



APOLLOXPRESS® CATALOG

Fittings | Ball Valves | Gate, Globe, Checks & Strainers | Water Pressure Reducing Valves | Backflow Prevention



Your Single Source **Solution for Press Technology**

MIXED USE COMMERCIAL BUILDING

Applications for
APOLLOXPRESS® include:

Gym with Locker Room
and Showers

Doctor's Office

Dentist's Office

Spa w/ Laundry Room

Cafeteria

Mechanical Room

Ball Valves
RP Backflow Preventers
Pressure Reducing Valves
Balancing Valves
Gate Valves
Globe Valves
Check Valves
Wye Strainers
Small & Large Diameter Fittings



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



The principle behind

APOLLOXPRESS®

APOLLOXPRESS® fittings achieve a sound joint through the exertion of pressure from a press-fit tool. A specially designed EPDM o-ring within the collar of the fitting provides the mechanism by which a permanent seal is created. Once the copper tube is fully inserted into the fitting, the jaws of the press-fit tool are placed around the collar. With the jaws at a 90 degree angle to the fitting, the press-fit tool is activated and the jaws compress the o-ring tightly onto the copper tube, creating a strong and reliable joint. Compatible with most commercially-available press-fit tools.

The **APOLLOXPRESS®** Advantage

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.

APOLLOXPRESS® products are manufactured in the **USA** by Apollo Valves and Elkhart products. Together we proudly employ 2,000 **hard working Americans**. With 9 locations in the US and a US-based supply chain that touches another 3,500 American Workers, we bring you an extensive line of quality American Made products at competitive prices.

Meet the **APOLLOXPRESS®**

Small Diameter Fittings



Available in Sizes 1/2" to 2"

Ball Valves



Available in Sizes 1/2" to 2"

Gate, Globe, Checks & Strainers



Available in Sizes 1/2" to 2"

FEATURES & BENEFITS

- Valves are available in standard or Lead Free materials
 - Fittings are Lead Free
 - Leak Before Press® technology*
 - Clean, professional looking installations
 - Pre-lubricated for ease of installation
 - Ideal for new construction, service and repair
 - No wire brush, flux, or solder required
 - No preparation procedures or adhesive curing times
 - No unsightly flame tarnish or solder build-up
 - EPDM o-ring seal
- *Exception - 64WC

Material Compatibility

APOLLOXPRESS® fittings are designed to operate at temperatures from 0° to 250°F at a maximum working pressure of 200 psi. APOLLOXPRESS® fittings are designed for use with ASTM B88 hard drawn and annealed Copper tube, type K, L, or M, in the 1/2" to 4" size range. Valves are rated at 250 psig unless otherwise noted.

Approvals

APOLLOXPRESS® products have been designed to meet the most rigorous industry standards. Numerous approvals are available including ANSI NSF 61, IAPMO, CSA, ASSE, USC, and Lead Free. See individual submittal sheets for specific approvals.

Your Single Source Solution for Press Technology



Heat & Flame Free

Eliminates fire hazard – no need for heat and open flame.



Clean, Fast and Simple

No glues, fluxes or solder needed. Installs in less than a minute for most sizes.



Single Source

All the press you need, all from one single source.

family of products.

Water Pressure Reducing Valves



Available in Sizes 1/2" to 2"

Backflow Prevention



Available in Sizes 1/2" to 2"

Large Diameter Fittings



Available in Sizes 2 1/2" to 4"

Ball Valves



Contractor quality press ball valves in sizes ½" - 2" feature full port design, bronze bodies and numerous handle and trim options. NSF 61-8 Listed for brass or bronze. Press connections incorporate *Leak Before Press*® technology. Lead Free option available. **Made in the USA.**

Also available Apollo International™ brass XLC Press models in sizes 2 ½", 3" and 4".

APOLLOXPRESS®

Your Single Source Solution for Press Technology

77V SERIES

Press End Forged Ball Valve

APOLLOXPRESS®

DESCRIPTION:

The APOLLOXPRESS® 77V Series two-piece press ball valve is ideal for installation in most plumbing and heating systems. Features Leak Before Press® technology and 250 psig maximum working pressure. Proudly Made in the USA.

FEATURES:

- Full-Port Flow
- Superior RPTFE Seats and Packing
- Adjustable Stem Packing
- Ridgid® XL Press Tool Compatible
- Leak Before Press™ Technology
- Blow-Out Proof Stem
- Corrosion Resistant Materials
- Silicone Free Assembly
- 100% Factory Tested
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING:

- Maximum Operating Pressure 250 psi
- Temperature Range: 0°F - 250°F

APPROVALS:

- MSS SP-110 Ball Valves
- NSF/ANSI 61 Section 8
- IAPMO IGC-157 Ball Valves
- Directive 2011/65/CE (RoHS) Compliant

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	Lead Free Brass, C27451
Seat	RPTFE
Ball	Lead Free Brass, C27451, Chrome Plated
Stem Packing	RPTFE
Nut	Corrosion Resistant Plated Steel
Stem	Lead Free Brass, C27451
Retainer	Lead Free Brass, C27451
Handle	Plated Steel / Insulated Polyvinyl
Gland	Brass, ASTM B16, C36000
O-Ring Seals	EPDM

APPROVED APPLICATIONS:

- Water, chilled and hot: 33° - 250°F
- Hydronic Heating (90% glycol max)
- Low Pressure Steam, 15 psi max
- Not suitable for flammable gas service
- Designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition.
- Not compatible with soft annealed copper tubing.

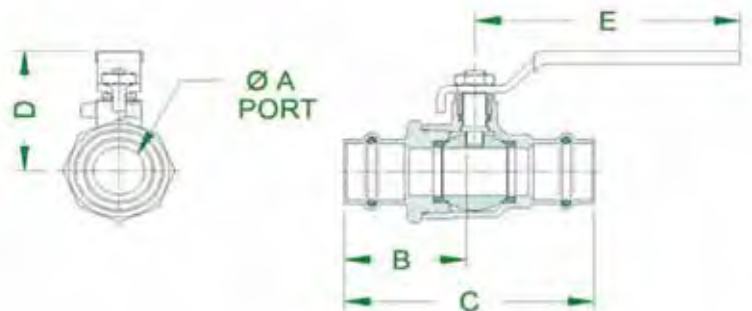


Available July 2013



DIMENSIONS (IN)

Part Number	Size	A	B	C	D	E	Wt (lbs.)
77V10301	1/2"	0.50	1.57	2.89	1.66	2.85	0.4
77V10401	3/4"	0.75	1.90	3.63	1.91	3.86	0.9
77V10501	1"	1.00	2.20	3.88	2.11	3.86	1.2
77V10601	1-1/4"	1.25	2.23	4.22	2.44	4.75	2.3
77V10701	1-1/2"	1.50	2.84	5.45	2.91	5.42	3.4
77V10801	2"	2.00	3.40	6.57	3.69	7.77	6.0



OPTIONS

- (-01) Standard Lever Handle
- (-04) 2 1/4" Stem Extension
- (-07) Tee Handle
- (-11) Thermo-Seal™ Insulating Tee Handle
- (-27) Locking Handle
- 77V140 Series – SS Ball & Stem



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

www.apollovalves.com

APOLLO VALVES Customer Service (704) 841-6000



77VLF SERIES

Lead Free Press End Forged Ball Valve

APOLLOXPRESS®

DESCRIPTION:

The **Lead Free*** APOLLOXPRESS® 77VLF Series press ball valve 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.

FEATURES:

- Lead Free*, ANSI 3rd Party Certified and Listed
- Full-Port Flow
- Adjustable Stem Packing
- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Blow-Out Proof Stem
- Corrosion Resistant Materials
- Silicone Free Assembly
- 100% Factory Tested
- Ridgid® XL Press Tool Compatible
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING:

- Maximum Operating Pressure 250 psi
- Temperature Range: 0°F - 250°F

APPROVALS:

- MSS SP-110 Ball Valves
- NSF/ANSI 61
- NSF/ANSI 372
- IAPMO IGC-157 Ball Valves
- Directive 2011/65/CE (RoHS) Compliant

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	Lead Free Brass, C27451
Seat	RPTFE
Ball	Lead Free Brass, C27451 (Plated)
Stem Packing	RPTFE
Nut	Corrosion Resistant Plated Steel
Stem	Lead Free Brass, C27451
Retainer	Lead Free Brass, C27451
Handle	Plated Steel / Insulated Polyvinyl

* **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. ANSI 3rd party approved and listed.

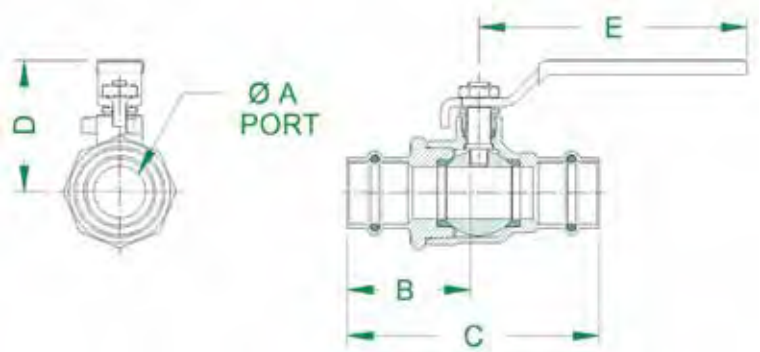


Now Available!



DIMENSIONS (IN)

Part Number	Size	A	B	C	D	E	Wt (lbs.)
77VLF10301	1/2"	0.50	1.57	2.89	1.66	2.85	0.4
77VLF10401	3/4"	0.75	1.90	3.63	1.91	3.86	0.9
77VLF10501	1"	1.00	2.20	3.88	2.11	3.86	1.2
77VLF10601	1-1/4"	1.25	2.23	4.22	2.44	4.75	2.3
77VLF10701	1-1/2"	1.50	2.84	5.45	2.91	5.42	3.4
77VLF10801	2"	2.00	3.40	6.57	3.69	7.77	6.0



OPTIONS

- (-01) Standard Lever Handle
 - (-04) 2 1/4" Stem Extension
 - (-07) Tee Handle
 - (-11) Therma-Seal™ Insulating Tee Handle
 - (-27) Locking Handle
- 77VLF140 Series – SS Ball & Stem



77W SERIES

Press End Bronze Ball Valve

APOLLOXPRESS®

DESCRIPTION:

The APOLLOXPRESS® 77W Series 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.

