAMUR interface
- Actuator temperature **-4°F to +185°F**
- Ball valve rated to **600 WOG/150 PSI** steam
- Ball valve maximum temperature to **366°F**
- Operating air pressure: **80 PSI** minimum, **120 PSI** maximum
- Minimum operating pressure: **40 PSI**
- Compact, no brackets required
- O-ring backed seats for lowest torque
- Double Viton® O-ring seals
- ISO 5211 pad

## Pneumatically Actuated 3-Way L Port Ball Valves

Direct Mount - Standard Port  
Female NPT x Female NPT



### Features

#### **316 Stainless Steel Valves**

- Precise stem alignment
- Diverting valve only
- 4-seat design - can use any port as an inlet
- ¼" - 1" rated to **1,000 WOG**
- 1¼" - 2" rated to **800 WOG**
- Live loaded stem seal
- Temperature to **400°F**
- Minimum operating pressure: **70 PSI**
- Maximum operating pressure: **150 PSI**
- ISO 5211 actuator pad

## Pneumatically Actuated 3-Way L Port Ball Valves

Direct Mount - Standard Port  
Female NPT x Female NPT

### Features

#### Brass Valves

- Precise stem alignment
- Diverting valve only
- 4 seat design - can use any port as an inlet
- O-ring backed seats for lowest torque
- Double Viton® O-ring stem seals
- Temperature to **350°F**
- Minimum operating pressure: **40 PSI**
- Maximum operating pressure: **150 PSI**
- 90° with off position
- **400 WOG - 100 PSI** steam
- ISO 5211 actuator pad



## Pneumatically Actuated 3-Way T Port Ball Valves

Direct Mount - Standard Port  
Female NPT x Female NPT

### Features

#### 316 Stainless Steel Valves

- Precise stem alignment
- Diverting valve only
- 4-seat design - can use any port as an inlet
- ¼" - 1" rated to **1,000 WOG**
- 1¼" - 2" rated to **800 WOG**
- Live loaded stem seals
- Minimum operating pressure: **70 PSI**
- Temperature to **400°F**
- Can be used as a shut-off
- ISO 5211 actuator pad
- 90° and 180° flow paths

### Features

#### Brass Valves

- Precise stem alignment
- Diverting valve only
- 90° and 180° flow paths
- O-ring backed seats for lowest torque
- Double Viton® stem seals
- **400 WOG - 100 PSI** steam
- Minimum operating pressure: **40 PSI**
- ISO 5211 actuator pad
- 4-seat design - can use any port as an inlet
- Can be used as a shut-off





## Electrically Actuated Ball Valves

Dual Acting - Full Port - Electrical On/Off Control (115 volts)  
Female NPT x Female NPT



### Features

#### **316 Stainless Steel Valves**

- 3-piece rack and pinion design
- Hard anodized aluminum body
- NAMUR mounting
- Swing out in-line easy maintenance
- Self-adjusting stem packing with Belleville washers
- 3" clearance required for cover removal
- ¼" - 2" rated to **1000 PSI** WOG;
- 2½" - 3" rated to **800 PSI** WOG
- Media temperature range: **-40°F to 400°F**



### Features

#### **Brass Valves**

- 2-piece
- Direct mount for low-profile, cost efficient applications
- NAMUR mounting
- Manual override
- Nema 4 housing
- 3" clearance required for cover removal
- Rated to **600 PSI** WOG; **100 PSI** Steam
- Media temperature: **300°F**

# Actuated Valve Accessories

## 3 and 4 Way Combination NAMUR Solenoids

- CSA (Canadian Standards Association) and Underwriters certified



Mounting type	Part #	Description
Nema 4X	<b>9AAG-115VAC</b>	115 volts, alternating current
Nema 4X	<b>9AAG-24VDC</b>	24 volts, direct current



## Limit Switches

- Beacon indicator
- (2) SPDT electro-mechanical switches
- Direct mount

Mounting type	Part #
Nema 4X	<b>LS-N4</b>



*mounting kit*

## Pneumatic Positioners

- 3-15 PSI modulating signal for proportional control
- Mounting hardware included

Mounting type	Part #
Nema 4X	<b>VP-700</b>



*mounting kit*

## Electro-Pneumatic Positioners

- Electronic 4-20ma modulating signal for proportional control
- Mounting hardware included

Mounting type	Part #
Nema 4X	<b>VP-900</b>



*mounting kit*

## Compact High Pressure Grooved End Ball Valves

Grooved End x Grooved End



### Features

- Suitable for many applications in high pressure pipeline systems, including petroleum, process systems, water, oil and gas.
- Rated to **600 PSI**
- Epoxy coated high strength ductile iron body
- 316 stainless steel ball and stem
- 15% glass reinforced Teflon® seats
- Temperature rated to **450°F**
- 4" and 6" available, (*HPBV-*)

## Iron Butterfly Valves

Threaded Lug Style

**NOT RECOMMENDED FOR STEAM SERVICE**

*Pictures are representative, different size valves have different hole patterns.*



### Features

- For use between two 150 lb. flanges
- Will lock "open" or "closed"
- Rated to **200 PSI**
- Ductile iron body, ASTM A126, class B
- Aluminum bronze disc, ASTM B148, ALY.954
- Buna-N seal and stem seals and liner
- PTFE bushing
- Stainless steel top and bottom stems
- 2" - 6" available, (*BFVL-*)

## Iron Butterfly Valves

Wafer Style



### Features

- For use between two 150 lb. flanges
- Will lock "open" or "closed"
- Rated to **200 PSI**
- Ductile iron body, ASTM A126, class B
- Aluminum bronze disc, ASTM B148, ALY.954
- Buna-N seal and stem seals and liner
- PTFE bushing
- Stainless steel top and bottom stems
- 2" - 6" available, (*BBFVW-*)



### Features

- For use between two 150 lb. flanges
- Will lock "open" or "closed"
- Rated to **200 PSI**
- Ductile iron body, ASTM A126, class B
- Stainless steel disc, ASTM A351, GR. CF-8M
- Buna-N seal and stem seals and liner
- PTFE bushing
- Stainless steel top and bottom stems
- 2" - 6" available, (*BFVW-*)

## Flow Control Valves

Series MV

### Features

With these high-precision metering and shutoff valves, you can readily make fine adjustments and reset with the exclusive color code 5000 that shows when you reach the desired setting.

- Body components are precision-turned from solid barstock
- All models have 416 stainless steel needles
- Steel - maximum operating pressure: **5000 PSI**
- ¼" - ½" available, (**SMV...**)



## Brass Needle Valves

NPT x NPT

### Features

- Metal-to-metal seats allow positive sealing and flow adjustment
- Designed for air and water applications
- Maximum working pressure is **150 PSI**
- 1/8" and 1/4" available, (**NV-F, NV-M**)



## Mini Needle Valves

NPT x NPT

### Features

Mini needle valves are available in a variety of materials, and handle options. All are equipped with both a Viton® O-ring seal and a Teflon® back-up ring below the threads to protect the mini valve from corrosion and galling. The stem threads are rolled for strength and ease of operation, and the metal-to-metal hard seat design is 100% helium leak tested to  $1 \times 10^{-4}$  ml/s at 200 PSI on each mini valve.

- Orifice size: 0.172"
- Flow coefficient: 0.42
- O-ring seal: Viton®
- Back-up ring: Teflon®
- 1/8" and 1/4" available in knurled knob and T design handles, (**MF-10, FF-10**)



## Brass Gate Valves

Female NPT x Female NPT



### Features

- Rated **200 PSI** non-shock cold water, oil or gas
- Brass body
- Female NPT threaded ends
- Threaded bonnet
- Integral seat
- Adjustable packing nut
- Non-rising stem
- Solid wedge disc
- Iron handwheel
- 100% factory tested
- ¼" - 4" available (**BGV..**, **BGV...**)

## Self-Closing Gate Valves

Male NPT



### Features

- Features a gray iron body, brass sliding gate and machine lapped sealing surface.
- Gate closes automatically when handle is released, cleaning discharge surface.
- Ideal for dispensing viscous liquids such as oil, grease, paint, varnish and syrups from drums and tanks.
- Can be padlocked
- ¾" and 2" available (**D..SC**)

## Malleable Iron Drum Gate Valves

Male NPT



### Features

- Manually operated
- Ideal for drawing non-flammable liquids from drums and tanks
- Iron body
- Machined and lapped brass faceplate designed for oval discharge to ensure no splashing and smooth operation.
- Black Japanned finish
- Can be padlocked
- ¾" and 2" available (**D..**)

## Aluminum Drum Gate Valve

Male NPT



### Features

- Lightweight, durable aluminum body provides improved corrosion resistance for certain fluids.
- Sturdy 2" handle is stamped metal with black enamel finish.
- Can be padlocked
- 2" available (**D75AL**)

## Compression Bibb Faucets

Male NPT

### Features

- Rough brass finish
- Nozzle end is GHT
- *Do not use light oil*
- ½" and ¾" available (**35-20--10**)



## Drum Faucets

### Features

- Gold polyethylene
- Faucets are not to be used in applications where temperatures exceed **140°F (60°C)**
- No wrench needed for screwing into drum opening
- 2" faucet is shipped with a gasket; the ¾" does not require a gasket
- ½" and ¾" available (**PDF-**)



## Bronze Drum Plug Wrench

### Features

- Sparkproof, natural finish is safe around flammables
- Offset handle design reduces user stress and minimizes knuckle injury.
- (**DPW**)





## Thermoplastic Butterfly Valves with Lever Handle



### Features

Ideally suited for the most demanding industrial, commercial, agricultural and irrigation environments.

- Pressure rating: **150 PSI**, non-shock water at **73°F**
- Corrosion resistant thermoplastic body, disc and handle
- Full boot seal for durable performance
- ANSI B16.5 Class 150 Flange Pattern
- Locking polypropylene handle with position indicator
- 100% bubble tight seal
- Blowout-proof stem design
- 3" - 6" available (**TPBFV...**)

## Single Union Polypropylene Ball Valves

Female NPT x Female NPT



### Features

- Rated to **125 PSI** at **70°F**
- Corrosion resistant polypropylene
- Teflon® ball seats
- EPDM O-rings
- FDA approved material
- ½" - 3" available (**SUBV...**)

## Bolted Polypropylene Ball Valves

Female NPT x Female NPT



### Features

- Rated to **125 PSI** at **70°F**
- Chemically-resistant, reinforced polypropylene
- FDA approved material
- Teflon® ball seats
- EPDM O-ring body seals, Viton® O-ring stem seals
- 304 stainless steel nuts and bolts
- ½" - 4" available (**PVFP...**)

## Compact Bolted Polypropylene Ball Valves



### Features

- Rated to **125 PSI** at **70°F**
- Full port
- Chemically-resistant, reinforced polypropylene
- FDA approved material
- Teflon® ball seats
- EPDM O-ring body seals, Viton® O-ring stem seals
- 304 stainless steel nuts and bolts
- 2" available (**PVFPS...**)

## Bolted Polypropylene Ball Valves with Nozzles

Female NPT x Nozzle

### Features

- Rated to **125 PSI** at **70°F**
- Chemically-resistant, reinforced polypropylene
- Teflon® ball seat
- EPDM O-ring body seals, Viton® O-ring stem seals
- 304 stainless steel nuts and bolts
- Body-to-flange design allows for low torque operation
- FDA approved material
- 1½" - 2" available (**PVFPN...**)



## 45° Single Union Polypropylene Nozzle Valves

### Features

- Rated to **125 PSI** at **70°F**
- Corrosion resistant polypropylene
- Teflon® ball seats
- EPDM O-rings
- FDA approved material
- 1" available (**SUBVN100**)



## Flange Ball Valves and Fittings

### Features

- Quick and easy assembly, no pipe or sealant necessary
- Positive seals
- Easy on/off hose connections
- 360° orientation
- Valves and fittings are manufactured from glass re-inforced polypropylene for strength and durability — will not rust or corrode.



#### *Recommended operating pressure for valves:*

- **100 PSI** at 0°F
- **125 PSI** at 70°F
- **70 PSI** at 150°F

#### *Accessories:*

- stainless steel worm screw clamps
- EPDM flange gaskets
- assorted flanged fittings

Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for fire protection, food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, nuclear and manufacturing.



*The Right Connection™*

**Dixon Valve & Coupling Company**

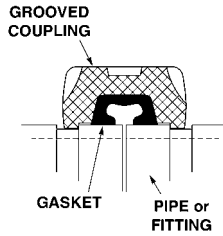
800 High Street, Chestertown, MD 21620

Customer Service: 877.963.4966

Fax: 800.283.4966

**[www.dixonvalve.com](http://www.dixonvalve.com)**

## Gaskets



- check gasket color code to be certain it is recommended for the service intended
- use lubricant on gasket
- For services not listed contact Dixon for recommendations.

2010  
**NEW**

### Viton®

- compound type: Fluoro Elastomer
- temperature range: **-13°F to 350°F**
- color code: black with blue stripe

General service application:

- resistant to oxidizing acids, petroleum oils, hydraulic fluids, halogenated hydrocarbons and lubricants

Size	Viton®	
	Part #	Price/E
2"	<b>G200V</b>	<b>\$35.00</b>
3"	<b>G300V</b>	<b>48.00</b>
4"	<b>G400V</b>	<b>67.00</b>

### EPDM

- compound type: EPDM
- temperature range: **-22°F to 230°F**
- color code: black with green stripe

General service application:

- water, dilute acids, alkalies, salts, and many chemical services not involving hydrocarbons, oils, or gases.
- Excellent oxidation resistance.

Not for use with hydrocarbons



Size	EPDM	
	Part #	Price/E
1½"	<b>G150E</b>	<b>\$31.90</b>
2"	<b>G200E</b>	<b>8.90</b>
2½"	<b>G250E</b>	<b>10.65</b>
3"	<b>G300E</b>	<b>11.80</b>
4"	<b>G400E</b>	<b>17.20</b>
5"	<b>G500E</b>	<b>56.10</b>
6"	<b>G600E</b>	<b>31.05</b>
8"	<b>G800E</b>	<b>50.55</b>

### Buna-N

- compound type: Buna-N
- temperature range: **-24°F to 176°F**
- color code: black with orange stripe

General service application:

- petroleum products, vegetable oils, mineral oils, and air contaminated with petroleum oils.

Not for use in hot water services



Size	Black Buna with orange stripe		White Buna	
	Part #	Price/E	Part #	Price/E
1½"	<b>G150T</b>	<b>\$31.90</b>	---	---
2"	<b>G200T</b>	<b>8.90</b>	---	---
2½"	<b>G250T</b>	<b>10.65</b>	---	---
3"	<b>G300T</b>	<b>11.80</b>	---	---
4"	<b>G400T</b>	<b>17.20</b>	<b>G400N</b>	<b>\$28.20</b>
5"	<b>G500T</b>	<b>56.10</b>	---	---
6"	<b>G600T</b>	<b>31.05</b>	---	---
8"	<b>G800T</b>	<b>50.55</b>	---	---

## Nuts and Bolts

- the nuts are a heavy hexagon design
- Nuts and bolts are made of electroplated carbon steel and conform to ASTM A183.
- The bolts are specifically designed for use with the couplings on pages 550-551.

Bolt Thread	Bolt Length	Torque, Ft. Lbs.	Carbon Steel	
			Part #	Price/E
3/8"	2"	30	<b>BLT38200</b>	<b>\$5.70</b>
3/8"	2¼"	30	<b>BLT38225</b>	<b>13.15</b>
1/2"	2½"	50	<b>BLT50212</b>	<b>5.70</b>
1/2"	2¾"	50	<b>BLT50234</b>	<b>7.80</b>
5/8"	3¼"	75	<b>BLT58314</b>	<b>5.10</b>
3/4"	4¼"	75	<b>BLT75414</b>	<b>16.80</b>
7/8"	6"	100	<b>BLT78600</b>	<b>24.00</b>

## Gruvlok Lubricant - Groove Lube



- water soluble
  - non-toxic
  - non-corrosive
  - non-flammable
  - NSF approved for use with potable water
- Should not be used with HDPE pipe.



Size	Container	Part #	Price/E
4½ oz.	Tube	<b>GROOVLUB4</b>	<b>\$47.35</b>
1 qt.	Tub	<b>GROOVLUB32</b>	<b>242.75</b>

# Wilkerson Filters • Regulators • Lubricators

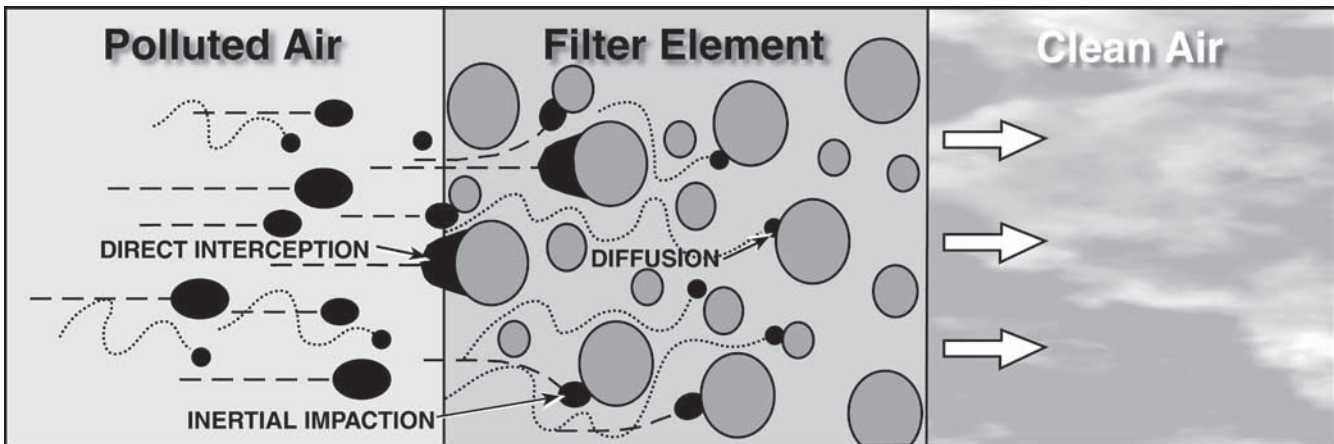


The Right Connection™

Airborne contamination from the atmosphere, such as dust, water vapor and hydrocarbons enter the air system through the compressor intake. The contaminants, usually 4 million particles per cubic foot, can easily pass through a typical compressor intake filter since over 80% of these particles are less than 2 microns in size. The compressor also contributes to the problem with wear particles, oil vapor and fine aerosols that leak past glands and seals from the oil sump into the compression chamber.

