Ball Valves
Butterfly Valves
Gate, Globe and Check Valves
APOLLOXPRESS
Automation Products
Pipeline Strainers
Backflow Preventers
Plumbing & Heating Products
Safety Relief Valves
Balancing Valves
Apollo Fire Protection System Solutions





A history of **Quality, Service** and **Innovation**

Now in its ninth decade, Conbraco Industries, Inc. is a leading manufacturer of flow control products for U.S. and international markets. The company's headquarters is based in Matthews, North Carolina with manufacturing plants and foundries located in Pageland and Conway, South Carolina.

Conbraco has a history of new product development and innovation that dates back to the company's inception in 1928. Today, the Conbraco line of products is marketed under the "Apollo Valves" brand and includes: ball valves, butterfly valves, backflow prevention devices, water pressure reducing valves, mixing valves, safety relief valves, water gauges, strainers, actuation and ApolloXpress products.

Conbraco's vertically integrated manufacturing ensures a consistency of production, testing, quality and availability. You can be assured that Conbraco flow control products will deliver long term reliability. All Conbraco plants are registered to ISO 9001:2008 quality standards.

The Conbraco line continues to expand with new products, designs and advanced materials to better serve the needs of our customers. Markets served include: chemical processing, pulp and paper, petroleum, residential and commercial plumbing and heating, OEM, irrigation, water works, and fire protection.



PAGELAND, SC Bronze-Foundry and Manufacturing Plant



PAGELAND, SC Final Assembly and Distribution Center

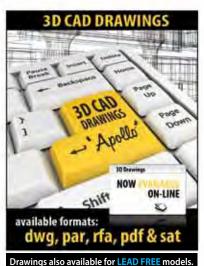


CONWAY, SC Steel Foundry and Manufacturing Plant



MATTHEWS, NC Corporate Headquarters





Throughout this catalog, products that have a Lead Free* option will be identified with this logo.

* LEAD FREE: The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with CA AB1953, VT Act 193, MD HB372, LA HB471 and Federal Public Law 111-380.



**Any imported products are clearly identified as "Apollo InternationalTM".

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Standard Ball Valves

RATINGS

BRONZE VALVES: 600 psig CWP, Non-shock.

(Exceptions: 3-way and bronze Saturn valves) 150 SWP.

STAINLESS STEEL VALVES (76 & 96 SERIES):

1/4" through 1": 2000 psig CWP 1-1/4" through 2": 1500 psig CWP

2-1/2" and 3": 1000 psig CWP (76 Series only)

CARBON STEEL VALVES (73A, 89, 92 & 93 SERIES):

1/4" through 1": 2000 psig CWP

1/4" through 2": 1500 psig CWP, Non-shock 2-1/2" and 3": 1000 psig (89 Series only)

72 SERIES: 3000 psig CWP

STANDARD BALL VALVE DESIGN FEATURES

- Steel or 304 stainless steel handle with hole for tagging.
- Blow-out resistant stem.
- Body: Bronze, stainless steel, carbon steel, Alloy 20 and nickel.
- RPTFE seats and seals, stuffing box ring and seal washer.
- 71-AR, 76-AR, 77-AR, 77C-100, 77C-200, 77CLF-100, 77CLF-200, 77D-14X, 77W, 77WLF and 89-AR have MPTFE as standard

Note: Seat material determines practical working pressures. Pressures referenced are body ratings.

7K SERIES

Auto Draining; bronze full port ball valve with 1/4" NPT tap for drain. Available with lock-closed-only lever. Sizes: 1/4" to 2-1/2".

9A SERIES

Bronze one piece ball valve; UL listed 300 psig (9A rated 600 psig CWP); threaded ends. For fuel, inert gas, flammable liquids; "tee" or lever handles. 90 Series sizes 1/2" to 2", 9A sizes 1/4" to 2".

32 SERIES

Standard port economy bronze ball valve. Blow-out proof stem design. Adjustable packing gland. 400 psig CWP, cold nonshock. 125 psig saturated steam. Vacuum service to 29"Hg. Sizes 1/4" to 2". Available with solder and threaded ends.

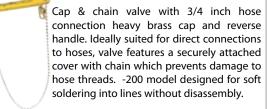


70/70LF SERIES

Standard port threaded bronze ball valve. This Apollo valve is the most widely used and trusted bronze ball valve in the industry. It features blowout-proof stem, RPTFE seats and stuffing box ring and chromiumplated ball.



70-HC/70LF-HC SERIES





71 SERIES

Bronze ball valve with mounting pad; spring return handle available as model 71-500. Sizes: 1/4" to 3".



Forged carbon steel construction, standard port design 2000 CWP to 1". 1500 CWP 1-1/4" to 2". With actuator mounting pads and raised handle stops. NACE compliant with SS trim. Sizes 1/4" to 2".



74 SERIES

Chemical resistant nickel ball valve, blow-out resistant stem, stainless steel ever and nut and precision investment cast components. Sizes: 1/2" to 2".





Standard Ball Valves

75 SERIES



Bronze padlockable ball valve; rated 600 psig CWP; stainless steel lever and nut optional. Automatic drain available. Sizes 1/4" to 2".



76 SERIES

Stainless steel standard ball valve; investment cast components. 2,000 CWP to 1", 1,000 CWP 1-1/2" to 3". Sizes: 1/4" to 3". 76-600 Series - Stainless steel 3-way diversion ball valve; 800 psig WOG, investment cast components.

76-300/400 SERIES



Stainless steel ball valve with double union ends; blow-out proof stem, all wetted metallic parts are 316 stainless steel. RPTFE seats and seals, adjustable packing gland and stainless steel lever and nut. Sizes 1/2" to 2".



76F-A SERIES

Economy stainless steel full port valve, 1000# CWP rating. Threaded ends, blowout proof stem, investment cast body, 316 SS components, including stainless handle. RPTFE seats and long life MPTFE packing. Sizes 1/4" to 2".

77 SERIES



Bronze full port ball valve with mounting pad; designed for easy actuator mounting. Sizes 1/4" through 2-1/2". Available in NPT and SAE threads. Also available with solder connections - no mounting pads.

77C/77CLF SERIES



Full port "Contractor Series" bronze ball valve with solid chrome-plated ball for superior flow characteristics. U.S. made cast bronze body and retainer. NPT and ANSI B16.18 solder end connections available. Sizes 1/4" to 2-1/2".

77W/77WLF SERIES



ApolloXpress™ ball valves are designed for direct mechanical connection to copper tubing in sizes 1/2″-2″. The 77W complies with ANSI/NSF 61 Section 8 and is ideal for plumbing and heating systems. The press connections ensure easy installation with standard crimping tools. Rated 250 CWP, now with Leak Before Press™ feature.

89 SERIES



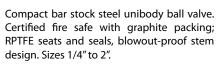
Carbon steel ball valve with threaded ends; 1500 and 2000 psig CWP; easy actuator mounting. Sizes 1/4" to 3". (Actuator Ready version: 89-ARX-64)

90 SERIES



Compact bronze uni-body ball valve that's UL listed at 400 psig CWP for fuel gases and flammable liquids. Also ideal for general purpose applications. Sizes 1/2" to 2".

92-100 SERIES





For additional information, submittal sheets and manuals, visit www.apollovalves.com

Standard Ball Valves (cont'd)

93 SERIES

ra O Sa

Carbon steel unibody ball valve; CWP rated 1500 to 2000 psig, cold, non-shock. Optionally meets API 607 fourth edition fire safe standards. Sizes 1/4" to 2".

95/95LF SERIES

Bronze stop and drain ball valve; 400 psig CWP rating; threaded or solder ends; many handle options available. Sizes 1/2", 3/4" and 1".



96 SERIES



Stainless steel unibody ball valve; CWP rated 1500 to 2000 psig; optionally meets API 607 fourth edition fire safe design standards; available with "tee", round, and cam lock handles

Three Piece Ball Valves

82/82LF SERIES



Bronze three piece full port ball valve; rated 600 psig CWP; threaded, solder and brazed tube ends. In-line maintenance. Sizes 1/4" through 4".

82-200/82-240 SERIES



Three piece full port valve with brazed tubing. This valve is useful in pharmaceutical, medical gas and pneumatic applications where valves should not be disassembled prior to soldering or brazing.



83A SERIES



Carbon steel, full port three piece ball valve. 1500 psig CWP; stainless ball and stem, ISO 5211 mounting pad, stainless enclosed fasteners and topworks. Multi-piece V-ring packing, gland plate style packing adjustment and lockable. Available with threaded, socket weld and butt weld ends. Sizes 3/8" to 2". Limited options.

83B SERIES



Carbon steel, full port three piece ball valve. Class 600 (all sizes): stainless ball & stem, ASME B16.34, ISO 5211 mounting pad, enclosed B8M fasteners, stainless topworks, multi-piece V-ring packing. Gland plate style packing adjustment, static grounding, spiral gaskets and lockable. Available with threaded, socket weld and butt weld ends. Sizes 3/8" to 2". Numerous options including live-loading or tested to API 607 5th edition.

