

In order to extend its range of services for the growing hydraulic applications market, RECTUS now has added the product line of the industry's leading coupling manufacturer: the hydraulic couplings of the famous Swedish brand TEMA. TEMA couplings are characterized by extremely low pressure drop and maximum hydraulic power transmission. Burst pressure is 4 times higher than the maximum specified working pressure (4:1 ratio). A perfect sealing system and an optional safety locking system guarantee maximum functionality and optimum protection.

With this sophisticated technology, coupling is no longer a problem even under static pressure. The Pressure Eliminator dissipates static pressure reliably and permits coupling by hand - even in low-leakage systems. Even at pressures of up to 2175 psi and a nominal diameter of 1 1/2".

The patented Pressure Eliminator

The TEMA pressure relief valve allows the reduction of static pressure in the line system. This means that pressure-free coupling is possible.

NEW!

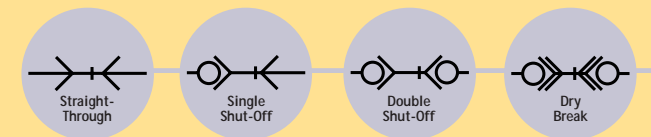
Applications:

- Forestry
- Building machinery
- Agricultural machinery
- Commercial vehicles
- Machinery construction
- Elevating mechanism
- Off-Shore
- Chemical technology
- Water-conditioning
- Materials-handling technology
- Refill systems
- Shipbuilding industry



TEMA[®]
A RECTUS COMPANY

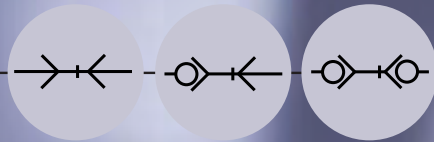
Hydraulic Couplings



DIN EN ISO 14001

T Series 2300

1/8"



Technical Description

The T2300 hydraulic coupling is characterized by a low pressure drop and minimum flow losses. The coupling system is available with double shut-off, straight-through or single shut-off. Available with BSP-P threads.

Advantages

Straight-through minimum pressure drop. High operating pressure with a 4:1 safety factor. Corrosion-resistant. Compact dimensions. Also available in stainless steel.

Applications

Chemical industries, Off-Shore, deep-sea technology, elevating mechanism, building machinery, materials-handling technology, industrial plant.

Nominal Plug Bore: .20"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril)
-32°F up to +95°F (Viton®)
depending on the medium.

Material	Standard Version	Stainless Steel
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Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Seals

Brass, Chromatized
Brass, Chromatized
Brass
AISI 301
AISI 420 C
Nitril

AISI 316
AISI 316
Brass
AISI 301
AISI 420 C
Viton®

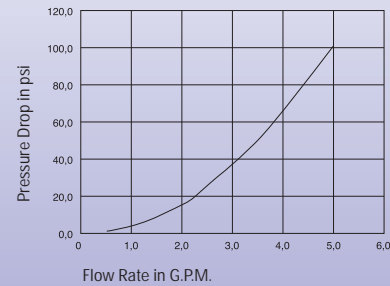
Plug

Plug Profile
Valve
Spring
Seal

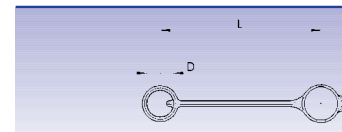
Steel Hardened, Zinc Chromated
Brass
AISI 301
Nitril

AISI 316
Brass
AISI 301
Viton®

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



Dust Protection

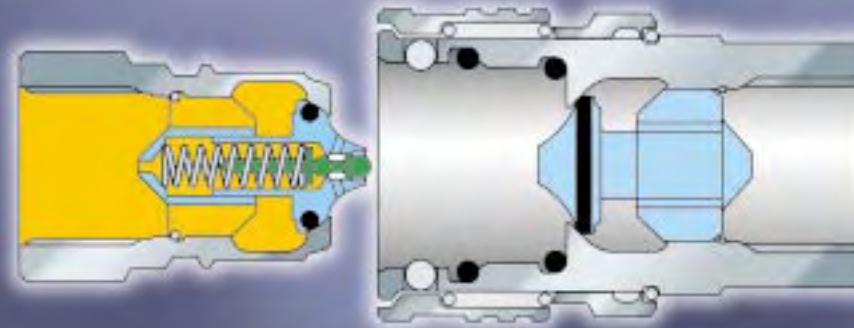


Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
for coupling		.39					PVC	T2315
for plug		.67					PVC	T125

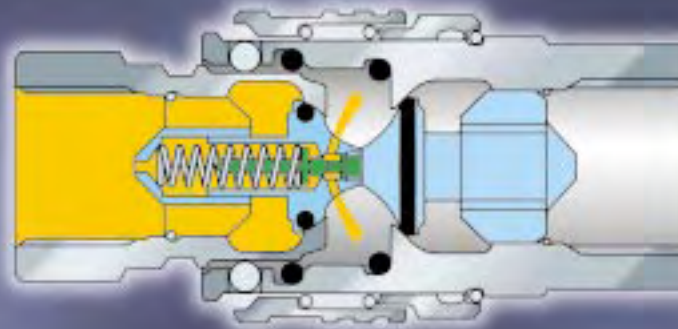
Seal

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
							Nitril	T11310 N
							Viton®	T11310 V

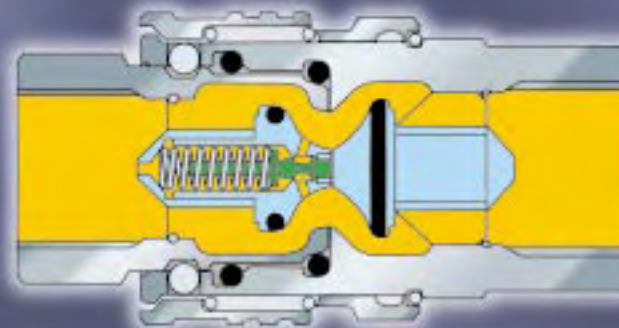
1) Valve made of brass



The pressure eliminator is a patented miniature relief valve, integrated in the valve cone of the body of the coupling.



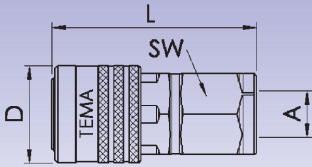
During reconnection, the pressure eliminator automatically reduces the excess pressure.



The oil flows into the unpressurized line, so that the coupling can be reconnected without undue effort.

Couplings

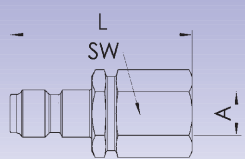
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/8" NPTF	.59	1.5	.71	with	Nitril	2900 psi	Steel / Brass	T2310 N
				with	Viton®	2900 psi	Steel / Brass	T2310 NV
1)				with	Viton®	2900 psi	Stainless Steel	T2310 NRFV
				without	Nitril	2900 psi	Steel / Brass	T2310 NUV
				without	Viton®	2900 psi	Steel / Brass	T2310 NVUV
				without	Viton®	2900 psi	Stainless Steel	T2310 NRUV



Female Thread

Plugs

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/8" NPTF	.59	1.42		without		2900 psi	Steel / Brass	T2320 NUV
				with	Nitril	2900 psi	Steel / Brass	T2320 N
				with	Viton®	2900 psi	Steel / Brass	T2320 NV
1)				with	Viton®	2900 psi	Stainless Steel	T2320 NRFV

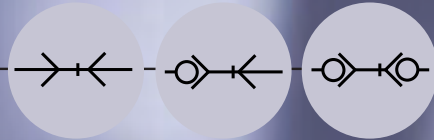


Female Thread

TEMA
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T Series 2500

1/4"



Technical Description

Thanks to the double O-ring seal, this coupling system can be used for pressures of up to 4527 psi. The coupling system is available with double shut-off, straight-through or with single shut-off. Also available in stainless steel. Available with BSP-P threads.

Advantages

Straight-through minimum pressure drop. Double safety through double O-ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion-resistant. Compact dimensions.

Applications

Chemical industries, Off-Shore, deep-sea technology, elevating mechanism, building machinery, materials-handling technology, industrial plant.

Nominal Plug Bore: .26"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril)
-32°F up to +95°F (Viton®) depending on the medium.

Material

Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Locking Sleeve
Seals

Standard Version

Brass, Chromatized
Brass, Chromatized
Brass
AISI 301
AISI 420 C
Brass
Nitril

Stainless Steel

AISI 316
AISI 316
AISI 316
AISI 301
AISI 420 C
AISI 316
Viton®

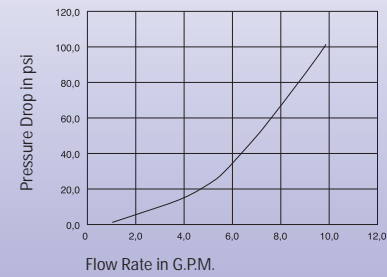
Plug

Plug Profile
Valve
Spring
Seal

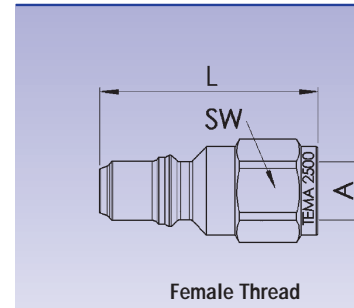
Steel Hardened, Zinc Plated
Brass
AISI 301
Nitril

AISI 316
AISI 316
AISI 301
Viton®

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986

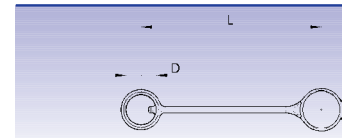


Plugs



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/4" NPTF	.75	1.77		without	-	7250 psi	Steel / Brass	T2520 NUV
4)				without	-	3625 psi	Stainless Steel	T2520 NRUV
3) 4)				without	-	3625 psi	Stainless Steel	T2520 NRFUV
hardened 3)				without	-	3625 psi	Stainless Steel	T2520 NRHUV
				with	Nitril	7250 psi	Steel / Brass	T2520 N
2) 4)				with	Nitril	3625 psi	Stainless Steel	T2520 NRF
				with	Viton®	7250 psi	Steel / Brass	T2520 NV
4)				with	Viton®	3625 psi	Stainless Steel	T2520 NRV
2) 4)				with	Viton®	3625 psi	Stainless Steel	T2520 NRFV
2) 3) 4)				with	Viton®	3625 psi	Stainless Steel	T2520 NRFV2

Dust Protection



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
for coupling		5.71	1.73				PVC	T2516
for plug		5.71	1.65				PVC	T2526

Seal



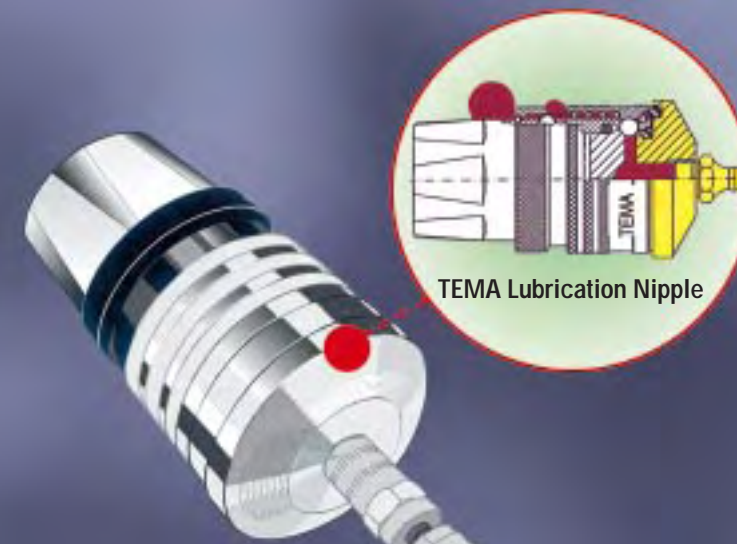
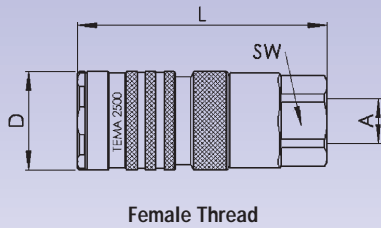
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
inner							Nitril	T2500-08
outer							Nitril	T2500-09
inner							Viton®	T2500-08 V
outer							Viton®	T2500-09 V
inner							Teflon	T2500-08 T
outer							Teflon	T2500-09 T
Seal-Set							Nitril	T2500-PSN
							Viton®	T2500-PSV

- 1) Valve with viton-seal
- 2) Valve made of brass
- 3) Suitable for high pressure water, AISI 303

- 4) Pulsating pressure must not exceeded 50% of indicated pressure
- 5) Diver coupling, up to 10 bar max.