FEATURES:

- Full-Port Flow
- Adjustable Stem Packing
- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Blow-Out Proof Stem
- Corrosion Resistant Materials
- 100% Factory Tested
- Silicone Free
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING:

- Maximum Operating Pressure 250 psi
- Temperature Range: 0°F - 250°F

APPROVALS:

- MSS SP-110 Ball Valves
- NSF/ANSI 61 Section 8
- Directive 2011/65/CE (RoHS) Compliant

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	Cast Bronze C89836
Seat	Multi-Fill PTFE
Ball	ASTM B16 Brass, plated
Stem Packing	Multi-Fill PTFE
Nut	Corrosion Resistant Plated Steel
Stem	Brass, ASTM B16, UNS# C36000
Retainer	Brass, ASTM B16, UNS# C36000
Handle	Plated Steel/Insulated Polyvinyl
Gland	Brass, ASTM B16, UNS# C36000
O-Ring Seals	EPDM

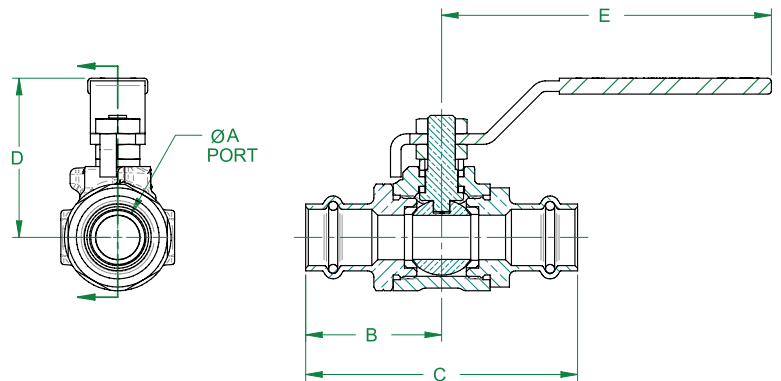
APPROVED APPLICATIONS:

- Water, chilled and hot: 33° - 250°F
- Hydronic Heating (90% glycol max)
- Low Pressure Steam, 15 psi max
- Not suitable for flammable gas service
- Designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition.
- Not compatible with soft annealed copper tubing.



DIMENSIONS (IN)

Part Number	Size	A	B	C	D	E	Wt (lbs.)
77W-103-01	1/2"	0.50	1.54	3.08	1.50	3.74	0.6
77W-104-01	3/4"	0.75	1.78	3.55	2.01	4.78	1.1
77W-105-01	1"	1.00	1.93	3.86	2.20	4.78	1.8
77W-106-01	1-1/4"	1.25	2.44	4.87	3.13	7.04	4.3
77W-107-01	1-1/2"	1.50	2.91	5.81	3.10	7.04	4.6
77W-108-01	2"	2.00	3.74	7.47	3.48	7.04	8.2



OPTIONS

- (-04) 2 1/4" Stem Extension
- (-07) Tee-Handle
- (-10) Stainless Steel Handle and Nut
- (-11) Thermo-Seal™ Insulating Tee Handle
- (-92) Standard Lever with Balancing Stop
- (-94) 2 1/4" Stem Extension and Balancing Stop
- (-HC) Press x 3/4" Hose w./ Cap & Chain (1/2 & 3/4")
- (77W-140 Series) S.S. Ball and Stem
- (77WLF Series) Lead Free (0.25% Lead Max)



www.apollovalves.com

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

77WLF SERIES

Lead Free Press End Bronze Ball Valve

APOLLOXPRESS®

DESCRIPTION:

The **Lead Free*** APOLLOXPRESS® 77WLF 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"-2". The 77WLF is ideal for installation in potable water systems requiring NSF 61 or **Lead Free*** approval. Now with Leak Before Press® feature and 250 psig maximum working pressure.

FEATURES:

- Lead Free* Brass & Bronze Materials
- Easily Identifiable Blue Lead Free Hang Tag
- Full-Port Flow
- Adjustable Stem Packing
- Fast, Reliable, Economical Press Installation
- Leak Before Press® Technology
- Corrosion Resistant Materials
- 100% Factory Tested
- Ridgid® XL Press Tool Compatible
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING:

- Maximum Operating Pressure 250 psi
- Temperature Range: 0°F - 250°F

APPROVALS:

- MSS SP-110 Ball Valves
- NSF/ANSI 61-8 2010, Annex F & G Lead Free*
- ANSI 3rd Party Approval to AB 1953 0.25% Lead Max.
- NSF 372

MATERIAL SPECIFICATIONS:

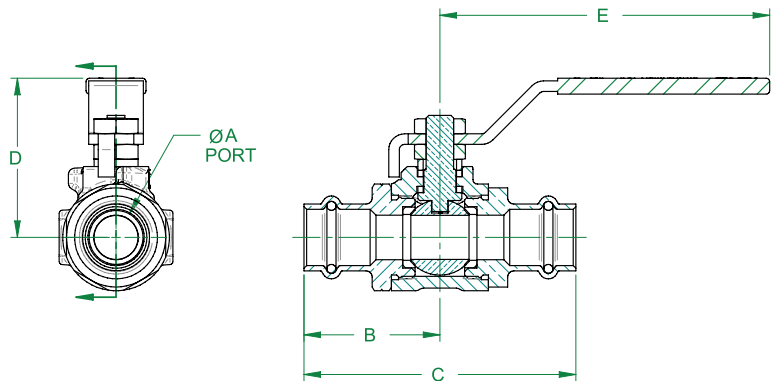
Part Name	Material
Body	ASTM B584 C89836
Seat	Multi-Fill PTFE
Ball	C27451 Brass, Chr. Plated
Stem Packing	Multi-Fill PTFE
Nut	Zinc Plated Steel
Stem	C27451 Brass
Retainer	C27451 Brass
Handle	Plated Steel / Insulated Polyvinyl
Gland	Brass, ASTM B16, C36000
O-Ring	EPDM

* **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. ANSI 3rd party approved and listed.



DIMENSIONS (IN)

Part Number	Size	A	B	C	D	E	Wt (lbs.)
77WLF10301	1/2"	0.50	1.54	3.08	1.50	3.74	0.61
77WLF10401	3/4"	0.75	1.78	3.55	2.01	4.78	1.09
77WLF10501	1"	1.00	1.93	3.86	2.20	4.78	1.77
77WLF10601	1-1/4"	1.25	2.44	4.87	3.13	7.04	4.27
77WLF10701	1-1/2"	1.50	2.91	5.81	3.10	7.04	4.63
77WLF10801	2"	2.00	3.74	7.47	3.48	7.04	8.21



OPTIONS**

- (-04) 2 1/4" Stem Extension
- (-07) Tee-Handle
- (-10) Stainless Steel Handle and Nut
- (-11) Therma-Seal™ Insulating Tee Handle
- (-92) Standard Lever with Balancing Stop
- (-94) 2 1/4" Stem Extension and Balancing Stop
- (77WLF-140 SERIES) S.S. Ball and Stem

** Consult factory for availability of LF Model options



77W-HC SERIES

Ball Valve w/Press X Hose Connection **APOLLOXPRESS®**

DESCRIPTION:

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 thread 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.

FEATURES:

- Full-Port
- Ridgid® "XL" Press Tool Compatible
- Adjustable Stem Packing
- Fast, Reliable, Economical Press Installation
- Leak Before Press® Technology
- Dezincification Resistant Bronze Body
- Heavy duty brass cap is full pressure rated
- 100% Factory Tested
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING:

- Maximum Operating Pressure 250 psi
- Maximum Temperature 250°F

APPROVALS:

- MSS SP-110 Ball Valves
- NSF/ANSI 61-8
- Directive 2011/65/CE (RoHS) Compliant

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	ASTM B584 C89836 Bronze
Seat	Multi-Fill PTFE
Ball	ASTM B16 Brass, plated
Stem Packing	Multi-Fill PTFE
Nut	Corrosion Resistant Plated Steel
Stem	Brass, ASTM B16, UNS# C36000
Retainer	Brass, ASTM B16, UNS# C36000
Cap	Brass, ASTM B16, UNS# C36000
Handle	Plated Steel/Insulated Polyvinyl
Gland	Brass, ASTM B16, UNS# C36000
O-Ring Seals	EPDM

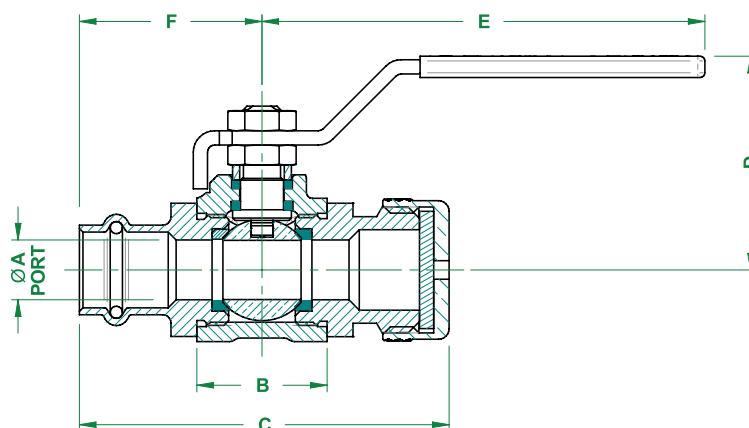
APPROVED APPLICATIONS:

- Water, chilled and hot: 33° - 250°F
- Hydronic Heating (90% glycol max)
- Not suitable for flammable gas service
- Designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition.
- Not compatible with soft annealed copper tubing.



DIMENSIONS (IN)

Part Number	Size	A	B	C	D	E	F	Wt (lbs.)
77W103HC	1/2"	0.50	1.54	3.12	1.80	3.74	1.54	0.61
77W104HC	3/4"	0.75	1.72	3.45	2.01	4.78	1.78	1.16



OPTIONS

- (-04) 2 1/4" Stem Extension
- (-07) Tee-Handle
- (-10) Stainless Steel Handle and Nut
- (-11) Thermo-Seal™ Insulating Tee Handle
- (-92) Balancing Stop
- (-94) 2 1/4" Stem Extension and Balancing Stop
- (77WLF-140-HC SERIES) S.S. Ball and Stem
- (77WLF-HC SERIES) Lead Free 0.25% Lead Max



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



77WLF-HC SERIES

Lead Free Ball Valve w/Press X Hose Connection **APOLLOXPRESS®**

DESCRIPTION:

The APOLLOXPRESS® Lead Free* Press x Hose Cap & Chain ball valves are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Valves feature a 3/4" hose connection with heavy brass cap to protect the threads. The 77WLF-HC is ideal for most plumbing and heating systems, including potable water. Now with Leak Before Press® feature and 250 psig maximum working pressure.