86A SERIES



Stainless steel, full port three piece ball valve. 1500 psig CWP, ISO 5211 mounting pad, enclosed fasteners, multi-piece V-ring packing, gland plate style packing adjustment and lockable. Available with threaded, socket weld and butt weld ends. Sizes 3/8" to 2". Limited options.

86B SERIES



Stainless steel, full port three piece ball valve. Class 600; ASME B16.34, (all sizes), ISO 5211 mounting pad, enclosed B8M fasteners, stainless topworks, multi-piece V-ring packing. Gland plate style packing adjustment, static grounding, spiral gaskets and lockable. Available with threaded, socket weld and butt weld ends. Sizes 3/8" to 2". Numerous options including live-loading or tested to API 607 5th edition.



Apollo® ARTM Ball Valves

APOLLO AR™ BALL VALVE RATINGS

Apollo AR actuator ready ball valves feature an ISO 5211-style mounting pad with no handle to throw away. They are made for high cycle applications, and like all Apollo valves, the bodies are cast to the highest metallurgical standards for long service life.

They are available in stainless steel, carbon steel and bronze. They feature a live loaded multi-stacked "V"-ring stem packing. All models come standard with a stainless steel ball and stem, and multifill seats, seals and packing rated up to 2000 psig or to 450°F, or to 250 psig saturated steam. (Bronze rated to 600 psig.)

76-AR SERIES



Stainless steel standard port ball valve. Investment cast components; ISO mounting pad and advanced live loaded packing design. Latch lock handle available. Sizes 1/4" to 3"

77D SERIES



Full port bronze ball valve with an integral ISO 5211 mounting pad. Double o-ring stem seal and MPTFE seats and bearings. Sizes 1/2" to 2" with standard stainless steel ball and stem.

71-AR SERIES



Bronze standard port ball valve with threaded ends, ISO mounting pad, and advanced live loaded packing design. Latch lock handle available. Sizes 3/4" to 3".

77-AR SERIES



Bronze full port ball valve with threaded ends. ISO mounting pad and advanced live loaded packing design. Latch lock handle available. Sizes 1/4" to 2".

89-AR SERIES



Carbon steel standard port ball valve. Investment cast components, ISO mounting pad and advanced live loaded packing design. Latch lock handle available. Sizes 1/4" to 3".

Heavy Duty Apollo Ball Valves

- Blow-out proof stem
- Field repairable
- RPTFE seats and stuffing box rings
- · Meets WW-V-35C federal standards
- Fire safe designs available
- Expanded pressure ranges
- High performance alloys

72 SERIES



Carbon steel high pressure ball valve. Rated 3000 psig. Sizes 1/4" to 2". Pressure is body rating.

87A SERIES



Stainless steel Class 150 and 300 flanged valve. Regular or full port, ISO 5211 actuator mounting pad. Sizes 1/2" to 12"



Heavy Duty Apollo Ball Valves (cont'd)

88A SERIES



Carbon steel Class 150 and 300 flanged valve. Regular or full port; ISO 5211 actuator mounting pad. Sizes 1/2" to 12".

Specialty Valves

399/87A-400/401R



Alloy 20 two piece, three piece, and Class 150 flanged ball valves. Reinforced seats and seals; many other options available. Two piece sizes 1/4" to 2". Three piece sizes 1/2"-2". Flanged sizes 1/2" to 4".

7K & 77K SV



Full port bronze Secure Vent[™] valves. Ideal for automatic venting of compressed air for powering tools and equipment when the valve is in the closed position. Live loaded seats on upstream side. Available in 1/4" - 2" size with a variety of handles.

Apollo International Ball Valves

64 SERIES



Apollo International forged brass full port ball valve. An economical valve that is available in 1/4"-4" NPT and 1/2"-4" in sweat connections. Rated at 600 psig cold working pressure. Meets ANSI/NSF 61-8 and numerous gas listings.

64WC SERIES



Apollo International Apollo-Press ball valve with brass body. Available in 2-1/2" to 4" sizes compatible with XLC press tool jaw sets. Ideal for installation in plumbing and heating systems. Rated 200 CWP.

94A/94ALF SERIES



Apollo International forged brass full port ball valve in thread and sweat connections. An economical valve that is available in 1/4" to 4" in NPT and 1/2" to 4" in sweat connections. Rated at 600 psig cold working pressure 1/4"-2" and 400 psig 2-1/2"-4". Meets ANSI/ NSF 61-8 and numerous gas listings.

94 MBV SERIES



Apollo International™ mini ball valve. Competitive, conventional port valves, constructed of heavy-duty forged brass, with 100% Teflon seats and gland follower with double Viton o-rings to prevent stem leakage. Reversible handle for tight space applications. CSA 1/2 psig and ASME 2 and 5 psig gas ratings. Rated to 600 psig at 100°F. Operating temperatures from -40°F to 300°F. Sizes: 1/8″ and 1/4″.

95A SERIES



Apollo International forged brass full port stop and waste ball valve. Available in threaded and sweat connections and rated at 600 psig. This valve features a side drain ideal for plumbing or hydronic heating systems.

IBV-125 SERIES



Apollo International flanged cast iron ball valves can be used to replace any IBBM dimension gate valve or plug valve to give the convenience of quarter turn operation. Sizes 2"-10" rated at 125 WSP and 250 CWP. Also available with FDA approved epoxy coating.



Top Entry Apollo Ball Valves

- Sizes 1/2" to 12"
- Temperatures 150°F to +1,000°F
- ANSI Pressure Class 150, 300, 600
- 16 seating materials, four different configurations
- · High strength encapsulated metal seat holders
- 11 body materials
- 11 ball and stem materials
- Six end configurations
- Standard bonnets, extended bonnets and fugitive emissions bonnets - all interchangeable



BUTT WELD SERIES

Available in ANSI Class 300 to 8" and Class 600 to 6" size. Schedule 10, 40 and some 80 pipe ends offered. A full range of body, seat and seal materials are available.





In 150, 300 and 600 ANSI Class. Materials: Alloy 20, carbon steel, Hastelloy C, M35-1, nickel, stainless steel, titanium and others upon request. Sizes 1/2" to 10".

NPT AND SOCKET WELD SERIES



Available in 300 ANSI Class sizes 1/2" to 3"; and 600 ANSI Class 1/2" to 2". Materials: Alloy 20, carbon steel, astelloy C, M35-1, nickel, stainless steel, titanium and others upon request. Full port available in 300 ANSI class sizes 1/2" to 2" and 600 ANSI class sizes 1/2" to 1-1/2"

STEAM JACKETED TOP ENTRY VALVES



Apollo Top Entry ball valves are ideally suited for jacketed applications. The top entry concept allows for continued access to stem packing and valve internals for ease of maintenance without disturbing the jacket itself or removing the valve from the pipeline.

Gate, Globe & Check Valves

30/30LF SERIES



Made in the USA. Class 125, 150, 300 and 200 CWP bronze gate valves meet MSS SP-80. Thread and union bonnet, rising and nonrising stem. Irrigation and lead free models available. Sizes 1/4" through 3", NPT and solder.



33/33LF SERIES

Made in the USA. Class 125, 150, 300 and 200 CWP bronze gate valves meet MSS SP-80. Thread and union bonnet, bronze and PTFE seat options. Lead free models available. Sizes 1/4" through 3", NPT and solder.



Gate, Globe & Check Valves

61Y/61YLF SERIES



The Apollo Model 61Y Swing Check provides a cost effective "made in the USA" alternative to globally sourced check valves. These

valves are cast, machined, assembled, and tested in South Carolina. Bronze and PTFE seat models. Lead free option. Sizes 1/4" through 3" NPT and solder.

610 & 611 SERIES



The Apollo International™ Models 610F and 611F Flanged 125 Class Cast Iron Gate valve provides full flow capabilities. The Apollo Gate valve can reliably be installed in most plumbing and heating systems (or building service piping). MSS SP-70 Sizes 2" through 24".

620 & 621 SERIES



The Apollo International™ Models 620F & 621F Flanged 250 Class Cast Iron Gate valve provides full flow capabilities. The Apollo Gate valve can reliably be installed in most plumbing and heating systems (or building service piping). MSS SP-70 Sizes 2" through 12".

711 & 721 SERIES



The Apollo International™ Models 711F & 721F Flanged 125 & 250 Class Cast Iron Globe valve provides efficient throttling capabilities. The Apollo Globe valve can reliably be installed in most plumbing and heating systems (or building service piping). MSS SP-85 Sizes 2" through 10".

910 & 920 SERIES



The Apollo International™ Models 910F & 920F Flanged Cast Iron Swing Check valve provides full flow capabilities. It provides reliable and economical protection against reverse flow. The Apollo Swing Check valve can reliably be installed in most plumbing and heating systems (or building service piping). MSS SP-71 Sizes 2" through 20".

910W SERIES



The Apollo International $^{\text{TM}}$ Model 910WB Cast Iron Wafer Check valve provides full flow capabilities. It provides reliable and economical protection against reverse flow. The Apollo Wafer Check valve can reliably be installed in most plumbing and heating systems (or building service piping). Sizes 2" through 24".