Couplings

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/4" NPTF	.83	2.52	.98	without	Nitril	7250 psi	Steel / Brass	T2510 NUV
				without	Viton®	7250 psi	Steel / Brass	T2510 NVUV
4)				without	Viton®	3625 psi	Stainless Steel	T2510 NRUVV
				with	Nitril	7250 psi	Steel / Brass	T2510 N
5)				with	Nitril	7250 psi	Steel / Brass	T2510 NELRF
				with	Viton®	7250 psi	Steel / Brass	T2510 NV
1)				with	Teflon/Viton®	7250 psi	Steel / Brass	T2510 NTV
1)				with	Teflon	7250 psi	Steel / Brass	T2510 NT
4)				with	Viton®	3625 psi	Stainless Steel	T2510 NRV

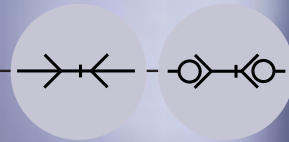


No trouble coupling in frosty and dirty conditions! The TEMA lubrication nipple puts an end to closing sleeves that seize up on you, thus ensuring maximum functionality, even under extreme conditions.

TEMA
A RECTUS COMPANY

T Series 3800

3/8"



actual size

Technical Description

Thanks to the double O-ring seal, this coupling system can be used for pressures of up to 5075 psi. The coupling system is available with double shut-off, straight-through or with single shut-off. Also available in stainless steel. Available with BSP-P threads.

Advantages

Straight-through minimum pressure drop. Double safety through double O-ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion-resistant. Compact dimensions.

Applications

Chemical industries, Off-Shore, deep-sea technology, elevating mechanism, building machinery, materials-

Nominal Plug Bore: .39"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril)
-32°F up to +95°F (Viton®)
depending on the medium.

Material

Standard Version

Stainless Steel

Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Seals
Valve Holder (up to 212°F)
Valve Holder (over 212°F)

Brass, Chromatized
Brass, Chromatized
Brass
AISI 301
AISI 420 C
Nitril
Zinc-alloy
Brass

AISI 316
AISI 316
AISI 316
AISI 301
AISI 420 C
Viton®
AISI 316
AISI 316

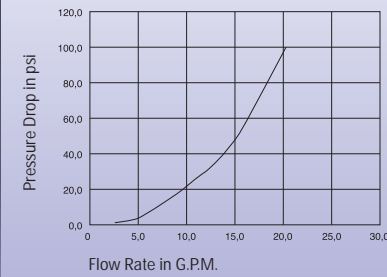
Plug

Plug Profile
Valve
Spring
Seal
Valve Holder (up to 212°F)
Valve Holder (over 212°F)

Steel Hardened, Zinc Plated
Brass
AISI 301
Nitril
Zinc-alloy
Brass

AISI 316
AISI 316
AISI 301
Viton®
AISI 316
AISI 316

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986

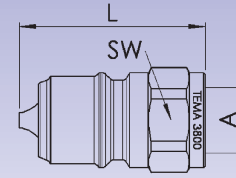


with Pressure Eliminator

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number	
see couplings	3/8" NPTF	.94	2.36	1.34	with	Nitril	5800 psi	Steel / Brass	T3811 N
		1.10	2.32	1.34	with	Viton®	5800 psi	Steel / Brass	T3811 NV
		.94	2.36	1.34	with	Viton®	4350 psi	Stainless Steel	T3811 NRV
	1)	.94	2.36	1.34	with	Viton®	4300 psi	Stainless Steel	T3811 NRFV

Plugs

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number	
see couplings	3/8" NPTF	.87	1.50		without	-	5800 psi	Steel / Brass	T3820 NUV
		.87	1.50		without	-	4350 psi	Stainless Steel	T3820 NRUV
	2)	.87	1.50		without	-	4350 psi	Stainless Steel	T3820 NRFUV
		.87	1.65		with	Nitril	5800 psi	Steel / Brass	T3820 N
	4)	.87	1.65		with	Nitril	725 psi	Steel / Brass	T3820 NMN
	1)	.87	1.65		with	Nitril	4350 psi	Stainless Steel	T3820 NRF
		.87	1.65		with	Viton®	5800 psi	Steel / Brass	T3820 NV
		.87	1.65		with	Viton®	4350 psi	Stainless Steel	T3820 NRV
	1)	.87	1.65		with	Viton®	4350 psi	Stainless Steel	T3820 NRFV



Female Thread

with Pressure Eliminator

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number	
see plugs	3/8" NPTF	.87	1.65		with	Nitril	5800 psi	Steel / Brass	T3821 N
		.87	1.65		with	Viton®	5800 psi	Steel / Brass	T3821 NV
		.87	1.65		with	Viton®	4350 psi	Stainless Steel	T3821 NRV
	1)	.87	1.65		with	Viton®	4350 psi	Stainless Steel	T3821 NRFV

Dust Protection

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
see plugs	for coupling		5.71	2.13			PVC	T3816
	for plug		5.71	1.81			PVC	T3826

Back-up Ring

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
							Delrin	T3800-07
							Teflon	T3800-07 T

Seal-Set

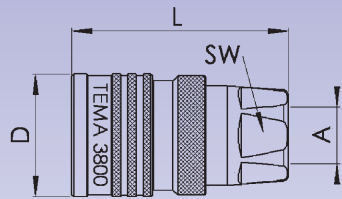
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
							Nitril	T3800-PSN
							Viton®	T3800-PSV

1) Valve made of brass
2) Suitable for high pressure water, AISI 303
3) Coupling body without shut-off valve and safety lock-ring
4) Plug made of brass

5) Set contains inner O-ring, outer O-ring and back-up
6) Set for T3810 and T3811
7) Set for T3810 V and T3811 V

Couplings

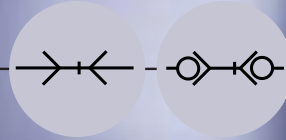
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
3/8" NPTF	1.10	2.32	1.34	without	Nitril	5800 psi	Steel / Brass	T3810 NUV
3)	1.14	1.57	1.34	without	Nitril	5800 psi	Steel / Brass	T3810 NH
	1.10	2.32	1.34	without	Viton®	5800 psi	Steel / Brass	T3810 NVUV
3)	1.14	1.57	1.34	without	Viton®	5800 psi	Steel / Brass	T3810 NHV
	.94	2.36	1.34	without	Viton®	4350 psi	Stainless Steel	T3810 NRUVV
	1.10	2.32	1.34	with	Nitril	5800 psi	Steel / Brass	T3810 N
	1.10	2.32	1.34	with	Viton®	5800 psi	Steel / Brass	T3810 NV
	.94	2.36	1.34	with	Viton®	4350 psi	Stainless Steel	T3810 NRV



Female Thread

T Series 5000

1/2"



80% of actual size

Technical Description

Thanks to the double O-ring seal, this coupling system can be used for high pressures of up to 4350 psi. The coupling system is available with double shut-off, straight-through or with single shut-off. Also available in stainless steel. Available with BSP-P threads.

Advantages

Straight-through minimum pressure drop. Double safety through double O-ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion-resistant. Compact dimensions.

Applications

Chemical industries, Off-Shore, deep-sea technology, elevating mechanism, building machinery, materials-handling technology, industrial plant.

Nominal Plug Bore: .51"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril)
-32°F up to +95°F (Viton®) depending on the medium.

Material

Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Seals
Valve Holder (up to 212°F)
Valve Holder (over 212°F)

Standard Version

Brass, Chromatized
Brass, Chromatized
Brass
AISI 301
AISI 420 C
Nitril
Zinc-alloy
Brass

Stainless Steel

AISI 316
AISI 316
AISI 316
AISI 301
AISI 420 C
Viton®
AISI 316
AISI 316

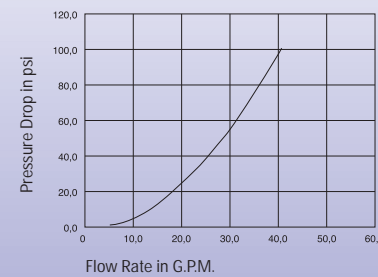
Plug

Plug Profile
Valve
Spring
Seal
Valve Holder (up to 212°F)
Valve Holder (over 212°F)

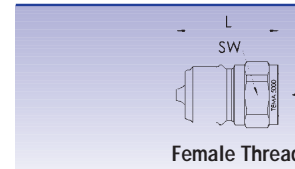
Steel Hardened, Zinc Plated
Brass
AISI 301
Nitril
Zinc-alloy
Brass

AISI 316
AISI 316
AISI 301
Viton®
AISI 316
AISI 316

Chart Pressure Drop
Viscosity for 32 cSt
as per ISO 7241/2-1986



Plugs



Female Thread

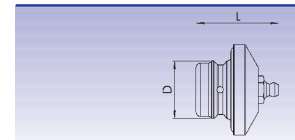
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/2" NPTF	1.06	1.65		without	–	5075 psi	Steel / Brass	T5020 NUV
		1.65		without	–	4350 psi	Stainless Steel	T5020 NRUV
	1.81			with	Nitril	5075 psi	Steel / Brass	T5020 N
				with	Viton®	5075 psi	Steel / Brass	T5020 NV
	1.81			with	Viton®	4350 psi	Stainless Steel	T5020 NRV

with Pressure Eliminator

see plugs

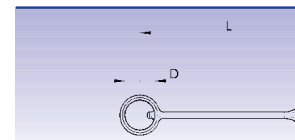
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/2" NPTF	1.06	1.81		with	Nitril	5075 psi	Steel / Brass	T5021 N
				with	Viton®	5075 psi	Steel / Brass	T5021 NV
	5)			with	Viton®	4350 psi	Stainless Steel	T5021 NRV
		1)			with	Viton®	4350 psi	Stainless Steel

Lubrication Nipple



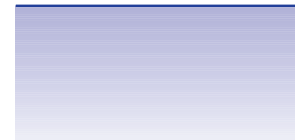
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
for coupling		1.61	.98					TGR5

Dust Protection



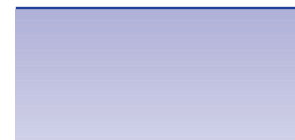
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
for coupling		6.69	2.36				PVC	T5016
for plug		6.69	2.05				PVC	T5026

Back-up Ring



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
							Delrin	T5000-07
							Teflon	T5000-07 T

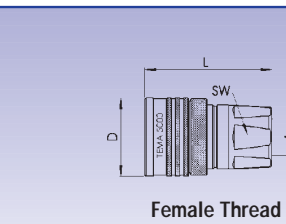
Seal-Set



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
2) 3)							Nitril	T5000-PSN
2) 4)							Viton®	T5000-PSV

- 1) Valve made of brass
- 2) Set contains inner O-ring, outer O-ring and back-up
- 3) Set for T5010 and T5011
- 4) Set for T5010 V and T5011 V
- 5) With pressure eliminator, valve made of stainless steel

Couplings



Female Thread

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/2" NPTF	1.18	2.65	1.57	without	Nitril	5075 psi	Steel / Brass	T5010 NUV
				without	Viton®	5075 psi	Steel / Brass	T5010 NVUV
				without	Viton®	4350 psi	Stainless Steel	T5010 NRVUV
				with	Nitril	5075 psi	Steel / Brass	T5010 N
				with	Viton®	5075 psi	Steel / Brass	T5010 NV
				with	Viton®	4350 psi	Stainless Steel	T5010 NRV

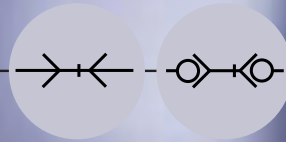
with Pressure Eliminator

see couplings

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number	
1/2" NPTF	1.18	2.65	1.57	with	Nitril	5075 psi	Steel / Brass	T5011 N	
				with	Viton®	5075 psi	Steel / Brass	T5011 NV	
				5)	with	Viton®	4350 psi	Stainless Steel	T5011 NRV
				1)	with	Viton®	4350 psi	Stainless Steel	T5011 NRFV

T Series 7500

3/4"



70% of actual size

Technical Description

Thanks to the double O-ring seal, this coupling system can be used for pressures of up to 4060 psi. The coupling system is available with double shut-off, straight-through or with single shut-off. Also available in stainless steel.