FEATURES:

- Full-Port
- Adjustable Stem Packing
- Fast, Reliable, Economical Press Installation
- Leak Before Press® Technology
- Lead Free* Brass & Bronze Materials
- Heavy brass cap is full pressure rated
- Easily Identifiable Blue "Lead Free" Hang Tag
- Ridgid® "XL" Press Tool Compatible
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING:

- Maximum Operating Pressure 250 psi
- Temperature Range 0°F - 250°F

APPROVALS:

- MSS SP-110 Ball Valves
- NSF/ANSI 61-8
- ANSI 3rd Party Approval to 0.25% Lead Max.
- NSF 372

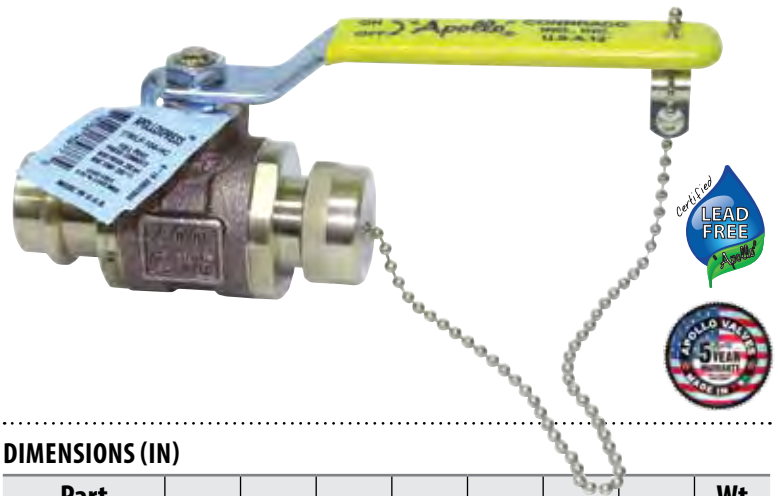
MATERIAL SPECIFICATIONS:

Part Name	Material
Body	C89836 Lead Free* Bronze
Seat	Multi-Fill PTFE
Ball	C27451 Lead Free* Brass Cr. Plated
Stem Packing	Multi-Fill PTFE
Nut	Corrosion Resistant Plated Steel
Stem	C27451 Lead Free* Brass
Retainer	C27451 Lead Free* Brass
Cap	C27451 Lead Free* Brass
Handle	Plated Steel/Insulated Polyvinyl
Gland	Brass, ASTM B16, UNS# C36000
O-Ring	EPDM

APPROVED APPLICATIONS:

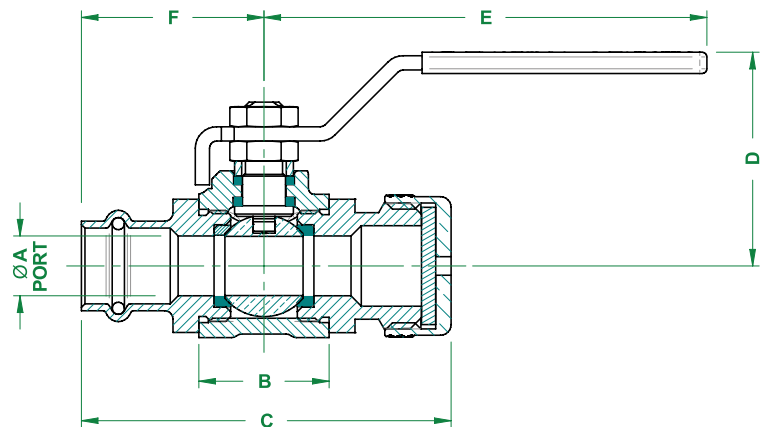
- Water, including Potable Water
- Hydronic Heating (90% glycol max)
- Not compatible with soft annealed copper tubing

* **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. ANSI 3rd party approved and listed.



DIMENSIONS (IN)

Part Number	Size	A	B	C	D	E	F	Wt (lbs.)
77WLF103HC	1/2"	0.50	1.54	3.12	1.80	3.74	1.54	0.61
77WLF104HC	3/4"	0.75	1.72	3.45	2.01	4.78	1.78	1.16



OPTIONS

- (-04) 2 1/4" Stem Extension
- (-07) Tee-Handle
- (-10) Stainless Steel Handle and Nut
- (-11) Therma-Seal™ Insulating Tee Handle
- (-92) Balancing Stop
- (-94) 2 1/4" Stem Extension and Balancing Stop
- (77WLF-14x-HC Series) S.S. Ball and Stem



64WC SERIES

Ball Valve

DESCRIPTION:

The Apollo International™ 64WC APOLLO-PRESS® 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 2-1/2", 3 and 4". The valve is ideal for general plumbing and heating applications.

FEATURES:

- Full-Port
- Adjustable Stem Packing
- Blow-Out Proof Stem
- Dezincification Resistant Brass Body
- 100% Factory Tested
- Ridgid® XL-C Press Tool Compatible

PERFORMANCE RATING:

- Maximum Operating Pressure based on Press Connection : 200 psi
- Valve Design Rating: 600 CWP
- Temperature Range 0°F-250°F

APPROVALS:

- MSS SP-110 Ball Valves

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	Brass CW 602N
Retainer	Brass CW 602N
Ball	Brass CB 763-S Plated
Stem	Brass CW 614N
Packing Gland	Brass CW 614N
Compression Ring	Steel
Handle	Steel Plated
Seats	PTFE
Stem Seal/Thrust Washer	PTFE
Stem Seal	PTFE
Stem O-Ring	NBR
O-Ring	EPDM
Nuts	Steel Plated

APPROVED APPLICATIONS:

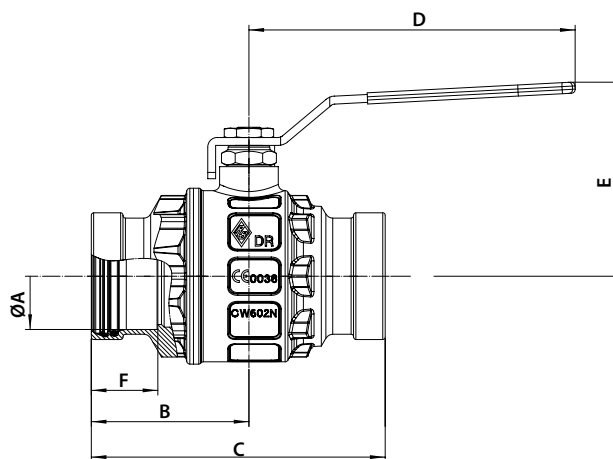
- Water including Potable Water
- Hydronic Heating (50% glycol max)
- Not compatible with soft annealed copper tubing

APOLLO INTERNATIONAL™ APOLLO-PRESS®



DIMENSIONS (IN)

Part Number	Size	ØA	B	C	D	E	F	Wt (lbs.)
64WC0901	2-1/2"	2.40	3.94	7.30	8.07	5.08	1.65	9.0
64WC0001	3"	2.87	4.63	8.60	8.07	5.51	1.97	14.6
64WC0A01	4"	3.82	5.30	10.26	10.24	6.30	3.42	22.5



OPTIONS

Optional Kits Valve Size	2" Stem Extensions	Lever Handles
2-1/2" - 3"	78150501	78165002
4"	—	78165102

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



Cast bronze 200 CWP gate, globe, and swing check valves, in press sizes $\frac{1}{2}$ " to 2", feature materials and workmanship that conform to MSS-SP80. Rising and non-rising stem models feature solid bronze wedge disc gates, and bronze or PTFE seated globes and checks. Also available are bronze wye strainers and in-line check valves with RPTFE Ball Cone® seating. Press connections incorporate *Leak Before Press*® technology. 100% factory tested. **Made in the USA.** Lead free options available.

Gate, Globe, Checks & Strainers

APOLLOXPRESS®

Your Single Source Solution for Press Technology

200 CWP Bronze RS Gate Valve

APOLLOXPRESS®

DESCRIPTION:

The APOLLOXPRESS® Model 101T-PR (30 Series) Gate 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 using proven ASTM quality materials. The Apollo rising stem Gate valve can reliably be installed in most plumbing and heating systems including building service piping and OEM applications.

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Full Port Flow
- Guided Solid Bronze Disc
- Adjustable Graphite Stem Packing
- Rising Stem
- Screw-in Bonnet
- Rugged Malleable Iron Hand Wheel
- Back seat protection
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING†:

- Maximum Pressure: 200 psi (13.8 bar) non-shock
- Temperature Range: 0°F - 250°F (-18°C - 121°C)
- Low Pressure Steam - Max. working pressure: 15 psi

† APOLLOXPRESS® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Press connectors are not suitable for steam or flammable gas service.

STANDARDS

- MSS SP-80, "Bronze Gate, Globe, Angle & Check Valves",
- Canadian Registration Number OC14667.5

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	ASTM B62 –C83600 Bronze
Bonnet	ASTM B62 –C83600 Bronze
Connector Housing	ASTM B16 –C36000 Brass
Connector O-Ring	NSF grade EPDM
Stem	ASTM B371 C69400 Bronze
Disc	ASTM B62 –C83600 Bronze
Packing	Grafoil
Hand Wheel	Malleable Iron
Nameplate	Aluminum



DIMENSIONS (IN)

Pipe Size	Dimensions (in.)		Wt (lbs)	Cv (gpm)
	Height (open)	Length		
1/2"	4.85	3.9	1.3	12.5
3/4"	5.71	4.3	1.8	24.0
1"	6.71	4.7	2.6	72.3
1-1/4"	8.1	5.13	3.8	80.0
1-1/2"	9.08	6.12	5.4	119.0
2"	11.28	6.70	8.5	338.0

For liquids, the flow coefficient - Cv - expresses the flow capacity in gallons per minute (GPM) of 60°F water with a pressure drop of 1 psi (lb/in²).

ORDERING INFORMATION

Size	Model Number	Item Number
1/2"	101T12PR	30-003-01PR
3/4"	101T34PR	30-004-01PR
1"	101T1PR	30-005-01PR
1-1/4"	101T114PR	30-006-01PR
1-1/2"	101T112PR	30-007-01PR
2"	101T2PR	30-008-01PR



101T-PRLF

Lead Free 200 CWP Bronze RS Gate Valve

APOLLOXPRESS®

DESCRIPTION:

The **Lead Free*** APOLLOXPRESS® Model 101T-PRLF (30LF Series) Gate valve with press connectors is a proven combination that provides economical installation and reliable service for potable water applications. These valves are cast, machined, assembled, and tested in South Carolina using proven ASTM quality materials.

FEATURES:

- ANSI 3rd Party Certified Lead Free*
- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Full Port Flow
- Guided Solid Lead Free* Bronze Disc
- Adjustable Graphite Stem Packing
- Rising Stem
- Screw-in Bonnet
- Rugged Malleable Iron Hand Wheel
- Back seat protection
- **Made in USA**, ARRA Compliant

STANDARDS

- MSS SP-139, "Copper Alloy Gate, Globe, & Check Valves"
- ANSI/NSF 61-8 2010, Annex F & G Lead Free
- Canadian Registration Number OC14667.5
- NSF 372

PERFORMANCE RATING†:

- Maximum Pressure: 200 psi (13.8 bar) non-shock
- Temperature Range: 0°F - 250°F (-18°C - 121°C)
- Low Pressure Steam - Max. working pressure: 15 psi

† APOLLOXPRESS® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Press connectors are not suitable for steam or flammable gas service.

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	ASTM B584-C89836 Bronze
Bonnet	ASTM B584-C89836 Bronze
Connector Housing	C27451 Brass
Connector O-Ring	NSF grade EPDM
Stem	ASTM B371 C69400 Bronze
Disc	ASTM B584-C89836 Bronze
Packing	Grafoil
Hand Wheel	Malleable Iron
Nameplate	Aluminum

* **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. ANSI 3rd party approved and listed.



DIMENSIONS (IN)

Pipe Size	Dimensions (in.)		Wt (lbs)	Cv (gpm)
	Height (open)	Length		
1/2"	4.85	3.9	1.3	12.5
3/4"	5.71	4.3	1.8	24.0
1"	6.71	4.7	2.6	72.3
1-1/4"	8.1	5.13	3.8	80.0
1-1/2"	9.08	6.12	5.4	119.0
2"	11.28	6.70	8.5	338.0

For liquids, the flow coefficient - Cv - expresses the flow capacity in gallons per minute (GPM) of 60°F water with a pressure drop of 1 psi (lb/in²).

ORDERING INFORMATION

Size	Model Number	Item Number
1/2"	101T12-PRLF	30LF-00301PR
3/4"	101T34-PRLF	30LF-00401PR
1"	101T1-PRLF	30LF-00501PR
1-1/4"	101T114-PRLF	30LF-00601PR
1-1/2"	101T112-PRLF	30LF-00701PR
2"	101T2-PRLF	30LF-00801PR



200 CWP Bronze NRS Gate Valve

APOLLOXPRESS®

DESCRIPTION:

The APOLLOXPRESS® Model 102T-PR (30 Series) Gate 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 Gate valve can reliably be installed in most plumbing and heating systems or building service piping and OEM applications.