61-700 SERIES - MODEL CV



Ideally suited for all OEM applications where space is a premium. Excellent for use on water and air. They feature a bubble tight soft seat design with a very light loaded stainless steel spring

61/61LF, 62 SERIES - MODEL CVS, CVB



Ball cone check valves in bronze (to 3") and 316 stainless steel (to 2"). Reinforced PTFE ball cone check provides excellent chemical and corrosion resistance and requires no radial alignment. Standard connection for bronze is FNPT (to 3"), male x female (to 2"). For stainless steel, FNPT only.

61-500/62-500 SERIES – MODEL CVBE, CVSE



Bronze check valves with standard EPR or optional Nitrile seat for bubble tight shut off to 2". Stainless steel check valves with fluorocarbon seat to 1". Optional 5 and 10 psig cracking pressure through size 1". Standard connection for bronze is FNPT, bronze sweat connection available to 1", for stainless steel FNPT only.

Hydronic Balance Valves

MODEL 58A



Apollo Model 58A balance valves are precision engineered and manufactured valves which provide two position hydronic circuit isolation capability and multi-turn throttling adjustment as required for proportional balancing of hydronic systems. Unique ten turn needle valve adjustment, with integrated digital readout. The valve features a dezincification resistant brass body with PTFE seals. Available in NPT, Sweat and Apollo XPress fittings.

ApolloXpress

THE APOLLOXPRESS™ ADVANTAGE APOLLOXPRESS™ fittings are a proven he

APOLLOXPRESS™ fittings are a proven heat-free method for joining copper tube and provide a clean, easy joining technique that saves time and money on installations.

The APOLLOXPRESS™ line of fittings and valves feature pre-lubricated seals and leak-before-press technology to ensure quick and confident connections. APOLLOXPRESS™ valves are available in both standard and Lead Free configurations, while all APOLLOXPRESS™ fittings are Lead Free.

Made in America in our American plants and foundries, our broad range of Press Technology products brings you the quality you have come to know and expect, all from one source. APOLLOXPRESS™ is your single source solution for Press Technology.

77W/77WLF SERIES



The APOLLOXPRESS™ 77W Series Press End Ball valve is designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. The 77W is ideal for installation in most plumbing and heating systems, including potable water. Now with Leak Before Press™ feature and 250 psig maximum working pressure. Lead free option available.

77W-HC/77WLF-HC SERIES



The APOLLOXPRESS™ 77W-HC Press x Hose ball valve is designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition for sizes 1/2"- 3/4". Valves feature a 3/4" hose connection with heavy brass cap to protect the threads. The 77W-HC is ideal for most plumbing and heating systems, including potable water. Now with Leak Before Press™ feature and 250 psig maximum working pressure. Lead free option available.

30-PR/30LF-PR SERIES



The APOLLOXPRESS™ 200 CWP Bronze Gate with press connections is a proven combination that provides economical installation and reliable service. Available in RS or NRS configuration. These valves are cast, machined, assembled, and tested in South Carolina with proven ASTM quality material. The Apollo Gate valve can reliably be installed in most plumbing and heating systems or building service piping and OEM applications. Lead free option available.



ApolloXpress (cont'd)

33-PR/33LF-PR SERIES



The APOLLOXPRESS™ Model 120T-PR (33 Series) 200 CWP Bronze Globe valve with press connections is a proven combination that provides economical installation and reliable service. The valves are cast, machined, assembled, and tested in South Carolina with proven ASTM quality material. The Apollo Globe valve can reliably be installed in most plumbing and heating systems (or building service piping). Lead free option available.

61Y-PR/61YLF-PR SERIES



The APOLLOXPRESS™ Model 163T-PR (61Y Series) 200 CWP Bronze Swing Check valve with press connectors is a proven combination that provides economical installation and reliable service. These valves are cast, machined, assembled, and tested in South Carolina using proven ASTM quality materials. Lead free option available.



61-PR/61LF-PR SERIES



The APOLLOXPRESS™ Model CVB-PR (61 Series) BALL-CONE® In-Line Check valves with Press connections offer reliable protection against reverse flow in a variety of liquid applications including hot and chilled water / HVAC applications using proven ASTM quality materials. May be installed in both horizontal and vertical flow with upward flow. Lead free option available.



36C-PR/36CLF-PR SERIES



The APOLLOXPRESS™ Model PRC-PR (36C Series) Pressure Reducing Valves with Press connections are easily installed to protect residential and commercial water distribution systems by automatically controlling excessive pressure. The dielectric thermoplastic cage provides maximum corrosion resistance. Designed for easy inline servicing with bottom cleanout and service access. Lead free option available.



36E-PR/36ELF-PR SERIES



The APOLLOXPRESS™ Model PRE-PR (36E Series) Pressure Reducing Valve with Press connections is easily installed to protect residential and commercial water distribution systems by automatically reducing excessive supply pressures. The dezincification resistant bronze body, stainless steel adjusting screw and dielectric polymer cage provide maximum corrosion resistance. Designed for easy in-line servicing with simple cartridge removal. Lead free option available.

36-PR/36LF-PR SERIES



The APOLLOXPRESS™ Model PR-PR (36 Series) Pressure Reducing Valves with Press end connections are designed to protect residential and commercial water distribution systems by controlling excessive pressures. The valves are built for long reliable service with proven ASTM grade materials including a bronze body and cover and integral stainless steel strainer. Lead free option available.



59-PR/59LF-PR SERIES



The APOLLOXPRESS™ Model YB-PR (59 Series) Bronze Wye Strainers with quick Press connections are designed to protect domestic water systems and process equipment from unwanted foreign particles with minimal pressure loss. The valves are built for long reliable service with proven ASTM grade materials and stainless steel strainer. Features Leak Before Press™ technology and 250 psig maximum working pressure. Lead free option available.

RP4A-PR/RPLF4A-PR SERIES



The ApolloXpress™ Model RP4A series Reduced Pressure Backflow Preventers with Press end connections provide maximum protection against back-siphonage or backpressure from substances that are hazardous to the potable water supply. The top accessed modular check valve cartridges provide captured springs, replaceable seats and reversible silicone seat discs. This Made in America / 5 year factory warranty assembly features ApolloXpress™ ball valves with stainless steel handles and trim as standard and Leak Before Press™ technology.



ApolloXpress (cont'd)

SMALL DIAMETER FITTINGS



The APOLLOXPRESS™ small diameter fittings (1/2" - 2") feature copper-body construction for most configurations. The lead-free design offers a *Leak Before Press™* feature. The forward lip aids in the alignment of the copper tube during insertion, reducing the risk of o-ring damage. These fittings are approved for underground applications and are ideal for service and repair. Pre-lubricated, they are fast and simple to install. Copper fittings are Made in the USA.

LARGE DIAMETER FITTINGS



The APOLLOXPRESS™ large diameter copper fittings (2-1/2" - 4") feature a patented solid cross-section grab ring, creating significant contact with the tube after pressing. The Leak Before Press™ feature allows water to flow past the sealing element during pressure testing if the fitting has not been pressed. Last, but certainly not least, we've added a visual element: if the break-away band is still on the fitting, it needs to be checked. Made in the USA.

Apollo Fire Protection System Solutions



XPress, by Apollo Fire Protection System Solutions is the thread and groove free method of joining fire sprinkler piping cleanly and in less time. Contractors choose to use XPress rather than threaded systems for the labor savings, peace of mind and everything in-between.

The XPress systems' innovative advancements include a tool that weighs less than ten pounds and a full line product offering utilizing state of the art manufacturing techniques with 100% on-line quality testing. These innovations provide contractors multiple benefits including labor savings, a clean, grease free joint and consistency when making connections.

XPress, perfect for both retrofit and new construction projects is ideal for hospitals, hotels, dormitories, apartments, food and beverage, petrochemical, schools, places of worship and exposed residential basements to name a few.

XPress...for the perfect fit!"

XPRESS GALVANIZED SPRINKLER SYSTEM



The UL Listed and FM Approved system for wet fire sprinkler applications saves contractors valuable time. Available in system sizes 1" - 4", includes galvanized pipe and fittings and lightweight tools manufactured by Novopress.



XPRESS STAINLESS STEEL SPRINKLER SYSTEM



The UL Listed and FM Approved system for wet and dry fire sprinkler applications saves contractors valuable time. Available in system sizes 1" - 4", includes type 316 pipe and fittings and lightweight tools manufactured by Novopress.



Apollo Pneumatic Actuators

Apollo actuators feature ISO 5211 interface dimensions and NAMUR solenoid and accessory interface dimensions. Apollo also supplies pre-engineered stainless steel valve/actuator mounting kits for all Apollo valves equipped for automation. Available in 13 sizes to

complement torque requirements, with both spring return and double acting versions available. Spring return torque ratings at 80 psig are from 39-41, 341 lb-in. Double acting torque ratings at 80 psig range from 59 - 60, 623 lb-in.

APOLLO "ACUTORQUE"



Apollo AcuTorque actuator is manufactured with an integral internal air manifold. Valve interface dimensions are ISO 5211 standard. The solenoid mounting pad and slotted shaft are manufactured to NAMUR dimensional standards. For applications not requiring a direct mount solenoid valve, ports are NPT threaded. Investment cast steel body and unique drive pinion make the AcuTorque an excellent choice for tough applications. Torque outputs from 21 to 20, 929 lb-in.