For very high loads we recommend the use of the "super nipple". Available with BSP-P threads.

Advantages

Straight-through minimum pressure drop. Double safety through double O-ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion-resistant. Compact dimensions.

Applications

Chemical industries, Off-Shore, deep-sea technology, elevating mechanism, building machinery, materials-handling technology, industrial plant.

Nominal Plug Bore: .79"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril)
-32°F up to +95°F (Viton®) depending on the medium.

Material

Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Seals
Valve Holder

Standard Version

Brass, Chromated
Steel Hardened, Zinc Plated
Brass
AISI 301
AISI 420 C
Nitril
Brass

Stainless Steel

AISI 316
AISI 316
AISI 316
AISI 301
AISI 420 C
Viton®
AISI 316

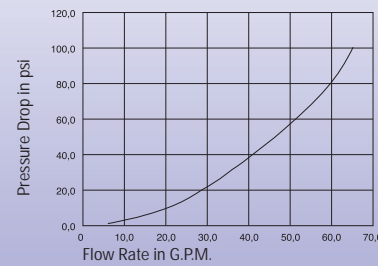
Plug

Plug Profile
Valve
Spring
Seal
Valve Holder

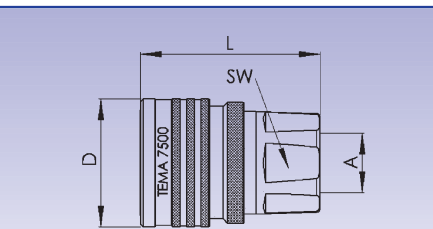
Steel Hardened, Zinc Plated
Brass
AISI 301
Nitril
Brass

AISI 316
AISI 316
AISI 301
Viton®
AISI 316

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



Couplings



Female Thread

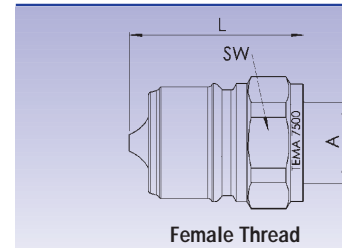
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
3/4" NPTF	1.50	2.87	2.05	without	Nitril	4640 psi	Steel / Brass	T7510 NUV
				without	Viton®	4640 psi	Steel / Brass	T7510 NVUV
				without	Viton®	3625 psi	Stainless Steel	T7510 NRUVV
				with	Nitril	4640 psi	Steel / Brass	T7510 N
				with	Viton®	4640 psi	Steel / Brass	T7510 NV
				with	Viton®	3625 psi	Stainless Steel	T7510 NRV

with Pressure Eliminator

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
3/4" NPTF	1.50	2.87	2.05	with	Nitril	4640 psi	Steel / Brass	T7511 N
				with	Viton®	4640 psi	Steel / Brass	T7511 NV
				with	Viton®	3625 psi	Stainless Steel	T7511 NRFV

see couplings

Plugs



Female Thread

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
3/4" NPTF	1.42	1.85		without	–	4640 psi	Steel / Brass	T7520 NUV
				without	–	3625 psi	Stainless Steel	T7520 NRUV
				with	Nitril	4640 psi	Steel / Brass	T7520 N
				with	Viton®	4640 psi	Steel / Brass	T7520 NV
				with	Viton®	3625 psi	Stainless Steel	T7520 NRV

with Pressure Eliminator

see plugs

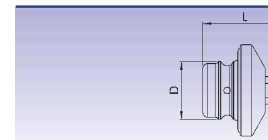
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
3/4" NPTF	1.42	2.05		with	Nitril	4640 psi	Steel / Brass	T7521 N
				with	Viton®	4640 psi	Steel / Brass	T7521 NV
				with	Viton®	3625 psi	Stainless Steel	T7521 NRFV

Super Nipple

see plugs

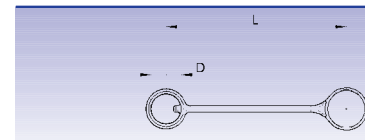
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
3/4" NPTF	1.42	1.85		without	–	4640 psi	Steel / Brass	T7520 NSUV
				with	Nitril	4640 psi	Steel / Brass	T7520 NS
				with	Nitril	3190 psi	Steel / Brass	T7521 NS

Lubrication Nipple



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
for coupling		1.73	1.30					TGR7

Dust Protection



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
for coupling		7.68	2.99				PVC	T7516
for plug		7.68	2.48				PVC	T7526

Back-up Ring



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
							Delrin	T7500-07
							Teflon	T7500-07 T

Seal-Set

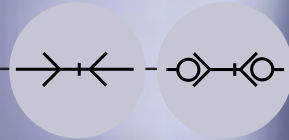


Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
							Nitril	T7500-PSN
							Viton®	T7500-PSV

- 1) Valve made of brass
- 2) Set contains inner O-ring, outer O-ring and back-up
- 3) Set for T7510 and T7511
- 4) Set for T7510 V and T7511 V

T Series 10000

1"



60% of actual size

Technical Description

Thanks to the double O-ring seal, this coupling system can be used for pressures of up to 3625 psi. The coupling system is available with double shut-off, straight-through or with single shut-off. Also available in stainless steel. Available with BSP-P threads.

Advantages

Straight-through minimum pressure drop. Double safety through double O-ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion-resistant. Compact dimensions.

Applications

Chemical industries, Off-Shore, deep-sea technology, elevating mechanism, building machinery, materials-handling technology, industrial plant.

Nominal Plug Bore: .98"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril)
-32°F up to +95°F (Viton®)
depending on the medium.

Material Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Seals
Valve Holder
Locking Sleeve

Standard Version

Brass, Chromatized
Steel Hardened, Zinc Plated
Brass
AISI 301
AISI 420 C
Nitril
Brass
Brass

Stainless Steel

AISI 316
AISI 316
AISI 316
AISI 301
AISI 420 C
Viton®
AISI 316
AISI 316

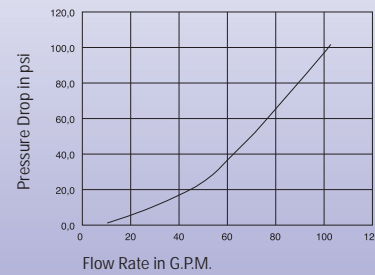
Plug

Plug Profile
Valve
Spring
Seal
Valve Holder

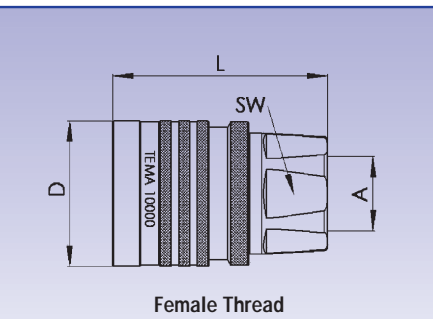
Steel Hardened, Zinc Plated
Brass
AISI 301
Nitril
Brass

AISI 316
AISI 316
AISI 301
Viton®
AISI 316

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



Couplings



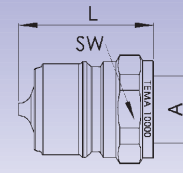
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1" NPTF	1.77	3.46	2.44	without	Nitril	4350 psi	Steel / Brass	T10010 UV
				without	Viton®	4350 psi	Steel / Brass	T10010 VUV
				without	Viton®	3625 psi	Stainless Steel	T10010 RVUV
				with	Nitril	4350 psi	Steel / Brass	T10010
				with	Viton®	4350 psi	Steel / Brass	T10010 V
				with	Viton®	3625 psi	Stainless Steel	T10010 RV

with Pressure Eliminator



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1" NPTF	1.77	3.46	2.44	with	Nitril	4350 psi	Steel / Brass	T10011
				with	Viton®	4350 psi	Steel / Brass	T10011 V
				with	Viton®	3625 psi	Stainless Steel	T10011 RFV

Plugs



Female Thread

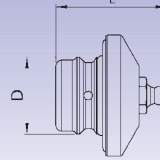
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1" NPTF	1.81	2.17		without	–	4350 psi	Steel / Brass	T10020 UV
				without	–	3625 psi	Stainless Steel	T10020 RUV
				with	Nitril	4350 psi	Steel / Brass	T10020
				with	Viton®	4350 psi	Steel / Brass	T10020 V
				with	Viton®	3625 psi	Stainless Steel	T10020 RV

with Pressure Eliminator

see plugs

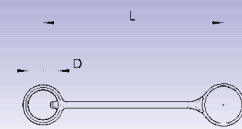
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1" NPTF	1.81	2.36		with	Nitril	4350 psi	Steel / Brass	T10021
				with	Viton®	4350 psi	Steel / Brass	T10021 V
				with	Viton®	3625 psi	Stainless Steel	T10021 RFV

Lubrication Nipple



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
for coupling		1.81	1.61					TGR10

Dust Protection



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
for coupling		9.06	3.54				PVC	T10016
for plug		9.06	2.99				PVC	T10026

Back-up Ring



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
							Delrin	T10000-07
							Teflon	T10000-07 T

Seal-Set

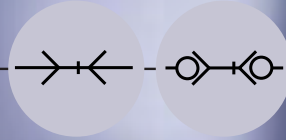


Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
2) 3)							Nitril	T10000-PSN
2) 4)							Viton®	T10000-PSV

1) Valve made of brass
2) Set contains inner O-ring, outer O-ring and back-up
3) Set for T10010 and T10011
4) Set for T10010 V and T10011 V

T Series 15000

1 1/2"



Technical Description

Thanks to the double O-ring seal, this coupling system can be used for pressures of up to 2900 psi. The coupling system is available with double shut-off, straight-through or with single shut-off. Also available in stainless steel. Available with BSP-P and UNF threads. Only use couplings with pressure eliminator in combination with plugs with eliminator.

Advantages

Straight-through minimum pressure drop. Double safety through double O-ring seal. A safety closing ring prevents unintentional uncoupling. Corrosion-resistant. Compact dimensions.

Applications

Chemical industries, Off-Shore, deep-sea technology, elevating mechanism, building machinery, materials-handling technology, industrial plant.

Nominal Plug Bore: 1.38"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril)
-32°F up to +95°F (Viton®)
depending on the medium.