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Guided Solid Bronze Disc
- Adjustable Graphite Stem Packing
- Non-Rising Stem
- Dezincification Resistant
- All Bronze Construction
- 100% Factory tested per MSS standard
- Screw-in Bonnet
- Rugged Malleable Iron Hand Wheel
- Back seat protection
- **Made in USA**, ARRA Compliant

STANDARDS

- MSS SP-80, "Bronze Gate, Globe, Angle & Check Valves"
- Canadian Registration Number OC14667.5

PERFORMANCE RATING†:

- Maximum Pressure: 200 psi (13.8 bar) non-shock
- Temperature Range: 0°F - 250°F (-18°C - 121°C)
- Low Pressure Steam - Max. working pressure: 15 psi

† APOLLOXPRESS® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Press connectors are not suitable for steam or flammable gas service.

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	ASTM B62 –C83600 Bronze
Bonnet	ASTM B62 –C83600 Bronze
Stem	ASTM B371 Bronze
Disc	ASTM B62 –C83600 Bronze
Connector Housing	ASTM B16 –C36000 Brass
Connector O-Ring	NSF grade EPDM
Packing	Grafoil®
Packing Nut	ASTM B16 Brass
Hand Wheel	Malleable Iron
Nameplate	Aluminum



DIMENSIONS (IN)

Pipe Size	Dimensions (in.)		Wt (lbs)	Cv (gpm)
	Height (open)	Length		
1/2"	4.85	3.9	1.3	12.5
3/4"	5.71	4.3	1.8	24.0
1"	6.71	4.7	2.6	72.3
1-1/4"	8.1	5.13	3.8	80.0
1-1/2"	9.08	6.12	5.4	119.0
2"	11.28	6.70	8.5	338.0

ORDERING INFORMATION

Size	Model Number	Item Number
1/2"	102T12PR	30-033-01PR
3/4"	102T34PR	30-034-01PR
1"	102T11PR	30-035-01PR
1-1/4"	102T114PR	30-036-01PR
1-1/2"	102T112PR	30-037-01PR
2"	102T2PR	30-038-01PR

Valves should be in the open position to allow complete drainage during freezing conditions.



102T-PRLF

Lead Free 200 CWP Bronze RS Gate Valve

APOLLOXPRESS®

DESCRIPTION:

The **Lead Free*** APOLLOXPRESS® Model 102T-PRLF (30LF Series) Gate valve with Press connectors is a proven combination that provides economical installation and reliable service for potable water applications. These valves are cast, machined, assembled, and tested in South Carolina using proven ASTM quality materials.

FEATURES:

- Fast, Easy, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Full Port
- Guided Solid Bronze Disc
- Adjustable Graphite Stem Packing
- Non-Rising Stem
- "Lead-Free" AB1953 Certified
- 100% Factory tested per MSS
- Screw-in Bonnet
- Rugged Malleable Iron Hand Wheel
- Back seat protection
- **Made in USA**, ARRA Compliant

STANDARDS

- MSS SP-139, "Copper Alloy Bronze Gate, Globe, Angle & Check Valves"
- NSF/ANSI 61-8 2010, Annex F & G Lead Free*
- NSF 372

PERFORMANCE RATING†:

- Maximum Pressure: 200 psi (13.8 bar) non-shock
- Temperature Range: 0°F - 250°F (-18°C - 121°C)
- Low Pressure Steam - Max. working pressure: 15 psi

† APOLLOXPRESS® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Press connectors are not suitable for steam or flammable gas service.

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	ASTM B584-C89836 Bronze
Bonnet	ASTM B584-C89836 Bronze
Stem	ASTM B371 Bronze
Disc	ASTM B584-C89836 Bronze
Packing	Grafoil®
Packing Nut	ASTM B16 Brass
Hand Wheel	Malleable Iron
Nameplate	Aluminum

* **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. ANSI 3rd party approved and listed.



DIMENSIONS (IN)

Pipe Size	Dimensions (in.)		Wt (lbs)	Cv (gpm)
	Height (open)	Length		
1/2"	4.85	3.9	1.3	12.5
3/4"	5.71	4.3	1.8	24.0
1"	6.71	4.7	2.6	72.3
1-1/4"	8.1	5.13	3.8	80.0
1-1/2"	9.08	6.12	5.4	119.0
2"	11.28	6.70	8.5	338.0

** Cv = flowrate at 1.0 psid.

ORDERING INFORMATION

Size	Model Number	Item Number
1/2"	102T12-PRLF	30LF-03301PR
3/4"	102T34-PRLF	30LF-03401PR
1"	102T11-PRLF	30LF-03501PR
1-1/4"	102T114-PRLF	30LF-03601PR
1-1/2"	102T112-PRLF	30LF-03701PR
2"	102T2-PRLF	30LF-03801PR

Valves should be in the open position to allow complete drainage during freezing conditions.



120T-PR

200 CWP Bronze Globe Valve

DESCRIPTION:

The APOLLOXPRESS® Model 120T-PR (33 Series) 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).

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Optimum Flow Capacity
- PTFE Soft Seat
- Adjustable Graphite Stem Packing
- Dezincification Resistant
- 100% Factory tested per MSS standard
- Screw-in Bonnet
- Rugged Malleable Iron Hand Wheel
- Back seat protection
- **Made in USA**, ARRA Compliant

STANDARDS

- MSS SP-80, "Bronze Gate, Globe, Angle & Check Valves",
- Canadian Registration Number OC14667.5

PERFORMANCE RATING†:

- Maximum Pressure: 200 psi (13.8 bar) non-shock
- Temperature Range: 0°F - 250°F (-18°C - 121°C)
- Low Pressure Steam - Max. working pressure: 15 psi

† APOLLOXPRESS® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Press connectors are not suitable for steam or flammable gas service.

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	ASTM B62 Bronze
Bonnet	ASTM B62 Bronze
Stem	ASTM B371 Bronze
Disc	PTFE
Packing	Grafoil®
Hand Wheel	Malleable Iron
Nameplate	Aluminum
Connector Housing	ASTM B16 Brass
Connector O-Ring	NSF grade EPDM

APOLLOXPRESS®



DIMENSIONS (IN)

Pipe Size	Dimensions (in.)		Wt (lbs)	Cv (gpm)
	Height (open)	Length (in.)		
1/2"	3.47	4.5	1.1	4.4
3/4"	4.75	5.9	1.9	7.4
1"	5.40	7.0	3.0	12.1
1-1/4"	7.80	8.5	7.8	29.0
1-1/2"	7.80	9.2	7.8	30.0
2"	8.43	10.8	11.3	49.0

ORDERING INFORMATION

Size	Model Number	Item Number
1/2"	120T12PR	33-133-01PR
3/4"	120T34PR	33-134-01PR
1"	120T1PR	33-135-01PR
1-1/4"	120T114PR	33-136-01PR
1-1/2"	120T112PR	33-137-01PR
2"	120T2PR	33-138-01PR

Valves should be in the open position to allow complete drainage during freezing conditions.



www.apollovalves.com

APOLLO VALVES Customer Service (704) 841-6000



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

120T-PRLF

Lead Free 200 CWP Bronze Globe Valve

APOLLOXPRESS®

DESCRIPTION:

The **Lead Free*** APOLLOXPRESS® Model 120T-PRLF (33LF Series) Globe valve with press connections is a proven combination that provides economical installation and reliable service for potable water applications. These valves are cast, machined, assembled, and tested in South Carolina using proven ASTM quality materials.

FEATURES:

- ANSI 3rd party Certified "Lead-Free"
- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Optimum Flow Capacity
- PTFE Soft Seat
- Adjustable Graphite Stem Packing
- Dezincification Resistant
- 100% Factory tested per MSS standards
- Screw-in Bonnet
- Rugged Malleable Iron Hand Wheel
- Back seat protection
- **Made in USA**, ARRA Compliant

STANDARDS

- NSF/ANSI 61-8 2010, Annex F & G Lead Free
- MSS SP-139, "Copper Alloy Gate, Globe, & Check Valves"
- Canadian Registration Number OC14667.5
- NSF 372

PERFORMANCE RATING†:

- Maximum Pressure: 200 psi (13.8 bar) non-shock
- Temperature Range: 0°F - 250°F (-18°C - 121°C)
- Low Pressure Steam - Max. working pressure: 15 psi

† APOLLOXPRESS® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Press connectors are not suitable for steam or flammable gas service.

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	ASTM B584 C89836 Bronze
Bonnet	ASTM B584 C89836 Bronze
Stem	ASTM B371 C69400 Bronze
Connector Housing	C27451 Brass
Connector O-Ring	NSF grade EPDM
Disc	PTFE
Packing	Grafoil®
Hand Wheel	Malleable Iron
Nameplate	Aluminum

* **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. ANSI 3rd party approved and listed.



DIMENSIONS (IN)

Pipe Size	Dimensions (in.)		Wt (lbs)	Cv (gpm)
	Height (open)	Length (in.)		
1/2"	3.47	2.70	1.1	4.4
3/4"	4.75	3.20	1.9	7.4
1"	5.40	3.75	3.0	12.1
1-1/4"	7.78	4.74	7.3	29.0
1-1/2"	7.78	4.74	7.0	30.0
2"	8.43	5.72	10.7	49.0

ORDERING INFORMATION

Size	Model Number	Item Number
1/2"	120T12-PRLF	33LF133-01PR
3/4"	120T34-PRLF	33LF134-01PR
1"	120T11-PRLF	33LF135-01PR
1-1/4"	120T114-PRLF	33LF136-01PR
1-1/2"	120T112-PRLF	33LF137-01PR
2"	120T2-PRLF	33LF138-01PR

Valves should be in the open position to allow complete drainage during freezing conditions.



200 CWP Bronze Swing Check

APOLLOXPRESS®

DESCRIPTION:

The APOLLOXPRESS® Model 163T-PR (61Y Series) 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.

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Renewable PTFE Seat Disc
- Dezincification Resistant
- Factory tested per MSS SP-80
- **Made in USA**, ARRA Compliant

STANDARDS

- MSS SP-80, "Bronze Gate, Globe & Check Valves"
- Canadian Registration Number OC14667.5

PERFORMANCE RATING†:

- Maximum Pressure: 200 psi (13.8 bar) non-shock
- Temperature Range: 0°F - 250°F (-18°C - 121°C)
- Low Pressure Steam - Max. working pressure: 15 psi

† APOLLOXPRESS® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Press connectors are not suitable for steam or flammable gas service.

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	ASTM B62 Bronze
Cap	ASTM B62 Bronze
Connector Housing	ASTM B16 Brass
Connector O-Ring	FDA grade EPDM
Hanger	304 Stainless Steel or ASTM B62 Bronze
Pin	Stainless Steel
Seat	PTFE
Plug	ASTM B16 Brass

Precautionary Note: Not recommended for use with reciprocating pumps and similar applications, which may induce repetitious vibrations. Low flow rates which do not fully open the valve may result in undesirable noise and premature valve failure. Upstream flow disturbances, which create turbulence, may also result in rapid wear. Therefore, it is recommended that a minimum of 10 diameters of straight pipe be provided between the check valve and any upstream flow disturbances such as pumps, control valves, elbows, etc.