Apollo Electric Actuators

AE SERIES



Electric actuators; torque output 200 to 1,000 lb-in, NEMA 4 & 4X (water tight and corrosion resistant) enclosures. Thru shaft manual override. Reversing motors in 24, 115, 220 VAC and 12 and 24 VDC. CSA listed.

CS/CL SERIES



Industrial quality reversing motor design electric actuator. Operating torques from 150 to 3,000 lb-in; AC and DC motors, extended duty cycles; NEMA 4 and 7 enclosures.

LB SERIES



Electric actuators; torque output: 300 to 54,000 lb-in; on/off or modulating control available. 115 VAC 50/60 Hz single phase. 220/440 VAC - 50/60 Hz three phase

Apollo International Butterfly Valves

LD/WD 141



General purpose/economy ductile iron design for use in industrial and HVAC/mechanical markets. The WD141 Model is a wafer style valve; the LD141 Model is a companion lug. Both are rated at 200 psig bubble-tight shut off between flanges. LD/WD 141 Series meet MSS SP-67 and API 609 specifications. Lug sizes 2" to 24". Wafer sizes 2" to 12".

LC149



The Apollo® LC149 Contractor Grade Series Cast Iron Butterfly Valves are ideal for use in Industrial and HVAC/Mechanical applications. The LC149 Series is a lug style valve designed to be economical yet full featured. Features bronze disc and EPDM seats. Lug sizes 2″ to 12″.



Backflow Preventers

4A-100 SERIES - MODEL DC-4A



Bronze body double check assembly with top access check valves and test cocks. Features captured spring cartridges and Apollo ball valve shutoffs with stainless steel trim. Contact local representative or factory for approvals. Sizes 1/2"-2".



4A-200 SERIES - MODEL RP-4A



Bronze body reduced pressure principle backflow assembly with top access check valves and test cocks. Features captured spring cartridges and Apollo ball valve shutoffs with stainless steel handles and trim. Contact local representative or factory for approvals. Sizes 1/2"-2".



4A-100 SERIES – MODEL DC-4A



Double Check Valves in sizes 2-1/2"-12". Stainless steel bodies 2-1/2"-8", FDA Approved epoxy-coated ductile iron 10" and 12". Patented TriForce ™ checks in all sizes for low head loss and short lay length. Available shutoffs: monitored butterfly valves with supervisory switch, OS&Y and NRS gate valves. Horizontal and vertical installation approvals.

4A-200 SERIES - MODEL RP-4A



Reduced Pressure Principle Backflow Preventers in sizes 2-1/2"-12". Stainless steel bodies 2-1/2"-8", FDA Approved epoxycoated ductile iron 10" and 12". Patented TriForce™ checks in all sizes for low head loss and short lay length. Available shutoffs: monitored butterfly valves with supervisory switch, OS&Y and NRS gate valves. Horizontal installation approvals.

4AN-100 SERIES – MODEL DC-4AN



Double Check Valves in an "n" flow pattern in sizes 2-1/2"-12". Stainless steel bodies 2-1/2"-8", FDA-Approved epoxy-coated ductile iron 10" and 12". Patented TriForce™ checks in all sizes for low head loss and small footprint. Available shutoffs: monitored butterfly valves with supervisory switch, OS&Y and NRS gate valves. Vertical up/vertical down installation approvals.

4AN-200 SERIES - MODEL RP-4AN



Reduced Pressure Principle Backflow Preventers in "n" and vertical up flow patterns in sizes 2-1/2"-12". Stainless steel bodies 2-1/2"-8", FDA-Approved epoxy-coated ductile iron 10" and 12". Patented TriForce™ checks in all sizes for low head loss and small footprint. Available shutoffs: monitored butterfly valves with supervisory switch, OS&Y and NRS gate valves. Vertical up/vertical down and vertical up/vertical up installation approvals.

4A-600 SERIES - MODEL DCDA-4A



Double Check Detector Assemblies in sizes 2-1/2"-12". Stainless steel bodies 2-1/2"-8", FDA-Approved epoxy-coated ductile iron 10" and 12". Patented TriForce™ checks in all sizes for low head loss and short lay length. Available shutoffs: monitored butterfly valves with supervisory switch, OS&Y and NRS gate valves. Horizontal and vertical installation approvals.

4A-700 SERIES – MODEL RPDA-4A



Reduced Pressure Detector Assemblies in sizes 2-1/2"-12". Stainless steel bodies 2-1/2"-8", FDA Approved epoxy-coated ductile iron 10" and 12". Patented TriForce ™ checks in all sizes for low head loss and short lay length. Available shutoffs: monitored butterfly valves with supervisory switch, OS&Y and NRS gate valves. Horizontal installation approvals.

4AN-600 SERIES – MODEL DCDA-4AN



Double Check Detector Assemblies in "n" flow pattern in sizes 2-1/2"-12". Stainless steel bodies 2-1/2"-8", FDA-Approved epoxy-coated ductile iron 10" and 12". Patented TriForce™ checks in all sizes for low head loss and small footprint. Available shutoffs: monitored butterfly valves with supervisory switch, OS&Y and NRS gate valves. Vertical up/vertical down installation approvals.

4AN-700 SERIES – MODEL RPDA-4AN



Reduced Pressure Detector Assemblies in "n" and vertical up flow patterns in sizes 2-1/2"-12". Stainless steel bodies 2-1/2"-8", FDA Approved epoxy-coated ductile iron 10" and 12". Patented TriForce™ checks in all sizes for low head loss and small footprint. Available shutoffs: monitored butterfly valves with supervisory switch, OS&Y and NRS gate valves. Vertical up/vertical down and vertical up/vertical up installation approvals.



For additional information, submittal sheets and manuals, visit www.apollovalves.com

Backflow Preventers (cont'd)

4SG-100 SERIES - MODEL DC-4SG



Double Check Valves in sizes 2-1/2"-8". (10"-DC4S) Light weight, short lay length, low head loss, with individual access to the check valves. FDA approved epoxy-coated ductile iron. Available shut-offs: monitored butterfly valves with supervisory switch, OS&Y and NRS gate valves. Horizontal and vertical installation approvals.

4SG-600 SERIES - MODEL DCDA4SG



Double Check Detector Assembly in sizes 2-1/2"-8". (10"-4S-600) Light weight for ease of installation in fire or automatic sprinkler systems. Provides precise monitoring capability to unauthorized water usage. Available shut-offs: monitored butterfly valves with supervisory switch and resilient seated OS&Y gate valves. Vertical and horizontal approvals.

40-200 SERIES - MODEL RP-40



Sizes 2-1/2" to 10". Fusion epoxy coated ductile iron body; 85-5-5-5 replacement seats and stainless steel springs. Full USC-FCCC&HR, AWWA, ASSE, CSA, and FM approvals and IAPMO listed. UL classified.

40-700 SERIES - MODEL RPDA40



Reduced Pressure Detector Assembly. Detects unauthorized use of water in fire and sprinkler systems. Ductile iron body is epoxy coated with bronze metered bypass. Working pressures to 175 psig; operating temperatures, 33°F to 140°F. Approved ASE 1047, FM, UL Classified, USC's FCCC&HR. Sizes 3" to 10"

4A-500 SERIES - MODEL PVB4A



Bronze body pressure vacuum breaker with internal freeze relief valve and captured spring cartridge. Features Apollo® ball valve shutoffs with stainless steel handles and trim. Full USC-FCCC & HR, ASSE, and CSA approvals. Sizes 1/2"-2".

4W-500 SERIES – MODEL SVB4W



Spill-resistant pressure vacuum breaker (SVB) is designed to prevent contamination of potable water due to back-siphonage and is ideally suited for indoor and OEM applications supplied with continuous pressure where water discharge could cause problems. Full USC-FCCC&HR, ASSE, and CSA approvals. Sizes 1/4" to 1/2" Noryl® body.

38/38LF SERIES - MODEL AVB1



Economical, lightweight and compact protection against back-siphonage and low hazard cross connections. Meets ASSE and CSA standards; listed with IAMPO. For hot and cold water service up to 212°F at 125 psig for 1" and up to 180°F at 125 psig for 1/4"-2".

40-400 SERIES – MODEL DCAP



Bronze body dual check with atmospheric port. Noryl® poppets and stainless steel springs. ASSE and CSA approvals. Sizes: 1/2" and 3/4".



4N-300 SERIES – MODEL DUC4N



Bronze body dual check with two captured spring cartridges. ASSE and CSA approved for residential backflow protection at the water meter. Multiple connection combinations. Sizes 3/8"-1".



MODEL DUC-4FP



Bronze body dual check with two captured spring cartridges. ASSE, CSA approved and UL classified for residential fire sprinkler systems. Sizes 1", 1-1/4".



Backflow Preventers (cont'd)

DUC 40 SERIES



The Apollo Series DUC 40 Dual Check Valve prevents backflow by either backpressure or back-siphonage resulting from a cross-connection between potable water lines and substances that are objectionable, but not health-hazards.

4C-100 SERIES – MODEL CBBP



ASSE 1022 approved carbonated beverage backflow preventer. Protects against copper poisoning by preventing carbonated water from being drawn into copper pipes. All wetted components are non-toxic, corrosion resistant, and approved for use with potable water. Suitable for supply pressures to 150 psig and water temperatures from 33° to 130°F. CSA certified to NSF61 and IAPMO approved. Sizes 1/4" and 3/8".