Such contamination in the air system can effect the efficient operation of various pneumatic devices and, over time, damage them. Compressed air filters that are installed upstream of the air devices will remove most of these contaminants. In addition, these filters will also remove most liquid water from the air line.

To gain improved production efficiencies through automation, more sophisticated, technically advanced pneumatic equipment and instrumentation is being used throughout industry. Due to the critical nature of these applications, the need for extremely clean, virtually oil free air is required. Coalescing (oil removal) and oil vapor removal filters should be used for applications requiring high quality air.



### When Making Your Filter Selection:

1. Generally install filters downstream of aftercoolers / separators and air receivers at the lowest temperature point and as close to the point of application as possible. This reduces the chance of additional water and oil vapor condensing after the filter.
2. Filters should not be installed downstream of quick opening valves and should be protected from possible reverse flow or other shock conditions.
3. It may be necessary to install a combination of mainline filtration near the compressor installation before entry to the main air distribution system, as well as installing terminal filtration at the critical application points. Remember, especially in existing installations, the contamination already in the pipe system downstream of the filters will take a long time to disappear and probably never will completely.
4. Purge all lines leading from the filters to the final application to be protected.
5. Install filters in a vertical position ensuring that there is sufficient room below the filters to facilitate element change.
6. Provide a facility to drain away collected liquids from the filter drains via properly sized tubing, taking care there are no restrictions in the drain line.
7. Install a Wilkerson differential pressure gauge or pop-up indicator to monitor the pressure drop across the filters. This will provide an easy way of visually monitoring the filter element condition, indicating when to replace the element. If you have a problem with filter selection or installation please contact the factory.
8. It is recommended to pipe the system with bypass circuits and isolation valves for piping convenience and to minimize air system disruptions.

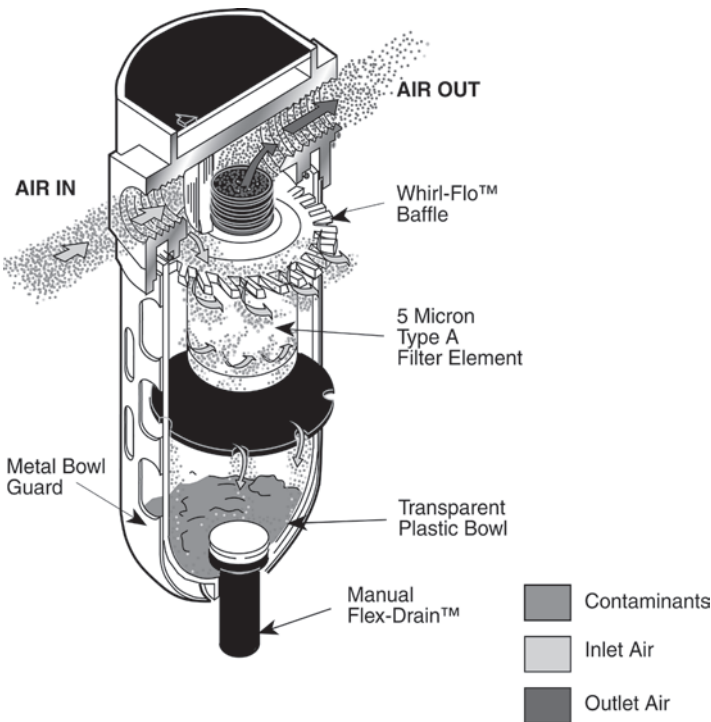


### Particulate Filters

For the removal of solid particle contaminants down to 5 microns and the separation of bulk liquids. This type of filter is generally used in industrial applications where water, oil, and harmful dirt particles must be removed from the compressed air system. This type of filter should also be used as a prefilter for the Coalescing (oil removal) filter.

#### Operation

Wet and dirty inlet air is directed downward and outward in a circular pattern by the turbine-shaped upper baffle. This action mechanically separates a large amount of the liquid and gross particles, which then flow down the inside of the bowl, past the lower baffle, into the quiet zone to be drained away. The quiet zone baffle prevents the contaminants from reentering the air flow stream. The partially cleansed air then passes through the filter element. By utilizing depth filtration, the 5 micron filter provides superior filtration, exceptional service life and minimum pressure drop.



### Coalescing Filters (Oil Removal)

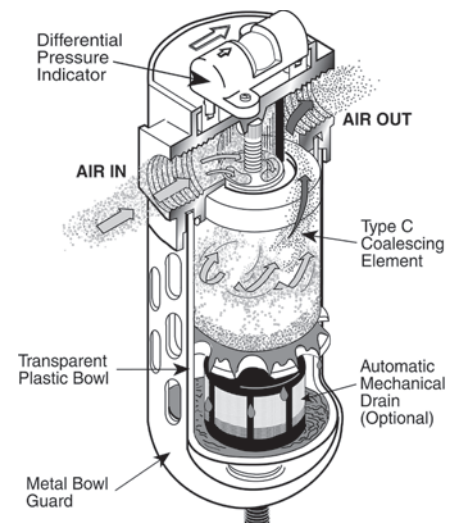
Specifically designed for the removal of solid particles, water and oil aerosols down to 0.01 microns. The maximum remaining oil content of air leaving the filter drops down to 0.01ppm at 70°F (21°C) at a pressure of 100 PSIG (6,9 bar g) using a typical compressor lubricant. Specific end-use applications are protection of critical air control circuits, air logic systems, flow and temperature controllers, food processing, electronics, health care and film processing.

#### Operation

The filter element utilizes a borosilicate micro fiber that provides superior filtration efficiency, quick draining and minimum pressure drop. Unlike standard particle filters, air flow is inside to out. The compressed air / gas passes through the inner layer of the filter element which acts as an integral pre-filter to remove large contaminants. This gives protection to the layer of high efficiency filter material which substantially removes submicronic aerosols and solids from the air flow stream. Solid particles are permanently trapped within the filter media.

The fine liquid particles, including aerosols, after initially being trapped by the fibers of the filter media, begin to collect or coalesce forming larger droplets. These droplets, along with other large droplets present, are pushed to the outer surface. Here, the anti-reentrainment barrier collects the droplets as they break free from the micro fiber and allow them to gravitate within its cellular structure forming a "wet band" around the bottom of the element.

Clean filtered air / gas passes through the anti-reentrainment barrier above the "wet-band" where the resistance to flow is less, leaving a quiet zone of no air / gas movement in the bottom of the filter housing. The separated liquid drops from the bottom of the filter element and falls through without being re-entrained, to the bottom of the filter housing where it collects to be removed by a drain.



## Wilkerson Airline Filters

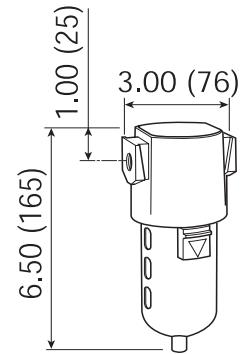
- 5 micron element
- 5 oz. bowl
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **200 PSIG** (14 bar) and **150°F** (65.5°C)



with guard

### Compact Transparent Bowl with Guard

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/4"	35	<b>F16-02A</b>	<b>F16-02M</b>
3/8"	44	<b>F16-03A</b>	<b>F16-03M</b>
1/2"	50	<b>F16-04A</b>	<b>F16-04M</b>



### Compact Metal Bowl with Sight Glass

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/4"	35	<b>F16-02AMB</b>	<b>F16-02MMB</b>
3/8"	44	<b>F16-03AMB</b>	<b>F16-03MMB</b>
1/2"	50	<b>F16-04AMB</b>	<b>F16-04MMB</b>

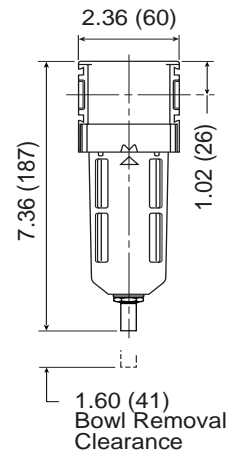
- high flow capacity
- 5 micron element
- 4 oz. bowl
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **250 PSIG** (17 bar) and **175°F** (79°C)



with metal bowl

### Compact Transparent Bowl with Guard

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/4"	100	<b>F18-02A</b>	<b>F18-02M</b>
3/8"	105	<b>F18-03A</b>	<b>F18-03M</b>
1/2"	120	<b>F18-04A</b>	<b>F18-04M</b>



### Compact Metal Bowl with Sight Glass

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/4"	100	<b>F18-02AMB</b>	<b>F18-02MMB</b>
3/8"	105	<b>F18-03AMB</b>	<b>F18-03MMB</b>
1/2"	120	<b>F18-04AMB</b>	<b>F18-04MMB</b>

See pages 26 - 29 for filter accessories.

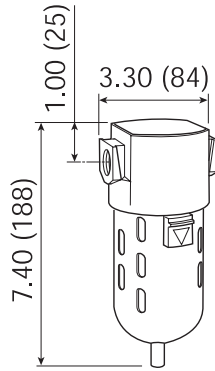
**SAFETY  
ALERT**

*FRL's are designed for air service only, unless otherwise indicated.*

SCFM ratings at 150 PSIG inlet pressure.

## Wilkerson Airline Filters

- 5 micron element
- 10 oz. bowl
- maximum operating conditions:  
metal bowl: **200 PSIG** (14 bar) and **150°F** (65.5°C)



### Standard Transparent Bowl with Guard

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
1/4"	79	<b>F26-02A</b>	<b>F26-02M</b>
3/8"	112	<b>F26-03A</b>	<b>F26-03M</b>
1/2"	138	<b>F26-04A</b>	<b>F26-04M</b>

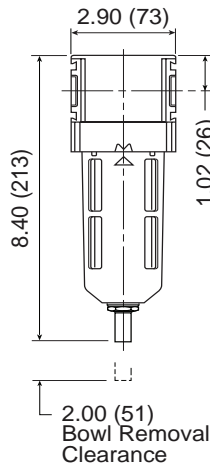


with guard

### Standard Metal Bowl with Sight Glass

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
1/4"	79	<b>F26-02AMB</b>	<b>F26-02MMB</b>
3/8"	112	<b>F26-03AMB</b>	<b>F26-03MMB</b>
1/2"	138	<b>F26-04AMB</b>	<b>F26-04MMB</b>

- high flow capacity
- 5 micron element
- 6 oz. bowl
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **250 PSIG** (17 bar) and **175°F** (79°C)



### Standard Transparent Bowl with Guard

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
3/8"	144	<b>F28-03A</b>	<b>F28-03M</b>
1/2"	152	<b>F28-04A</b>	<b>F28-04M</b>
3/4"	168	<b>F28-06A</b>	<b>F28-06M</b>



with metal bowl

### Standard Metal Bowl with Sight Glass

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
3/8"	144	<b>F28-03AMB</b>	<b>F28-03MMB</b>
1/2"	152	<b>F28-04AMB</b>	<b>F28-04MMB</b>
3/4"	168	<b>F28-06AMB</b>	<b>F28-06MMB</b>

See pages 26 - 29 for filter accessories.

*FRL's are designed for air service only, unless otherwise indicated.*

**SAFETY  
ALERT**

SCFM ratings at 150 PSIG inlet pressure.

## Wilkerson Airline Filters

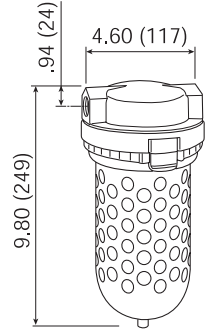
- 5 micron element
- 1 qt. bowl
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **200 PSIG** (14 bar) and **150°F** (65.5°C)



with guard

### Jumbo Transparent Bowl with Guard

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
3/4"	250	<b>F30-06A</b>	<b>F30-06M</b>
1"	325	<b>F30-08A</b>	<b>F30-08M</b>



### Jumbo Metal Bowl with Sight Glass

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
3/4"	250	<b>F30-06AMB</b>	<b>F30-06MMB</b>
1"	325	<b>F30-08AMB</b>	<b>F30-08MMB</b>

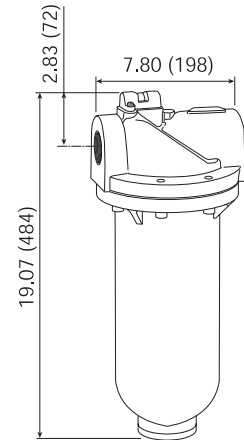


with metal bowl

- 5 micron element
- 1 qt. bowl
- maximum operating conditions:  
metal bowl: **300 PSIG** (11 bar) and **150°F** (65.5°C)

### Heavy Duty Metal Bowl

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
1½"	1280	<b>F35-0BAMB</b>	<b>F35-0BMMB</b>
2"	1400	<b>F35-0CAMB</b>	<b>F35-0CMMB</b>



See pages 26 - 29 for filter accessories.

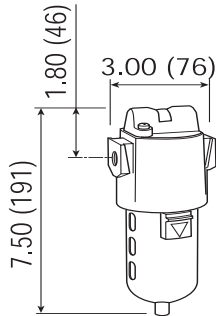


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SCFM ratings at 150 PSIG inlet pressure.

## Wilkerson Modular Coalescing Filters

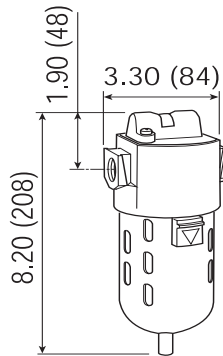
- for removal of extremely fine oil mists, oil aerosols and microscopic particles
- A standard airline filter should be installed as a pre-filter when using a coalescing filter.



- 5 oz. transparent bowl
- can be installed in modular system

### Compact Transparent Bowl with Guard

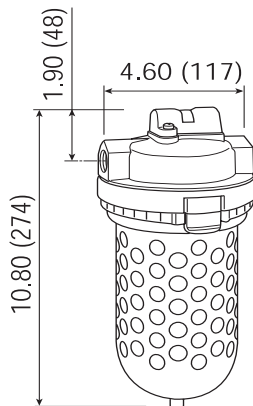
Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/4"	15	<b>M16-02A</b>	<b>M16-02M</b>
3/8"	18	<b>M16-03A</b>	<b>M16-03M</b>
1/2"	20	<b>M16-04A</b>	<b>M16-04M</b>



- 10 oz. transparent bowl
- can be installed in modular system

### Standard Transparent Bowl with Guard

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/4"	26	<b>M26-02A</b>	<b>M26-02M</b>
3/8"	35	<b>M26-03A</b>	<b>M26-03M</b>
1/2"	37	<b>M26-04A</b>	<b>M26-04M</b>



- 1 qt. transparent bowl

### Jumbo Transparent Bowl with Guard

Size	SCFM	Automatic Drain Part #
1/2"	75	<b>M30-04A</b>
3/4"	91	<b>M30-06A</b>
1"	103	<b>M30-08A</b>



See pages 26 - 29 for filter accessories.

FRL's are designed for air service only, unless otherwise indicated.



SCFM ratings at 150 PSIG inlet pressure.

## Wilkerson Modular Coalescing Filters

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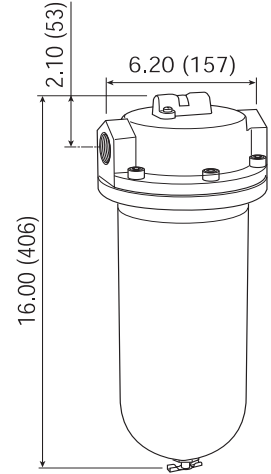
- for removal of extremely fine oil mists, oil aerosols and microscopic particles
- A standard airline filter should be installed as a pre-filter when using a coalescing filter.



- 1 qt. metal bowl

### Heavy Duty Metal Bowl

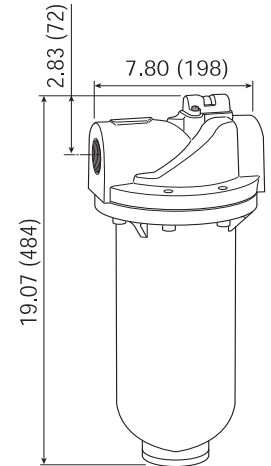
Size	SCFM	Automatic Drain Part #
1¼"	350	<b>M32-0AAMB</b>



- 0.01 micron coalescing filter element standard
- 1 qt. metal bowl
- must be used with airline filter as pre-filter
- compressed air purity down to an oil content of 0.01 P.P.M.
- 0.003 micron oil vapor/oil odor removal filter element optional
- elements resistant to acidic mineral oils and synthetic lubricants

### Heavy Duty Metal Bowl

Size	SCFM	Automatic Drain Part #
1½"	445	<b>M35-0BAMB</b>
2"	445	<b>M35-0CAMB</b>



See pages 26 - 29 for filter accessories.

**SAFETY  
ALERT**

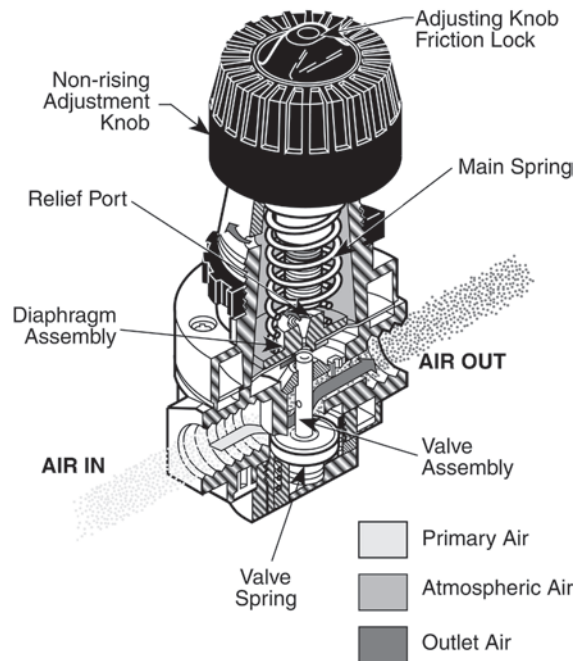
*FRL's are designed for air service only, unless otherwise indicated.*

SCFM ratings at 150 PSIG inlet pressure.