DIMENSIONS (IN)

Pipe Size	Dimensions (in.)		Wt (lbs)	Cv (gpm)
	Height (in.)	Length (in.)		
1/2"	1.65	4.3	.78	7.0
3/4"	1.9	5.1	1.8	12.0
1"	2.26	5.9	2.5	28.6
1-1/4"	2.99	7.0	4.4	39.0
1-1/2"	2.99	7.75	4.5	56.0
2"	3.74	8.9	7.0	152.0

For liquids, the flow coefficient - Cv - expresses the flow capacity in gallons per minute (GPM) of 60°F water with a pressure drop of 1 psi (lb/in²).

ORDERING INFORMATION

Size	Model Number	Item Number
1/2"	163T12-PR	61Y203-T1PR
3/4"	163T34-PR	61Y204-T1PR
1"	163T1-PR	61Y205-T1PR
1-1/4"	163T114-PR	61Y206-T1PR
1-1/2"	163T112-PR	61Y207-T1PR
2"	163T2-PR	61Y208-T1PR



163T-PRLF

Lead Free 200 CWP Bronze Swing Check APOLLOXPRESS®

DESCRIPTION:

The **Lead Free*** APOLLOXPRESS® Model 163T-PRLF (Series 61YLF) Swing Check with press connections is a proven combination that provides economical installation and reliable service for potable water applications. These valves are cast, machined, assembled, and tested in South Carolina using proven ASTM quality materials.

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- ANSI/NSF 61-8 2010, Annex F & G Lead Free*
- Quick Press End Connection
- Renewable PTFE Seat Disc
- Dezincification Resistant
- **Made in USA**, ARRA Compliant

STANDARDS

- MSS SP-139, "Copper Alloy Gate, Globe, & Check Valves"
- NSF/ANSI 61-8 2010 Annex F & G Lead Free*
- Canadian Registration Number OC14667.5
- NSF 372

PERFORMANCE RATING†:

- Maximum Pressure: 200 psi (13.8 bar) non-shock
- Temperature Range: 0°F - 250°F (-18°C - 121°C)
- Low Pressure Steam - Max. working pressure: 15 psi

† APOLLOXPRESS® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Press connectors are not suitable for steam or flammable gas service.

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	ASTM B584 C89836 Bronze
Cap	ASTM B584 C89836 Bronze
Connector Housing	C27451 Brass
Connector O-Ring	NSF grade EPDM
Hanger	304 Stainless Steel or ASTM B584 C89836 Bronze
Pin	Stainless Steel
Seat	PTFE
Plug	C27451 Brass

Precautionary Note: Not recommended for use with reciprocating pumps and similar applications, which may induce repetitious vibrations. Low flow rates which do not fully open the valve may result in undesirable noise and premature valve failure. Upstream flow disturbances, which create turbulence, may also result in rapid wear. Therefore, it is recommended that a minimum of 10 diameters of straight pipe be provided between the check valve and any upstream flow disturbances such as pumps, control valves, elbows, etc.



DIMENSIONS (IN)

Pipe Size	Dimensions (in.)		Wt (lbs)	Cv (gpm)
	Height (in.)	Length (in.)		
1/2"	1.65	4.3	.78	7.0
3/4"	1.9	5.1	1.8	12.0
1"	2.26	5.9	2.5	28.6
1-1/4"	2.99	7.0	4.4	39.0
1-1/2"	2.99	7.75	4.5	56.0
2"	3.74	8.9	7.0	152.0

For liquids, the flow coefficient - Cv - expresses the flow capacity in gallons per minute (GPM) of 60°F water with a pressure drop of 1 psi (lb/in²).

ORDERING INFORMATION

Size	Model Number	Item Number
1/2"	163T12-PRLF	61YLF203-T1PR
3/4"	163T34-PRLF	61YLF204-T1PR
1"	163T1-PRLF	61YLF205-T1PR
1-1/4"	163T114-PRLF	61YLF206-T1PR
1-1/2"	163T112-PRLF	61YLF207-T1PR
2"	163T2-PRLF	61YLF208-T1PR



* **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. ANSI 3rd party approved and listed.



In-Line Check Valve

DESCRIPTION:

The APOLLOXPRESS® Model CVB-PR (61 Series) BALL-CONE® 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.

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- 1/2 psi spring cracking pressure is standard
- Tight Shut-off With Liquid Media
- Straight-through Flow Design Efficiency
- RPTFE Ball-Cone® for Chemical Resistance
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING†:

- Maximum Pressure: 250 psi (17.2 bar) non-shock
- Temperature Range: 0°F - 250°F (-18°C - 121°C)
- Low Pressure Steam - Max. working pressure: 15 psi

† APOLLOXPRESS® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Press connectors are not suitable for steam or flammable gas service.

APPROVALS

- Canadian Registration Number OC11218.5C

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	ASTM B584 Bronze C84400
Retainer	ASTM B16 Brass
Spring	AISI 316 Stainless Steel
Connector Housing	ASTM B16 Brass
Connector Retainer	316 Stainless Steel
Ball Cone Check	RPTFE, 15% Glass Filled
Stem	ASTM B16 Brass

Precautionary Note: Not recommended for use with reciprocating pumps and similar applications which may induce repetitious vibrations. Low flow rates which do not fully open the valve may result in undesirable noise and premature valve failure. Upstream flow disturbances, which create turbulence, may also result in rapid wear. Therefore, it is recommended that a minimum of 10 diameters of straight pipe be provided between the check valve and any upstream flow disturbances such as pumps, control valves, elbows, etc.

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DIMENSIONS (IN)

Model Number	Item Number	Size	Length	Wt (lbs)	Flow (Cv)
CVB12PR	6110301PR	1/2"	4.2"	.42	1.4
CVB34PR	6110401PR	3/4"	5.0"	1.0	3.5
CVB1PR	6110501PR	1"	5.8"	1.9	6.0
CVB114PR	6110601PR	1-1/4"	6.7"	3.35	44
CVB112PR	6110701PR	1-1/2"	8.2"	4.6	65
CVB2PR	6110801PR	2"	9.7"	7.3	81

For liquids, the flow coefficient - Cv - expresses the flow capacity in gallons per minute (GPM) of 60°F water with a pressure drop of 1 psi (lb/in²).

OPTIONS**

- Soft Seat (61-500 Series)
- 0 psig Cracking Pressure (No Spring)
- 5 psig Cracking Pressure (1/2" - 1")
- 10 psig Cracking Pressure (1/2" - 1")
- Lead Free 0.25% Lead Max.(61LF-PR Series)
- OTHER



61LF SERIES

Lead Free In-Line Check Valve

APOLLOXPRESS®

DESCRIPTION:

The **Lead Free*** APOLLOXPRESS® Model CVB- PRLF (61LF Series) BALL-CONE® check valves with Press connections offer reliable protection against reverse flow in potable water applications using proven ASTM quality materials made in the USA. Valves may be installed in both horizontal and vertical flow with upward flow.

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- 1/2 psi spring cracking pressure
- Tight Shut-off With Liquid Media
- Straight-through Flow Design Efficiency
- RPTFE Ball-Cone® for Chemical Resistance
- **Made in USA**, ARRA Compliant

APPROVALS

- NSF/ANSI 61-8 2010 Annex F, G Lead Free*
- Canadian Registration Number OC11218.5C
- NSF 372

PERFORMANCE RATING†:

- Maximum Pressure: 250 psi (17.2 bar) non-shock
- Temperature Range: 0°F - 250°F (-18°C - 121°C)
- Low Pressure Steam - Max. working pressure: 15 psi

† APOLLOXPRESS® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Not suitable for steam or flammable gas service.

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	ASTM B584 C89836 Lead Free* Bronze
Retainer	C27451 Lead Free* Brass
Connector Housing	C27451 Lead Free* Brass
Connector O-Ring	NSF grade EPDM
Spring	AISI 316 Stainless Steel
Ball Cone Check	RPTFE, 15% Glass Filled
Stem	C27451 Lead Free* Brass

Precautionary Note: Not recommended for use with reciprocating pumps and similar applications which may induce repetitious vibrations. Low flow rates which do not fully open the valve may result in undesirable noise and premature valve failure. Upstream flow disturbances, which create turbulence, may also result in rapid wear. Therefore, it is recommended that a minimum of 10 diameters of straight pipe be provided between the check valve and any upstream flow disturbances such as pumps, control valves, elbows, etc.



DIMENSIONS (IN)

Model Number	Item Number	Size	Length	Wt (lbs)	Flow (Cv)
CVB12PRLF	61LF10301PR	1/2"	4.2"	.42	1.4
CVB34PRLF	61LF10401PR	3/4"	5.0"	1.0	3.5
CVB1PRLF	61LF10501PR	1"	5.8"	1.9	6.0
CVB114PRLF	61LF10601PR	1-1/4"	6.7"	3.35	44
CVB112PRLF	61LF10701PR	1-1/2"	8.2"	4.6	65
CVB2PRLF	61LF10801PR	2"	9.7"	7.3	81

For liquids, the flow coefficient - Cv - expresses the flow capacity in gallons per minute (GPM) of 60°F water with a pressure drop of 1 psi (lb/in²).

OPTIONS**

- Soft Seat (61LF-500 Series)
- 0 psig Cracking Pressure (No Spring)
- 5 psig Cracking Pressure (1/2" - 1")
- 10 psig Cracking Pressure (1/2" - 1")
- OTHER

** Consult factory for availability of LF Model options



* **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. ANSI 3rd party approved and listed.



Bronze Wye Strainer

DESCRIPTION:

The APOLLOXPRESS® Model YB-PR (59 Series) 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.

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Self-Aligning Screen Design
- Blowout Ball Valve Option
- CRN OE8959.5C
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING†:

- Maximum Pressure: 250 psi (17.2 bar) non-shock
- Temperature Range: 0°F - 250°F (-18°C - 121°C)
- Low Pressure Steam - Max. working pressure: 15 psi

† APOLLOXPRESS® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Press connectors are not suitable for steam or flammable gas service.

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	Cast Bronze, ASTM B584
Cap	Brass, ASTM B16
Connector Housing	ASTM B16 Brass
Connector O-Ring	NSF grade EPDM
Screen	304 Stainless Steel
Cap Seal (1/2")	Teflon® O-Ring
Cap Seal (3/4" - 2")	PTFE Gasket

APOLLOXPRESS®



DIMENSIONS (IN)

Model Number	Item Number	Size	Length	Cv	Wt (lbs)
YB-12PR	59-00301PR	1/2"	4.75"	5	1.0
YB-34PR	59-00401PR	3/4"	6.1"	15	2.0
YB-1PR	59-00501PR	1"	7.25"	28	3.0
YB-114PR	59-00601PR	1-1/4"	7.62"	55	3.8
YB-112PR	59-00701PR	1-1/2"	8.25"	70	5.7
YB-2PR	59-00801PR	2"	10.3"	99	7.7

For liquids, the flow coefficient - Cv - expresses the flow capacity in gallons per minute (GPM) of 60°F water with a pressure drop of 1 psi (lb/in²).