38-502 SERIES - MODEL LFVB



Potable water backflow protection for lab faucets, community sinks, beauty salons, barber shops. ASSE, CSA approved; IAPMO listed. Brass body, polished chrome plating, stainless steel internal parts. 3/8" FNPT standard; 1/4" optional. Adapters simplify installation.

HBV2 SERIES



Apollo's HBV Hose Connection Vacuum Breakers are designed to prevent cross-connection caused by back-siphonage. They consist of a single check valve with atmospheric vacuum breaker vent. They feature a break-away set-screw for tamper-proof protection. They are not suitable for continuous pressure applications.

HBVAF2 SERIES



The Apollo Series HBVB Anti-Freeze Hose Connection Vacuum Breaker is especially designed to prevent back-siphonage on wall and yard hydrants. It features a break-away set-screw for tamper-proof protection and automatic drain for protection against freezing conditions when hose is removed. It is not suitable for continuous pressure applications.

FPV SERIES



The Apollo Series FPV Freeze Protection Valve protects backflow preventers from freezing when installed in accordance with manufacturer's instructions. All internal parts of the Freeze Protection Valve are replaceable. IAPMO listed.

HBDUC SERIES



The Apollo Series HBDUC is designed to provide an in-line testable hose connection that will prevent backflow due to back-siphonage or low head back-pressure. Each device consists of two independent checks, forced loaded in the closed position with an atmospheric vent between the checks. Threaded for hose connection at both the inlet and outlet with a break-away set screw on the inlet for tamper proof installations.

TK3 TEST KIT



These are three-valve test kits used for testing all DCV, RPZ, PVB & SVB backflow preventers. Differential pressure type with a dual scale of 0-15 psid/0-100kPa differential pressure range with a \pm 0.2 psig (Descending) accuracy. Maximum working pressure 200 psig.

TKF TEST KIT FITTING

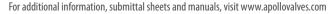


Brass fitting which installs onto Backflow Preventer Test Cocks by hand. No tools required. No Teflon® tape to deal with. Provides quicker testing. Sets of three fittings with o-rings for 1/4" SAE connections to the test kits. Packaged in a reclosable plastic bag.

TK5 TEST KIT



This is a five-valve test kit used for testing all DCV, RPZ, PVB & SVB backflow preventers. The five valve test kit is similar to the three valve kit except it has two additional valves that make it possible to bleed lines without disconnecting hoses.





Water Pressure Reducing Valves

36/36LF SERIES - MODEL PR



All bronze construction. Supply pressures to 300 psig; standard outlet range 25 to 75 psig; other pressures available. Max working temperature of 180°F. Bronze body, replaceable cartridge, built in by-pass and high-capacity stainless steel strainer. Many end connection options, union pipe end standard. Meets ASSE, CSA and ANSI standards and is listed with IAPMO. Sizes: 1/2" to 2".

36C SERIES – MODEL PRC



Compact and corrosion-resistant. Supply pressures up to 400 psig; built in by-pass relieves excessive pressure buildup. Working temperatures to 180°F, 50 psig standard factory setting; easy screw adjustment. Meets ASSE, CSA and ANSI standards and is listed with IAPMO. FNPT, sweat union, PEX, PUSH, ApolloXpress or FNPT union connections available. Sizes: 1/2" to 1".

36H/36HLF SERIES — MODEL PRH



All bronze/SS super capacity pressure reducing valves for commercial and institutional applications. Complies with ASSE and CSA standards and is listed with IAPMO. Bottom clean out plug for easy inline servicing; NPT connections standard. Flanged connection option available on 2", 2-1/2" and 3" sizes. Strainers optional. Sizes: 1/2" to 3".

A127 SERIES



Apollo control valves are ideal for a wide range of commercial and industrial applications, wherever the flow, pressure or level of liquids needs to be controlled. Hydraulically operated diaphragm main valve automatically controls non-corrosive, non-abrasive fluids by means of a wide range of pilots.

35 SERIES – MODEL FF



Bronze feed water pressure regulators; individually set at 15 psig; adjusts from 10 to 25 psig; fast fill feature; high capacity, screw in bonnet and in-line stainless steel strainer. 210°F max. temperature, max. pressure: 100 psig, 1/2" union threaded, threaded or solder union connections.

36E/36ELF SERIES - MODEL PRE



Economy, compact and corrosion-resistant. Supply pressures up to 400 psig; built in by-pass relieves excessive pressure buildup. Working temperatures to 180°F, 50 psig standard factory setting; easy screw adjustment. Meets ASSE, CSA and ANSI standards and is listed with IAPMO. FNPT, sweat union, PEX, PUSH, ApolloXpress or FNPT union connections available. Sizes: 1/2" to 1".

Thermostatic Mixing Valves

34A/34ALF SERIES – MODEL MVA



Thermostatic Mixing Valves. 34A Series ASSE 1017 certified Point of Source mixing valves are designed for hot water distribution systems; 34H Series are designed for radiant heat applications, to provide better control of hot water supply. Numbered indicator control allows easy setup and fingertip control. Available in low or high temperature range options depending on application. Integrated check valves and strainers provide added protection against cross flow & foreign particles. Thermostat over temperature protection.

34B/34BLF SERIES - MODEL MVB



Scald Protection Mixing Valves. 34B Series Dual ASSE 1017 and 1070 certified Point of Use/source mixing valves are designed to be used for single or multiple fixtures requiring flow rates as high as 17 GPM. These valves use a thermostatic element that senses outlet temperature and will compensate for fluctuating inlet temperature and pressure. The mixed water temperature range is 85°-120°F and will hold a desired temperature within ±3°F. The 34B also has an adjustable temperature limit stop to prevent the valve from being set above 120°F.



Thermostatic Mixing Valves (cont'd)

34C SERIES - MODEL MVC



Commercial High-Capacity Mixing Valves. 34C Series ASSE 1017 listed, high-capacity mixing valves are thermostatically controlled regulating valves designed for use in large commercial potable and non-potable hot water systems. Simple adjustment of water temperature from 90°-140°F or 130°-180°F.

34D/34DLF SERIES - MODEL MVD



"Point of Use" Mini-Mixer Thermostatic Valves. 34D ASSE 1070 certified mixing valves are designed to throttle both the hot and cold water inlet supplies to compensate for temperature and pressure fluctuations. The mixed water temperature range is 85°-120°F and will hold a desired temperature within ±2°F. The 34D has built in check valves, thermal actuator protection and an adjustable temperature limit stop to prevent the valve from exceeding 120°. Available with cold water by-pass option.



34E/34ELF SERIES - MODEL MVE



Apollo 34E emergency mixing valves are designed to control the cold and hot water temperature to deliver tepid water at a predetermined temperature to emergency eyewash/face wash fixtures. The 34E provides precise temperature and flow control in the event of cold water, hot water, and thermostatic element failures. Made in the USA. ASSE 1071 listed and meets ANSI/ISEA Z358.1.

34HL SERIES - MODEL MVHL



Multiple-Fixture Hi-Lo Mixing Valve. Fully ASSE 1069 and 1017 compliant, the 34HL Series protects against scalding and thermal shock by providing ±5° output temperature control for multiple fixtures in commercial and institutional settings. Patented design eliminates "dead-zones." Made in USA.

34-200 SERIES - MODEL TV



Apollo 34-200 economy thermostatic mixing valve provides non-ASSE extension of water heater capacity and hot water temperature control in hydronic heating systems. Available in low or high temperature options for floor or baseboard applications. Made in the USA. Solder sizes 1/2" and 3/4".

Vacuum Breakers

37 SERIES - MODEL VR



Brass or bronze vacuum relief valves. Max temperature: 250°F, max. water pressure: 200 psig. CSA certified. Sizes 1/2" and 3/4".

Safety & Relief Valves

10-100,200,300,400 SERIES - MODEL RVW10



Brass/bronze safety relief valves protect ASME Section IV hot water heating boilers and hydronic heating systems. High-capacity design features corrosion resistant construction. Brass, satin or polished chrome finishes available. Set pressures 20-80 psig @250°F. Sizes 3/4" male and female inlet connections.

10-512,10-322 SERIES - MODEL RVS



Compact ASME Section VIII steam service safety valves feature stainless steel springs and elastomer soft seating for dependable operation. Standard equipment on steam sterilizers, cookers and kettles. Brass, satin or polished chrome finishes. 1/2" model available with stainless steel wetted trim. Set pressures to 60 psig @ 312°F. Sizes 1/2" and 3/4".



Safety & Relief Valves (cont'd)

10-600 SERIES - MODEL RVW60



Heavy-duty bronze safety relief valves protect ASME Section IV hot water heating boilers and hydronic heating systems. High-capacity design features corrosion-resistant construction, isolating diaphragm and elastomer soft seats. Set pressures 15 to 160 psig @ 250°F. Available with standard or expanded outlet, sizes 3/4"-2".