Material

Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Seals
Valve Holder

Standard Version

Steel, Zinc Plated
Steel Hardened, Zinc Plated
Brass
AISI 301
AISI 420 C
Nitril
AISI 316

Stainless Steel

AISI 316
AISI 316
AISI 316
AISI 301
AISI 420 C
Viton®
AISI 316

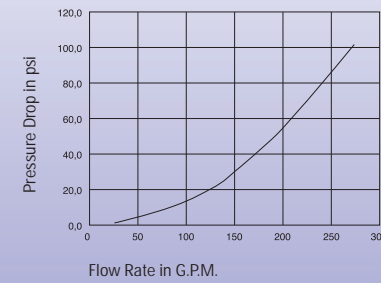
Plug

Plug Profile
Valve
Spring
Seal
Valve Holder

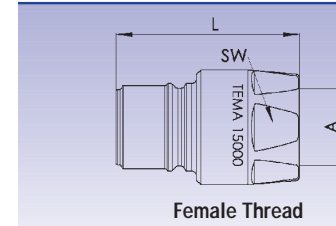
Steel Hardened, Zinc Plated
Brass
AISI 301
Nitril
AISI 316

AISI 316
AISI 316
AISI 301
Viton®
AISI 316

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



Plugs



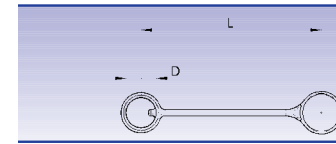
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1 1/2" NPTF	2.36	4.21		without	-	3625 psi	Steel / Brass	T15020 NUV
				without	-	3625 psi	Stainless Steel	T15020 NRUUV
				with	Nitril	3625 psi	Steel / Brass	T15020 N
				with	Viton®	3625 psi	Steel / Brass	T15020 NV
				with	Viton®	3625 psi	Stainless Steel	T15020 NRV

with Pressure Eliminator

see plugs

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1 1/2" NPTF	2.36	4.21		with	Nitril	3625 psi	Steel / Brass	T15021 N

Dust Protection



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
for coupling			.98				Acetal (POM)	T5016
for plug			1.97				Acetal (POM)	T5026

Back-up Ring



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
							Delrin	T15000-07
							Teflon	T15000-07 T

Seal-Set

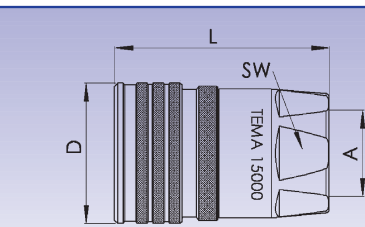


Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
1) 2)							Nitril	T15000-PSN
1) 3)							Viton®	T15000-PSV

1) Set contains inner O-ring, outer O-ring and back up
2) Set for T15010 and T15011

3) Set for T15010 V

Couplings



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1 1/2" NPTF	2.36	4.41	2.87	without	Nitril	3625 psi	Steel / Brass	T15010 NUV
				without	Viton®	3625 psi	Steel / Brass	T15010 NVUV
				without	Viton®	3625 psi	Stainless Steel	T15010 NRVUV
				with	Nitril	3625 psi	Steel / Brass	T15010 N
				with	Viton®	3625 psi	Steel / Brass	T15010 NV
				with	Viton®	3625 psi	Stainless Steel	T15010 NRV

with Pressure Eliminator

see couplings

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1 1/2" NPTF	2.36	4.41	2.87	with	Nitril	3625 psi	Steel / Brass	T15011 N

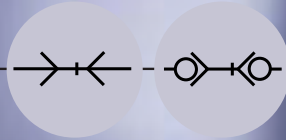


TDG Swivel Joint. The ideal system solution for rotating connections and slow rotating movements!

see page 228.

T Series 20000

2"



40% of actual size

Technical Description

Thanks to the double O-ring seal, this coupling system can be used for pressures of up to 2610 psi. The coupling system is available with double shut-off, straight-through or with single shut-off. Also available in stainless steel. Available with BSP-P and UNF threads.

Advantages

Straight-through minimum pressure drop. Double safety through double O-ring seal. A safety closing ring prevents unintentional uncoupling.

Applications

Chemical industries, Off-Shore, deep-sea technology, elevating mechanism, building machinery, materials-handling technology, industrial plant.

Nominal Plug Bore: 1.77"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

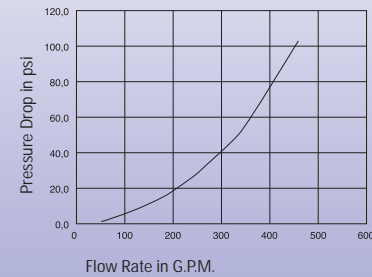
Working Temperature

-40°F up to +38°F (Nitril)
-32°F up to +95°F (Viton®)
depending on the medium.

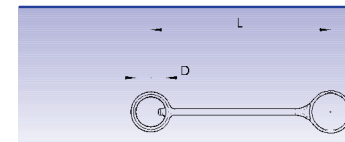
Material	Standard Version	Stainless Steel
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Coupling		
Body	Steel, Zinc Plated	AISI 316
Sleeve	Steel Hardened, Zinc Plated	AISI 316
Valve	Brass	AISI 316
Springs	AISI 301	AISI 301
Locking Balls	AISI 420 C	AISI 420 C
Seals	Nitril	Viton®
Valve Holder	AISI 316	AISI 316
Plug		
Plug Profile	Steel Hardened, Zinc Plated	AISI 316
Valve	Brass	AISI 316
Spring	AISI 301	AISI 301
Seal	Nitril	Viton®
Valve Holder	AISI 316	AISI 316

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



Dust Protection



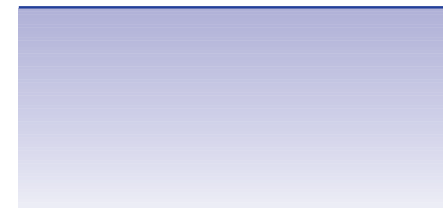
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
for coupling			1.06				Acetal (POM)	T20015
for plug			2.64				Acetal (POM)	T20025

Back-up Ring



Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
							Delrin	T20000-07

Seal



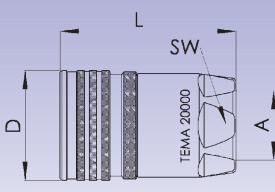
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
					inner		Nitril	T20000-08
					outer		Nitril	T20000-09
					inner		Viton®	T20000-08 V
					outer		Viton®	T20000-09 V
					Seal-Set		Nitril	T20000-PSN
							Viton®	T20000-PSV

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Use the Internet to find all about exhibition dates, new products and many interesting subjects related to hydraulic couplings. Our site is worth a visit!

Couplings

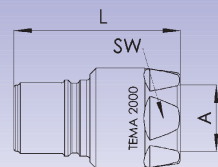
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
2" NPTF	2.94	5.67	3.54	without	Nitril	2900 psi	Steel / Brass	T20010 NUV
				without	Viton®	2900 psi	Steel / Brass	T20010 NVUV
				without	Viton®	1740 psi	Stainless Steel	T20010 NRUV
				with	Nitril	2900 psi	Steel / Brass	T20010 N
				with	Viton®	2900 psi	Steel / Brass	T20010 NV
				with	Viton®	1740 psi	Stainless Steel	T20010 NRV



Female Thread

Plugs

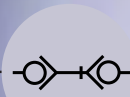
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
2" NPTF	2.94	5.59		without	-	2900 psi	Steel / Brass	T20020 NUV
				without	-	1740 psi	Stainless Steel	T20020 NRUV
				with	Nitril	2900 psi	Steel / Brass	T20020 N
				with	Viton®	2900 psi	Steel / Brass	T20020 NV
				with	Viton®	1740 psi	Stainless Steel	T20020 NRV



Female Thread

IA Series 5500 1/2"

IA Series 10000 1"



Technical Description

The IA 5500 series and the IA 10000 series have been manufactured according to the regulations and dimensions of the standard specification ISO-7241-1 A series and SMS 3275 for agricultural machinery. The parts of these series are interchangeable with all couplings and plugs on the market that have been produced in accordance with this standard specification. With the patented Pressure Eliminator, it is possible to establish connections with

built-up back pressure (up to 2900 psi). The Pressure Eliminator is available in the body of the coupling and in the plug. It is used wherever there is a risk of back pressure building up after the line has been separated. The Pressure Eliminator allows easy coupling even when pressure has been built up. For optimum functioning of the eliminator it is necessary that the counterpart should be unpressurized. 1/2" size available with BSP-P threads.

Advantages

The TIA 5500 series can be coupled with other makes complying with the same standard. This quick connect hydraulic coupling has a wide through-flow cross-section, yet it has a very small pressure drop. The valves of the coupling body and the plug are identical.

Applications

Agricultural machinery, building machinery, industrial plant.

Nominal Plug Bore

series 5500: .49"
series 10000: .79"

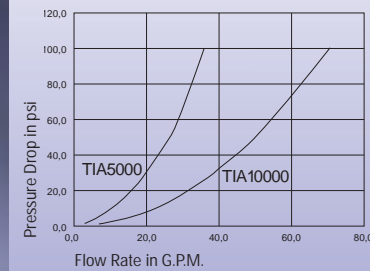
Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril)
-32°F up to +95°F (Viton®) depending on the medium.

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



Material

Standard Version

Coupling

Body
Sleeve
Seals
Back-up Ring
Valve
Locking Balls
Springs

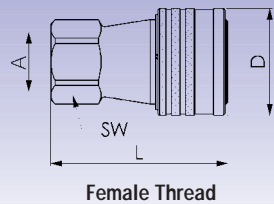
Brass, Chromatized
Brass, Nickel Plated
Nitril
PTFE (Teflon)
Brass, hard-drawn
Stainless Steel
Stainless Steel

Plug

Steel Hardened, Zinc Plated

Couplings

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/2" BSPP	1.06	2.48	1.50	with	Nitril	4350 psi	Brass	TIA5510 N
1/2" BSPP	1.06	2.48	1.50	with	Viton®	4350 psi	Brass	TIA5510 NV
1" NPTF	1.81	3.31	2.52			3625 psi	Brass	TIA10010 N
1" NPTF	1.81	3.31	2.52			3625 psi	Brass	TIA10010 NV



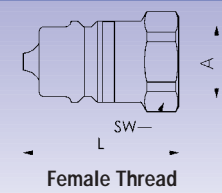
Female Thread

with Pressure Eliminator

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/2" BSPP	1.06	2.48	1.50	with	Nitril	4350 psi	Brass	TIA5511 N
see couplings								

Plugs

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/2" BSPP	1.06	2.01			Nitril	4350 psi	Brass	TIA5520 N
1/2" BSPP	1.06	2.01			Viton®	4350 psi	Brass	TIA5520 NV
1" NPTF	1.61	2.60				3625 psi	Brass	TIA10020 N
1" NPTF	1.61	2.60				3625 psi	Brass	TIA10020 NV



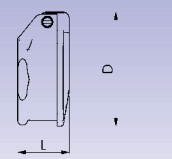
Female Thread

with Pressure Eliminator

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/2" BSPP	1.06	2.01			Nitril	4350 psi	Brass	TIA5521 N
1" NPTF	1.61	2.60				3625 psi	Brass	TIA10021 N
see plugs								

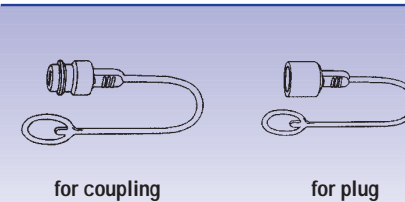
Plastic Protection

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
		0.94	2.28				PVC	TIA5540



Dust Protection

Part Number	
for IA5510 and IA5511 (coupling)	TIA5515
for IA5520 and IA5521 (plug)	TIA5525



for coupling

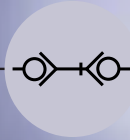
for plug

Seal-Set

Material	Part Number	
for series 5500	Nitril	TIA5500-PSN
	Viton®	TIA5500-PSV

IB Series 2500

1/4"



Technical Description

The IB series complies with the ISO standard 7241-1 Series B, and is compatible with other makes complying with the same standard. The body of the coupling is made of brass, the plug is made of hardened steel, yellow passivated and aquarez-treated, in order to achieve maximum protection against corrosion. Available with BSP-P and UNF threads.

No Lock Ring Option available for this size. "IB" has dust protection and Seal-Kits available.

Advantages

With the patented Pressure Eliminator, it is possible to establish a coupling under back pressure. Significantly longer service intervals through double O-ring seal and bearing ring.

Applications

Chemical industries, Off-Shore, food and beverage industries, automotive.

Nominal Plug Bore: .25"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril) depending on the medium.



Material

Standard Version

Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Seals
Valve Holder

Brass, Chromatized
Brass, Chromatized
Brass
AISI 301
AISI 420 C
Nitril
Brass

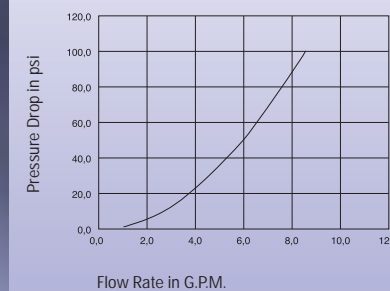
Plug

Plug Profile

Steel, Zinced and Yellow passivated, aquarez-treated
Brass
AISI 301
Nitril
Brass

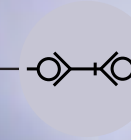
Valve
Spring
Seal
Valve Holder

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



IB Series 3800

3/8"



Technical Description

The IB series complies with the ISO standard 7241-1 Series B, and is compatible with other makes complying with the same standard. The body of the coupling is made of brass, the plug is made of hardened steel, yellow-galvanised and aquarez-treated, in order to achieve maximum protection against corrosion. Available with BSP-P and UNF threads.