OPTIONS (SUFFIX)

- (01) – 50 Mesh (Standard 1/2" models)
- (01) – 20 Mesh (Standard 3/4" - 2" models)
- (02) – Tapped Cap
- (P2) – Tapped Cap with Plug
- (06) – Tapped cap with Ball Valve
- (E1) – 20 Mesh (for 1/2" model)
- (A1) – 40 Mesh
- (B1) – 60 Mesh
- (C1) – 80 Mesh
- (H1) – 100 Mesh



59LF SERIES

Lead Free Bronze Wye Strainer

APOLLOXPRESS®

DESCRIPTION:

The **Lead Free*** APOLLOXPRESS® YB-PRLF Strainers with quick Press connections are designed to protect potable piping systems from unwanted foreign particles with minimum pressure loss. The valves are built for long reliable service with proven ASTM grade materials including a **Lead Free*** bronze body and stainless steel strainer.

FEATURES:

- Lead Free* Bronze and Brass Construction
- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Self-Aligning SS Screen Design
- Blowout Ball Valve Option
- CRN 0E8959.5C
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING†:

- Maximum Pressure: 250 psi (17.2 bar) non-shock
- Temperature Range: 0°F - 250°F (-18°C - 121°C)
- Low Pressure Steam - Max. working pressure: 15 psi

† APOLLOXPRESS® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Press connectors are not suitable for steam or flammable gas service.

APPROVALS

- NSF/ANSI 61-8
- ANSI 3rd Party Approval to 0.25% Lead Max.
- NSF 372

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	ASTM B584 C89836 Bronze
Cap	C27451 Brass
Connector Housing	C27451 Brass
Connector O-Ring	NSF grade EPDM
Screen	304 Stainless Steel
Cap Seal (1/2")	Teflon® O-Ring
Cap Seal (3/4" - 2")	PTFE Gasket

* **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. ANSI 3rd party approved and listed.



DIMENSIONS (IN)

Model Number	Item Number	Size	Length	Cv	Wt (lbs)
YB12PRLF	59LF00301PR	1/2"	4.75"	5	1.0
YB34PRLF	59LF00401PR	3/4"	6.1"	15	2.0
YB1PRLF	59LF00501PR	1"	7.25"	28	3.0
YB114PRLF	59LF00601PR	1-1/4"	7.62"	55	3.8
YB112PRLF	59LF00701PR	1-1/2"	8.25"	70	5.7
YB2PRLF	59LF00801PR	2"	10.39"	99	7.7

For liquids, the flow coefficient - Cv - expresses the flow capacity in gallons per minute (GPM) of 60°F water with a pressure drop of 1 psi (lb/in²).

OPTIONS (SUFFIX)

- (01) - 50 Mesh (Standard 1/2" models)
- (01) - 20 Mesh (Standard 3/4" - 2" models)
- (02) - Tapped Cap
- (P2) - Tapped Cap with Plug
- (06) - Tapped Cap with Ball Valve
- (E1) - 20 Mesh (for 1/2" models)
- (A1) - 40 Mesh
- (B1) - 60 Mesh
- (C1) - 80 Mesh
- (H1) - 100 Mesh



Water Pressure Reducing Valves



Available in Press sizes $\frac{1}{2}$ " – 2", four models cover residential, commercial and institutional applications. Featuring sturdy bronze bodies and high flow rates, valves are 100% factory tested and preset at 50 psi. Press connections incorporate *Leak Before Press*® technology. **Made in the USA.** Lead Free option available.

APOLLOXPRESS®

Your Single Source Solution for Press Technology

36 SERIES

Pressure Reducing Valve

DESCRIPTION:

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.

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Corrosion Resistant Bronze Body and Bonnet
- Integral SS Strainer
- Balanced Piston Design
- Internal Thermal Expansion By-pass
- High and Low Pressure Range Options
- Pressure Gauge Connection Option
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING:

- Maximum Press Fitting Pressure: 250 psi (17.2 bar)
- Maximum Temperature: 180°F (82°C)

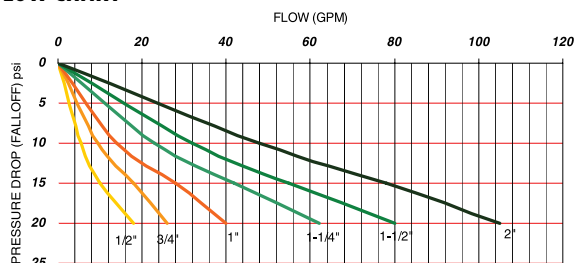
APPROVALS:

- ASSE 1003-2009; "Water Pressure Reducing Valves"
- CSA B356 "Water Pressure Reducing Valves for Domestic Water Supply Systems."

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	Bronze, ASTM B584
Covers	Bronze, ASTM B584
Diaphragm	FDA Grade Buna W/ Polyester
Seat disc	FDA Grade EPDM
Stem	Brass, ASTM B-16
Spring	Stainless Steel
Piston O-Ring	FDA approved Nitrile
Connector Housing	ASTM B16 Brass
Connector O-Ring	FDA grade EPDM

FLOW CHART



APOLLOXPRESS®



DIMENSIONS (IN)

Model Number	Order Number	Size	Length	Height from CL	Wt (lbs)
PR12PR	3620301PR	1/2"	5.78"	4.75"	3.1
PR34PR	3620401PR	3/4"	6.09"	4.75"	3.3
PR1PR	3620501PR	1"	6.65"	5.9"	4.1
PR114PR	3620601PR	1-1/4"	7.88"	7.49"	9.0
PR112PR	3620701PR	1-1/2"	8.62"	7.49"	9.0
PR2PR	3620801PR	2"	10.76"	9.76"	21

MODEL NUMBERING SYSTEM

PR	Size	Pressure Gauge	Pressure Range	PR
----	------	----------------	----------------	----

Example: PR-12H-PR is model number for 1/2" High Pressure set at 100 psi

SIZE

- 12 - 1/2"
- 34 - 3/4"
- 1 - 1"
- 114 - 1-1/4"
- 112 - 1-1/2"
- 2 - 2"

PRESSURE GAUGE

- Blank - No Gauge Port
- P - W/ Gauge Port Plugged
- G - W/ Pressure Gauge

PRESSURE RANGE

- Blank - 25-75 PSIG
- L - 10-35 PSIG
- H - 75-125 PSIG



36LF SERIES

Lead Free Pressure Reducing Valve

APOLLOXPRESS®

DESCRIPTION:

The **Lead Free*** APOLLOXPRESS® Model PR-PRLF (36LF Series) Pressure Reducing Valves with Press connections are designed to protect residential and commercial potable water distribution systems by controlling excessive pressures. The valves are built for long reliable service with proven ASTM grade **Lead Free*** materials.

FEATURES:

- ANSI 3rd Party Certified Lead Free
- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Corrosion Resistant Bronze Body and Cover
- Integral SS Strainer
- Balanced Piston Design
- Internal Thermal Expansion By-pass
- High and Low Pressure Range Options
- Pressure Gauge Connection Option
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING:

- Maximum Press Fitting Pressure: 250 psi (17.2 bar)
- Maximum Temperature: 180°F (82°C)

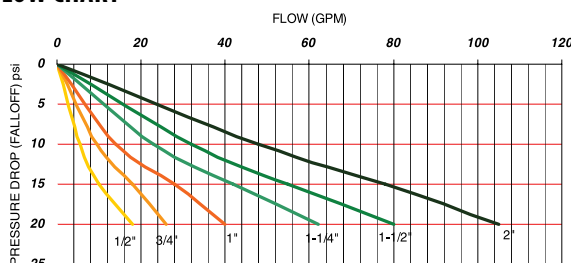
APPROVALS

- ASSE 1003-2009; "Water Pressure Reducing Valves"
- CSA B356 "Water pressure reducing valves..."
- ANSI 3rd Party Approval to AB 1953 0.25% Lead Max.
- NSF 372

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	ASTM B584 C89836 Bronze
Cover	ASTM B584 C84400 Bronze
Diaphragm	FDA Grade Buna W/ Polyester
Seat disc	FDA Grade EPDM
Stem	C27451 Brass
Spring	Stainless Steel
O-Rings	FDA Grade EPDM
Connector Housing	C27451 Brass
Connector O-Ring	FDA Grade EPDM

FLOW CHART



DIMENSIONS (IN)

Model Number	Order Number	Size	Length	Height from CL	Wt (lbs)
PR12PRLF	36LF20301PR	1/2"	5.78"	4.75"	3.1
PR34PRLF	36LF20401PR	3/4"	6.09"	4.75"	3.1
PR1PRLF	36LF20501PR	1"	6.65"	5.9"	4.1
PR114PRLF	36LF20601PR	1-1/4"	7.88"	7.49"	9.0
PR112PRLF	36LF20701PR	1-1/2"	8.62"	7.49"	9.0
PR2PRLF	36LF20801PR	2"	10.76"	9.76"	21.0

MODEL NUMBERING SYSTEM

PR	Size	Pressure Gauge	Pressure Range	PRLF
----	------	----------------	----------------	------

Example: PR-12H-PRLF is model number for 1/2" High Pressure set at 100 psi

SIZE

- 12 - 1/2"
- 34 - 3/4"
- 1 - 1"
- 114 - 1-1/4"
- 112 - 1-1/2"
- 2 - 2"

PRESSURE GAUGE

- Blank - No Gauge Port
- P - W/ Gauge Port Plugged
- G - W/ Pressure Gauge

PRESSURE RANGE

- Blank - 25-75 PSIG
- L - 10-35 PSIG
- H - 75-125 PSIG

*** 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. ANSI 3rd party approved and listed.



36C SERIES

Pressure Reducing Valve

DESCRIPTION:

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 in-line servicing with bottom cleanout and service access.

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Balanced Piston Design
- SS Adjusting Screw and Sealed Cage Standard
- Built-in Thermal Expansion By-Pass
- Bottom Access to Seat Disc and Strainer
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING:

- Maximum Press Fitting Pressure: 250 psig non-shock
- Standard Temperature Range: 33°F – 180°F
- Maximum Set Pressure: 125 psig

APPROVALS:

- ASSE 1003-2009; "Water Pressure Reducing Valves"
- CSA B356 "Water pressure reducing valves for domestic water supply systems"

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	Bronze, ASTM B584
Tailpiece	Brass, ASTM B16
Screen	Stainless Steel
Cap	Glass Filled Celcon®
Diaphragm	FDA grade EPDM Reinforced
Seat disc	FDA grade EPDM
Stem / Adj Screw	Brass, ASTM B-16 / Stainless
Spring	Music Wire ASTM 228
O-Rings	FDA grade Nitrile
Connector Housing	ASTM B16 Brass
Connector O-Ring	FDA grade EPDM

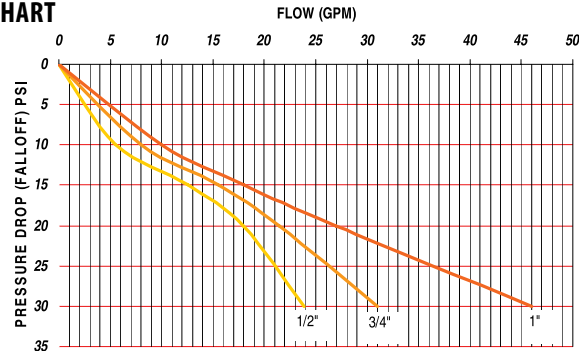
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DIMENSIONS (IN)

Model Number	Order Number	Size	Length	Height from CL	Wt (lbs)
PRC12PR	36C20301PR	1/2"	5.48"	4.75"	2.1
PRC34PR	36C20401PR	3/4"	5.79"	4.75"	2.3
PRC1PR	36C20501PR	1"	6.16"	4.75"	2.9

FLOW CHART



MODEL NUMBERING SYSTEM

PRC	Size	Pressure Gauge	Pressure Range	PR
-----	------	----------------	----------------	----

Example: PRC-12H-PR is model number for 1/2" High Pressure set at 100 psi

SIZE

- 12 - 1/2"
- 34 - 3/4"
- 1 - 1"

PRESSURE GAUGE

- Blank – No Gauge Port
- P – W/ Gauge Port Plugged
- G – W/ Pressure Gauge

PRESSURE RANGE

- Blank – 25–75 PSIG
- L – 10–35 PSIG
- H – 75–125 PSIG



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

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36CLF SERIES

Lead Free Pressure Reducing Valve

APOLLOXPRESS®

DESCRIPTION:

The **Lead Free*** APOLLOXPRESS® Model PRC-PRLF (36C Series) Pressure Reducing Valves with Press connections are easily installed to protect residential and commercial potable water distribution systems by automatically controlling excessive pressure. The dielectric thermoplastic cage provides maximum corrosion resistance. Designed for easy in-line servicing with bottom access to seat disc and strainer.