12 SERIES – MODEL RVS12



Medium capacity safety valves protect ASME Section IV low pressure steam heating boilers. Cast bronze, full nozzle design features PTFE faced elastomer soft seating for dependable operation. Set pressures 5 to 15 psig @ 250°F. Sizes 2", 2-1/2" and 3". ASME Section IV certified. 15 psi only.

14-200 SERIES – MODEL RVS14



High-capacity safety valves for ASME Section IV low pressure steam heating boilers. One piece cast bronze body features top guided design, chrome-plated seat and PTFE-faced soft seat. Optional test gag available permits hydrostatic testing. Set pressures 5 to 15 psig @ 250°F. Sizes 2", 2-1/2" and 3". ASME Section IV certified. 15 psi only.

14-400 SERIES - MODEL RVA14



High volume air relief valves designed for low pressure non-code air and gas service. Rugged bronze construction features elastomer soft seating and Teflon coated discs for dependable operation. Used to protect low pressure compressors and tanks, high-volume blowers, and pneumatic conveying systems. Pressure settings from 4 to 22 psig @ 400°F. Sizes 2", 2-1/2" and 3".

14-600 SERIES - MODEL RVV14



High-volume vacuum relief valves feature one piece cast bronze bodies, Teflon coated discs and elastomer soft seating to provide accurate and dependable operation. Relief settings from 8 to 30" Hg @ 400°F. Sizes 2", 2-1/2", and 3".

15 SERIES – MODEL RVA15



OEM style brass barstock safety valves for air and gas service. ASME Section VIII certified. Used to protect air compressors, receivers, and instrument air systems. Stainless steel springs and viton soft seating provide superior seat tightness and vibration resistance. Set pressures to 250 psig @325°F. Sizes 1/4", 3/8", 1/2", 3/4" and 1".

16 SERIES – MODEL RVW16



Economical relief valves for general purpose non-code overpressure protection and bypass relief applications. Applications include liquid bypass or thermal expansion relief of well pumps, tanks, fire protection systems and all types of water or liquid piping systems. Bronze bodies, stainless steel springs and soft seating. Standard pressure settings from 50-175 psi. Sizes 1/2" and 3/4".

16-501 SERIES - MODEL RVW16



Adjustable relief valves protect equipment by providing low volume liquid relief or bypass control. Excess volume may be discharged back to the low pressure source. Ideal for agricultural sprayers and simple commercial or industrial pressurized systems. Adjustable 50-250 psi or 250-600 psi. Size 1/2". Seats: Nitrile or PTFE,

16-503,504 SERIES - MODEL RVW16



Calibrated pressure relief valve allows for in-line pressure adjustments without the need for pressure gauge. Provides static overpressure protection for liquid filled systems such as well pumps, tanks, and fire protection systems. Preset at 100 psig. Adjustable in 25 psig increments from 50 to 175 psig. Bronze body, inlet sizes 1/2"-3/4". Outlet size: 1/2".

17 SERIES – MODEL RVW17



Bronze pressure-only relief valves protect plumbing systems, storage tanks and tankless coil water heaters from excessive pressure. CSA certified design conforms to HUD/FHA requirements. 3/4" model is ASME Section IV certified from 75-150 psig. Stainless steel springs and elastomer soft seats are standard. Set pressures to 160 psig @ 250°F. Sizes 1/2" and 3/4".



Safety & Relief Valves (cont'd)

18C-400 SERIES - MODEL TPR

Residential T&P relief valves protect hot water heaters from excessive pressure and temperatures. CSA certified design conforms to HUD/FHA requirements. 3/4" model is ASME Section IV certified at 125 and 150 psig settings. Choice of element lengths. Available with extended body length to suit water heaters with extra thick insulation. Set pressures 125 or 150 psig @ 210°F. Sizes 1/2" and 3/4".



18C-500 SERIES – MODEL TPC

High-capacity commercial T&P relief valves protect hot water heaters from excessive pressure and temperatures. CSA certified design conforms to ASME Section IV and ANSI Z21.22 requirements. Corrosion resistant all bronze body, isolating diaphragm and screw-in cage that eliminates rusting steel screws. SS springs and thermostats. Choice of element lengths. Set pressures 125 or 150 psig @ 210°F. Sizes 3/4" through 2".

19 SERIES



Bronze high capacity safety valves for steam or air/gas service. ASME Section I and VIII certified. Protects steam boilers, pressure vessels and pressure piping systems. Standard features include stainless steel springs, tapped drain connections and Teflon soft seat for superior performance. Metal to metal seating and stainless steel trim options available. Set pressures to 300 psig @ 422°F. Sizes 1/2" through 2-1/2".

29 SERIES



Compact OEM-style bronze safety valves for steam, air/non-hazardous gas service. ASME Section I and VIII certified for use on steam boilers, sterilizers, pressure vessels and cookers. Standard features include stainless steel springs, tapped drain connections and patented Teflon soft seat for superior seat tightness. Optional stainless steel wetted trim. Set pressures to 200 psig @ 406°F. Sizes 3/8" through 1-1/4".

119 SERIES



High capacity cast iron flanged safety valves for steam or air/gas service. ASME Section I and VIII certified. Used to protect steam boilers, pressure vessels and pressure piping systems. Rugged top-guided design features flat lapped metal seating and two control rings for repeatable performance and extended service life. Stainless steel wetted trim standard sizes. Sizes 1-1/2" through 6" NPT and flanged. Set pressure to 250 psig.

510/520 SERIES



High performance bronze safety relief valves are ASME Section VIII certified for steam, air/gas and liquid service. Rugged top-guided full nozzle design features flat lapped metal seating, self aligning disc insert and a lower control ring for exceptional performance and durability. Available with a choice of brass or stainless steel trim. Wide range of options includes elastomer O-ring or PCTFE soft seating and cryogenic preparation. Set pressures to 1200 psig @ 422°F. Sizes 1/2" through 2".

530/540 SERIES



High performance industrial safety relief valves feature carbon steel or all stainless steel construction. ASME Section VIII certified for steam, air/gas and liquid service. Rugged top-guided full nozzle design features flat lapped metal seating, self aligning disc insert and a lower control ring for exceptional performance and durability. Wide range of options include elastomer O-ring, metal to metal, PCTFE and cryogenic preparation (excluding Model 530). Set pressures to 1200 psig @ 800°F. Sizes 1/2″ through 2″.

DPE SERIES



Cast iron drip pan elbows connect to the discharge outlet of steam service safety valves to safely direct the steam discharge and condensation away from the valve. Isolates the valve from piping stresses which can adversely affect valve performance. Sizes 3/4" through 8", threaded and flanged connections.



WYE Strainers

59/59LF SERIES - MODEL YB



Cast bronze body with 304 stainless steel screen; 400 CWP psig rating; wide variety of mesh screens available. Optional blowout plug tapping. Sizes: 1/8" to 4". UL listed models available in sizes 1/8" to 1/2".

59/59LF-300 SERIES – MODEL YBS



Compact corrosion resistant bronze solder end Y-strainers with stainless steel screens. Generous socket wall thickness assures high strength solder joints. Pressures to 400 CWP psig. Sizes: 1/2" to 2".

59-V SERIES – MODEL YVB



Ideal for OEM applications where space is a premium. Corrosion resistant body and cleanout cap with standard 50 mesh stainless steel screen. Other screen sizes available. Rated 400 psig at 210°F CWP and 125 psig at 350°F WSP. Sizes: 1/4″ NPT.

61203 SERIES – MODEL YSS



Cast CF8M stainless steel body with 304 stainless steel screen. Rated at 600 psig for 1124°F steam and 1440 psig for CWP. Screen cover is NPT tapped for blow-off connection. Sizes 1/2" to 1".

Apollo International Strainers

MODEL YCT



Class 250 FNPT cast iron body with 304 stainless steel screen. Rated 250 psig at 406°F steam and 400 psig at 150°F CWP. Screen cover is NPT tapped for blow-off connection. Sizes 1/4" to 3" NPT.

MODEL 125YF



Flanged cast iron bodies with 304 stainless steel screens. ANSI Class 125. Sizes from 2" to 16" and pressure ratings to 150 psig. Screen cover has a tapped and plugged blow-off connection. Optional FDA grade epoxy coating.

61202 SERIES - MODEL YCS



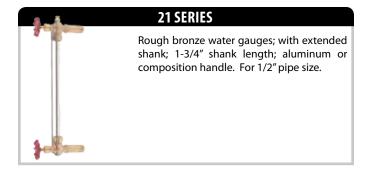
FNPT cast carbon steel body with 304 stainless steel screen. Rated at 600 psig at 839°F steam and 1480 psig at 100°F CWP. Screen cover is NPT tapped for blow-off connection.

Water Gauges



20 SERIES

Rough bronze water gauges; aluminum or composition wheel, needle drain valve in lower arm, ball checks (optional) prevent operator scalding in case of glass breakage. Chain lever and expansion tank models available. Sizes: 3/8", 1/2", and 3/4".



23 SERIES

Stainless steel direct reading water gauges. Max. working pressure: 500 psig (subject to limitation of gauge glass), aluminum or composition wheel, stainless steel ball valve drain in lower arm. Non-automatic, automatic, ASME automatic and expansion tank models. Sizes: 1/2" and 3/4".



24 SERIES

Rough bronze direct reading water gauges. ASME automatic or non-automatic models available; also available with chain lever; ball valve drain. Sizes: 1/2" and 3/4".