No Lock Ring Option available for this size. "IB" has dust protection and Seal-Kits available.

Advantages

With the patented Pressure Eliminator, it is possible to establish a coupling under back pressure. Significantly longer service intervals through double O-ring seal and bearing ring.

Applications

Chemical industries, Off-Shore, food and beverage industries, automotive.

Nominal Plug Bore: .39"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril) depending on the medium.



Material

Standard Version

Coupling

Body
Sleeve

Valve
Springs
Locking Balls
Seals
Valve Holder

Brass, Chromatized
Steel, Zinced and Yellow passivated, aquarez-treated
Brass
AISI 301
AISI 420C
Nitril
Zinc-alloy

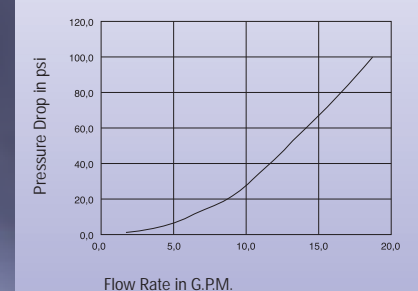
Plug

Plug Profile

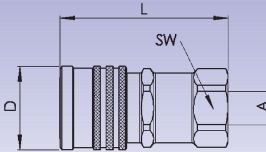
Steel, Zinced and Yellow passivated, aquarez-treated
Brass
AISI 301
Nitril
Zinc-alloy

Valve
Spring
Seal
Valve Holder

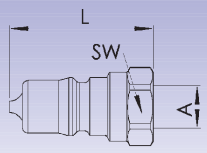
Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



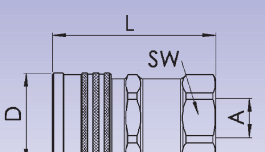
Couplings

	Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
	1/4" NPTF	0.94	2.24	1.10	Nitril	5800 psi	TIB2510 N
with Pressure Eliminator	1/4" NPTF	0.94	2.24	1.10	Nitril	5800 psi	TIB2511 N

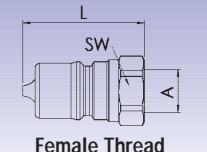
Plugs

	Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
	1/4" NPTF	0.75	1.38		Nitril	5800 psi	TIB2520 N
with Pressure Eliminator	1/4" NPTF	0.75	1.38		Nitril	5800 psi	TIB2521 N

Couplings

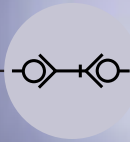
	Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
	3/8" NPTF	1.18	2.48	1.34	Nitril	4640 psi	TIB3810 N
with Pressure Eliminator	3/8" NPTF	1.18	2.48	1.34	Nitril	4640 psi	TIB3811 N

Plugs

	Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
	3/8" NPTF	0.87	1.50		Nitril	4640 psi	TIB3820 N
with Pressure Eliminator	3/8" NPTF	0.87	1.50		Nitril	4640 psi	TIB3821 N

IB Series 5000

1/2"



70% of actual size

Technical Description

The IB series complies with the ISO standard 7241-1 Series B, and is compatible with other makes complying with the same standard. The body of the coupling is made of brass, the plug is made of hardened steel, yellow passivated and aquarez-treated, in order to achieve maximum protection against corrosion. Available with BSP-P and UNF threads.

Lock Ring Option is available.

Advantages

With the patented Pressure Eliminator, it is possible to establish a coupling under back pressure. Significantly longer service intervals through double O-ring seal and bearing ring.

Applications

Chemical industries, Off-Shore, food and beverage industries, automotive.

Nominal Plug Bore: .49"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril) depending on the medium.

Material

Standard Version

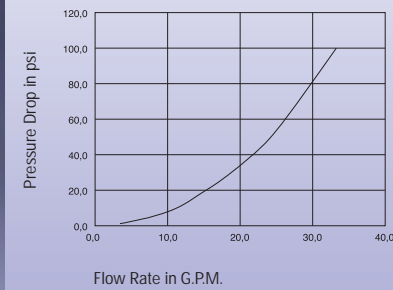
Coupling

Body: Brass, Chromatized
Sleeve: Steel, Zinced and Yellow passivated, aquarez-treated
Valve: Brass
Springs: AISI 301
Locking Balls: AISI 420 C
Seals: Nitril
Valve Holder: Zinc-alloy

Plug

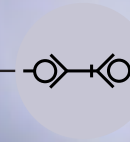
Plug Profile: Steel, Zinced and Yellow passivated, aquarez-treated
Valve: Brass
Spring: AISI 301
Seal: Nitril
Valve Holder: Zinc-alloy

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



IB Series 7500

3/4"



50% of actual size

Technical Description

The IB series complies with the ISO standard 7241-1 Series B, and is compatible with other makes complying with the same standard. The body of the coupling is made of steel, the plug is made of hardened steel, yellow passivated and aquarez-treated, in order to achieve maximum protection against corrosion. Available with BSP-P and UNF threads.

Lock Ring Option is available.

Advantages

With the patented Pressure Eliminator, it is possible to establish a coupling under back pressure. Significantly longer service intervals through double O-ring seal and bearing ring.

Applications

Chemical industries, Off-Shore, food and beverage industries, automotive.

Nominal Plug Bore: .79"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril) depending on the medium.

Material

Standard Version

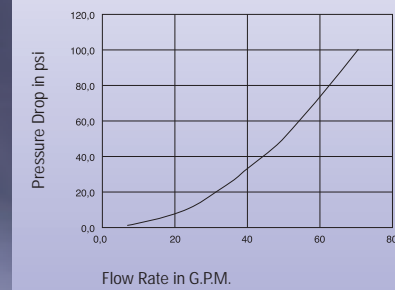
Coupling

Body: Steel, Zinc Plated
Sleeve: Steel, Zinced and Yellow passivated, aquarez-treated
Valve: Brass
Springs: AISI 301
Locking Balls: AISI 420 C
Seals: Nitril
Valve Holder: Brass

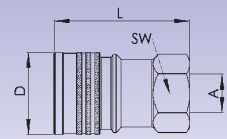
Plug

Plug Profile: Steel, Zinced and Yellow passivated, aquarez-treated
Valve: Brass
Spring: AISI 301
Seal: Nitril
Valve Holder: Brass

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



Couplings

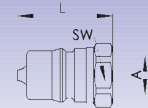


Female Thread

with Pressure Eliminator

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
1/2" NPTF	1.30	2.60	1.57	Nitril	4350 psi	TIB5010 N
1/2" NPTF	1.30	2.60	1.57	Nitril	4350 psi	TIB5011 N

Plugs

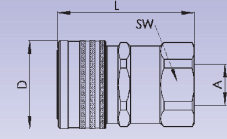


Female Thread

with Pressure Eliminator

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
1/2" NPTF	1.10	1.63		Nitril	4350 psi	TIB5020 N
1/2" NPTF	1.10	1.63		Nitril	4350 psi	TIB5021 N

Couplings

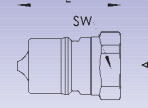


Female Thread

with Pressure Eliminator

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
3/4" NPTF	1.81	3.19	2.05	Nitril	4350 psi	TIB7510 N
3/4" NPTF	1.81	3.19	2.05	Nitril	4350 psi	TIB7511 N

Plugs



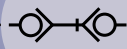
Female Thread

with Pressure Eliminator

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
3/4" NPTF	1.42	2.09		Nitril	4350 psi	TIB7520 N
3/4" NPTF	1.42	2.09		Nitril	4350 psi	TIB7521 N

IB Series 10000

1"



Technical Description

The IB series complies with the ISO standard 7241-1 Series B, and is compatible with other makes complying with the same standard. The body of the coupling is made of steel, the plug is made of hardened steel, yellow passivated and aquarez-treated, in order to achieve maximum protection against corrosion. Available with BSP-P and UNF threads.

Lock Ring Option and grease-nipples are available.

Advantages

With the patented Pressure Eliminator, it is possible to establish a coupling under back pressure. Significantly longer service intervals through double O-ring seal and bearing ring.

Applications

Chemical industries, Off-Shore, food and beverage industries, automotive.

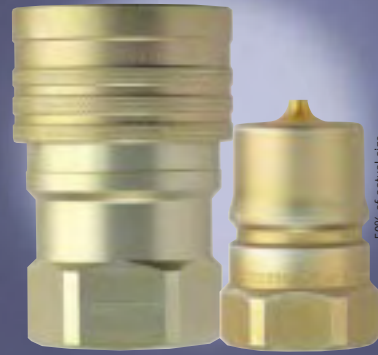
Nominal Plug Bore: .98"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril) depending on the medium.



50% of actual size

Material

Standard Version

Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Seals
Valve Holder

Steel, Zinc Plated
Steel, Zinc Plated, aquarez-treated
Brass
AISI 301
AISI 420 C
Nitril
Brass

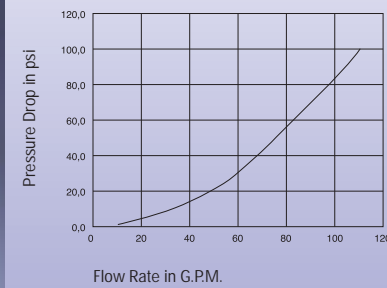
Plug

Plug Profile

Steel, Zinc and Yellow passivated, aquarez-treated
Brass
AISI 301
Nitril
Brass

Valve
Spring
Seal
Valve Holder

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



FF Series 5000

1/2"



Technical Description

The FF 5000 coupling system has double shut-off, dry break and single-handed operation. During uncoupling there is no oil loss, and during coupling there is no formation of air bubbles that could enter the system. Available with BSP-P and UNF threads.

Advantages

Dry break quick connect coupling. Straight-through minimum pressure drop. Single-handed operation. No oil loss during uncoupling. A safety closing ring prevents unintentional uncoupling. Also available with Pressure Eliminator, i.e. coupling is possible up to a back pressure of 2900 psi.

Applications

For the use under extreme conditions in the chemical industries, building machinery and in all industry fields.

Nominal Plug Bore: .51"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril) -32°F up to +95°F (Viton®) depending on the medium.



70% of actual size

Material

Standard Version

Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Seals
Valve Holder

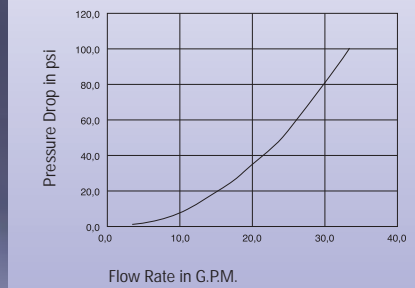
Steel, Zinc and Yellow passivated
Steel Hardened, Zinc Plated
Steel
AISI 301
AISI 420 C
Nitril
Steel, Zinc Plated

Plug

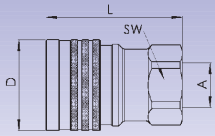
Plug Profile
Valve (without Eliminator)
Valve (with Eliminator)
Spring
Seal
Valve Holder

Steel Hardened, Zinc Plated
Steel
Brass
AISI 301
Nitril
Brass

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



Couplings

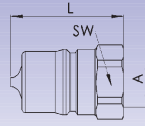


Female Thread

with Pressure Eliminator

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
1" NPTF	1.97	3.70	2.44	Nitril	4350 psi	TIB10010 N
1" NPTF	1.97	3.70	2.44	Nitril	4350 psi	TIB10011 N

Plugs

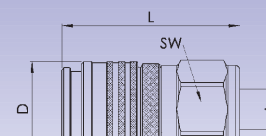


Female Thread

with Pressure Eliminator

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
1" NPTF	1.65	2.48		Nitril	4350 psi	TIB10020 N
1" NPTF	1.65	2.48		Nitril	4350 psi	TIB10021 N