FEATURES:

- ANSI 3rd Party Certified Lead Free
- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Balanced Piston Design
- SS Adjusting Screw and Sealed Cage Standard
- Built-in Thermal Expansion By-Pass
- Easy Access to Seat Disc and Strainer
- **Made in USA**, ARRA Compliant

APPROVALS

- ASSE 1003-2009; "Water Pressure Reducing Valves"
- CSA B356 "Water pressure reducing valves..."
- ANSI 3rd Party Certified Lead Free*
- NSF 372

PERFORMANCE RATING:

- Maximum Press Fitting Pressure: 250 psi (17.2 bar)
- Maximum Temperature: 180°F (82°C)

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	C89836 Lead Free* Bronze
Screen	Stainless Steel
Cap	Glass Filled Celcon®
Diaphragm	FDA grade EPDM
Seat disc	FDA grade EPDM
Adjusting Screw & Nut	Stainless Steel
Stem	C27451 Lead Free* Brass
Spring	Music Wire ASTM 228
O-Rings	FDA grade Nitrile
Connector Housing	C27451 Lead Free* Brass
Connector O-Ring	FDA Grade EPDM

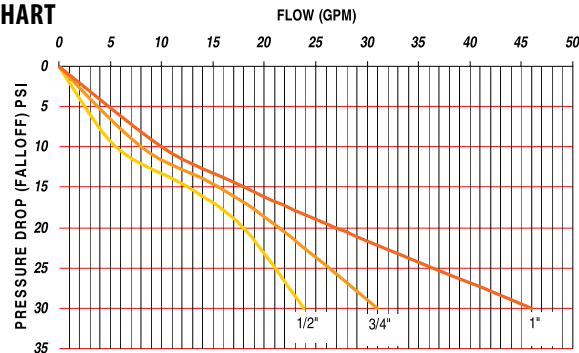
* **LEAD FREE:** The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with CA AB1953, VT Act 193, MD HB372, LA HB471 and Federal Public Law 111-380. ANSI 3rd party approved and listed.



DIMENSIONS (IN)

Model Number	Order Number	Size	Length	Height from CL	Wt (lbs)
PRC12PRLF	36CLF20301PR	1/2"	5.48"	4.75"	2.1
PRC34PRLF	36CLF20401PR	3/4"	5.79"	4.75"	2.3
PRC1PRLF	36CLF20501PR	1"	6.16"	4.75"	2.9

FLOW CHART



MODEL NUMBERING SYSTEM

PRC	Size	Pressure Gauge	Pressure Range	PRLF
-----	------	----------------	----------------	------

Example: PRC-12H-PRLF is model number for 1/2" High Pressure set at 100 psi

SIZE

- 12 - 1/2"
- 34 - 3/4"
- 1 - 1"

PRESSURE GAUGE

- Blank - No Gauge Port
- P - W/ Gauge Port Plugged
- G - W/ Pressure Gauge

PRESSURE RANGE

- Blank - 25-75 PSIG
- L - 10-35 PSIG
- H - 75-125 PSIG



36E SERIES

Pressure Reducing Valve

DESCRIPTION:

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.

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Sealed Cage for vault installations
- Built-in Thermal Expansion By-Pass
- Large Area Integral Stainless Steel Strainer
- Modular Seat Disc and Strainer Cartridge
- Control Pressure Ranges: 15-75 psi and 75-150 psi
- Factory tested and preset at 50 psi or 100 psi
- High flow / high efficiency design
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING:

- Maximum Press Fitting Pressure: 250 psi (17.2 bar)
- Maximum Temperature: 180°F (82°C)

APPROVALS:

- ASSE 1003-2009; "Water Pressure Reducing Valves"
- CSA B356 "Water pressure reducing valves for domestic water supply systems"

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	UNS C84400 Bronze
Connector Housing	ASTM B16 Brass
Connector O-Ring	NSF grade EPDM
Screen	Stainless Steel
Spring Housing	Glass Filled Celcon®
Diaphragm	FDA grade EPDM Reinforced
Seat Disc	FDA grade EPDM
Adjusting Screw & Nut	Stainless Steel
Cage Seal	Nitrile
Stem	ASTM B16 Brass
Spring	Music Wire ASTM A228
Cartridge O-Rings	FDA grade EPDM

APOLLOXPRESS®



DIMENSIONS (IN)

Model Number	Order Number	Size	Length	Height from CL	Wt (lbs)
PRE12PR	36E10301PR	1/2"	5.46"	4.75"	1.5
PRE34PR	36E10401PR	3/4"	5.79"	4.75"	1.7
PRE1PR	36E10501PR	1"	5.91"	4.75"	2.3

MODEL NUMBERING SYSTEM

PRE	Size	Pressure Range	PR
-----	------	----------------	----

Example: PRE-12H-PR is model number for a 1/2" High Pressure set at 100 psi

SIZE

- 12 - 1/2"
- 34 - 3/4"
- 1 - 1"

PRESSURE RANGE

- BLANK - 15 - 75 PSIG
- H - 75 - 150 PSIG

FLOW CAPACITY

Pipe Size	Fall-Off (PSI)	Pressure Differential (PSI)		
		25	50	75
1/2"	10	10	13	16
	15	13	18	22
	20	17	23	29
	30	22	29	36
3/4"	10	16	21	26
	15	20	27	32
	20	24	32	40
	30	29	38	48
1"	10	25	33	41
	15	30	42	52
	20	34	45	56
	30	35	47	59

Pressure differential is the difference between the supply pressure and adjusted outlet pressure measured in the static (closed) condition. Fall-off is the decrease in downstream regulated pressure as the flow increases.



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

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36ELF SERIES

Lead Free Pressure Reducing Valve

APOLLOXPRESS®

DESCRIPTION:

The **Lead Free*** APOLLOXPRESS® Model PRE-PRLF (36ELF Series) Pressure Reducing Valves with Press connections are easily installed to protect residential and commercial potable 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.

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Balanced Piston Design
- Sealed Cage for vault installations
- Built-in Thermal Expansion By-Pass
- Large Area Integral Stainless Steel Strainer
- Modular Seat Disc and Strainer Cartridge
- Control Pressure Ranges: 15-75 psi and 75-150 psi
- Factory Tested and Preset at 50 or 100 psi
- High flow / high efficiency design
- **Made in USA**, ARRA Compliant

APPROVALS

- NSF/ANSI 61-8 2010, Annex F & G Lead Free
- NSF 372
- ASSE 1003-2009; "Water Pressure Reducing Valves"
- CSA B356 Water pressure reducing valves for domestic water supply systems

PERFORMANCE RATING:

- Maximum Press Fitting Pressure: 250 psi (17.2 bar)
- Maximum Temperature: 180°F (82°C)

MATERIAL SPECIFICATIONS:

Part Name	Material
Body	UNS 89836 Lead Free Bronze
Connector Housing	C27451 Lead Free Brass
Connector O-Ring	NSF grade EPDM
Screen	Stainless Steel
Spring Housing	Glass Filled Celcon®
Diaphragm	NSF grade EPDM
Seat disc	FDA grade EPDM
Adjusting Screw & Nut	Stainless Steel
Cage Seal	Nitrile
Stem	C27451 Lead Free Brass
Spring	Music Wire ASTM A228
Cartridge O-rings	NSF grade EPDM

*** 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. ANSI 3rd party approved and listed.



DIMENSIONS (IN)

Model Number	Order Number	Size	Length	Height from CL	Wt (lbs)
PRE12PRLF	36ELF10301PR	1/2"	5.46"	4.75"	1.5
PRE34PRLF	36ELF10401PR	3/4"	5.79"	4.75"	1.7
PRE1PRLF	36ELF10501PR	1"	5.91"	4.75"	2.3

MODEL NUMBERING SYSTEM

PRE	Size	Pressure Range	PRLF
-----	------	----------------	------

Example: PRE-12H-PRLF is model number for a 1/2" High Pressure set at 100 psi

SIZE

- 12 - 1/2"
- 34 - 3/4"
- 1 - 1"

PRESSURE RANGE

- BLANK - 15 - 75 PSIG (-01 suffix)
- H - 75 - 150 PSIG (-03 suffix)

FLOW CAPACITY

Pipe Size	Fall-Off (PSI)	Pressure Differential (PSI)		
		25	50	75
1/2"	10	10	13	16
	15	13	18	22
	20	17	23	29
	30	22	29	36
3/4"	10	16	21	26
	15	20	27	32
	20	24	32	40
	30	29	38	48
1"	10	25	33	41
	15	30	42	52
	20	34	45	56
	30	35	47	59

Pressure differential is the difference between the supply pressure and adjusted outlet pressure measured in the static (closed) condition. Fall-off is the decrease in downstream regulated pressure as the flow increases.





Balancing Valves

Apollo Model 58A HVAC Balancing Valve combines ball valve flow control simplicity with mult-turn globe valve balance adjustment. The integrated digital position indicator makes technician adjustment quick and easy, leaving no doubt where the valve is set. Valves are DZR brass and available from ½" to 2" sizes, NPT, Sweat and Press.

APOLLOXPRESS®

Your Single Source Solution for Press Technology

58A SERIES

Balancing Valve

DESCRIPTION:

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. The valves unique needle valve adjustment, with integrated digital readout incorporated into the handle allows qualified technicians to have the valve function as a highly accurate variable orifice flow meter. Valve pressure drop can be read through the valves integrated 1/4" measurement ports, and flow calculated from the flow coefficient associated with the numerical setting.

FEATURES:

- P/T plugs
- Compatible with All Flow Meters
- Easy Adjustment and Setpoint Indicator
- Isolated Flow Shut-off
- Reversible Lever

PERFORMANCE RATING:

- Max Pressure: 600 psi (41.3 bar)
- Max Temp: 250°F (121°C)

MATERIAL SPECIFICATIONS:

Part Name	Material
Valve Body	DZR brass CW602N
Ball & Needle	DZR brass CW602N (chrome plated)
Valve Handle	Glass Filled Polyamide
Sealing O-ring	EPDM
Gasket	PTFE
Test Port Seal	EPDM

APPROVED APPLICATIONS:

Hot Water & Chilled Water low temperature hydronic HVAC system adjustment.