25 SERIES

Polished bronze and chrome plated water gauges. Aluminum or composition wheel, needle drain valve in lower arm, non-automatic and automatic models, chain lever available. Sizes: 3/8" to 3/4".

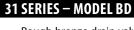
Pressure Ratings:

Pressure ratings vary by models and are subject to limitations of the valve body, gauge glass and packing materials. Refer to Water Gauge Catalog PHBRWGA for detailed information.

Custom OEM configurations available.

Contact customer service for details.

Boiler Drains





Rough bronze drain valves for water heaters or heating boilers. Pressure rated to 200 psig. Shank lengths 5/8" to 3-1/2". Pipe sizes: 1/2" and 3/4".



Air and Gas Cocks

41 SERIES - MODEL AC



Brass air cocks with "tee" handle or lever handle. Spring and nut bottom with a wide range of connections available.

54 SERIES - MODEL GCA



Gas hose-end shut-off valves. 1/8" NPT or standard tube sizes. Capacity: 56,500 Btu/hour. Pipe sizes: 3/8" to 3/4".

56 SERIES – MODEL GCP



Pilot gas cocks. 1/2 psig for 32°F to 125°F service. CSA design certified. 1/8" MNPT x various 1/4" tube connections.

GB-15, GB-16 SERIES – MODEL GBVU, GBVA



These Apollo International™ gas appliance ball valves are designed for natural gas, manufactured and mixed gas, liquefied petroleum gasses and LP gas-air mixture applications. They comply with the latest editions of ANSI, CSA, and UL published standards.

GB-10 SERIES – MODEL GBV



CSA design-certified manual shut-off ball valves for many fuel types for up to 5 psig. Capacities: 300,000 to 1.1 million BTu/hour. Standard female x female threaded connection. Sizes: 3/8" to 1".

GB-50 SERIES – MODEL GBVB



UL and CSA design-certified manual gas shut-off ball valves for many fuel types for up to 5 psig. Standard female threaded connections. Available with single or dual tapped gas ports. Sizes: 1/2" to 2".

77G-UL SERIES



77G-UL Series ball valve is a UL and CSA listed fuel shut off valve approved for a variety of flammable gasses and liquids. Bronze body, premium multi-fill MPTFE seats and stem packing. "Solid Ball" design for true full port flow. Sizes 1/2" to 1" NPT.

80 SERIES



Bronze ball valve for LP gas, natural gas, flammable liquids and heated oil. Adjustable packing gland, UL listed. Sizes 1/4" to 3".



Expansion Tanks

16-XT SERIES - MODEL EXT



Conbraco non-potable expansion tanks help maintain balanced pressure throughout a hot water heating system by absorbing thermal expansion. Pre-pressurized, they're designed to prevent system damage and unnecessary discharges by relief valves and ensure long, trouble-free system life.

40-XT SERIES – MODEL EXTP



Designed to protect potable water supply systems, appliances and piping from the hazards of thermal expansion, such as premature water heater failure. Installs easily on direct fired gas, oil and electric hot water heaters and storage tanks. Their pre-pressurized steel design includes an expansion membrane that stops any contact between the water and air in the tank.

Specialty Valves

35-FC SERIES - MODEL FCV SERIES



Bronze body flow check provides positive gravity shut-off in hydronic systems. Convenient override permits continuous circulation or drainage when required. Available with NPT or sweat connections, NPT models are both angle and horizontal checks. Expansion tank may be installed on the angle check. Maximum temperature is 250°F. Max. pressure is 125 psig.

78-600 SERIES - MODEL PBS



Purge, balance and shut-off valve, has solid brass "can't lose" cap and chain. Hose thread connection for blow off and easy purging, maximum temperature: 250°F, maximum pressure: 600 psig WOG/CWP in open position.

58 SERIES – MODEL HCB



Balancing valves for hydronic flow control; 150 psig rating. Copper tube sizes: 1/2" and 3/4".

78 RV/78LF RV SERIES - MODEL EXV



Water heater shutoff/thermal expansion control valves provide both water heater shutoff and code required thermal expansion protection. The 78-RV combination valves are offered in three pressure settings, 125, 100 and 80 psig. Available in 3/4" size with sweat, threaded and pex connections. Various relief valve connections available. CSA and IAPMO listed.

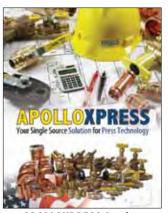
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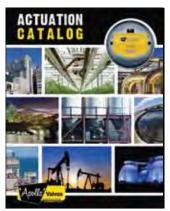
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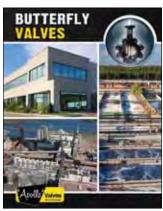
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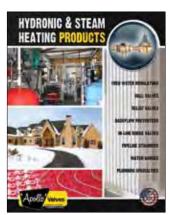
APOLLOXPRESS Catalog



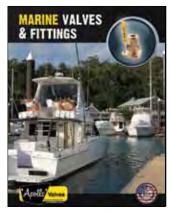
Actuation Catalog



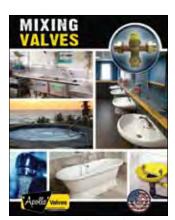
Butterfly Valve Catalog



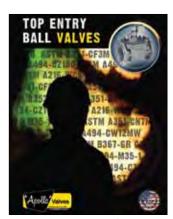
Hydronic & Steam Heating Products Catalog



Marine Catalog



Mixing Valve Catalog



Top Entry Catalog

WARRANTY AND LIMITATIONS OF LIABILITY

Conbraco Industries, Inc. warrants, to its initial purchaser only, that its products which are delivered to this initial purchaser will be of the kind described in the order or price list and will be free of defects in workmanship or material for a period of FIVE years from the date of delivery to you, our initial purchaser. This warranty applies to Apollo brand product with "Made in the USA" markings only.

Should any failure to conform to this warranty appear within **FIVE** years after the date of the initial delivery to our initial purchaser, Conbraco will, upon written notification thereof and substantiation that the goods have been stored, installed, maintained and operated in accordance with Conbraco's recommendations and standard industry practice, correct such defects by suitable repair or replacement at Conbraco's own expense.

APOLLO INTERNATIONAL PRODUCTS: Conbraco Industries, Inc. warrants its International products, to its initial purchaser only, that its international products which are delivered to this initial purchaser will be of the kind described in the order or price list and will be free of defects in workmanship or material for a period of **TWO** years from the date of delivery to you, our initial purchaser.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OF QUALITY, WHETHER EXPRESSED OR IMPLIED, EXCEPT THE WARRANTY OF TITLE AND AGAINST PATENT INFRINGEMENT. Correction of non-conformities, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of Conbraco to our initial purchaser, with respect to the goods, whether based on contract, negligence, strict tort or otherwise. It is the intention of Conbraco Industries, Inc. that no warranty of any kind, whether expressed or implied shall pass through our initial purchaser to any other person or corporation.

LIMITATION OF LIABILITY: Conbraco Industries, inc. SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES SUCH AS, BUT NOT LIMITED TO, DAMAGES OR TO LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFITS OR REVENUE, COST OF CAPITAL, COST OF PURCHASED OR REPLACEMENT GOODS, OR CLAIMS OF CUSTOMERS OF OUR INITIAL PURCHASER. THE REMEDIES OF OUR INITIAL PURCHASER, AND ALL OTHERS, SET FORTH HEREIN, ARE EXCLUSIVE, AND THE LIABILITY OF CONBRACO WITH RESPECT TO SAME SHALL NOT, EXCEPT AS EXPRESSLY PROVIDED HEREIN, EXCEED THE PRICE OF THE GOODS UPON WHICH SUCH LIABILITY IS BASED.

INTERNATIONAL SALES REPS & REGIONAL MANAGERS

		AREAS COVERED	EMAIL	PHONE	FAX	
	Conbraco International Sal	Conbraco International Sales:				
	Jose Arias	Mexico	jose.arias@conbraco.com	1-956-631-4542	1-956-631-4681	
	Luis Guzman	Puerto Rico/Caribbean	luis.guzman@conbraco.com	1-787-739-5620		
AF	JR Jefferson	Central & South America	jr.jefferson@conbraco.com	1-832-220-3783		
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NAT	Luke Liu	China	luke.liu@conbraco.com	86-411-869-02498		
瓷	Jonathan Yap	Asia	jonathan.yap@conbraco.com	65-9626-9241	65-6753-0131	
Z	Brencliff Group	Australia	petermcl@brencliff.com	61-0477-223110		
	Pegler Yorkshire Mid East	Middle East/India	pydubai@mailme.ae	971-4-454-2353	971-4-454-2352	
		Europe/Africa/Israel	Contact Customer Service	1-704-841-6000	1-704-841-6021	
	ADOLLO VALVES DECIONAL S	ALEC DIDECTORS		DO DOV 24	7 Marthaus NC 2010C	
	APOLLO VALVES REGIONAL S				7, Matthews, NC 28106	
	Brian Blalock	East	brian.blalock@conbraco.com	704-614-3744	704-841-6021	
	Skip Wilson	West	skip.wilson@conbraco.com	760-330-3293	775-854-5722	
	APOLLO VALVES REGIONAL N			757 272 6200		
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	Steve Brown	Northwest	steve.brown@conbraco.com	425-985-5095	253-862-3548	
\$2	Andy Fretz	Canada - Commercial	andy.fretz@conbraco.com	647-281-3161	905-761-6666	
흥	Ben Lauletta	Northeast	ben.lauletta@conbraco.com	518-795-4629		
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×	Hector Rivera	Florida	hector.rivera@conbraco.com	786-210-7010		
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9	Nick Shelley	South Central - Commercial	nick.shelley@conbraco.com	214-790-4157		
문	Jim Todman	Canada - Industrial	jim.todman@conbraco.com	905-407-8385	905-761-6666	
	LASCO FITTINGS IRRIGATION	REGIONAL MANAGERS			, Brownsville, TN 38012	
	David Beyer	Northeast	dbeyer@lascofittings.com	561-718-9379		
	Ron Modugno	West	rmodugno@lascofittings.com	661-910-5058	661-775-0713	
		c . 1	· Lie of Cor	724 224 2272	724 770 2600	
	Jimmy White Ben Freeman	Central	jwhite@lascofittings.com bfreeman@lascofittings.com	731-234-2372	731-779-3608	