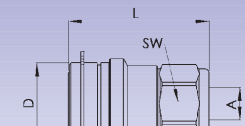
Couplings



Female Thread

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/2" NPTF	1.57	3.21	1.73	with	Nitril	5800 psi	Steel / Brass	TFF5010 N
1/2" NPTF	1.57	3.21	1.73	with	Viton®	5800 psi	Steel / Brass	TFF5010 NV
3/4" NPTF	1.42	3.35	1.73	with	Nitril	5800 psi	Steel / Brass	TFF5010-75 N
3/4" NPTF	1.42	3.35	1.73	with	Viton®	5800 psi	Steel / Brass	TFF5010-75 NV

Couplings for Multiplate

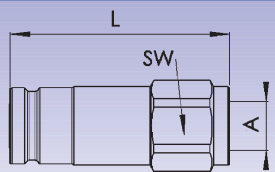


Female Thread

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/2" NPTF	1.57	3.21	1.85	without	Nitril	5800 psi	Steel / Brass	TFF5010 NE

Plugs

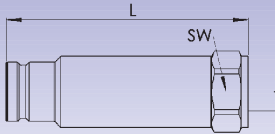
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/2" NPTF	1.26	3.31		with	Nitril	5800 psi	Steel / Brass	TFF5020 N
1/2" NPTF	1.26	3.31		with	Viton®	5800 psi	Steel / Brass	TFF5020 NV
3/4" NPTF	2.20	3.54		with	Nitril	5800 psi	Steel / Brass	TFF5020-75 N
3/4" NPTF	2.20	3.54		with	Viton®	5800 psi	Steel / Brass	TFF5020-75 NV



Female Thread

with Pressure Eliminator

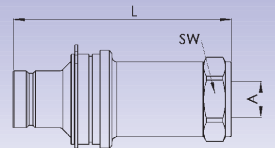
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/2" NPTF	1.42	4.72		with	Nitril	5800 psi	Steel / Brass	TFF5021 N
1/2" NPTF	1.42	4.72		with	Viton®	5800 psi	Steel / Brass	TFF5021 NV



Female Thread

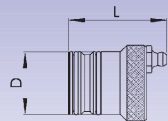
Plug for Multiplate

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1/2" NPTF	1.42		4.72	with	Nitril	5800 psi	Steel / Brass	TFF5021 NE



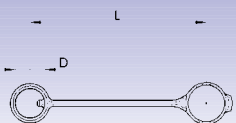
Lubrication Nipple

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
for coupling		1.89	1.14					TGRF5



Dust Protection

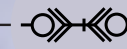
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
for coupling							Acetal (POM)	T5016
for plug							Acetal (POM)	T5026



1) Set contains O-ring and back-up suitable for TFF5020 and TFF5021
2) Set contains O-ring and back-up suitable for TFF5020 V and TFF5021 V

FF Series 7500

3/4"



Technical Description

The FF 7500 coupling system has double shut-off, dry break and single-handed operation. During uncoupling there is no oil loss, and during coupling there is no formation of air bubbles that could enter the system. Available with UNF threads. Not available in NPT.

Advantages

Dry break quick connect coupling. Straight-through minimum pressure drop. Single-handed operation. No oil loss during uncoupling. A safety closing ring prevents unintentional uncoupling. Also available with Pressure Eliminator.

Applications

For the use under extreme conditions in the chemical industries, building machinery and in all industry fields.

Nominal Plug Bore: .75"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril)
-32°F up to +95°F (Viton®) depending on the medium.

Material

Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Seals
Valve Holder

Plug

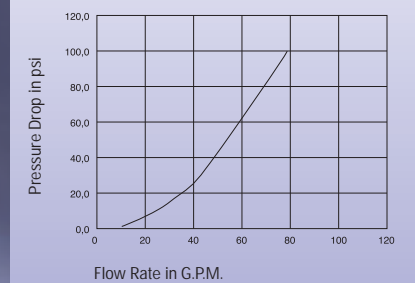
Plug Profile
Valve (without Eliminator)
Valve (with Eliminator)
Spring
Seal
Valve Holder

Standard Version

Steel, Zinc and Yellow passivated
Steel Hardened, Zinc Plated
Steel
AISI 301
AISI 420 C
Nitril
Steel, Zinc Plated

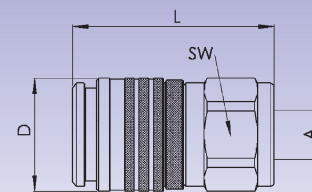
Steel Hardened, Zinc Plated
Steel
Brass
AISI 301
Nitril
Brass

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



Couplings

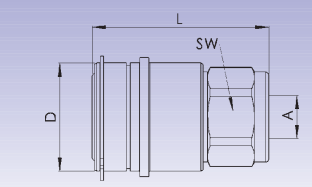
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
3/4" BSPP	1.61	3.86	2.17	with	Nitril	5800 psi	Steel / Brass	TFF7510 N
				with	Viton®	5800 psi	Steel / Brass	TFF7510 NV



Female Thread

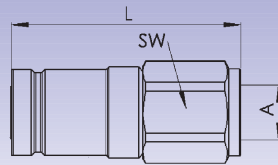
Couplings for Multiplate

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
3/4" BSPP	1.97	3.86	2.36	with	Nitril	5800 psi	Steel / Brass	TFF7510 NE



Plugs

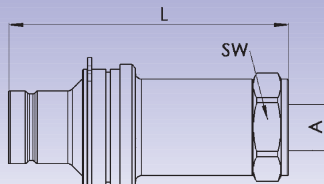
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
3/4" NPTF	1.61	3.98		with	Nitril	5800 psi	Steel / Brass	TFF7520 N
				with	Viton®	5800 psi	Steel / Brass	TFF7520 NV



Female Thread

with Pressure Eliminator

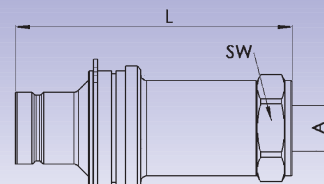
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
3/4" NPTF	1.97	5.79		with	Nitril	5800 psi	Steel / Brass	TFF7521 N



Female Thread

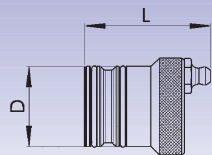
Plugs for Multiplate

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
3/4" NPTF	1.97	5.79		with	Nitril	5800 psi	Steel / Brass	TFF7521 NE



Lubrication Nipple

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
for coupling		2.05	1.50					TGRF7



Dust Protection

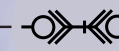
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Material	Part Number
for coupling							Acetal (POM)	TF2516
for plug							Acetal (POM)	TF2526



- 1) Set contains O-ring and back-up suitable for TFF7520 and TFF7521
 2) Set contains O-ring and back-up suitable for TFF7520 V

FF Series 10000

1"



40% of actual size

Technical Description

The FF 10000 coupling system has double shut-off, dry break and single-handed operation. During uncoupling there is no oil loss, and during coupling there is no formation of air bubbles that could enter the system. Available with UNF threads. Not available in NPT.

Advantages

Dry break quick connect coupling. Straight-through minimum pressure drop. Single-handed operation. No oil loss during uncoupling. A safety closing ring prevents unintentional uncoupling. Also available with Pressure Eliminator.

Applications

For the use under extreme conditions in the chemical industries, building machinery, machinery construction and in all industry fields.

Nominal Plug Bore: 1"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril)
 -32°F up to +95°F (Viton®) depending on the medium.

Material

Coupling

Body
 Sleeve
 Valve
 Springs
 Locking Balls
 Seals
 Valve Holder

Plug

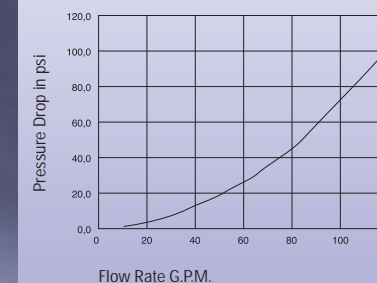
Plug Profile
 Valve (without Eliminator)
 Valve (with Eliminator)
 Spring
 Seal
 Valve Holder

Standard Version

Steel, Zincd and Yellow passivated
 Steel Hardened, Zinc Plated
 Steel
 AISI 301
 AISI 420 C
 Nitril
 Steel, Zinc Plated

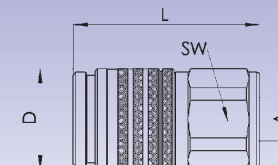
Steel Hardened, Zinc Plated
 Steel
 Brass
 AISI 301
 Nitril
 Brass

Chart Pressure Drop Viskosity for 32 cSt as per ISO 7241/2-1986



Couplings

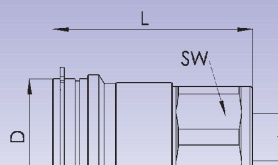
Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1" BSPP				with	Nitril	4350 psi	Steel / Brass	TFF10010 N
1" BSPP	2.65	4.72	2.76	with	Viton®	4350 psi	Steel / Brass	TFF10010 NV
1 1/4" BSPP				with	Nitril	4350 psi	Steel / Brass	TFF10010-125 N



Female Thread

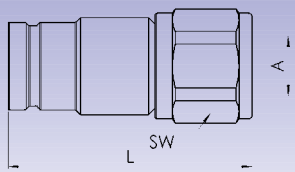
Couplings for Multiplate

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1" BSPP	2.65	5.08	2.95	with	Nitril	4350 psi	Steel / Brass	TFF10010 NE



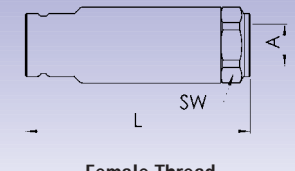
Plugs

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1" NPTF	2.17	5.12		with	Nitril	4350 psi	Steel / Brass	TFF10020 N
1" NPTF	2.17	5.12		with	Viton®	4350 psi	Steel / Brass	TFF10020 NV
1 1/4" NPTF	2.56	5.43		with	Nitril	4350 psi	Steel / Brass	TFF10020-125 N



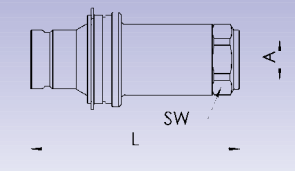
with Pressure Eliminator

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1" NPTF	2.17	7.01		with	Nitril	4350 psi	Steel / Brass	TFF10021 N



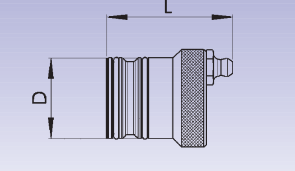
Plugs for Multiplate

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
1" NPTF	2.17	7.01		with	Nitril	4350 psi	Steel / Brass	TFF10021 NE



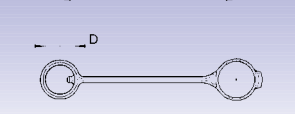
Lubrication Nipple

Connection A	Hex SW	L	D	Valve	Seal	Working Pressure connected	Version	Part Number
for coupling		2.05	1.97					TGRF10



Dust Protection

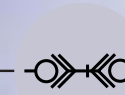
	Material	Part Number
for coupling	Acetal (POM)	TFF10016
for plug	Acetal (POM)	TFF10026



- 1) Set contains O-ring and back-up suitable for TFF10020 and TFF10021
 2) Set contains O-ring and back-up suitable for TFF10020 V

IF Series 2500

1/4"



Technical Description

The IF series is produced in accordance with the ISO standard 16028, and is compatible with other makes complying with the same standard. These couplings offer an absolutely dry break no oil loss during uncoupling. Thanks to the valve construction, the coupling has a minimum pressure drop, and thus achieves maximum cost-effectiveness. Available with BSP-P and UNF threads.

Advantages

The coupling can be operated with one hand and is equipped with a safety locking device to prevent unintentional uncoupling. With the patented Pressure Eliminator in the plug, it is possible to establish a coupling under back pressure.

Applications

Automotive, elevating mechanism, materials-handling technology, building machinery, agricultural machinery, chemical industries, industrial plant.

Nominal Plug Bore: .25"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril) depending on the medium.