All pneumatic devices are designed to provide optimum performance and service life at a specific air pressure. While it is feasible to operate these devices at pressures in excess of the manufacturer's recommended operating conditions, it is not advisable to do so. Operating at higher pressures can cause excessive wear and damage to the device. Operating your compressed air system at a higher-than-required pressure wastes energy and is not cost-effective.

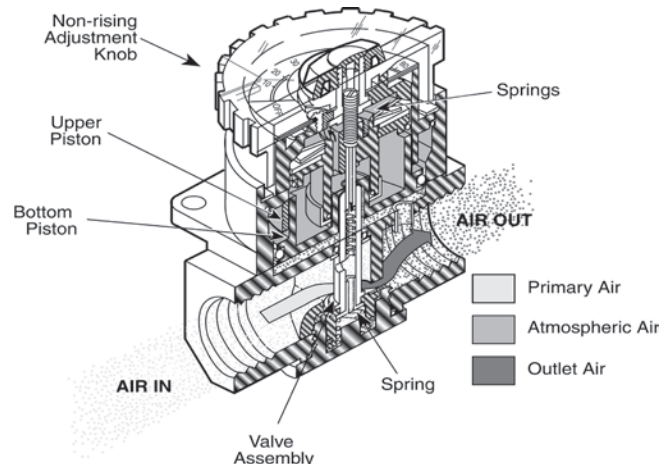
To obtain the best operation and service life from your pneumatic equipment use the proper pressure level recommended by the manufacturer. A regulator (pressure control valve) is normally used to reduce and maintain a downstream pressure while the amount of air required to the device may vary with the demand. This type of regulator is generally used in a wide variety of applications where reduced pressure is highly desirable for energy conservation, safety requirements, air circuit control and air instrumentation.



## Operation

Turning the adjusting knob clockwise forces the main spring downward onto the flexible diaphragm which presses down onto the valve stem. The diaphragm and valve stem move downward forcing the balanced valve off its seat, which allows air to flow past the valve to the outlet side of the regulator and downstream to the air system. A precisely positioned aspirator tube communicates secondary pressure to the diaphragm resulting in instant compensation in order to maintain the desired secondary set pressure.

The diaphragm, valve stem and valve move upward, compressing the regulating main spring. Upward movement stops when the spring force acting on the diaphragm balances the pressure force acting below the diaphragm. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.



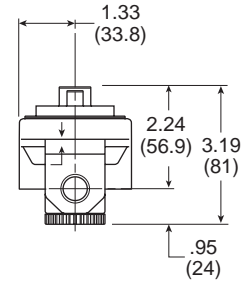
## Wilkerson Dial Air Regulators

Dial-air regulators feature a transparent, pressure-calibrated, non-rising adjustment dial for quick adjustment of secondary pressure. The full reduced pressure range can be dialed in less than 270° of dial rotation. This feature is particularly advantageous if regulators can be mounted in any position so dial face is always visible. All dial-air units have a slight constant air bleed.

- **0-160 PSI** range
- relieving type
- non-rising pressure adjusting dial
- piston operated
- two ¼ NPT gauge ports usually used for additional outlets
- balanced valve design



Size	SCFM	With Gauge Part #	Without Gauge Part #
1/4"	117	<b>R21-02RG</b>	<b>R21-02R</b>
3/8"	180	<b>R21-03RG</b>	<b>R21-03R</b>
1/2"	195	<b>R21-04RG</b>	<b>R21-04R</b>
3/4"	220	<b>R21-06RG</b>	<b>R21-06R</b>



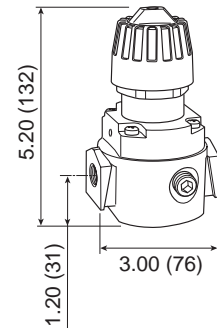
## Wilkerson Regulators

- models supplied with GC620 gauge
- for 0-40 PSI adjustment range, add an L to the end of the part number



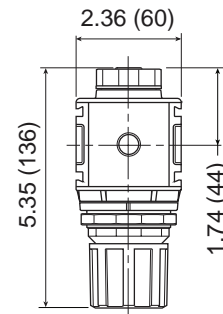
### Compact

Size	SCFM	With Gauge Part #	Without Gauge Part #
1/4"	80	<b>R16-02RG</b>	<b>R16-02R</b>
3/8"	80	<b>R16-03RG</b>	<b>R16-03R</b>
1/2"	80	<b>R16-04RG</b>	<b>R16-04R</b>



### Compact

Size	SCFM	With Gauge Part #	Without Gauge Part #
1/4"	80	<b>R18-02RG</b>	<b>R18-02R</b>
3/8"	92	<b>R18-03RG</b>	<b>R18-03R</b>
1/2"	92	<b>R18-04RG</b>	<b>R18-04R</b>



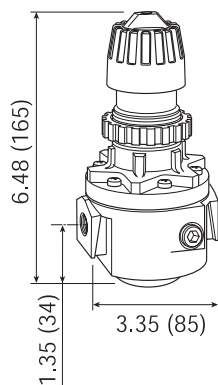
See pages 29 - 31 for regulator accessories.



*FRL's are designed for air service only, unless otherwise indicated.*

SCFM ratings at 150 PSIG inlet pressure.

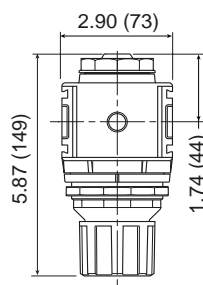
## Wilkerson Regulators



- **0-125 PSI** range
- balanced valve design
- self-relieving standard
- non-rising push/pull locking adjustment knob
- standard with two full flow 1/4" NPT gauge ports
- panel mount nut standard
- excellent flow characteristics
- maximum operating conditions:  
**300 PSIG** (21 bar) and **150°F** (65.5°C)

**Standard**

Size	SCFM	With Gauge Part #	Without Gauge Part #
1/4"	125	<b>R26-02RG</b>	<b>R26-02R</b>
3/8"	155	<b>R26-03RG</b>	<b>R26-03R</b>
1/2"	195	<b>R26-04RG</b>	<b>R26-04R</b>



- **0-125 PSI** range
- balanced valve design
- models supplied with GC620 gauge
- maximum operating conditions:  
**300 PSIG** (21 bar) and **175°F** (79°C)

**Standard**

Size	SCFM	With Gauge Part #	Without Gauge Part #
3/8"	120	<b>R28-03RG</b>	<b>R28-03R</b>
1/2"	135	<b>R28-04RG</b>	<b>R28-04R</b>
3/4"	135	<b>R28-06RG</b>	<b>R28-06R</b>



See pages 29 - 31 for regulator accessories.

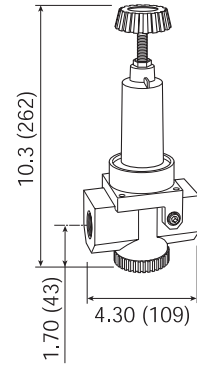
*FRL's are designed for air service only, unless otherwise indicated.*

**SAFETY  
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SCFM ratings at 150 PSIG inlet pressure.

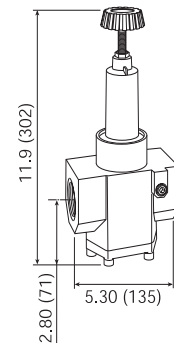
## Wilkerson Regulators

- **0-125 PSI** range
- balanced valve design
- self-relieving standard
- heavy duty spring
- piston operated
- two full flow 1/4" NPT gauge portsports can be used for additional outlet ports
- models supplied with GC620 gauge
- maximum operating conditions:  
**300 PSIG** (21 bar) and **150°F** (65.5°C)



### High Flow

Size	SCFM	With Gauge Part #	Without Gauge Part #
3/4"	480	<b>R30-06RG</b>	<b>R30-06R</b>
1"	500	<b>R30-08RG</b>	<b>R30-08R</b>
1 1/4"	800	<b>R30-0ARG</b>	<b>R30-0AR</b>



### High Flow

Size	SCFM	With Gauge Part #	Without Gauge Part #
1 1/2"	1200	<b>R40-0BRG</b>	<b>R40-0BR</b>
2"	1200	<b>R40-0CRG</b>	<b>R40-0CR</b>

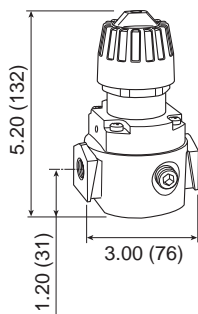
See pages 29 - 31 for regulator accessories.



*FRL's are designed for air service only, unless otherwise indicated.*

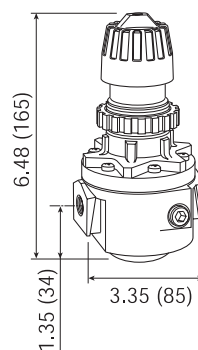
SCFM ratings at 150 PSIG inlet pressure.

# Wilkerson High Pressure Regulators



## Compact

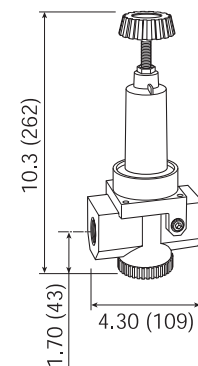
Size	SCFM	With Gauge Part #	Without Gauge Part #
1/4"	80	<b>R16-02RHG</b>	<b>R16-02RH</b>
3/8"	80	<b>R16-03RHG</b>	<b>R16-03RH</b>
1/2"	80	<b>R16-04RHG</b>	<b>R16-04RH</b>



- 10-250 PSI range
- balanced valve design
- self-relieving standard
- heavy duty spring
- non-rising push/pull locking adjustment knob
- standard with two full flow 1/4" NPT gauge ports
- panel mount nut standard
- excellent flow characteristics
- supplied with GC240 gauge
- maximum operating conditions: **300 PSIG (21 bar) and 150°F (65.5°C)**

## Standard

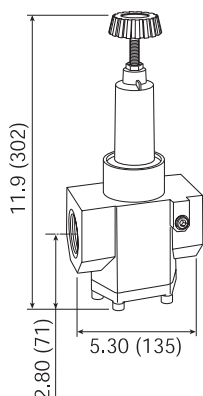
Size	SCFM	With Gauge Part #	Without Gauge Part #
1/4"	125	<b>R26-02RHG</b>	<b>R26-02RH</b>
3/8"	155	<b>R26-03RHG</b>	<b>R26-03RH</b>
1/2"	195	<b>R26-04RHG</b>	<b>R26-04RH</b>



- 10-180 PSI range
- balanced valve design
- self-relieving standard
- heavy duty spring
- piston operated
- standard with two full flow 1/4" NPT gauge ports, ports can be used for additional outlet port
- supplied with GC240 gauge
- maximum operating conditions: **300 PSIG (21 bar) and 150°F (65.5°C)**

## High Flow

Size	SCFM	With Gauge Part #	Without Gauge Part #
3/4"	480	<b>R30-06RHG</b>	<b>R30-06RH</b>
1"	500	<b>R30-08RHG</b>	<b>R30-08RH</b>
1 1/4"	800	<b>R30-0ARHG</b>	<b>R30-0ARH</b>



## High Flow

Size	SCFM	With Gauge Part #	Without Gauge Part #
1 1/2"	1200	<b>R40-0BRHG</b>	<b>R40-0BRH</b>
2"	1200	<b>R40-0CRHG</b>	<b>R40-0CRH</b>



See pages 29 - 31 for regulator accessories.

FRL's are designed for air service only, unless otherwise indicated.



SCFM ratings at 150 PSIG inlet pressure.

## Wilkerson Filter / Regulators

Over-under units are space savers and provide for installation in tight areas. One common inlet/outlet for both filter and regulator saves on piping costs.

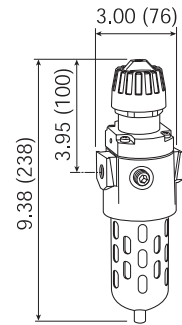
- **0-125 PSIG** (0-8.5 bar) range
- 5 micron rated reusable element
- 5 oz. bowl
- self-relieving standard
- balanced valve design
- supplied with GC230 gauge
- diaphragm operated
- quick-disconnect bowl guard with integral plastic bowl and safety latch standard
- two 1/4" gauge ports
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **200 PSIG** (14 bar) and **150°F** (65.5°C)

### Compact Transparent Bowl with Guard

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
1/4"	80	<b>CB6-02AG</b>	<b>CB6-02MG</b>
3/8"	80	<b>CB6-03AG</b>	<b>CB6-03MG</b>
1/2"	80	<b>CB6-04AG</b>	<b>CB6-04MG</b>



metal bowl



### Compact Metal Bowl with Sight Glass

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
1/4"	80	<b>CB6-02AGMB</b>	<b>CB6-02MGMB</b>
3/8"	80	<b>CB6-03AGMB</b>	<b>CB6-03MGMB</b>
1/2"	80	<b>CB6-04AGMB</b>	<b>CB6-04MGMB</b>

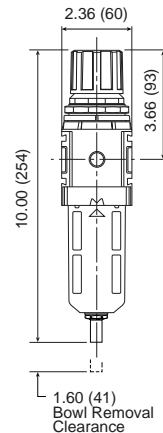
- high flow capacity
- **0-125 PSIG** range
- 5 micron filter
- 4 oz. bowl
- balanced valve design
- spring-loaded diaphragm
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **250 PSIG** (17 bar) and **175°F** (79°C)

### Compact Transparent Bowl with Guard

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
1/4"	100	<b>B18-02AG</b>	<b>B18-02MG</b>
3/8"	105	<b>B18-03AG</b>	<b>B18-03MG</b>
1/2"	125	<b>B18-04AG</b>	<b>B18-04MG</b>



with metal bowl



### Compact Metal Bowl with Sight Glass

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
1/4"	100	<b>B18-02AGMB</b>	<b>B18-02MGMB</b>
3/8"	105	<b>B18-03AGMB</b>	<b>B18-03MGMB</b>
1/2"	125	<b>B18-04AGMB</b>	<b>B18-04MGMB</b>

See pages 36-37 for filter / regulator accessories.



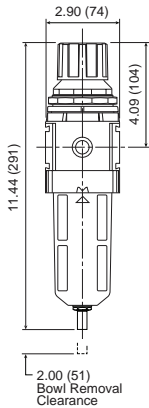
*FRL's are designed for air service only, unless otherwise indicated.*

SCFM ratings at 150 PSIG inlet pressure.



## Wilkerson Filter / Regulators

- high flow capacity
- **0-125 PSIG** range
- 5 micron filter
- 6 oz. bowl
- balanced valve design
- spring-loaded diaphragm
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **250 PSIG** (17 bar) and **175°F** (79°C)



## Standard Transparent Bowl with Guard

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
3/8"	140	<b>B28-03AG</b>	<b>B28-03MG</b>
1/2"	150	<b>B28-04AG</b>	<b>B28-04MG</b>
3/4"	165	<b>B28-06AG</b>	<b>B28-06MG</b>

## Standard Metal Bowl with Sight Glass

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
3/8"	140	<b>B28-03AGMB</b>	<b>B28-03MGMB</b>
1/2"	150	<b>B28-04AGMB</b>	<b>B28-04MGMB</b>
3/4"	165	<b>B28-06AGMB</b>	<b>B28-06MGMB</b>



See pages 36-37 for filter / regulator accessories.

*FRL's are designed for air service only, unless otherwise indicated.*

**SAFETY**  
**ALERT**

SCFM ratings at 150 PSIG inlet pressure.

Getting the proper lubrication to the proper device at the proper time is fundamental to preventative maintenance, longer service life and increased productivity. The efficiency of air motors, control valves, cylinders and other air actuators can be greatly enhanced when the proper amount of lubrication is supplied.

Air line lubricators are specifically designed to generate and introduce an oil aerosol (mist) into the compressed air flow. The air flow then carries the oil to the pneumatic devices where the lubricant mist coats the moving and sliding surfaces thus reducing friction and wear.

To provide satisfactory lubrication to your air devices most lubricators have a proportional delivery system. This feature automatically provides a nearly constant oil-to-air ratio over a wide range of air flows.

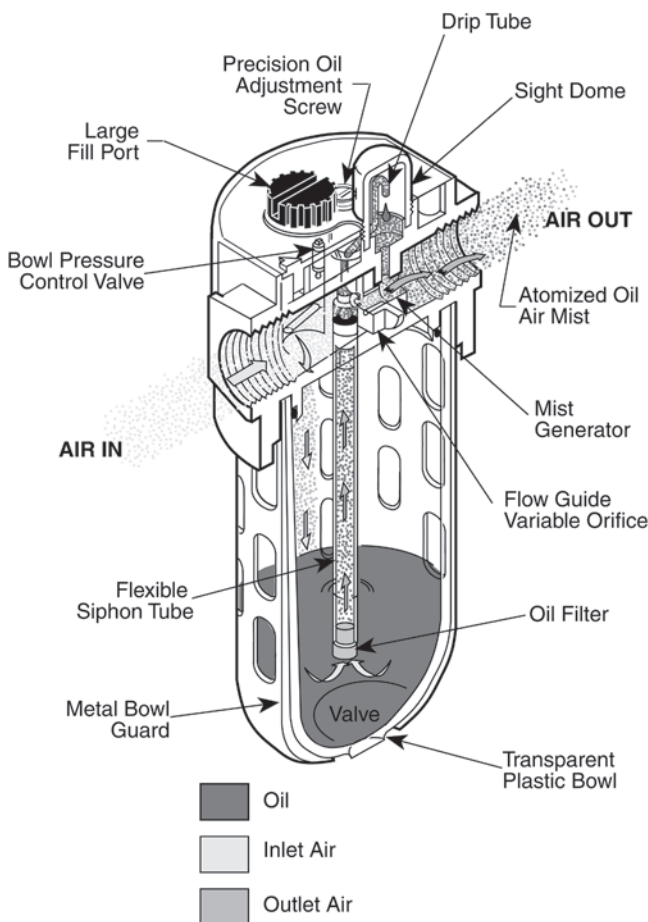
## Operation

For proper operation there must be line pressure in the reservoir bowl. As the air flows through the lubricator, some of the incoming air passes through the bowl pressure control valve which then pressurizes the bowl pushing oil upward through the siphon tube. Most of the air flow passes through the self-adjusting Flow-Guide® flow sensor in the lubricator throat creating a slight pressure drop that is proportional to the rate of air flow. The pressure drop is sensed by the sight dome and the adjustment needle valve allowing oil to flow upward through the siphon tube into the sight dome where it drips into a nozzle passage and then into the lubricator throat.