rwilliamson@lascofittings.com

386-451-2307



Rick Williamson

Eastern Specifications Manager

^{*} It is the end user's responsibility to confirm that items intended for use satisfy local codes and standards.



SALES & CUSTOMER SERVICE: Phone: (704) 841-6000 Fax: (704) 841-6020

	AGENCY	AREAS COVERED	EMAIL	PHONE	FAX	
l 15	Mid South Marketing, Inc.	VA/MD/Washington, D.C./WV-East	michael.uecker@msmsales1.com	804-213-3801	804-213-3802	
HEAS	Pro Marketing, Inc.	NC/SC/TN-East	sales@promarketinginc.net	864-578-4334	864-578-4889 407-299-0378	
SOUT	Spirit Group Tim Morales & Associates, Inc.	FL (except Panhandle) AL/FL Panhandle	info@spiritgroupinc.com sales@timmorales.com	407-291-6035 251-602-8333	251-602-8339	
<u>ر</u>	White Wolf Group	GA	info@whitewolfgroupinc.com	800-401-4870	888-908-9372	
7	BWC Inc.	LA (Commercial Products)	chuck@bwcassoc.com	504-734-0229	504-734-3711	
SOUTHERN	Marathon Flow Control	TX, OK, KS except Northeast, LA (Industrial)	sales@marathonflowcontrol.com	214-201-0100	214-201-0104	
SOU	Southern Marketing Group	MS/TN-West/AR/Bowie CtyTX	SMG49@bellsouth.net	901-547-0042	901-547-0035	
	FourMation Sales	MN/ND/SD/WI-West	ryan@fourmationsales.com	763-420-6900	763-420-6993	
_	M I II D I II d I	NE/IA (Except River Counties)	trodeno@marshallrodeno.com	303-575-6701	303-575-6706	
MIDWESTERN REGION	Midwest Spec	Northern OH, Western PA, WV	glsales@mwspec.com	330-538-0406	330-538-0410	
WES	Midwest Spec	Southern OH, KY	rvsales@mwspec.com	513-353-9191	513-353-1589	
MID	New Tech Marketing New Tech Marketing	Northern-IL/WI-East/IN/MI-UP/IA-RiverCounties MO/Southern IL/Northeast Kansas	sales@new-techmarketing.com ntm112@aol.com	630-378-4300 618-394-0329	630-378-0343 618-394-0427	
	V.E. Sales Co., Inc.	MI (Except Upper Peninsula)	tomv@vesalesinc.com	586-774-7760	586-774-1490	
		CA - South	tduddy@elmcoduddy.com	(2(222 0042	(2)(055 4011	
	Elmco Duddy Gordon & Associates	WA, OR, AK, Northern counties ID	kenn@gordonandassoc.com	626-333-9942 907-441-7184	626-855-4811 425-228-7777	
	HC Fletcher	CA - North (AB 1953 Compliant Product & Fire Protection)		800-432-7047	949-660-9072	
O ERN	Marshall-Rodeno Associated	CO/WY/MT/ID-SE/UT/NV-NE/NM/EI Paso-TX	trodeno@marshallrodeno.com	303-575-6701	303-575-6706	
REG	Romatec	CA - North PVF (Non AB 1953)	apollo@romatec.com	877-530-3530	661-588-3534	
	Southwest Valves	CA (Waterworks)	d.burell@southwestvalve.com	559-261-2703	559-261-2711	
	Southwestern Industrial Sales Co. Spec Management Group	AZ/Nevada-SW HI	eduardop@sw-ind.com msmarch4@cox.net	480-458-5838 949-481-4225	480-458-5843 949-487-0990	
					=	
AST	Conroy & Griese Sales, Inc.	NY-East/NJ-North	iezzi52@aol.com	856-663-4440	856-663-6644	
E E E	Keith Engle & Associates Layden Company	OEM accounts NY-Upstate/PA-East/DE/NJ-South	keith.engle@verizon.net joejr@laydencompany.com	610-827-9560 610-363-6657	610-827-9561 877-529-3361	
NOF	Urell, Inc.	MA/New England States	conbraco@urell.com	617-923-9500	617-926-9414	
				544 734 0330	544 734 4440	
	Active Sales Northwest, Inc. Biz Sales Company	OR, WA, Western ID OH, KY, MI, IN, parts of PA, WV, WI	skactive@aol.com dzavelson@bizpvf.com	541-726-0320 216-595-2888	541-726-1148 216-595-2899	
	Fourmation Sales	MN/ND/SD/WI-West	dean@fourmationsales.com	763-262-4700	763-262-4740	
	Hall Marketing	AL, LA	hallmarketing@bellsouth.net	228-547-4637	228-832-6666	
PS	J&J Midwest Sales	NE, IA, MO, KS	john@jandjmidwestsales.com	314-422-8419		
RRIGATION ONLY REPS	Jim Benton & Associates	AL, FL Panhandle	jim@bentonandassoc.com	205-664-1221	205-664-1277	
ONE	John Hart Larry Perkins	FL TX - Southern	jhart@lascofittings.com lperkins@lascofittings.com	772-595-7773 936-443-1096	772-489-4305	
NO (Marel Enterprises	New England, NY, DE, MD, VA, DC, parts of PA & WV	marelenterprise@gmail.com	631-271-1718	631-427-8558	
ATI	Marshall-Rodeno Associated	CO/WY/MT/ID-SE/UT/NV-NE	trodeno@marshallrodeno.com	303-575-6701	303-575-6706	
RRIC	NSC Marketing Group Inc.	OK	nsc_tulsa@sbcglobal.net	918-627-5340	918-664-1408	
_	Pro Marketing, Inc.	NC/SC/TN-East	sales@promarketinginc.net	864-578-4334	864-578-4889	
	Sherman Dobbs Southern Marketing Group	TX - Northern MS/TN-West/AR/Bowie CtyTX	sdobbs@lascofittings.com SMG49@bellsouth.net	469-442-8510 901-547-0042	972-417-9733 901-547-0035	
	Spec Management Group	CA-South	msmarch4@cox.net	949-481-4225	949-487-0990	
	VPC Sales	AZ	chudson@vpcsales.com	661-257-3923	661-257-3928	
	APOLLO FIRE PROTECTION SYSTEM SOLUTIONS					
M	Brian Fiorisi	US	brian.fiorisi@conbraco.com	574-524-6675		
	Barclay Sales Ltd.	British Columbia	sales@barclaysales.com	604-945-1010	604-945-3030	
	Conbraco Industries, Canada	178 Pennsylvania Ave., Unit 1, Concord, Ontario L4K 4B1	conbraco.canada@conbraco.com	905-761-6161	905-761-6666	
	D & M Mechanical Sales	Ontario/East	don@dandmsales.ca	613-384-7084	613-384-3407	
•	Dynamic Agencies, Ltd. J. Levandier Sales, Inc.	Saskatchewan Nova Scotia, New Brunswick, Prince Edward	doug.dynamicage@sasktel.net	306-343-1901	306-343-1901	
⋖	J. Levaliulei Sales, IIIC.	Island & Newfoundland	service@jlevandiersales	506-858-1615	506-858-1084	
CANADA	Kern Industries, Ltd.	Alberta-North	kernind@telusplanet.net	780-451-2056	780-454-6687	
5	Kern Industries Calgary, Ltd.	Alberta-South	marty.yucytus@kernindustries.ca	403-730-7791	403-239-8179	
	Key to the North Sales Agency, Inc.	Ontario-North	hmehes@keytothenorth.ca	705-524-6714	705-566-0148	
	Task Controls, Inc.	Ontario Manitoha /NW Ontario	infotoronto@taskcontrols.com	416-291-3004	416-754-3481	
9	Tom Beggs Agencies Ltd. Ventes Techniques Nimatec	Manitoba/NW Ontario Quebec	tba@mts.net nimatec@nimatec.com	204-953-1900 450-691-9427	204-774-6915 450-691-4949	
	Tanto Tanniques Minutes				.50 051 1515	