Material

Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Seals
Valve Holder

Standard Version

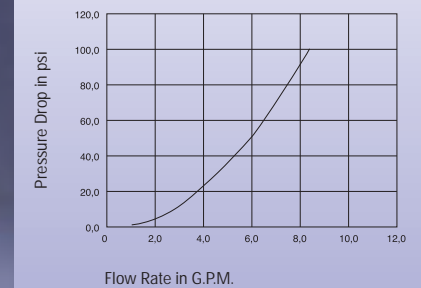
Steel, Zinc Plated, aquarez-treated
Steel, Zinc Plated, aquarez-treated
Brass, hard-drawn
AISI 301
AISI 420 C
Nitril
Zinc-alloy

Plug

Plug Profile
Valve
Spring
Seal
Valve Holder

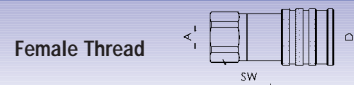
Steel Hardened
Brass, hard-drawn
AISI 316 Ti
Nitril
Brass

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



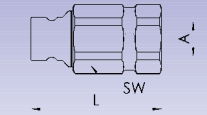
Couplings

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
1/4" NPTF	.94	2.52	1.14	Nitril	4570 psi	TIF2510 N



Plugs

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
1/4" NPTF	.94	2.44		Nitril	4570 psi	TIF2520 N
with Pressure Eliminator	.94	3.19		Nitril	4570 psi	TIF2521 N



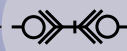
Dust Protection

	Material	Part Number
for coupling	PVC	TIF2516
for plug	PVC	TIF2526



IF Series 3800

3/8"



Technical Description
The IF series is produced in accordance with the ISO standard 16028, and is compatible with other makes complying with the same standard. These couplings offer an absolutely dry break no oil loss during uncoupling. Thanks to the valve construction, the coupling has a minimum pressure drop, and thus achieves maximum cost-effectiveness.

Available with BSP-P and UNF threads. "IF" has grease-nipples available.
Advantages
The coupling can be operated with one hand and is equipped with a safety locking device to prevent unintentional uncoupling. With the patented Pressure Eliminator in the plug, it is possible to establish a coupling under back pressure.

Applications
Automotive, elevating mechanism, materials-handling technology, building machinery, agricultural machinery, chemical industries, industrial plant, Handtools.

Nominal Plug Bore: .39"
Working Pressure
Maximum static working pressure with safety 4 to 1 – see below.

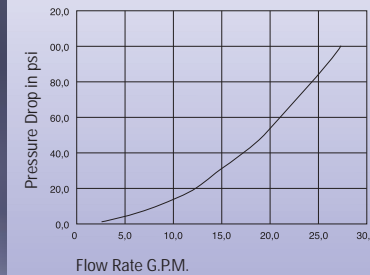
Working Temperature
-40°F up to +38°F (Nitril) depending on the medium.

Material	Standard Version
Coupling	
Body	Steel, Zinc Plated, aquarez-treated
Sleeve	Steel, Zinc Plated, aquarez-treated
Valve	Brass, hard-drawn
Spring	AISI 301
Locking Balls	AISI 420 C
Seals	Nitril
Valve Holder	Zinc-alloy
Plug	
Plug Profile	Steel Hardened
Valve	Brass, hard-drawn
Spring	Stainless Steel
Seal	Nitril
Valve Holder	Brass



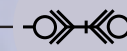
actual size

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



IF Series 5000

1/2"



Technical Description
The IF series is produced in accordance with the ISO standard 16028, and is compatible with other makes complying with the same standard. These couplings offer an absolutely dry break – no oil loss during uncoupling. Thanks to the valve construction, the coupling has a minimum pressure drop, and thus achieves maximum cost-effectiveness.

Available with BSP-P and UNF threads. "IF" has grease-nipples available.
Advantages
The coupling can be operated with one hand and is equipped with a safety locking device to prevent unintentional uncoupling. With the patented Pressure Eliminator in the plug, it is possible to establish a coupling under back pressure.

Applications
Automotive, elevating mechanism, materials-handling technology, building machinery, agricultural machinery, chemical industries, industrial plant. Skid-steer standard.

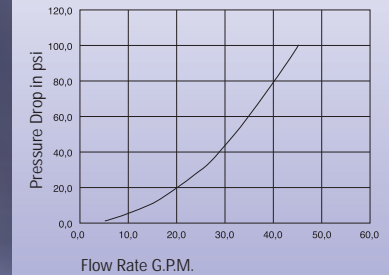
Nominal Plug Bore: .49"
Working Pressure
Maximum static working pressure with safety 4 to 1 – see below.

Material	Standard Version
Coupling	
Body	Steel, Zinc Plated, aquarez-treated
Sleeve	Steel, Zinc Plated, aquarez-treated
Valve	Brass, hard-drawn
Spring	AISI 301
Locking Balls	AISI 420 C
Seals	Nitril
Valve Holder	Zinc-alloy
Plug	
Plug Profile	Steel Hardened
Valve	Brass, hard-drawn
Spring	Stainless Steel
Seal	Nitril
Valve Holder	Brass



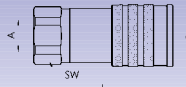
60% of actual size

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



Couplings

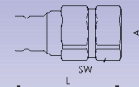
Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
3/8" NPTF	1.10	2.85	1.26	Nitril	3625 psi	TIF3810 N
	1.18	3.03	1.26	Nitril	3625 psi	TIF3810-50 N
3/8" NPTF	1.06	3.74	1.26	Nitril	3625 psi	TIF3811 N



Female Thread

Plugs

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
3/8" NPTF	1.10	2.52		Nitril	3625 psi	TIF3820 N
	1.10	2.64		Nitril	3625 psi	TIF3820-50 N
3/8" NPTF	1.06	3.39		Nitril	3625 psi	TIF3821 N
	1.06	3.54		Nitril	3625 psi	TIF3821-50 N



Female Thread

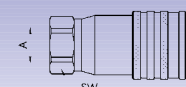
with Pressure Eliminator

Dust Protection

Material	Part Number
for coupling	PVC TIF3816
for plug	PVC TIF3826

Couplings

Connenction A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
1/2" NPTF	1.18	3.07	1.54	Nitril	3625 psi	TIF5010 N
	1.34	3.39	1.54	Nitril	3625 psi	TIF5010-75 N
1/2" NPTF	1.30	4.29	1.54	Nitril	3625 psi	TIF5011 N

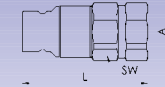


Female Thread

with Pressure Eliminator

Plug

Connenction A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
1/2" NPTF	1.26	2.99	1.54	Nitril	3625 psi	TIF5020 N
	1.34	3.19	1.54	Nitril	3625 psi	TIF5020-75 N
1/2" NPTF	1.42	3.70	1.54	Nitril	3625 psi	TIF5021 N
	1.42	3.78	1.54	Nitril	3625 psi	TIF5021-75 N



Female Thread

with Pressure Eliminator

Dust Protection

Material	Part Number
for coupling	PVC TIF5016
for plug	PVC TIF5026

IF Series 6300

5/8"



Technical Description
The IF series is produced in accordance with the ISO standard 16028, and is compatible with other makes complying with the same standard. These couplings offer an absolutely dry break – no oil loss during uncoupling. Thanks to the valve construction, the coupling has a minimum pressure drop, and thus achieves maximum cost-effectiveness.

Available with BSP-P and UNF threads.

Advantages
The coupling can be operated with one hand and is equipped with a safety locking device to prevent unintentional uncoupling. With the patented Pressure Eliminator in the plug, it is possible to establish a coupling under back pressure.

Applications
Automotive, elevating mechanism, materials-handling technology, building machinery, agricultural machinery, chemical industries, industrial plant.

Nominal Plug Bore: .63"

Working Pressure
Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature
-40°F up to +38°F (Nitril) depending on the medium.

Material

Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Seals
Valve Holder

Standard Version

Steel, Zinc Plated, aquarez-treated
Steel, Zinc Plated, aquarez-treated
Brass, hard-drawn
AISI 301
AISI 420 C
Nitril
Zinc-alloy

Plug

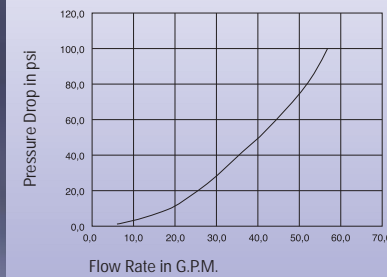
Plug Profile
Valve
Spring
Seal
Valve Holder

Steel Hardened
Brass, hard-drawn
Stainless Steel
Nitril
Brass



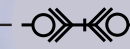
60% of actual size

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



IF Series 7500

3/4"



Technical Description
The IF series is produced in accordance with the ISO standard 16028, and is compatible with other makes complying with the same standard. These couplings offer an absolutely dry break – no oil loss during uncoupling. Thanks to the valve construction, the coupling has a minimum pressure drop, and thus achieves maximum cost-effectiveness.

Available with BSP-P and UNF threads.

Advantages
The coupling can be operated with one hand and is equipped with a safety locking device to prevent unintentional uncoupling. With the patented Pressure Eliminator in the plug, it is possible to establish a coupling under back pressure.

Applications
Automotive, elevating mechanism, materials-handling technology, building machinery, agricultural machinery, chemical industries, industrial plant.

Nominal Plug Bore: .75"

Working Pressure
Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature
-40°F up to +38°F (Nitril) depending on the medium.

Material

Coupling

Body
Sleeve
Valve
Spring
Locking Balls
Seals
Valve Holder

Standard Version

Steel, Zinc Plated, aquarez-treated
Steel, Zinc Plated, aquarez-treated
Brass, hard-drawn
AISI 301
AISI 420 C
Nitril
Zinc-alloy

Plug

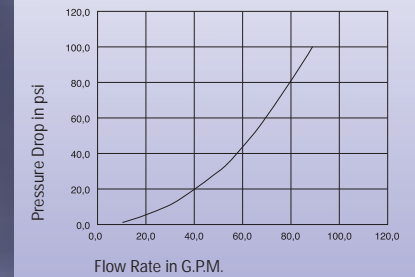
Plug Profile
Valve
Spring
Seal
Valve Holder

Steel Hardened
Brass, hard-drawn
Stainless Steel
Nitril
Brass

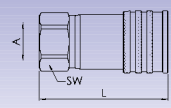


50% of actual size

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



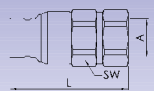
Couplings



Female Thread

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
3/4" NPTF	1.34	3.50	1.65	Nitril	3625 psi	TIF6310 N

Plug



Female Thread

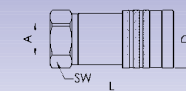
Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
3/4" NPTF	1.42	1.65		Nitril	3625 psi	TIF6320 N
with Pressure Eliminator	3/4" NPTF	1.42	1.65	Nitril	3625 psi	TIF6321 N

Dust Protection



	Material	Part Number
for coupling	PVC	TIF6316
for plug	PVC	TIF6326

Coupling



Female Thread

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
3/4" NPTF	1.61	3.90	1.81	Nitril	3625 psi	TIF7510 N
1" NPTF	1.61	4.06	1.81	Nitril	3625 psi	TIF7510-100 N

Plug



Female Thread

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number	
3/4" NPTF	1.42	3.35	1.81	Nitril	3625 psi	TIF7520 N	
1" NPTF	1.61	3.43	1.81	Nitril	3625 psi	TIF7520-100 N	
with Pressure Eliminator	3/4" NPTF	1.81	3.78	1.81	Nitril	3625 psi	TIF7521 N
1" NPTF	1.81	4.45	1.81	Nitril	3625 psi	TIF7521-100 N	

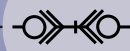
Dust Protection



	Material	Part Number
for coupling	PVC	TIF7516
for plug	PVC	TIF7526

IF Series 10000

1"



Technical Description

The IF series is produced in accordance with the ISO standard 16028, and is compatible with other makes complying with the same standard. These couplings offer an absolutely dry break – no oil loss during uncoupling. Thanks to the valve construction, the coupling has a minimum pressure drop, and thus achieves maximum cost-effectiveness.

Available with BSP-P and UNF threads.

Advantages

The coupling can be operated with one hand and is equipped with a safety locking device to prevent unintentional uncoupling. With the patented Pressure Eliminator in the plug, it is possible to establish a coupling under back pressure.

Applications

Automotive, elevating mechanism, materials-handling technology, building machinery, agricultural machinery, chemical industries, industrial plant.