The precise amount of oil to be delivered to the air stream is determined by the oil adjusting needle valve which sets the exact drip rate. The oil drops are atomized by the high velocity air flowing through the lubricator. All of the drops visible in the sight dome are delivered downstream to the air devices.

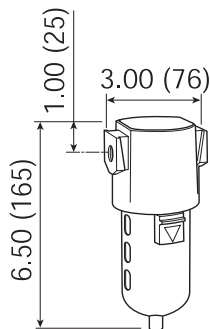
The self-adjusting flow sensor automatically maintains a constant oil to-air ratio by opening and closing in response to a wide range of changing air flows. A check valve keeps the siphon tube full of oil during periods of no flow and prevents oil carry-over due to the possibility of reverse flow.

The pressurizing valve controls the rate of bowl pressurization and allows depressurization for refilling the unit without shutting off the supply air. When the oil fill plug is loosened, a spring loaded 2-way valve closes, allowing the air pressure in the bowl to be gradually reduced. When the fill plug is replaced, the bowl repressurizes through the pressure control valve. Upon initial use, or if unit has been run dry, open oil adjustment wide open until no air bubbles are visible in sight dome. Then, reset oil feed adjustment to desired setting.



## Wilkerson EconOmist® Type Lubricators

Designed so that all the oil flow observed in the sight dome is broken into a mist and delivered via the airflow to the application. This lubricator allows the user to fill or replenish the oil in the bowl without interrupting airflow or bleeding pressure from the system (except miniature models). Once the oil-fill cap is removed, the bowl is depressurized and isolated from line pressure, and the bowl itself can then be removed, if desired, for faster refill. The bowl can also be filled right to the top.



- full view sight dome
- fill under pressure design

Size	SCFM	Transparent Bowl Part #	Metal Bowl Part #
1/4"	28	<b>L16-02A</b>	<b>L16-02AMB</b>
3/8"	48	<b>L16-03A</b>	<b>L16-03AMB</b>
1/2"	52	<b>L16-04A</b>	<b>L16-04AMB</b>



with metal bowl

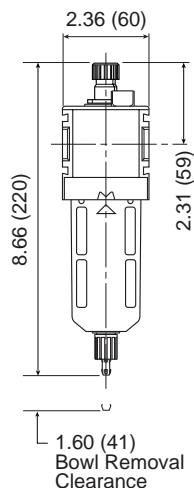
## Wilkerson Lubricators

### Flow Guide®

The elastomer disc-shaped device is located in the throat of all Wilkerson lubricators and automatically maintains a constant ratio of oil flow to airflow regardless of changing rates of airflow. This allows one lubricator to serve several pneumatic components operating together or intermittently.

### Type of oil to use:

For all Wilkerson lubricators, use any petroleum-base, non-detergent light weight oil (SAE 10/150SSU) which will readily break up into a mist, i.e., Mobil DTE light or comparable oil. Do not use any synthetic oil or oils containing additives or solvents.



- high flow capacity
- 4.09 oz. bowl
- can be filled under pressure
- manual drain
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **250 PSIG** (17 bar) and **175°F** (79°C)

### Compact

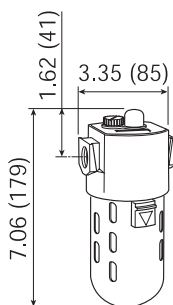
Size	SCFM	Transparent Bowl Part #	Metal Bowl Part #
1/4"	88	<b>L18-02A</b>	<b>L18-02AMB</b>
3/8"	90	<b>L18-03A</b>	<b>L18-03AMB</b>
1/2"	96	<b>L18-04A</b>	<b>L18-04AMB</b>



with metal bowl

- quick-disconnect metal bowl guard with integral safety latch
- siphon tube filter provides clean lubricant downstream
- 10 oz. bowl
- can be filled under pressure

- adjustable oil feed
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **200 PSIG** (14 bar) and **150°F** (65.5°C)



### Standard

Size	SCFM	Transparent Bowl Part #	Metal Bowl * Part #
1/4"	28	<b>L26-02A</b>	<b>L26-02AMB</b>
3/8"	50	<b>L26-03A</b>	<b>L26-03AMB</b>
1/2"	102	<b>L26-04A</b>	<b>L26-04AMB</b>

\* metal bowl has sight gauge with brass petcock drain



with metal bowl

See pages 32 - 35 for lubricator accessories.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

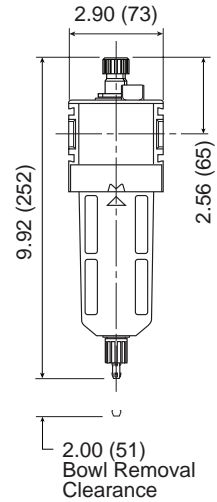
## Wilkerson Lubricators



with metal bowl

- high flow capacity
- 6.11 oz. bowl
- can be filled under pressure
- manual drain
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **250 PSIG** (17 bar) and **175°F** (79°C)

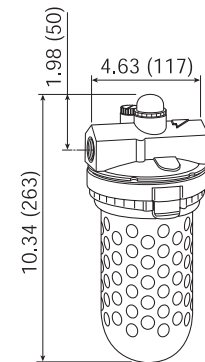
Size	SCFM	Transparent Bowl Part #	Metal Bowl Part #
3/8"	176	<b>L28-03A</b>	<b>L28-03AMB</b>
1/2"	184	<b>L28-04A</b>	<b>L28-04AMB</b>
3/4"	200	<b>L28-06A</b>	<b>L28-06AMB</b>



with metal bowl

- 26 oz. bowl

Size	SCFM	Transparent Bowl Part #	Metal Bowl Part #
3/4"	170	<b>L30-06A</b>	<b>L30-06AMB</b>
1"	340	<b>L30-08A</b>	<b>L30-08AMB</b>



with metal bowl

- quick-disconnect clamp ring for easy bowl removal
- manual bottom drain standard (metal bowl with sight glass only)
- 26 oz. bowl
- full view sight dome
- adjustable oil feed
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **200 PSIG** (14 bar) and **150°F** (65.5°C)

Size	SCFM	Transparent Bowl Part #	Metal Bowl Part #
1 1/4"	850	<b>L40-0AA</b>	<b>L40-0AAMB</b>
1 1/2"	850	<b>L40-0BA</b>	<b>L40-0BAMB</b>
2"	1100	<b>L50-0CA</b>	<b>L50-0CAMB</b>

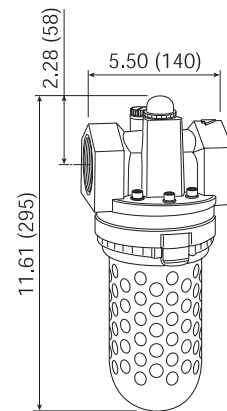


illustration represents L40 series

See pages 32 - 35 for lubricator accessories.



*FRL's are designed for air service only, unless otherwise indicated.*

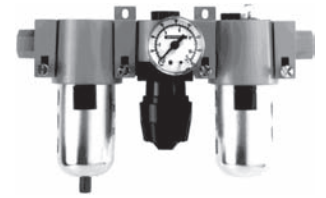
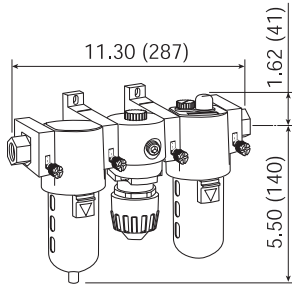
SCFM ratings at 150 PSIG inlet pressure.

## Wilkerson Combination Units

- models supplied with GC230 gauge

### Compact Transparent Bowl with Guard

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
1/4"	28	<b>C16-02A</b>	<b>C16-02M</b>
3/8"	48	<b>C16-03A</b>	<b>C16-03M</b>
1/2"	52	<b>C16-04A</b>	<b>C16-04M</b>



with metal bowl

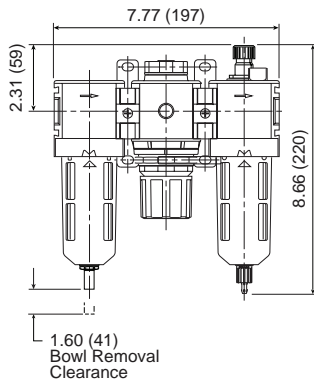
### Compact Metal Bowl with Sight Glass

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
1/4"	28	<b>C16-02AMB</b>	<b>C16-02MMB</b>
3/8"	48	<b>C16-03AMB</b>	<b>C16-03MMB</b>
1/2"	52	<b>C16-04AMB</b>	<b>C16-04MMB</b>

- models supplied with GC230 gauge

### Compact Transparent Bowl with Guard

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
1/4"	80	<b>C18-02A</b>	<b>C18-02M</b>
3/8"	92	<b>C18-03A</b>	<b>C18-03M</b>
1/2"	92	<b>C18-04A</b>	<b>C18-04M</b>



with metal bowl

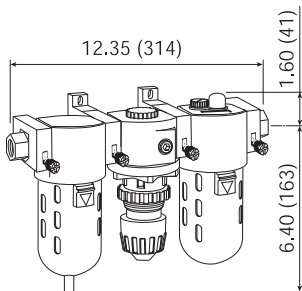
### Compact Metal Bowl with Sight Glass

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
1/4"	80	<b>C18-02AMB</b>	<b>C18-02MMB</b>
3/8"	92	<b>C18-03AMB</b>	<b>C18-03MMB</b>
1/2"	92	<b>C18-04AMB</b>	<b>C18-04MMB</b>

- models supplied with GC230 gauge

### Standard Transparent Bowl with Guard

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
1/4"	28	<b>C26-02A</b>	<b>C26-02M</b>
3/8"	50	<b>C26-03A</b>	<b>C26-03M</b>
1/2"	102	<b>C26-04A</b>	<b>C26-04M</b>



with metal bowl

### Standard Metal Bowl with Sight Glass

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
1/4"	28	<b>C26-02AMB</b>	<b>C26-02MMB</b>
3/8"	50	<b>C26-03AMB</b>	<b>C26-03MMB</b>
1/2"	102	<b>C26-04AMB</b>	<b>C26-04MMB</b>

FRL's are designed for air service only, unless otherwise indicated.

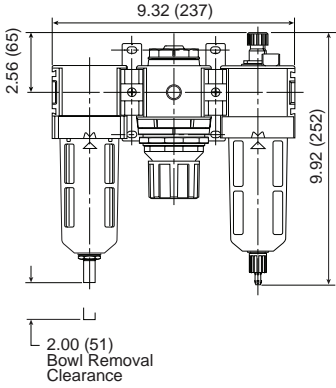


SCFM ratings at 150 PSIG inlet pressure.

## Wilkerson Combination Units

- ready to mount assembly
- modern design and appearance
- quick disconnect bowl / bowlguard

### Standard Transparent Bowl with Guard



Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
3/8"	120	<b>C28-03A</b>	<b>C28-03M</b>
1/2"	135	<b>C28-04A</b>	<b>C28-04M</b>
3/4"	135	<b>C28-06A</b>	<b>C28-06M</b>

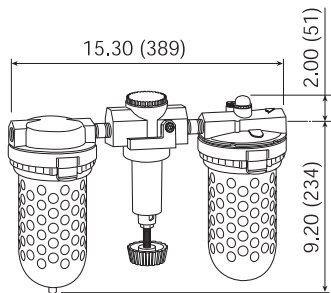
### Standard Metal Bowl with Sight Glass

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
3/8"	120	<b>C28-03AMB</b>	<b>C28-03MMB</b>
1/2"	135	<b>C28-04AMB</b>	<b>C28-04MMB</b>
3/4"	135	<b>C28-06AMB</b>	<b>C28-06MMB</b>



- high flow capacity
- large bowl reservoir

### Jumbo Transparent Bowl with Guard



Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
3/4"	170	<b>C31-06A</b>	<b>C31-06M</b>
1"	340	<b>C31-08A</b>	<b>C31-08M</b>

### Jumbo Metal Bowl with Sight Glass

Size	SCFM	Automatic Drain	Manual Drain
		Part #	Part #
3/4"	170	<b>C31-06AMB</b>	<b>C31-06MMB</b>
1"	340	<b>C31-08AMB</b>	<b>C31-08MMB</b>



**SAFETY  
ALERT**

*FRL's are designed for air service only, unless otherwise indicated.*

SCFM ratings at 150 PSIG inlet pressure.



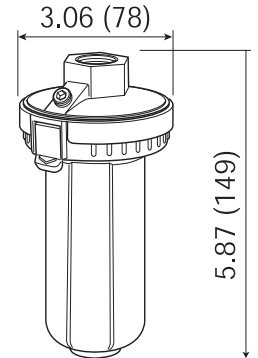
## Wilkerson Automatic Drain

As liquid contaminants collect in the bowl, they raise a closed-cell cellular float. When the liquid level reaches a given point, the float triggers a mechanism which pilots line pressure against a large area piston or diaphragm which snaps open the drain valve. The contaminants are discharged from the drain orifice at line pressure. As the liquid level falls, the pilot valve closes, line pressure against the piston/diaphragm returns to atmosphere and the drain valve snaps closed. A 1/8" NPT vent orifice is provided at the top of the units for alternate installation as shown below. A 1/8" NPT drain discharge orifice allows the liquid discharge to be piped to a container or sewer.



with metal bowl

- 5 oz. bowl
- fully automatic, float operated
- full 1/2" NPT drain inlet
- quick-disconnect clamp ring for easy bowl removal when servicing
- no electrical connections
- easily installed
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **200 PSIG** (14 bar) and **150°F** (65.5°C)



Size	Transparent Bowl Part #	Metal Bowl Part #
1/2"	<b>X02-04</b>	<b>X02-04MB</b>

Automatically drains liquid water and oil from compressed air receivers and systems. Drain valve automatically opens and closes every time the system pressure drops approximately 10 PSI during the compressor cycle. An internal piston design, which utilizes no floats, minimizes the risks associated with drain failures.



- for up to 100 HP compressors
- pressure range: **30 to 200 PSI**
- temperature range: **35°F to 150°F**
- supplied with 1/4" to 3/8" inlet port screen adapter
- no field adjustments needed

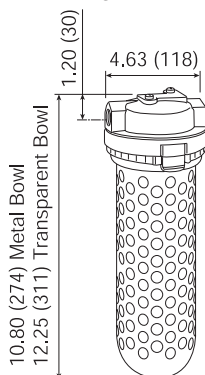
Size	Part #
1/4"	<b>X51-02</b>

## Wilkerson Manual In-Line Desiccant Dryer

Manual air dryers are used to remove water vapor from compressed air systems, in applications such as paint spraying, laboratory instruments and small control air systems. Filtration for absorber type dryers is important to protect the desiccant bed from contamination. Cleaner incoming air will result in better performance, longer life and fewer service problems. To regenerate silica gel desiccant, it must be heated to at least 350°F for approximately 3 hours or until color has changed from pink to blue. Allow desiccant to cool to room temperature before pouring back into unit bowl. An after-filter should be placed downstream from the desiccant dryer to ensure solid contaminants such as desiccant dust do not migrate downstream.

- 1.64 lb. bowl
- will dry up to 4400 standard cubic feet of air
- provides atmospheric dew point of -45°F with dry desiccant at **100 PSI** and **70°F**
- silica gel changes from blue to pink to indicate the need to replace or regenerate the desiccant
- slotted bowl guard for visual detection of color change
- desiccant is good for approximately 8 hours at maximum continuous air flow before regeneration is required
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **150 PSIG** (10 bar) and **150°F** (66°C)
- A standard airline filter and modular coalescing filter should be used as pre-filters when using a desiccant dryer.

**SAFETY ALERT**



Size	SCFM	Transparent Bowl Part #	Metal Bowl Part #
1/4"	10	<b>X03-02</b>	<b>X03-02MB</b>

See page 26 for silica gel refills.



FRL's are designed for air service only, unless otherwise indicated.

**SAFETY ALERT**

SCFM ratings at 150 PSIG inlet pressure.

## Wilkerson Miniature Filters

- 5 micron element
- .5 oz. bowl
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **200 PSIG** (14 bar) and **150°F** (65.5°C)



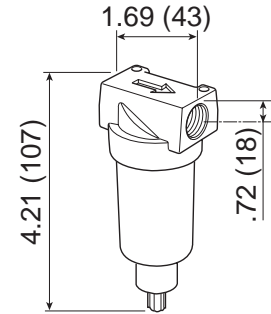
transparent bowl

### Miniature Transparent Bowl

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/8"	27	<b>F03-01A</b>	<b>F03-01M</b>
1/4"	35	<b>F03-02A</b>	<b>F03-02M</b>

### Miniature Metal Bowl

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/8"	25	<b>F03-01AMB</b>	<b>F03-01MMB</b>
1/4"	50	<b>F03-02AMB</b>	<b>F03-02MMB</b>



1.60 (41)  
Bowl Removal  
Clearance

- 5 micron element
- .4 oz. bowl
- maximum operating conditions:  
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)  
metal bowl: **250 PSIG** (17 bar) and **150°F** (65.5°C)



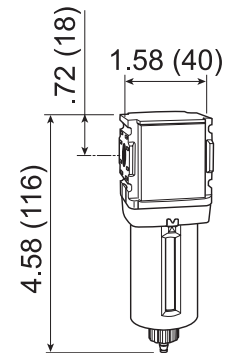
metal bowl

### Miniature Transparent Bowl with Guard

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/8"	25	<b>F08-01A</b>	<b>F08-01M</b>
1/4"	50	<b>F08-02A</b>	<b>F08-02M</b>

### Miniature Metal Bowl

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/8"	25	<b>F08-01AMB</b>	<b>F08-01MMB</b>
1/4"	50	<b>F08-02AMB</b>	<b>F08-02MMB</b>



1.31 (33)  
Bowl Removal  
Clearance

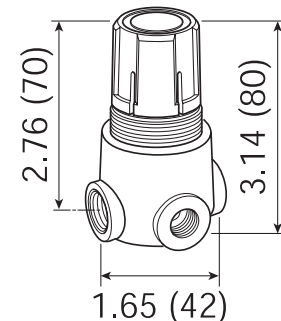
See pages 26 - 29 for filter accessories.

## Wilkerson Miniature Regulators

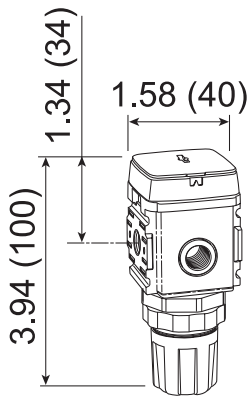
- **0-125 PSI** range
- balanced valve design
- self-relieving standard
- non-rising push/pull locking adjustment knob
- two 1/8" NPT gauge ports standard on models without gauge, one on models with gauge - can be used for additional outlet ports.
- models supplied without gauge use GC620 gauge



Size	SCFM	With Gauge Part #	Without Gauge Part #
1/8"	17.5	<b>R03-01RG</b>	<b>R03-01R</b>
1/4"	24.5	<b>R03-02RG</b>	<b>R03-02R</b>



## Wilkerson Miniature Regulators

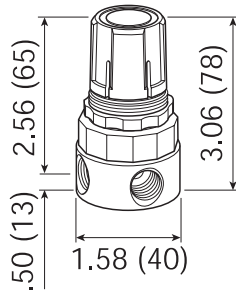


- **0-125 PSI** range
- balanced valve design
- self-relieving standard
- non-rising push/pull locking adjustment knob
- two 1/8" NPT gauge ports standard on models without gauge, one on models with gauge - can be used for additional outlet ports.
- models supplied with gauge come with a 0-160 flush mount style gauge and a one 1/8" NPT gauge port
- models supplied without gauge use GC620 gauge



Size	SCFM	With Gauge Part #	Without Gauge Part #
1/8"	28.7	<b>R08-01RG</b>	<b>R08-01R</b>
1/4"	40	<b>R08-02RG</b>	<b>R08-02R</b>

## Wilkerson Miniature Water Regulators



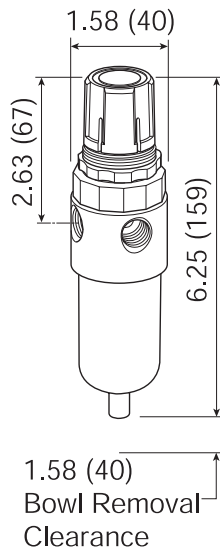
- **0-125 PSI** range
- water or compressed air service
- brass construction - wetted parts
- non-relieving spring-loaded diaphragm
- two 1/8" NPT gauge ports standard
- panel mount nut included
- models supplied without gauge use GC620 gauge



Size	SCFM	With Gauge Part #	Without Gauge Part #
1/8"	11	<b>RB3-01RG</b>	<b>RB3-01R</b>
1/4"	14	<b>RB3-02RG</b>	<b>RB3-02R</b>

See pages 29 - 31 for regulator accessories.

## Wilkerson Miniature Filter / Regulators



- **0-125 PSI** range
- 5 micron element
- .5 oz. bowl
- self-relieving
- models supplied with GC620 gauge

### Miniature Transparent Bowl

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/8"	17.5	<b>BB3-01AG</b>	<b>BB3-01MG</b>
1/4"	24.5	<b>BB3-02AG</b>	<b>BB3-02MG</b>

### Miniature Metal Bowl

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/8"	17.5	<b>BB3-01AGMB</b>	<b>BB3-01MGMB</b>
1/4"	24.5	<b>BB3-02AGMB</b>	<b>BB3-02MGMB</b>



transparent bowl

See pages 36 - 37 for filter / regulator accessories.

FRL's are designed for air service only, unless otherwise indicated.

**SAFETY  
ALERT**

SCFM ratings at 150 PSIG inlet pressure.

## Wilkerson Miniature Filter / Regulators

- 0-125 PSI range
- 5 micron element
- .4 oz. bowl
- self-relieving
- models supplied with 0-160 PSI flush mount style gauge



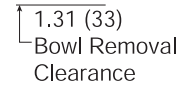
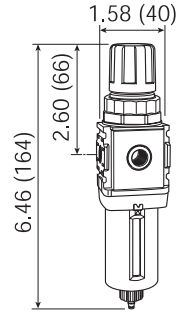
metal bowl

### Miniature Transparent Bowl with Guard

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/8"	28.6	<b>B08-01AG</b>	<b>B08-01MG</b>
1/4"	42.1	<b>B08-02AG</b>	<b>B08-02MG</b>

### Miniature Metal Bowl

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/8"	28.6	<b>B08-01AGMB</b>	<b>B08-01MGMB</b>
1/4"	42.1	<b>B08-02AGMB</b>	<b>B08-02MGMB</b>



See pages 36 - 37 for filter / regulator accessories.

## Wilkerson Miniature Lubricators

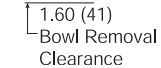
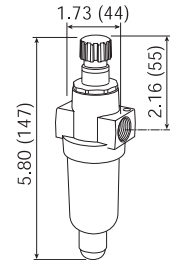
- 1 oz. bowl
- adjustable oil feed
- full view sight dome
- *Do not fill under pressure. Air supply must be turned off and pressure bled from unit prior to adding oil.*

**SAFETY ALERT**



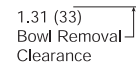
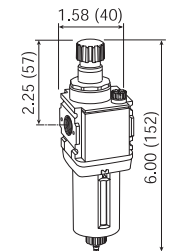
transparent bowl

Size	SCFM	Transparent Bowl Part #	Metal Bowl Part #
1/8"	7.4	<b>L03-01A</b>	<b>L03-01AMB</b>
1/4"	47.5	<b>L03-02A</b>	<b>L03-02AMB</b>



- .6 oz. bowl
- adjustable oil feed
- full view sight dome
- fill under pressure design

Size	SCFM	Transparent Bowl Part #	Metal Bowl Part #
1/8"	23.5	<b>L08-01A</b>	<b>L08-01AMB</b>
1/4"	57.5	<b>L08-02A</b>	<b>L08-02AMB</b>



metal bowl

See pages 32 - 35 for lubricator accessories.

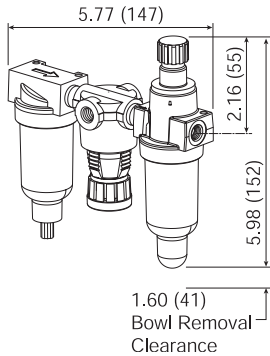
**SAFETY ALERT**

FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

## Wilkerson Miniature Combination Units (Filter, Regulator, Lubricator)

- models supplied with GC620 gauge



### Miniature Transparent Bowl with Guard

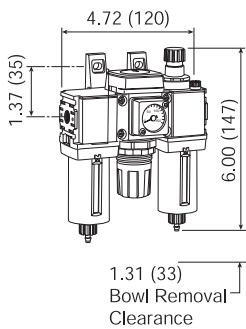
Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/8"	4.5	<b>C03-01A</b>	<b>C03-01M</b>
1/4"	26	<b>C03-02A</b>	<b>C03-02M</b>



### Miniature Metal Bowl

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/8"	4.5	<b>C03-01AMB</b>	<b>C03-01MMB</b>
1/4"	26	<b>C03-02AMB</b>	<b>C03-02MMB</b>

- models supplied with 0-160 PSI flush mount style gauge



### Miniature Transparent Bowl with Guard

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/8"	28.7	<b>C08-01A</b>	<b>C08-01M</b>
1/4"	40	<b>C08-02A</b>	<b>C08-02M</b>

### Miniature Metal Bowl

Size	SCFM	Automatic Drain Part #	Manual Drain Part #
1/8"	28.7	<b>C08-01AMB</b>	<b>C08-01MMB</b>
1/4"	40	<b>C08-02AMB</b>	<b>C08-02MMB</b>



FRL's are designed for air service only, unless otherwise indicated.



SCFM ratings at 150 PSIG inlet pressure.

## Wilkerson Filter Accessories

### Elements



FRP-95-115

Used On	Description	Part #
F00	5 micron	<b>FRP-95-235</b>
F03	5 micron	<b>PS403</b>
F08	5 micron	<b>FRP-96-729</b>
F16	5 micron	<b>FRP-95-160</b>
F18	5 micron	<b>FRP-96-639</b>
F26	5 micron	<b>FRP-95-115</b>
F28	5 micron	<b>FRP-96-653</b>
F30	5 micron	<b>FRP-95-209</b>
F35	5 micron	<b>FRP-95-505</b>
F42	5 micron	<b>FRP-95-566</b>



MTP-95-548

Used On	Description	Part #
M26	type B element	<b>MSP-95-989</b>
M16	type C element	<b>MTP-95-548</b>
M26	type C element	<b>MTP-95-549</b>
M30	type C element	<b>MTP-95-551</b>
M35	type C element	<b>MTP-95-502</b>

### Gel Refills

Used On	Description	Part #
X03	8 bags of silica gel refill	<b>DRP-85-059</b>

### Bowls and Bowl Guards



FRP-95-015

Used On	Description	Part #
F00	plastic bowl with check valve drain metal bowl with manual drain	<b>GRP-96-310</b> <b>GRP-96-506</b>
F03	plastic bowl with piston drain metal bowl with manual drain	<b>PS408B</b> <b>PS447B</b>
F08	plastic bowl with guard and manual drain metal bowl with manual drain	<b>GRP-96-712</b> <b>GRP-96-714</b>
F16, M16	plastic bowl and metal bowl guard with flex tip drain plastic bowl and metal bowl guard with auto drain metal bowl with sight glass and manual drain metal bowl with auto drain	<b>FRP-95-014</b> <b>FRP-95-015</b> <b>GRP-95-133</b> <b>FRP-95-950</b>
F18	plastic bowl, bowl guard, manual drain plastic bowl, bowl guard, auto drain metal bowl with sight glass, manual drain metal bowl with sight glass, auto float drain	<b>GRP-96-634</b> <b>GRP-96-635</b> <b>GRP-96-636</b> <b>GRP-96-637</b>
F26, M26	plastic bowl and metal bowl guard with flex tip drain plastic bowl and metal bowl guard with auto drain metal bowl with sight glass and manual drain metal bowl with auto drain	<b>GRP-95-935</b> <b>GRP-95-948</b> <b>GRP-95-931</b> <b>GRP-95-960</b>
F28	plastic bowl with guard, auto drain plastic bowl, bowl guard, manual drain metal bowl, with sight glass, manual drain metal bowl with sight glass, auto float drain	<b>GRP-96-643</b> <b>GRP-96-642</b> <b>GRP-96-644</b> <b>GRP-96-645</b>
F30, M30	plastic bowl and metal bowl guard with manual drain plastic bowl and metal bowl guard with auto drain plastic bowl with flex tip drain metal bowl with sight glass and manual drain metal bowl with auto drain	<b>FRP-95-832</b> <b>FRP-95-775</b> <b>FRP-96-315</b> <b>GRP-95-676</b> <b>GRP-95-970</b>



## Wilkerson Filter Accessories

## Auto and Manual Drains

Used On	Description	Part #
F00	automatic drain manual drain	<b>GRP-95-584</b> <b>GRP-96-102</b>
F08	automatic drain	<b>GRP-96-716</b>
F16, F18, F26, F28, F30, F35, M16, M26, M30, M32, M35	automatic drain with fluorocarbon seal	<b>GRP-95-981</b>
F16, F18, F26, F28, F30, M16, M26, M30	automatic float drain with a nitrile seal	<b>GRP-95-973</b>
F16, F18, F26, F28, F30, F35, M16, M26, M30, M35	manual override drain	<b>GRP-96-001</b>
F16, F26, F30, M16, M26, M30	manual pet cock drain	<b>GRP-95-182</b>
F16, F26, F30, M16, M26, M30	manual flex tip drain	<b>FRP-95-610</b>
F18, F28	manual drain	<b>GRP-96-685</b>



GRP-96-001

## Sight Glass

Used On	Description	Part #
M16, M26	sight glass kit for metal bowls	<b>GRP-95-079</b>



GRP-95-079

## Mounting Brackets and Joiner Sets

Used On	Description	Part #
F00	mounting bracket (L type)	<b>GRP-95-754</b>
F03	mounting bracket	<b>PS417B</b>
F08	mounting bracket (T type) with joiner set and port O-ring	<b>GPA-96-737</b>
	mounting bracket (C type)	<b>GPA-97-010</b>
	joiner set and port O-ring	<b>GPA-96-738</b>
F16, M16	mounting bracket (L type)	<b>GPA-95-016</b>
F18	mounting bracket (C type)	<b>GPA-96-604</b>
	mounting bracket (L type)	<b>GPA-96-606</b>
F18, F28	mounting bracket (T type)	<b>GPA-96-602</b>
	mounting bracket (T type) with joiner set and port O-ring	<b>GPA-96-603</b>
	joiner set and port O-ring with nitrile O-ring	<b>GPA-96-601</b>
	joiner set with port O-ring with fluorocarbon O-rings	<b>GPA-96-614</b>
	bracket with joiner set and port O-ring	<b>GPA-96-754</b>
F26, M26	mounting bracket (L type)	<b>GPA-95-946</b>
F28	mounting bracket (C type)	<b>GPA-96-605</b>
	mounting bracket (L type)	<b>GPA-96-607</b>
F30	wall mount, U-bolt pipe clamp	<b>GRP-95-734</b>



GPA-96-737

## Modular Sleeve with Wall Mounting Brackets

- Designed for mounting a single unit or combination of units directly to the wall.
- The sleeve and mounting bracket can be ordered assembled from the factory, or just the mounting bracket alone to be used on existing modular sleeves.

Used On	Description	Part #
F16, F26	bracket sleeve and bracket	<b>GPA-95-968</b> <b>GPA-95-969</b>



GPA-95-969

## Wilkerson Filter Accessories

### Modular Sleeve



GPA-95-292

- Unique modular sleeve design easily and quickly connects one or more units and accessories together without pipe nipples.
- Hand tightening the threaded pin provides a tight seal between the units.

Used On	Description	Part #
F16, F26	modular sleeve	<b>GPA-95-292</b>

### End Blocks



GPA-97-019

- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks (inlet & outlet)

Used On	Description	Part #
F08	end block set, 1/4" NPT end block set, 3/8" NPT	<b>GPA-97-019</b> <b>GPA-97-020</b>

### Modular Blocks

#### Manifold Block

- allows easy design flexibility
- can be installed after the filter or regulator, providing three additional 1/4" NPT tapped auxiliary ports
- inlet/outlet ports are 1/2" non-tapped
- 1-17/32" width



GPA-95-919

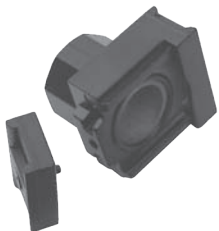
#### End Block

- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks (inlet & outlet)



GPA-95-321

Used On	Description	Part #
F16, M16, F26, M26	manifold block, three 1/4" NPT auxiliary ports end block, 1/4" NPT end block, 3/8" NPT end block, 1/2" NPT end block, 3/4" NPT end block, 1" NPT	<b>GPA-95-919</b> <b>GPA-95-223</b> <b>GPA-95-224</b> <b>GPA-95-225</b> <b>GPA-95-320</b> <b>GPA-95-321</b>
F18, F28	end block, 1/4" NPT end block, 3/8" NPT end block, 1/2" NPT end block, 3/4" NPT end block, G1/4" end block, G3/8" end block, G1/2" end block, G3/4"	<b>GPA-96-610</b> <b>GPA-96-611</b> <b>GPA-96-612</b> <b>GPA-96-613</b> <b>GPA-96-620</b> <b>GPA-96-621</b> <b>GPA-96-622</b> <b>GPA-96-623</b>



GPA-96-610

### Modular Adapters

- When used with the modular sleeve, adapter inserts allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks



GPA-95-037

Used On	Description	Part #
F16, M16, F26, M26	1/4" NPT pipe adapter 3/8" NPT pipe adapter 1/2" NPT pipe adapter	<b>GPA-95-035</b> <b>GPA-95-036</b> <b>GPA-95-037</b>

## Wilkerson Filter Accessories

### Modular Shut-Off Valves

- can be installed immediately upstream of a single unit or combination of units
- secured to the unit with a modular sleeve or modular sleeve wall mounting bracket
- ball-type valve operates with a 1/4 turn from open to shut position
- useful for isolating and depressurizing a downstream unit requiring maintenance or replacement
- can be locked in the open position
- left to right flow

Used On	Description	Part #
F16, F26	1/4" NPT safety lock-out valve	<b>GPA-95-096</b>
	3/8" NPT safety lock-out valve	<b>GPA-95-097</b>
	1/2" NPT safety lock-out valve	<b>GPA-95-098</b>



GPA-95-098

### Differential Pressure Indicators

- used to replace damaged indicators on filters and modular coalescing filters
- Pressure loss changes color of indicator window from green to red.