Nominal Plug Bore: .98"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril) depending on the medium.



50% of actual size

Material

Coupling

Body
Sleeve
Valve
Springs
Locking Balls
Seals
Valve Holder

Plug

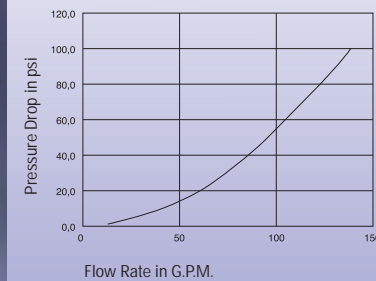
Plug Profile
Valve
Spring
Seals
Valve Holder

Standard Version

Steel, Zinc Plated, aquarez-treated
Steel, Zinc Plated, aquarez-treated
Brass, hard-drawn
AISI 301
AISI 420 C
Nitril
Zinc-alloy

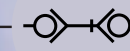
Steel Hardened
Brass, hard-drawn
Stainless Steel
Nitril
Brass

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



H Series 5000

1/2"



Technical Description

The H series is a further development of the standard hydraulic coupling, with some new materials to stand up to heavy conditions. The body of the coupling is made of steel so that the coupling functions reliably even when subject to substantial lateral forces. The safety closing ring is hardened and chromatised in black. The remaining parts are yellow passivated and aquarez-treated.

Available with BSP-P threads.

Advantages

With the patented Pressure Eliminator, it is possible to establish a coupling under back pressure. Significantly longer service intervals through internal O-ring with bearing ring.

Applications

Automotive, shipbuilding industry, building machinery.

Nominal Plug Bore: .51"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril) depending on the medium.



70% of actual size

Material

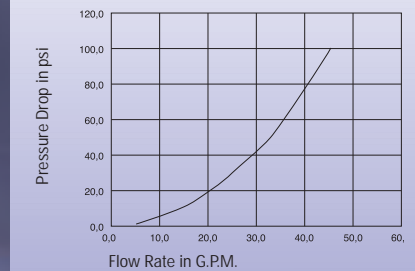
Coupling

Body
Sleeve
Valve
Spring
Locking Balls
Seals
Valve Holder

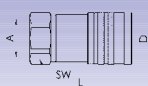
Standard Version

Steel, Zinc Plated, aquarez-treated
Steel, Zinc Plated, aquarez-treated
Brass, hard-drawn
AISI 301
AISI 420 C
Nitril
Brass, hard-drawn


Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



Couplings

	Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
 Female Thread	1 1/4" NPTF	1.97	4.25	2.17	Nitril	2900 psi	TIF10010-125 N

Plugs

	Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
 Female Thread	1 1/4" NPTF	1.97	3.58		Nitril	2900 psi	TIF10020-125 N

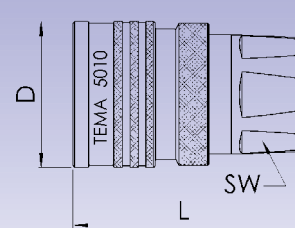
with Pressure Eliminator

	Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
	1 1/4" NPTF	1.97	5.04		Nitril	2900 psi	TIF10021-125 N

Dust Protection

	Material	Part Number
 for coupling	PVC	TIF10016
for plug	PVC	TIF10026

Coupling

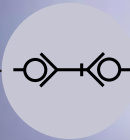
	Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
 Female Thread	1/2" NPTF	1.18	2.65	1.57	Nitril	4640 psi	TH5010 N

with Pressure Eliminator

	Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
see coupling	1/2" NPTF	1.18	2.65	1.57	Nitril	4640 psi	TH5011 N

H Series 7500

3/4"



60% of actual size

Technical Description

The H series is a further development of the standard hydraulic coupling, with some new materials to stand up to heavy conditions. The body of the coupling is made of steel so that the coupling functions reliably even when subject to substantial lateral forces. The safety closing ring is hardened and chromatised in black. The remaining parts are yellow passivated and aquarez-treated.

Available with BSP-P threads.

Advantages

With the patented Pressure Eliminator, it is possible to establish a coupling under back pressure. Significantly longer service intervals through internal O-ring with bearing ring.

Applications

Automotive, shipbuilding industry, building machinery.

Nominal Plug Bore: .79"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril) depending on the medium.

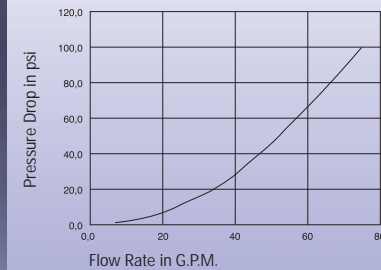
Material Coupling

Body
Sleeve
Valve
Spring
Locking Balls
Seals
Valve Holder

Standard Version

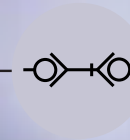
Steel, Zinc Plated, aquarez-treated
Steel, Zinc Plated, aquarez-treated
Brass, hard-drawn
AISI 301
AISI 420 C
Nitril
Brass, hard-drawn

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



H Series 10000

1"



60% of actual size

Technical Description

The H series is a further development of the standard hydraulic coupling, with some new materials to stand up to heavy conditions. The body of the coupling is made of steel so that the coupling functions reliably even when subject to substantial lateral forces. The safety closing ring is hardened and chromatised in black. The remaining parts are yellow passivated and aquarez-treated.

Available with BSP-P threads.

Advantages

With the patented Pressure Eliminator, it is possible to establish a coupling under back pressure. Significantly longer service intervals through internal O-ring with bearing ring.

Applications

Automotive, shipbuilding industry, building machinery.

Nominal Plug Bore: .98"

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril) depending on the medium.

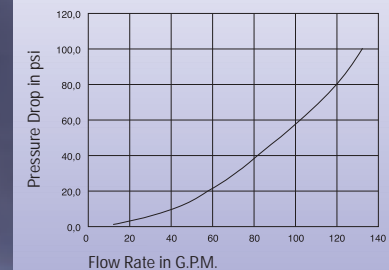
Material Coupling

Body
Sleeve
Valve
Spring
Locking Balls
Seals
Valve Holder

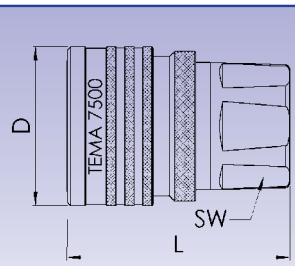
Standard Version

Steel, Zinc Plated, aquarez-treated
Steel, Zinc Plated, aquarez-treated
Brass, hard-drawn
AISI 301
AISI 420 C
Nitril
Brass, hard-drawn

Chart Pressure Drop Viscosity for 32 cSt as per ISO 7241/2-1986



Couplings



Female Thread

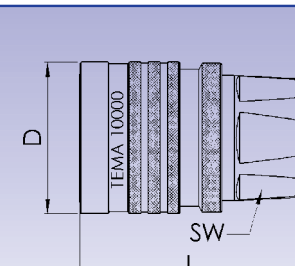
Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
3/4" NPTF	1.50	2.87	2.05	Nitril	4350 psi	TH7510 N

with Pressure Eliminator

see coupling

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
3/4" NPTF	1.50	2.87	2.05	Nitril	4350 psi	TH7511 N

Couplings



Female Thread

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
1" NPTF	1.77	3.46	2.44	Nitril	3770 psi	TH10010 N

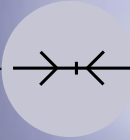
with Pressure Eliminator

see coupling

Connection A	Hex SW	L	D	Seal	Working Pressure connected	Part Number
1" NPTF	1.77	3.46	2.44	Nitril	3770 psi	TH10011 N

Swivel Joint

1/4" - 1"



Technical Description

TDG swivel joints can be used in hydraulic systems where a rotating connection is required. For example in add-on units with rotational movements of up to 360°. TDG swivel joints minimise the extreme wear occurring in the hoses of the hydraulic system. A patented Pressure Relief Unit guarantees a long service life and smooth running even in the event of pressure hammers.

Advantages

The housing is made of brass, the rotating shaft is made of surface-treated steel or stainless steel, and is suitable for temperatures of -40° to +90°C. Sturdy construction with two needle roller bearings and an axial sliding bearing, adapted for combination with standardised hydraulic components. Maximum rotating speed 60 rpm.

Applications

Elevating mechanism, materials-handling technology, building and agricultural machinery, automotive.

Working Pressure

Maximum static working pressure with safety 4 to 1 – see below.

Working Temperature

-40°F up to +38°F (Nitril) depending on the medium.



90% of actual size

Material

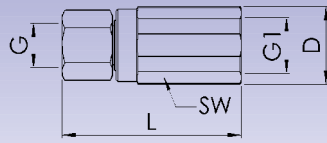
Body
Swivelling Axis
Nut
Seals

Standard Version

Brass
Steel, nitrated or Stainless Steel
Steel, Zinc Plated
Nitril

Swivel Joint Type 250 DN 1/4"

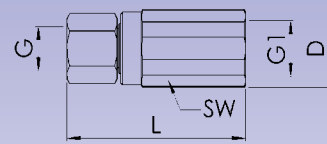
DN	Connection G	Connection G1	Hex SW	L	D	Seal	Type	max. Working Pressure	Part Number
1/4"	1/4" NPTF	3/8" NPTF	.87	2.09	.91	Nitril	1	3625 psi	T250 N
1/4"	1/4" NPTF 1)	3/8" NPTF	.87	2.09	.91	Nitril	1	3625 psi	T250 NRF



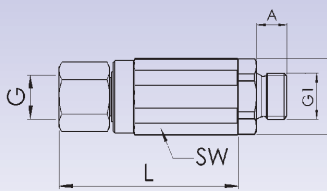
Female Thread

Swivel Joint Type 500 DN 1/2"

DN	Connection G	Connection G1	Hex SW	L	D	Seal	Type	max. Working Pressure	Part Number
1/2"	1/2" NPTF	3/4" NPTF	1.26	2.80	1.38	Nitril	1	3625 psi	T500 N
1/2"	1/2" NPTF	3/4" NPTF	1.26	2.80	1.38	Nitril	1	3625 psi	T500 NRF
1/2"	1/2" NPTF	1/2" NPTF o.1)	1.26	2.87	1.38	Nitril	1 A	3625 psi	T500 NB



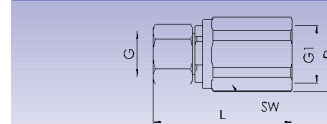
Female Thread



Female Thread

Swivel Joint Type 750 DN 3/4"

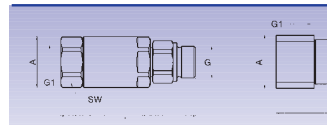
DN	Connection G	Connection G1	Hex SW	L	D	Seal	Type	max. Working Pressure	Part Number
3/4"	3/4" NPTF	1" NPTF	1.57	3.15	1.38	Nitril	1	3625 psi	T750 N
3/4"	3/4" NPTF 1)	1" NPTF	1.57	3.15	1.38	Nitril	1	3625 psi	T750 NRF



Female Thread

Swivel Joint Type 750RL DN 3/4"

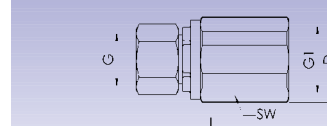
DN	Connection G	Connection G1	Hex SW	L	D	Seal	Type	max. Working Pressure	Part Number
3/4"	3/4" UNF o.	3/4" NPTF	1.26	4.25	1.65	Nitril	RL	3625 psi	T750 NRL
3/4"	3/4" UNF o.	3/4" NPTF	1.26	5.12	1.65	Nitril	RL	3625 psi	T750 NRL90



Female Thread

Swivel Joint Type 1000 DN 1"

DN	Connection G	Connection G1	Hex SW	L	D	Seal	Type	max. Working Pressure	Part Number
1"	1" NPTF	1 1/4" NPTF	1.97	3.70	2.09	Nitril	1	2900 psi	T1000 N
1"	1" NPTF 1)	1 1/4" NPTF	1.97	3.70	2.09	Nitril	1	2900 psi	T1000 NRF



Female Thread

1) Swiveling Axis made of stainless steel

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