Used On	Description	Part #
M16, M26, M30, M32	indicator	<b>DP2-01-000</b>
F35, M35	indicator	<b>DP2-01-001</b>



DP2-01-000

## Wilkerson Regulator Accessories

### Replacement Springs

Used On	Description	Part #
R16	0-50 PSI spring	<b>RRP-95-222</b>
	0-125 PSI spring	<b>RRP-95-224</b>
R18	0-125 PSI spring	<b>RRP-96-661</b>
R26	0-60 PSI spring	<b>RRP-95-962</b>
	0-125 PSI spring	<b>GRP-95-225</b>
R28	0-125 PSI spring	<b>RRP-96-165</b>



RRP-95-222

### Gauges

- for units originally purchased with flush mounted gauge

Used On	Description	Part #
R08	0-160 PSI, flush mount design	<b>GRP-96-719</b>



GRP-96-719

### Tamper Resistant Kits

Used On	Description	Part #
R00, R08	ring style tamper resistant kit	<b>RPA-96-735</b>
R16, R26	ring style tamper resistant kit	<b>RPA-95-006</b>
R18	ring style tamper resistant kit	<b>RRP-96-671</b>
R28	ring style tamper resistant kit	<b>RRP-96-672</b>



RPA-95-006

## Wilkerson Regulator Accessories

### Repair Kits



RRP-95-952

Used On	Description	Part #
R16	self-relieving repair kit	<b>RRP-95-131</b>
R18	relieving diaphragm assembly	<b>RRP-96-656</b>
R26	self-relieving repair kit	<b>RRP-95-952</b>
R28	relieving diaphragm assembly	<b>RRP-96-986</b>
R30	valve assembly: valve, spring, bottom plug O-ring	<b>RRP-95-159</b>
R40	valve assembly: valve, spring, retaining ring, O-rings	<b>RRP-95-161</b>

### Mounting Brackets and Joiner Sets



GPA-96-737

Used On	Description	Part #
R00, RB3	mounting bracket (L type) and nut	<b>GRP-95-747</b>
R03	mounting bracket	<b>PS417B</b>
R08	mounting bracket (T type) with joiner set	<b>GPA-96-737</b>
	mounting bracket (C type)	<b>GPA-97-010</b>
	mounting bracket (L type)	<b>GRP-96-739</b>
	joiner set with port O-ring	<b>GPA-96-738</b>
R16	mounting bracket (L type) and nut	<b>GPA-95-011</b>
R16, R21, R26, R30, R40	bracket, wall mount, gauge port adapter with 1/4" NPT	<b>RRP-95-590</b>
R26	mounting bracket (C type) and nut	<b>RPA-95-947</b>
R30	wall mount, U-bolt pipe clamp	<b>GRP-95-734</b>

### Modular Sleeve with Wall Mounting Brackets



GPA-95-969

- Designed for mounting a single unit or combination of units directly to the wall.
- The sleeve and mounting bracket can be ordered assembled from the factory, or just the mounting bracket alone to be used on existing modular sleeves.

Used On	Description	Part #
R16, R26	bracket sleeve and bracket	<b>GPA-95-968</b> <b>GPA-95-969</b>

### Modular Sleeve



GPA-95-292

- Unique modular sleeve design easily and quickly connects one or more units and accessories together without pipe nipples.
- Hand tightening the threaded pin provides a tight seal between the units.

Used On	Description	Part #
R16, R26	modular sleeve	<b>GPA-95-292</b>

### End Blocks



GPA-97-019

- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks (inlet & outlet)

Used On	Description	Part #
R08	end block set, 1/4" NPT	<b>GPA-97-019</b>
	end block set, 3/8" NPT	<b>GPA-97-020</b>

# Wilkerson Regulator Accessories

## Modular Blocks

### Manifold Block

- allows easy design flexibility
- can be installed after the filter or regulator, providing three additional 1/4" NPT tapped auxiliary ports
- inlet/outlet ports are 1/2" non-tapped
- 1-17/32" width

### End Block

- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks (inlet & outlet)

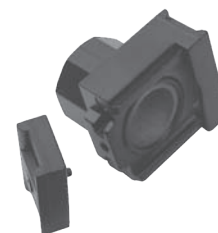
Used On	Description	Part #
R16, R26	manifold block, three 1/4" NPT auxiliary ports	<b>GPA-95-919</b>
	end block, 1/4" NPT	<b>GPA-95-223</b>
	end block, 3/8" NPT	<b>GPA-95-224</b>
	end block, 1/2" NPT	<b>GPA-95-225</b>
	end block, 3/4" NPT	<b>GPA-95-320</b>
	end block, 1" NPT	<b>GPA-95-321</b>
R18, R28	end block, 1/4" NPT	<b>GPA-96-610</b>
	end block, 3/8" NPT	<b>GPA-96-611</b>
	end block, 1/2" NPT	<b>GPA-96-612</b>
	end block, 3/4" NPT	<b>GPA-96-613</b>
	end block, G1/4"	<b>GPA-96-620</b>
	end block, G3/8"	<b>GPA-96-621</b>
	end block, G1/2"	<b>GPA-96-622</b>
	end block, G3/4"	<b>GPA-96-623</b>



GPA-95-919



GPA-95-321



GPA-96-610

## Modular Adapters

- When used with the modular sleeve, adapter inserts allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks

Used On	Description	Part #
R16, R26	1/4" NPT pipe adapter	<b>GPA-95-035</b>
	3/8" NPT pipe adapter	<b>GPA-95-036</b>
	1/2" NPT pipe adapter	<b>GPA-95-037</b>



GPA-95-037

## Modular Shut-Off Valves

- can be installed immediately upstream of a single unit or combination of units
- secured to the unit with a modular sleeve or modular sleeve wall mounting bracket
- ball-type valve operates with a 1/4 turn from open to shut position
- useful for isolating and depressurizing a downstream unit requiring maintenance or replacement
- can be locked in the open position
- left to right flow

Used On	Description	Part #
R16, R26	1/4" NPT safety lock-out valve	<b>GPA-95-096</b>
	3/8" NPT safety lock-out valve	<b>GPA-95-097</b>
	1/2" NPT safety lock-out valve	<b>GPA-95-098</b>



GPA-95-098

## Wilkerson Lubricator Accessories

### Modular Sleeve with Wall Mounting Brackets



GPA-95-969

- Designed for mounting a single unit or combination of units directly to the wall.
- The sleeve and mounting bracket can be ordered assembled from the factory, or just the mounting bracket alone to be used on existing modular sleeves.

Used On	Description	Part #
L16, L26	bracket sleeve and bracket	<b>GPA-95-968</b> <b>GPA-95-969</b>

### Modular Sleeve



GPA-95-292

- Unique modular sleeve design easily and quickly connects one or more units and accessories together without pipe nipples.
- Hand tightening the threaded pin provides a tight seal between the units.

Used On	Description	Part #
L16, L26	modular sleeve	<b>GPA-95-292</b>

### End Blocks



GPA-97-019

- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks (inlet & outlet)

Used On	Description	Part #
L08	end block set, 1/4" NPT end block set, 3/8" NPT	<b>GPA-97-019</b> <b>GPA-97-020</b>

### Modular Blocks

#### Manifold Block

- allows easy design flexibility
- can be installed after the filter or regulator, providing three additional 1/4" NPT tapped auxiliary ports
- inlet/outlet ports are 1/2" non-tapped
- 1-17/32" width



GPA-95-919

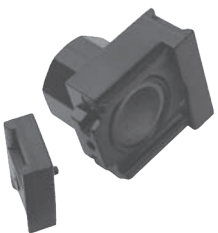
#### End Block

- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks (inlet & outlet)



GPA-95-321

Used On	Description	Part #
L16, L26	manifold block, three 1/4" NPT auxiliary ports end block, 1/4" NPT end block, 3/8" NPT end block, 1/2" NPT end block, 3/4" NPT end block, 1" NPT	<b>GPA-95-919</b> <b>GPA-95-223</b> <b>GPA-95-224</b> <b>GPA-95-225</b> <b>GPA-95-320</b> <b>GPA-95-321</b>
L18, L28	end block, 1/4" NPT end block, 3/8" NPT end block, 1/2" NPT end block, 3/4" NPT end block, G1/4" end block, G3/8" end block, G1/2" end block, G3/4"	<b>GPA-96-610</b> <b>GPA-96-611</b> <b>GPA-96-612</b> <b>GPA-96-613</b> <b>GPA-96-620</b> <b>GPA-96-621</b> <b>GPA-96-622</b> <b>GPA-96-623</b>



GPA-96-610



## Wilkerson Lubricator Accessories

### Modular Sleeve with Wall Mounting Brackets

- Designed for mounting a single unit or combination of units directly to the wall.
- The sleeve and mounting bracket can be ordered assembled from the factory, or just the mounting bracket alone to be used on existing modular sleeves.

Used On	Description	Part #
L16, L26	bracket	<b>GPA-95-968</b>
	sleeve and bracket	<b>GPA-95-969</b>



GPA-95-969

### Modular Sleeve

- Unique modular sleeve design easily and quickly connects one or more units and accessories together without pipe nipples.
- Hand tightening the threaded pin provides a tight seal between the units.

Used On	Description	Part #
L16, L26	modular sleeve	<b>GPA-95-292</b>



GPA-95-292

### End Blocks

- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks (inlet & outlet)

Used On	Description	Part #
L08	end block set, 1/4" NPT	<b>GPA-97-019</b>
	end block set, 3/8" NPT	<b>GPA-97-020</b>



GPA-97-019

### Modular Blocks

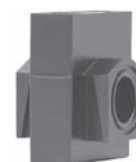
#### Manifold Block

- allows easy design flexibility
- can be installed after the filter or regulator, providing three additional 1/4" NPT tapped auxiliary ports
- inlet/outlet ports are 1/2" non-tapped
- 1-17/32" width

#### End Block

- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks (inlet & outlet)

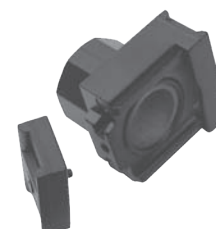
Used On	Description	Part #
L16, L26	manifold block, three 1/4" NPT auxiliary ports	<b>GPA-95-919</b>
	end block, 1/4" NPT	<b>GPA-95-223</b>
	end block, 3/8" NPT	<b>GPA-95-224</b>
	end block, 1/2" NPT	<b>GPA-95-225</b>
	end block, 3/4" NPT	<b>GPA-95-320</b>
L18, L28	end block, 1" NPT	<b>GPA-95-321</b>
	end block, 1/4" NPT	<b>GPA-96-610</b>
	end block, 3/8" NPT	<b>GPA-96-611</b>
	end block, 1/2" NPT	<b>GPA-96-612</b>
	end block, 3/4" NPT	<b>GPA-96-613</b>
	end block, G1/4"	<b>GPA-96-620</b>
	end block, G3/8"	<b>GPA-96-621</b>
	end block, G1/2"	<b>GPA-96-622</b>
	end block, G3/4"	<b>GPA-96-623</b>



GPA-95-919



GPA-95-321



GPA-96-610

## Wilkerson Lubricator Accessories

### Modular Adapters



GPA-95-037

- When used with the modular sleeve, adapter inserts allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks

Used On	Description	Part #
L16, L26	1/4" NPT pipe adapter 3/8" NPT pipe adapter 1/2" NPT pipe adapter	<b>GPA-95-035</b> <b>GPA-95-036</b> <b>GPA-95-037</b>

### Modular Shut-Off Valves



GPA-95-098

- can be installed immediately upstream of a single unit or combination of units
- secured to the unit with a modular sleeve or modular sleeve wall mounting bracket
- ball-type valve operates with a 1/4 turn from open to shut position
- useful for isolating and depressurizing a downstream unit requiring maintenance or replacement
- can be locked in the open position
- left to right flow

Used On	Description	Part #
L16, L26	1/4" NPT safety lock-out valve 3/8" NPT safety lock-out valve 1/2" NPT safety lock-out valve	<b>GPA-95-096</b> <b>GPA-95-097</b> <b>GPA-95-098</b>

### Drains



GRP-96-685

Used On	Description	Part #
L16, L26, L40, L50	manual drain	<b>GRP-96-102</b>
L16, L26, L30, L40, L50	manual pet cock drain	<b>GRP-95-182</b>
L18, L28	manual drain	<b>GRP-96-685</b>

### Sight Domes and Fill Plugs



LRP-95-249

Used On	Description	Part #
L00, L08, L16, L26	sight dome kit: dome and O-ring	<b>LRP-95-239</b>
L08	fill plug kit: fill plug and O-ring	<b>LRP-96-730</b>
L08, L18, L28	sight dome kit (old style -08)	<b>LRP-96-710</b>
L16, L26	sight glass kit for metal bowls	<b>GRP-95-079</b>
L16, L26, L30	fill plug kit: fill plug and O-ring	<b>LRP-95-253</b>
L18, L28	sight dome assembly (new style)	<b>LRP-96-310</b>
L30, L40, L50	sight dome kit: dome and O-ring	<b>LRP-95-249</b>
L40, L50	fill plug kit: fill plug and O-ring	<b>LRP-95-250</b>

## Wilkerson Lubricator Accessories

## Bowls and Bowl Guards

Used On	Description	Part #
L00	metal bowl with manual drain	<b>GRP-96-506</b>
L03	plastic bowl with no drain	<b>PS421</b>
L08	metal bowl with manual drain	<b>GRP-96-714</b>
	plastic bowl with guard and manual drain	<b>LRP-96-736</b>
L16	metal bowl with sight glass and manual drain	<b>GRP-95-133</b>
	plastic bowl, bowl guard, manual drain	<b>GRP-95-019</b>
	plastic bowl with no drain	<b>LRP-96-937</b>
L18	metal bowl with sight glass, manual drain	<b>GRP-96-636</b>
	plastic bowl, bowl guard, manual drain	<b>LRP-96-701</b>
L26	metal bowl with sight glass and manual drain	<b>GRP-95-931</b>
	plastic bowl with no drain	<b>LRP-96-938</b>
L28	metal bowl with sight glass, manual drain	<b>GRP-96-644</b>
	plastic bowl, bowl guard, manual drain	<b>LRP-96-702</b>
L30, L40	metal bowl with sight glass and manual drain	<b>GRP-95-676</b>
L30, L40, L50	plastic bowl with no drain	<b>LRP-96-940</b>



GRP-95-019

## Mounting Brackets

Used On	Description	Part #
L00	mounting bracket (L type)	<b>GRP-95-754</b>
L03	mounting bracket	<b>PS419</b>
L08	mounting bracket (T type) with joiner set and port O-ring	<b>GPA-96-737</b>
	mounting bracket (C type)	<b>GPA-97-010</b>
	joiner set and port O-ring	<b>GPA-96-738</b>
L16	mounting bracket (L type)	<b>GPA-95-016</b>
L18	mounting bracket (C type)	<b>GPA-96-604</b>
	mounting bracket (L type)	<b>GPA-96-606</b>
L18, L28	mounting bracket (T type)	<b>GPA-96-602</b>
	mounting bracket (T type) with joiner set and port O-ring	<b>GPA-96-603</b>
	joiner set with port O-ring	<b>GPA-96-614</b>
	bracket with joiner set and port O-ring	<b>GPA-96-754</b>
L26	mounting bracket (L type)	<b>GPA-95-946</b>
L28	mounting bracket (C type)	<b>GPA-96-605</b>
	mounting bracket (L type)	<b>GPA-96-607</b>
L30	wall mount, U-bolt pipe clamp	<b>GRP-95-734</b>



GPA-96-737

## Wilkerson Filter/Regulator Accessories

### Elements



FRP-96-729

Used On	Description	Part #
B08	5 micron	<b>FRP-96-729</b>
CB6	5 micron	<b>FRP-95-160</b>
B18	5 micron	<b>FRP-96-639</b>
B28	5 micron	<b>FRP-96-653</b>

### Bowls and Bowl Guards



GRP-96-636

Used On	Description	Part #
B08	plastic bowl with guard and manual drain metal bowl with manual drain	<b>GRP-96-712</b> <b>GRP-96-714</b>
CB6	plastic bowl and metal bowl guard with flex tip drain plastic bowl and metal bowl guard with auto drain metal bowl with auto drain	<b>FRP-95-014</b> <b>FRP-95-015</b> <b>FRP-95-950</b>
B18	plastic bowl, bowl guard, manual drain plastic bowl, bowl guard, auto drain metal bowl with sight glass, manual drain metal bowl with sight glass, auto float drain	<b>GRP-96-634</b> <b>GRP-96-635</b> <b>GRP-96-636</b> <b>GRP-96-637</b>
B28	plastic bowl with guard, auto drain plastic bowl, bowl guard, manual drain metal bowl, with sight glass, manual drain metal bowl with sight glass, auto float drain	<b>GRP-96-643</b> <b>GRP-96-642</b> <b>GRP-96-644</b> <b>GRP-96-645</b>

### Auto and Manual Drains



GRP-96-001

Used On	Description	Part #
B08	automatic drain	<b>GRP-96-716</b>
CB6	manual pet cock drain manual flex tip drain	<b>GRP-95-182</b> <b>FRP-95-610</b>
CB6, B18, B28	automatic drain with flouracarbon seal automatic float drain with a nitrile seal manual override drain	<b>GRP-95-981</b> <b>GRP-95-973</b> <b>GRP-96-001</b>
B18, B28	manual drain	<b>GRP-96-685</b>

### Accessories

Used On	Description	Part #
CB6	kit for metal bowl	<b>GRP-95-079</b>

### Replacement Springs



RRP-95-222

Used On	Description	Part #
CB6	0-50 PSI spring 0-125 PSI spring	<b>RRP-95-222</b> <b>RRP-95-224</b>
B18	0-125 PSI spring	<b>RRP-96-661</b>
B28	0-125 PSI spring	<b>RRP-96-165</b>

## Wilkerson Filter/Regulator Accessories

## Tamper Resistant Kits

Used On	Description	Part #
B08	ring style tamper resistant kit	<b>RPA-96-735</b>
B18	ring style tamper resistant kit	<b>RRP-96-671</b>
B28	ring style tamper resistant kit	<b>RRP-96-672</b>

## Repair Kits

Used On	Description	Part #
B18	diaphragm assembly, relieving	<b>RRP-96-656</b>
B28	diaphragm assembly, relieving	<b>RRP-96-986</b>

## Mounting Brackets and Joiner Sets

Used On	Description	Part #
R08	mounting bracket (T type) with joiner set	<b>GPA-96-737</b>
	mounting bracket (C type)	<b>GPA-97-010</b>
	mounting bracket (L type)	<b>GRP-96-739</b>
	joiner set with port O-ring	<b>GPA-96-738</b>
CB6	mounting bracket (L type) and nut	<b>GPA-95-011</b>
	bracket, wall mount, gauge port adapter with 1/4" NPT	<b>RRP-95-590</b>
B18	mounting bracket (C type)	<b>GPA-96-604</b>
	mounting bracket (L type)	<b>GPA-96-606</b>
B18, B28	mounting bracket (T type)	<b>GPA-96-602</b>
	mounting bracket (T type) with joiner set	<b>GPA-96-603</b>
	joiner set with port O-ring	<b>GPA-96-614</b>
	bracket with joiner set and port O-ring	<b>GPA-96-754</b>
	joiner set	<b>GPA-96-601</b>
B28	mounting bracket (C type)	<b>GPA-96-605</b>
	mounting bracket (L type)	<b>GPA-96-607</b>



GPA-96-737

# Cross Reference

Dixon	Wilkerson	Dixon	Wilkerson	Dixon	Wilkerson	Dixon	Wilkerson
B08-01AG	B08-01-FRG0	C18-02M	C18-02-FKG0	F08-01AMB	F08-01-SS00	L08-02AMB	L08-02-KL00
B08-01MG	B08-01-FKG0	C18-03M	C18-03-FKG0	F08-02AMB	F08-02-SS00	L16-02A	L16-02-000
B08-01AGMB	B08-01-LSG0	C18-04M	C18-04-FKG0	F08-01MMB	F08-01-SL00	L16-03A	L16-03-000
B08-01MGMB	B08-01-LLG0	C18-02AMB	C18-02-FHG0	F08-02MMB	F08-02-SL00	L16-04A	L16-04-000
B08-02AG	B08-02-FRG0	C18-03AMB	C18-03-FHG0	F16-02A	F16-02-F00	L16-02AMB	L16-02-G00
B08-02MG	B08-02-FKG0	C18-04AMB	C18-04-FHG0	F16-03A	F16-03-F00	L16-03AMB	L16-03-G00
B08-02AGMB	B08-02-LSG0	C18-02MMB	C18-02-FLG0	F16-04A	F16-04-F00	L16-04AMB	L16-04-G00
B08-02MGMB	B08-02-LLG0	C18-03MMB	C18-03-FLG0	F16-02M	F16-02-000	L18-02A	L18-02-KK00
B18-02A	B18-02FGG0	C18-04MMB	C18-04-FLG0	F16-03M	F16-03-000	L18-03A	L18-03-KK00
B18-03A	B18-03FGG0	C26-02A	C26-02-F00	F16-04M	F16-04-000	L18-04A	L18-04-KK00
B18-04A	B18-04-FGG0	C26-02M	C26-02-000	F16-02AMB	F16-02-FG0	L18-02AMB	L18-02-KL00
B18-02M	B18-02-FK00	C26-02AMB	C26-02-FG0	F16-03AMB	F16-03-FG0	L18-03AMB	L18-03-KL00
B18-03M	B18-03-FK00	C26-02MMB	C26-02-G00	F16-04AMB	F16-04-FG0	L18-04AMB	L18-04-KL000
B18-04M	B18-04-FK00	C26-03A	C26-03-F00	F16-02MMB	F16-02-G00	L26-02A	L26-02-000
B18-02AMB	B18-02-GH00	C26-03M	C26-03-000	F16-03MMB	F16-03-G00	L26-03A	L26-03-000
B18-03AMB	B18-03-GH00	C26-03AMB	C26-03-FG0	F16-04MMB	F16-04-G00	L26-04A	L26-04-000
B18-04AMB	B18-04-GH00	C26-03MMB	C26-03-G00	F18-02A	F18-02-SG00	L26-02AMB	L26-02-G00
B18-02MMB	B18-02-GL00	C26-04A	C26-04-F00	F18-03A	F18-03-SG00	L26-03AMB	L26-03-G00
B18-03MMB	B18-03-GL00	C26-04M	C26-04-000	F18-04A	F18-04-SG00	L26-04AMB	L26-04-G00
B18-04MMB	B18-04-GL00	C26-04AMB	C26-04-FG0	F18-02M	F18-02-SK00	L28-03A	L28-03-KK00
B28-03A	B28-03-FG00	C26-04MMB	C26-04-G00	F18-03M	F18-03-SK00	L28-04A	L28-04-KK00
B28-04A	B28-04-FG00	C28-03A	C28-03-FGG0	F18-04M	F18-04-SK00	L28-06A	L28-06-KK00
B28-06A	B28-06-FG00	C28-04A	C28-04-FGG0	F18-02AMB	F18-02-SH00	L28-03AMB	L28-03-KL00
B28-03M	B28-03-FK00	C28-06A	C28-06-FGG0	F18-03AMB	F18-03-SH00	L28-04AMB	L28-04-KL00
B28-04M	B28-04-FK00	C28-03M	C28-03-FKG0	F18-04AMB	F18-04-SH00	L28-06AMB	L28-06-KL00
B28-06M	B28-06-FK00	C28-04M	C28-04-FKG0	F18-02MMB	F18-02-SL00	L30-06A	L30-06-000
B28-03AMB	B28-03-GH00	C28-06M	C28-06-FKG0	F18-03MMB	F18-03-SL00	L30-08A	L30-08-000
B28-04AMB	B28-04-GH00	C28-03AMB	C28-03-FHG0	F18-04MMB	F18-04-SL00	L30-06AMB	L30-06-G00
B28-06AMB	B28-06-GH00	C28-04AMB	C28-04-FHG0	F26-02A	F26-02-F00	L30-08AMB	L30-08-G00
B28-03MMB	B28-03-GL00	C28-06AMB	C28-06-FHG0	F26-03A	F26-03-F00	L40-0AA	L40-0A-000
B28-04MMB	B28-04-GL00	C28-03MMB	C28-03-FLG0	F26-04A	F26-04-F00	L40-0BA	L40-0B-000
B28-06MMB	B28-06-GL00	C28-04MMB	C28-04-FLG0	F26-02M	F26-02-000	L40-0CA	L40-0C-000
BB3-01AG	BB3-01-FRGO	C28-06MMB	C28-06-FLG0	F26-03M	F26-03-000	L40-0AAMB	L40-0A-G00
BB3-02AG	BB3-02-FRGO	C31-06A	C31-06-F00	F26-04M	F26-04-000	L40-0BAMB	L40-0B-G00
BB3-01AGMB	BB3-01-FSG0	C31-06M	C31-06-000	F26-02AMB	F26-02-FG0	L40-0CAMB	L40-0C-G00
BB3-02AGMB	BB3-02-FSG0	C31-06AMB	C31-06-FG0	F26-03AMB	F26-03-FG0	L50-0CAMB	L50-0C-G00
BB3-01MG	BB3-01-FKG0	C31-06MMB	C31-06-G00	F26-04AMB	F26-04-FG0	M16-02A	M16-02-F00
BB3-01MGMB	BB3-01-FLG0	C31-08A	C31-08-F00	F26-02MMB	F26-02-G00	M16-03A	M16-03-F00
BB3-02MG	BB3-02-FKG0	C31-08M	C31-08-000	F26-03MMB	F26-03-G00	M16-04A	M16-04-F00
BB3-02MGMB	BB3-02-FLG0	C31-08AMB	C31-08-FG0	F26-04MMB	F26-04-G00	M16-02M	M16-02-000
C03-01A	C03-01-D000	C31-08MMB	C31-08-G00	F28-03A	F28-03-SG00	M16-03M	M16-03-000
C03-01M	C03-01-0000	CB6-02AG	CB6-02-F00	F28-04A	F28-04-SG00	M16-04M	M16-04-000
C03-02A	C03-02-D000	CB6-02AGMB	CB6-02-FG0	F28-06A	F28-06-SG00	M26-02A	M26-02-F00
C03-02M	C03-02-0000	CB6-02MG	CB6-02-000	F28-03M	F28-03-SK00	M26-03A	M26-03-F00
C03-01AMB	C03-01-DM00	CB6-02MGMB	CB6-02-G00	F28-04M	F28-04-SK00	M26-04A	M26-04-F00
C03-01MMB	C03-01-M000	CB6-02AMB	CB6-02-FM0	F28-06M	F28-06-SK00	M26-02M	M26-02-000
C03-02AMB	C03-02-DM00	CB6-02MMB	CB6-02-G00	F28-03AMB	F28-03-SH00	M26-03M	M26-03-000
C03-02MMB	C03-02-M000	CB6-03AG	CB6-03-F00	F28-04AMB	F28-04-SH00	M26-04M	M26-04-000
C08-01A	C08-01-FRG0	CB6-03AGMB	CB6-03-FG0	F28-06AMB	F28-06-SH00	M30-04A	M30-04-F00
C08-01M	C08-01-FKG0	CB6-03MG	CB6-03-000	F28-03MMB	F28-03-SL00	M30-06A	M30-06-F00
C08-02A	C08-02-FRG0	CB6-03AMB	CB6-03-FM0	F28-04MMB	F28-04-SL00	M30-08A	M30-08-F00
C08-02M	C08-02-FKG0	CB6-03MGMB	CB6-03-G00	F28-06MMB	F28-06-SL00	M32-0AAMB	M32-0A-F00
C08-01AMB	C08-01-LSG0	CB6-03MMB	CB6-03-G00	F30-06A	F30-06-F00	M35-0BAMB	M35-0B-F00
C08-01MMB	C08-01-LLG0	CB6-04AG	CB6-04-F00	F30-08A	F30-08-F00	M35-0CAMB	M35-0C-F00
C08-02AMB	C08-02-LSG0	CB6-04AGMB	CB6-04-FG0	F30-06M	F30-06-000	R03-01R	R03-01-000
C08-02MMB	C08-02-LLG0	CB6-04MG	CB6-04-000	F30-08M	F30-08-000	R03-02R	R03-02-000
C16-02A	C16-02-F00	CB6-04MGMB	CB6-04-G00	F30-06AMB	F30-06-FG0	R03-01RG	R03-01-G00
C16-02M	C16-02-000	CB6-04AMB	CB6-04-FM0	F30-08AMB	F30-08-FG0	R03-02RG	R03-02-G00
C16-02AMB	C16-02-FG0	CB6-04MMB	CB6-04-G00	F30-06MMB	F30-06-G00	R08-01RG	R08-01-F0G0
C16-02MMB	C16-02-G00	F03-01A	F03-01-D00	F30-08MMB	F30-08-G00	R08-01R	R08-01-F000
C16-03A	C16-03-F00	F03-02A	F03-02-D00	F35-0BAMB	F35-0B-F00	R08-02RG	R08-02-F0G0
C16-03M	C16-03-000	F03-01AMB	F03-01-DM0	F35-0CAMB	F35-0C-F00	R08-02R	R08-02-F000
C16-03AMB	C16-03-FG0	F03-02AMB	F03-02-DM0	F35-0BMMB	F35-0B-000	R16-02R	R16-02-000
C16-03MMB	C16-03-G00	F03-01M	F03-01-000	F35-0CMMB	F35-0C-000	R16-02RG	R16-02-G00
C16-04A	C16-04-F00	F03-02M	F03-02-000	L03-01A	L03-01-000	R16-02RH	R16-02-H00
C16-04M	C16-04-000	F03-01MMB	F03-01-M00	L03-02A	L03-02-000	R16-02RHG	R16-02-GH0
C16-04AMB	C16-04-FG0	F03-02MMB	F03-02-M00	L03-01AMB	L03-01-M00	R16-03RG	R16-03-G00
C16-04MMB	C16-04-G00	F08-01A	F08-01-SR00	L03-02AMB	L03-02-M00	R16-03R	R16-03-000
C18-02A	C18-02-FGG0	F08-02A	F08-02-SR00	L08-01A	L08-01-KK00	R16-03RH	R16-03-H00
C18-03A	C18-03-FGG0	F08-01M	F08-01-SK00	L08-02A	L08-02-KK00	R16-03RHG	R16-03-GH0
C18-04A	C18-04-FGG0	F08-02M	F08-02-SK00	L08-01AMB	L08-01-KL00	R16-04RG	R16-04-G00



Dixon	Wilkerson
R16-04RH	R16-04-H00
R16-04RHG	R16-04-GH0
R16-04R	R16-04-000
R18-02R	R18-02-F0G0
R18-03R	R18-03-F0G0
R18-04R	R18-04-F000
R26-02RG	R26-02-G00
R26-02RH	R26-02-H00
R26-02RHG	R26-02-GH0
R26-02R	R26-02-000
R26-03RG	R26-03-G00
R26-03RH	R26-03-H00
R26-03RHG	R26-03-GH0
R26-03R	R26-03-000
R26-04RG	R26-04-H00
R26-04RH	R26-04-G00
R26-04RHG	R26-04-GH0
R26-04R	R26-04-000
R28-03R	R28-03-F000
R28-04R	R28-04-F000
R28-06R	R28-06-F000
R30-06RG	R30-06-G00
R30-06RH	R30-06-H00
R30-06RHG	R30-06-GH0
R30-06R	R30-06-000
R30-08RG	R30-08-G00
R30-08RH	R30-08-H00
R30-08RHG	R30-08-GH0
R30-08R	R30-08-000
R30-0ARG	R30-0A-G00
R30-0ARH	R30-0A-H00
R30-0ARHG	R30-0A-GH0
R30-0AR	R30-0A-000
R40-0BRG	R30-0B-G00
R40-0BRH	R40-0B-H00
R40-0BRHG	R40-0B-GH0
R40-0BR	R40-0B-000
R40-0CRG	R40-0C-G00
R40-0CRH	R40-0C-H00
R40-0CRHG	R40-0C-GH0
R40-0CR	R40-0C-000
RB3-01R	RB-01-R000
RB3-01RG	RB-01-R0G0
RB3-02R	RB3-02-R000
RB3-02RG	RB3-02-R0G0
X02-04	X02-04-000
X02-04MB	X02-04-M00
X03-02	X03-02-000
X03-02MB	X03-02-M00
X51-02	X51-02-000

## Safety Recommendations

### Air Prep Units:

Air preparation units (FRL's) must be properly maintained if reasonable service life is to be expected. The proper function of these units is essential to safety, performance and the extension of service life of the pneumatic tools involved. Filters must be properly drained, and the filter elements must be cleaned or replaced as necessary. The regulators should be periodically checked for pressure accuracy. Lubricators must be checked to ensure there is always lubricant available in the reservoir of the air tool. Be sure to use only lubricants that are recommended for this service, and never consider a substitution without contacting the manufacturer of the unit. See pages 13-14 for additional information on the use of lubricants.

### FRL Brackets:

Consideration should be given to properly supporting pneumatic preparation units (FRL's in an air system).

Unsupported preparation units can lead to leaks within the piping system that may promote safety and efficiency problems. Mounting brackets are offered on pages 20 and 21.

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## General Safety

- Use Dixon couplings, retention devices and accessory products only for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to Size, Temperature, Application, Media, and Pressure when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the Rubber Manufacturers Association recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to ensure they are undamaged, and properly coupled.
- Use safety clips on couplings, and King Safety Cables on assemblies where required by the manufacturer, as well as State and Federal regulations. (OSHA regulations may be viewed in full on the OSHA website, [www.osha.gov](http://www.osha.gov).)
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (800.355.1991) for advice on couplings, retention devices, and accessories for your application.

Through its divisions and affiliated companies, Dixon is recognized as the premier manufacturer and supplier of hose fittings and accessories spanning a wide range of industrial uses. Dixon's reach includes products for food, dairy processing, beverage and brewery, mobile tankers, mining, construction, chemical processing, petroleum, oilfields, refining, and manufacturing.



*The Right Connection™*

**Dixon Valve & Coupling Company**

800 High Street, Chestertown, MD 21620

Customer Service: 877.963.4966

Fax: 800.283.4966

[dixonvalve.com](http://dixonvalve.com)

# Worm Gear Clamps





### HS STYLE CLAMPS

Diameter Range

	From:	To:	Part #	Master *
1/2" Band Width	7/16"	25/32"	HS6	200
	1/2"	29/32"	HS8	200
	9/16"	1 1/16"	HS10	500
	11/16"	1 1/4"	HS12	500
	13/16"	1 1/2"	HS16	500
	13/16"	1 3/4"	HS20	500
	1 1/16"	2"	HS24	500
	1 5/16"	2 1/4"	HS28	500
	1 9/16"	2 1/2"	HS32	500
	1 13/16"	2 3/4"	HS36	500
9/16" Band Width	2 1/16"	3"	HS40	200
	2 5/16"	3 1/4"	HS44	200
	2 9/16"	3 1/2"	HS48	200
	2 13/16"	3 3/4"	HS52	200
	3 1/16"	4"	HS56	200
	3 5/16"	4 1/4"	HS60	200
	3 9/16"	4 1/2"	HS64	200
	1 7/8"	5"	HS72	100
	2 1/2"	5 1/2"	HS80	100
	3 1/8"	6"	HS88	100
	3 5/8"	6 1/2"	HS96	100
	4 1/8"	7"	HS104	100
	5 5/8"	8 1/2"	HS128	100
	7 1/8"	10"	HS152	100
	9 3/8"	12 1/4"	HS188	100
	10 1/8"	13"	HS200	100
	10 7/8"	13 3/4"	HS212	100
11 5/8"	14 1/2"	HS224	100	
12 3/8"	15 1/4"	HS236	100	
13 1/8"	16"	HS248	100	
17 1/8"	20"	HS312	100	

- Combination 5/16" hexagon and screwdriver slotted screw
- SAE 300 Series Stainless band and housing
- SAE 1018 case-hardened Steel, Zinc plated and Chromate dip screw
- Four piece construction

This clamp meets old Mil Spec WW-C-440B, which has been cancelled. The new governing spec for hose clamps is SAE J1508. **Maximum Recommended Torque 30 in. lbs.**

\* All clamps sold 10 per box

### HSS STYLE CLAMPS

Diameter Range

	From:	To:	Part #	Master *
1/2" Band Width	7/16"	25/32"	HSS6	200
	1/2"	29/32"	HSS8	200
	9/16"	1 1/16"	HSS10	500
	11/16"	1 1/4"	HSS12	500
	13/16"	1 1/2"	HSS16	500
	13/16"	1 3/4"	HSS20	500
	1 1/16"	2"	HSS24	500
	1 5/16"	2 1/4"	HSS28	500
	1 9/16"	2 1/2"	HSS32	500
	1 13/16"	2 3/4"	HSS36	500
9/16" Band Width	2 1/16"	3"	HSS40	200
	2 5/16"	3 1/4"	HSS44	200
	2 9/16"	3 1/2"	HSS48	200
	2 13/16"	3 3/4"	HSS52	200
	3 1/16"	4"	HSS56	200
	3 5/16"	4 1/4"	HSS60	200
	3 9/16"	4 1/2"	HSS64	200
	1 7/8"	5"	HSS72	100
	2 1/2"	5 1/2"	HSS80	100
	3 1/8"	6"	HSS88	100
	3 5/8"	6 1/2"	HSS96	100
	4 1/8"	7"	HSS104	100
	5 5/8"	8 1/2"	HSS128	100
	7 1/8"	10"	HSS152	100
	9 3/8"	12 1/4"	HSS188	100
	10 1/8"	13"	HSS200	100
	10 7/8"	13 3/4"	HSS212	100
11 5/8"	14 1/2"	HSS224	100	
12 3/8"	15 1/4"	HSS236	100	
13 1/8"	16"	HSS248	100	
17 1/8"	20"	HSS312	100	

- All 300 Stainless construction 5/16" hexagon and screwdriver slotted screw
- Marine Grade SAE 300 Series Stainless band and housing
- SAE 305 Series Stainless screw
- Four piece construction

### MINIATURE WORM GEAR CLAMPS

#### Style MH

- Miniature with combination 1/4" hexagon and screw driver slotted screw
- SAE 300 Series Stainless band and housing
- SAE 1018 case-hardened Steel, Zinc plated and Chromate dip screw
- 5/16" band width

Diameter Range

From:	To:	Part #	Master *
7/32"	5/8"	MH4	500
7/16"	25/32"	MH6	500
1/2"	29/32"	MH8	200
9/16"	1 1/16"	MH10	200
11/16"	1 1/4"	MH12	200
15/16"	1 1/2"	MH16	200
1 3/16"	1 3/4"	MH20	200



Maximum Torque 10 in/lbs.

\* All clamps sold 10 per box

#### Style MAH

- Miniature all Stainless construction with combination 1/4" hexagon and screwdriver slotted screw
- Marine Grade SAE 300 Series Stainless band and housing
- SAE 305 Stainless screw
- 5/16" band width

Diameter Range

From:	To:	Part #	Master *
7/32"	5/8"	MAH4	500
7/16"	25/32"	MAH6	500
1/2"	29/32"	MAH8	200
9/16"	1 1/16"	MAH10	200
11/16"	1 1/4"	MAH12	200
15/16"	1 1/2"	MAH16	200
1 3/16"	1 3/4"	MAH20	200



## EURO-SEAL™ EMBOSSED WORM GEAR CLAMP

- Internally embossed perforations eliminate hose damage of soft cover hoses and extrusion through band slots.
- Rounded band edge protects hose surface.
- Smooth housing underside ensures greater concentricity.
- Marine Grade ES 300 Series Stainless Steel band, saddle and housing with a Carbon Steel plated screw.
- Marine Grade ESS 300 Series Stainless Steel, band, saddle and housing with 316 Stainless Steel screw.
- 7 mm slotted hex head screw
- Fasten with 9/32 socket
- Can be used in place of liner clamps.



Sold 10 per box.

**Maximum Recommended Torque Rating 60 in/lbs.**

Diameter Range		Carbon Steel Screw	316 Stainless Steel Screw
From:	To:	Part #	Part #
7/16"	25/32"	<b>ES6</b>	<b>ESS6</b>
1/2"	29/32"	<b>ES8</b>	<b>ESS8</b>
9/16"	1 1/16"	<b>ES10</b>	<b>ESS10</b>
11/16"	1 1/4"	<b>ES12</b>	<b>ESS12</b>
13/16"	1 1/2"	<b>ES16</b>	<b>ESS16</b>
13/16"	1 3/4"	<b>ES20</b>	<b>ESS20</b>
1 1/16"	2"	<b>ES24</b>	<b>ESS24</b>
1 5/16"	2 1/4"	<b>ES28</b>	<b>ESS28</b>
1 9/16"	2 1/2"	<b>ES32</b>	<b>ESS32</b>
1 13/16"	2 3/4"	<b>ES36</b>	<b>ESS36</b>
2 1/16"	3"	<b>ES40</b>	<b>ESS40</b>
2 5/16"	3 1/4"	<b>ES44</b>	<b>ESS44</b>
2 9/16"	3 1/2"	<b>ES48</b>	<b>ESS48</b>

### LS TYPE - Quick Release Clamp

- 301 Stainless Steel housing and band
- Plated hardened Carbon Steel screw

#### Diameter Range

From:	To:	Part #
1 1/2"	3 1/2"	<b>LS48*</b>
1"	4"	<b>LS56*</b>
2"	5"	<b>LS72*</b>
2 1/16"	6"	<b>LS88*</b>
3 1/2"	6 9/16"	<b>LS96</b>
1 3/4"	7"	<b>LS104*</b>
1 3/4"	8 9/16"	<b>LS128</b>
2"	10"	<b>LS152</b>
2 1/16"	12 5/16"	<b>LS188</b>



\* Sold 10 per box.

**Maximum Recommended Torque Rating 30 in/lbs.**

### LSS TYPE - Quick Release Clamp

- 301 Stainless band and housing with SAE 410 Series Stainless screw.
- 1/2" band width

#### Diameter Range

From:	To:	Part #
1 1/2"	3 1/2"	<b>LSS48*</b>
2"	5"	<b>LSS72*</b>
2 1/16"	6"	<b>LSS88*</b>
1 3/4"	7"	<b>LSS104*</b>
1 3/4"	8 9/16"	<b>LSS128</b>
2 1/16"	12 5/16"	<b>LSS188</b>
10 3/16"	14"	<b>LSS216</b>
1 3/4"	16"	<b>LSS248</b>

Sold 10 per box.

## AERO-SEAL CLAMP

### 4-PIECE CONSTRUCTION

Band, saddle housing, and screw.

### FULL 9/16" WIDE BANDS

300-Series Stainless Steel, with a finished edge to protect nose.

### "ARCIAL" BAND SLOTS

Arched on one side for strength, flat on bearing side for strength and smooth action.

### BUTTRESS-THREAD, HEAT TREATED SCREWS

Flat, non-tapered threads bear at right angles to band slots on loaded side; won't jump out. Sloping buttress shape reinforces unloaded side.

### CLINCHED SADDLE & HOUSING

No spot welds to corrode or break. Saddle interlocks into embossed band to form a true concentric circle. There are no lumps, no humps, no excessive pressure points, providing higher sealing pressure with lower torque on screw. Heavy-gauge housing is clinched on 4 corners to interlocked saddle, permitting higher torque capabilities than any 3-piece clamp. Also available with safety collared or thumb screw.

**Maximum Recommended Torque - 50 in/lbs.**



Diameter Range		Plated Carbon Steel Screw	No. 410 Stainless Steel Screw	SS High Corrosion Resistance
From:	To:	Part #	Part #	Part #
7/16"	25/32"	<b>10006</b>	<b>20006</b>	<b>30006</b>
1/2"	29/32"	<b>10008</b>	<b>20008</b>	<b>30008</b>
9/16"	1 1/16"	<b>10010</b>	<b>20010</b>	<b>30010</b>
11/16"	1 1/4"	<b>10012</b>	<b>20012</b>	<b>30012</b>
13/16"	1 1/2"	<b>10016</b>	<b>20016</b>	<b>30016</b>
13/16"	1 3/4"	<b>10020</b>	<b>20020</b>	<b>30020</b>
1 1/16"	2"	<b>10024</b>	<b>20024</b>	<b>30024</b>
1 5/16"	2 1/4"	<b>10028</b>	<b>20028</b>	<b>30028</b>
1 9/16"	2 1/2"	<b>10032</b>	<b>20032</b>	<b>30032</b>
1 13/16"	2 3/4"	<b>10036</b>	<b>20036</b>	<b>30036</b>
2 1/16"	3"	<b>10040</b>	<b>20040</b>	<b>30040</b>
2 5/16"	3 1/4"	<b>10044</b>	<b>20044</b>	<b>30044</b>
2 9/16"	3 1/2"	<b>10048</b>	<b>20048</b>	<b>30048</b>
2 13/16"	3 3/4"	<b>10052</b>	<b>20052</b>	<b>30052</b>
3 1/16"	4"	<b>10056</b>	<b>20056</b>	<b>30056</b>
3 5/16"	4 1/4"	<b>10060</b>	<b>20060</b>	<b>30060</b>

### HOSE COUPLING SAFETY

Dixon's couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling and retention device, and the proper application of the coupling to the hose are of utmost importance.

Users must consider the size, temperature, application, media, pressure and hose and coupling manufacturer's recommendations when selecting the proper hose assembly components. Dixon recommends that all hose assemblies be tested in accordance with the Rubber Manufacturers Association's recommendations and be inspected regularly (before each use) to ensure that they are not damaged or have become loose.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices such as safety clips or safety cables are recommended. If any problem is detected, couplings must be removed from service immediately.

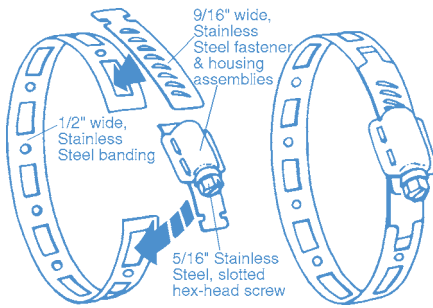
Dixon is available to consult, train and recommend the proper selection and application of all fittings we sell. We strongly recommend that distributors and end users make use of Dixon's Testing and Recommendation Services. Dixon can be contacted at 1-800-355-1991.





## Make-A-Clamp

This is a maintenance "clamp system" in a box. By simply cutting off a piece of banding from a continuous roll, you can make any size 301 Stainless Steel worm-driven clamp from 2" diameter and up. A must for anyone likely to encounter requirements for varying sized large clamps. 1/2" band width, .023 thickness. Reusable.



Part #	Contents
4000	Retail kit; 8 1/2 Ft. band, 3 adj. fasteners, 1 band splice.
4001	Kit with 100 Ft. band, 25 adj. fasteners, 10 band splices.
4002	Kit with 50 Ft. band, 10 adj. fasteners, 5 band splices.
4004	Adj. fastener. <b>Priced per box.</b> Shipped 10 fasteners per box.
4005	Box with 100 Ft. band, 10 band splices.
4006	Box with 50 Ft. band, 5 band splices.
4007	6" demonstrator kit with clamps.
4008	<b>Priced per box.</b> Shipped 10 band splices per box.



## HTM Hi Torque Clamps

Withstands more than 4 times the SAE torque requirements for worm-driven clamps. 5/8" wide 302/304 half hard Stainless Steel band. Eight screw-threads are engaged in the band simultaneously for incredible torquing drive (**over 200 in. lbs.**), sealing pressure, and vibration resistance. 410 Stainless Steel screw.



### EXTENDED RANGE CLAMPS

#### Diameters

From:	To:	Part #
1 1/4"	2 5/8"	HP2
2 1/8"	4 1/8"	HP3
4"	6 1/8"	HP4
6 1/8"	9 1/8"	HP5

#### Diameters

From:	To:	Part #
1 1/4"	2 1/8"	HTM200
1 3/4"	2 5/8"	HTM250
2 1/4"	3 1/8"	HTM300
2 3/4"	3 5/8"	HTM350
3 1/4"	4 1/8"	HTM400
3 3/4"	4 5/8"	HTM450
4 1/4"	5 1/8"	HTM500
4 3/4"	5 5/8"	HTM550
5 1/4"	6 1/8"	HTM600
5 3/4"	6 5/8"	HTM650
6 1/4"	7 1/8"	HTM700
6 3/4"	7 5/8"	HTM750
7 1/4"	8 1/8"	HTM800
7 3/4"	8 5/8"	HTM850
8 1/4"	9 1/8"	HTM900

## Dixon Racks for Worm Gear Clamps

Top-load metal rack made of Nickel Plated Steel rods with enameled Steel sign for quick and easy clamp selection. Rack with clamps contain seven sizes of clamps with diameter ranges from 7/32" to 2-3/4". Sign identifies each clamp size and diameter range.



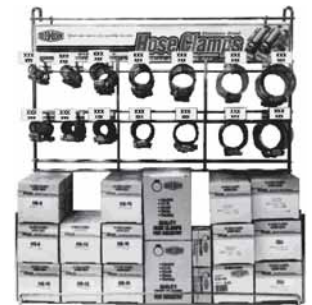
Qty. Ea.	Size
40	MH4
40	MH6
30	HS10
30	HS12
20	HS20
20	HS28
20	HS36

<b>CRWC</b>	With 200 Clamps
<b>CR</b>	Without Clamps

Front-load metal rack made of Stainless Steel rods. Rack with clamps contains 14 sizes of clamps with diameter ranges from 7/32" to 2-1/4".

Qty. Ea.	Size	Qty. Ea.	Size
60	MH4	30	HS24
20	MH6	10	HS28
50	HS8	40	ES12
50	HS10	40	ES16
50	HS12	30	ES20
50	HS16	30	ES24
30	HS20	10	ES28

<b>CRLWC</b>	With 500 Clamps
<b>CRL</b>	Without Clamps



Dixon Valve & Coupling  
800 High Street  
Chestertown, MD 21620  
Phone: 800-355-1991  
Fax: 800-283-4966  
www.dixonvalve.com





The Right Connection™

# WS Series Hydraulic Fittings

*Used in oil field applications and pile driving*



## High Pressure

### Specifications:

- Material: steel, 316 stainless steel
- Operating pressure: **5,000 PSI**
- Sleeve is cast using a unique process that provides better surface finishes, tighter tolerance control, and excellent repeatability.
- Heavy duty hammer lugs are designed to provide optimum durability during connection and disconnection.
- Seals are easily field replaceable, including the valve seal, which can be replaced without having to replace the entire valve.
- WS series couplings comply with applicable Det Norske Veritas North Sea standards for coupling applications.
- Unique 'Initial-Thread' profile will ensure nipple longevity in the toughest environments.



### Couplers

Body Size	NPTF Thread Size	Part #
3/4"	3/4" - 14	<b>6WSF6</b>
1"	1" - 11 1/2	<b>8WSF8</b>
1-1/4"	1-1/4" - 11 1/2	<b>10WSF10</b>
1-1/2"	1-1/2" - 11 1/2	<b>12WSF12</b>
2"	2" - 11 1/2	<b>16WSF16</b>



### Plugs

Body Size	NPTF Thread Size	Part #
3/4"	3/4" - 14	<b>WS6F6</b>
1"	1" - 11 1/2	<b>WS8F8</b>
1-1/4"	1-1/4" - 11 1/2	<b>WS10F10</b>
1-1/2"	1-1/2" - 11 1/2	<b>WS12F12</b>
2"	2" - 11 1/2	<b>WS16F16</b>

*Wrench flats (pictured), are not supplied on standard parts. Use '-WF' suffix with part number to order a wrench flat version.*

## Blowout Prevention Safety

### Specifications:

- Material: steel, 316 stainless steel
- Operating pressure: **5,000 PSI**
- Fire tested and Lloyd's certified to 700°C (1300°F) in accordance with API 16D (Certificate #NAO 0601041/1)
- Designed for hazardous area service where couplings are required to operate under fire conditions in an emergency.
- Sleeve is cast using a unique process that provides better surface finishes, tighter tolerance control, and excellent repeatability.
- Blowout Prevention Couplings are individually marked with the BOP series designation and manufacturing date code.



**Couplers**

Body Size	NPTF Thread Size	Part #
3/4"	3/4" - 14	<b>6WSF6-BOP</b>
1"	1" - 11 1/2	<b>8WSF8-BOP</b>
1-1/4"	1-1/4" - 11 1/2	<b>10WSF10-BOP</b>
1-1/2"	1-1/2" - 11 1/2	<b>12WSF12-BOP</b>
2"	2" - 11 1/2	<b>16WSF16-BOP</b>



**Plugs**

Body Size	NPTF Thread Size	Part #
3/4"	3/4" - 14	<b>WS6F6-BOP</b>
1"	1" - 11 1/2	<b>WS8F8-BOP</b>
1-1/4"	1-1/4" - 11 1/2	<b>WS10F10-BOP</b>
1-1/2"	1-1/2" - 11 1/2	<b>WS12F12-BOP</b>
2"	2" - 11 1/2	<b>WS16F16-BOP</b>

*Wrench flats (pictured), are not supplied on standard parts.  
Use '-WF' suffix with part number to order a wrench flat version.*

## Dust Plugs and Caps

### Specifications:

- Material: aluminum
- Supplied with stainless ball chain



**Plugs**

Body Size	Part #
3/4"	<b>6WSDP-A</b>
1"	<b>8WSDP-A</b>
1-1/4"	<b>10WSDP-A</b>
1-1/2"	<b>12WSDP-A</b>
2"	<b>16WSDP-A</b>



**Caps**

Body Size	Part #
3/4"	<b>WS6DC-A</b>
1"	<b>WS8DC-A</b>
1-1/4"	<b>WS10DC-A</b>
1-1/2"	<b>WS12DC-A</b>
2"	<b>WS16DC-A</b>

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Printed in the USA

877.963.4966  
Fax: 800.283.4966  
[www.dixonvalve.com](http://www.dixonvalve.com)