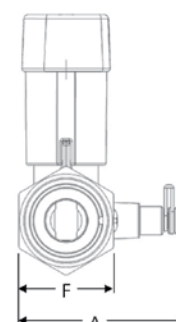
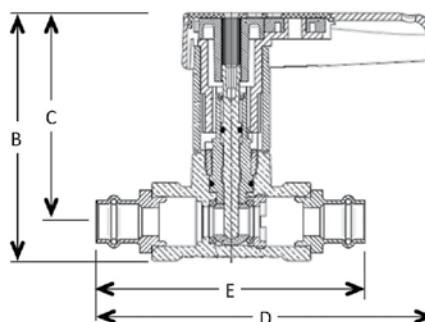
APOLLOXPRESS®



DIMENSIONS (IN)

Part Number	Size	C _v	A	B	C	D	E	F	Wt (lbs.)
58A103PR	1/2"	1.66	2.7	3.5	3	5	3.9	1.1	1.1
58A104PR	3/4"	4.51	2.9	3.7	3	5.2	4.6	1.34	1.4
58A105PR	1"	8.18	3.2	4	3.2	4.5	5.7	1.61	1.8
58A106PR	1-1/4"	13.89	3.5	5.4	4.3	7.8	6.4	1.97	3.3
58A107PR	1-1/2"	23.9	3.7	5.7	4.4	8.3	7.0	2.24	4.3
58A108PR	2"	33.77	4.2	6.3	4.7	8.8	7.9	2.76	6.0

For liquids the flow coefficient - C_v - expresses the flow capacity in gallons per minute (GPM) of 60°F water with a pressure drop of 1 psi (lb/in²).



OPTIONS

- Solder Connection (58A-S Series)
- Press Connection (58A-PR Series)
- Push Connection (58A-P Series)



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



The 4A Series of Reduced Pressure Principle Backflow Preventers are available in APOLLOXPRESS® sizes from ½" to 2", with *Leak Before Press*® technology. Featuring bronze bodies and innovative cartridge check design, these assemblies provide protection of potable water against health hazard conditions. Assemblies are 100% factory tested. Available with optional Apollo bronze strainers. **Made in the USA.** Lead Free options available.

Backflow Prevention

APOLLOXPRESS®

Your Single Source Solution for Press Technology

RP4A SERIES

Reduced Pressure Valves

DESCRIPTION:

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.

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Low pressure loss
- Easily removable modular check valve cartridge
- Captured stainless steel check springs
- ApolloXpress® ball valves w/ SS handles & nuts standard
- Top-mounted test cocks for easy testing
- Modular Relief Valve
- No special tools required for servicing
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING:

- Maximum Working Pressure 175 psi
- Temperature Range 33 ° F – 180 ° F

APPROVALS:

- ASSE 1013 - Horizontal (½" - 2"),
- CSA B.64.4 - Horizontal (½" - 2")
- USC FCCC&HR – Consult factory for details

MATERIAL SPECIFICATIONS:

Part Name	Material
Body, Caps, Ball Valve Shutoffs, Test cocks	Cast Bronze C84400
Check Valve Cartridges	Glass-Filled PPO
Springs	300 Series Stainless Steel
Seat Discs	Chloramine-resistant Silicone
O-rings	Chloramine-resistant EPDM

AIR GAP DEVICES

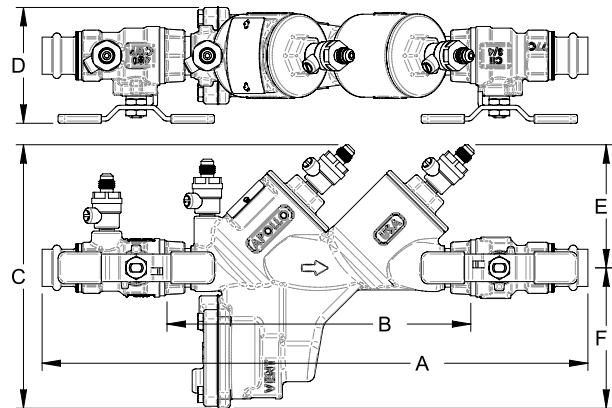
- AGD4A1 (1/2" – 1")
- AGD4A112 (1-1/4" – 1-1/2")
- AGD4A2 (2")

APOLLOXPRESS®



DIMENSIONS (IN)

Part Number	Size	A	B	C	D	E	F	Wt (lbs)
4A203T2FPR	1/2"	13	7-3/8	7-1/8	2-7/8	3-1/4	3-7/8	7.4
4A204T2FPR	3/4"	14-7/8	8-1/2	7-3/8	3-1/8	3-1/2	3-7/8	9.0
4A205T2FPR	1"	16-7/8	9-1/2	8	3-1/4	4	4	13.0
4A206T2PR	1-1/4"	21-1/8	11-3/4	9-7/8	5-1/8	4-1/2	5-3/8	19.1
4A207T2PR	1-1/2"	22	11-5/8	9-7/8	5-1/8	4-1/2	5-3/8	22.5
4A208T2PR	2"	24-3/4	12-3/4	11	5-7/8	5	6	34.6



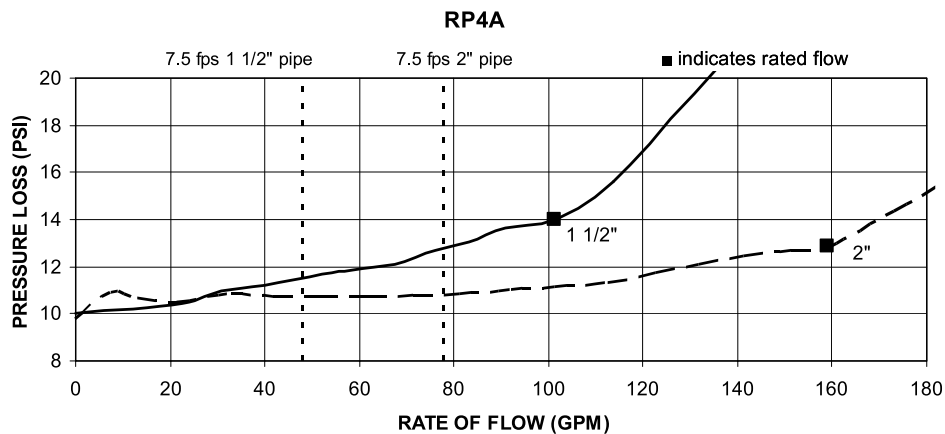
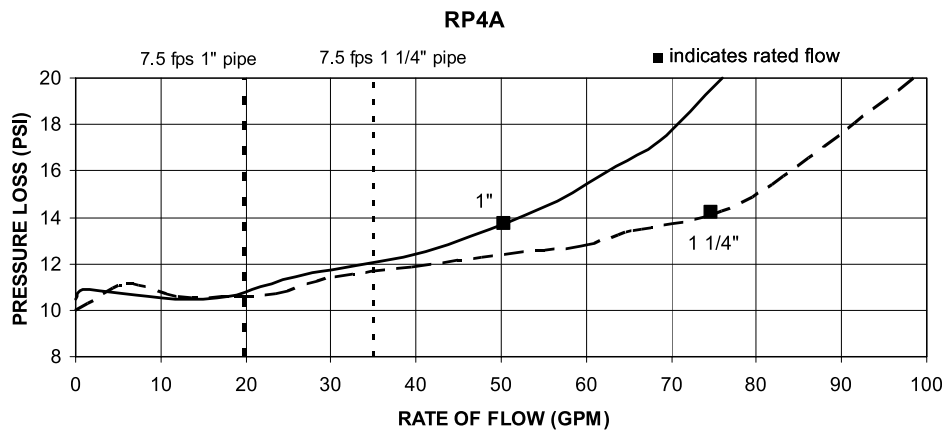
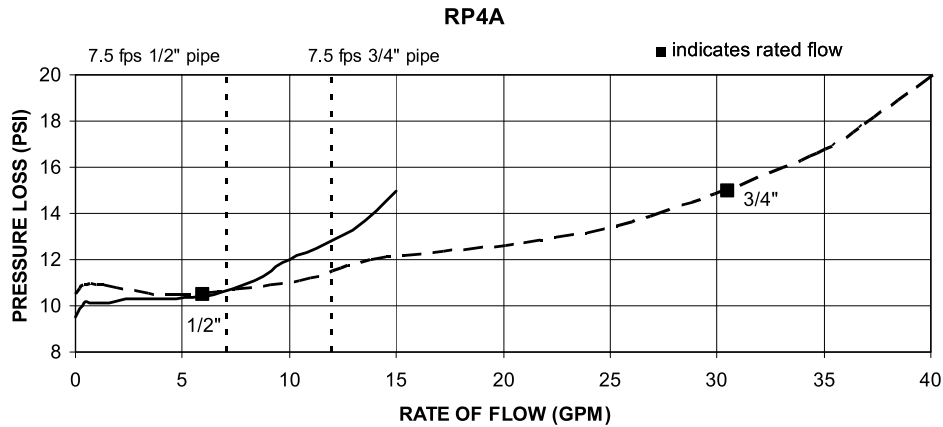
MODEL NUMBERING SYSTEM

4A	XX	-	2	0	X	-	T2	F	XX	OPTIONS
Material	Size									
Blank - Standard	3 - 1/2"							Blank -	PR - ApolloXpress	
LF - Lead Free	4 - 3/4"							NPT Testcock		
	5 - 1"							(1-1/4" x 2")		
	6 - 1-1/4"							F -		
	7 - 1-1/2"							SAE Testcock		
	8 - 2"							(1/2" - 1")		

Reduced Pressure Valves

FLOW CURVES:

Curves developed from independent approval agencies actual tests – Consult factory for details. ■ indicates rated flow as determined by approval agencies, 7.5 ft/sec is the typical maximum Plumbing system flow rate.



RPLF4A SERIES

Lead Free Reduced Pressure Valves

APOLLOXPRESS®

DESCRIPTION:

The APOLLOXPRESS® Model RPLF4A Series **Lead Free*** 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 and Leak Before Press® technology.

FEATURES:

- Fast, Reliable, Economical Press Installation
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Low pressure loss
- Easily removable modular check valve cartridge
- Captured stainless steel springs
- Top-mounted test cocks for easy testing
- Modular Relief Valve
- ApolloXpress™ ball valves w/ SS handles & nuts standard
- No special tools required for servicing
- **Made in USA**, ARRA Compliant

PERFORMANCE RATING:

- Maximum Working Pressure 175 psi
- Temperature Range 33 ° F – 180 ° F

APPROVALS:

- ASSE 1013 - Horizontal (½"-2"),
- CSA B.64.4 - Horizontal (½"-2")
- USC FCC&HR – Consult factory for details
- ANSI 3rd Party Approval to 0.25% Lead Max.
- NSF 372

MATERIAL SPECIFICATIONS:

Part Name	Material
Body, Caps, Ball Valve Shutoffs, Test cocks	Bronze C89836 Lead Free*
Check Valve Cartridges	Glass-Filled PPO
Springs	300 Series Stainless Steel
Seat Discs	Chloramine-resistant Silicone
O-rings	Chloramine-resistant EPDM

AIR GAP DEVICES

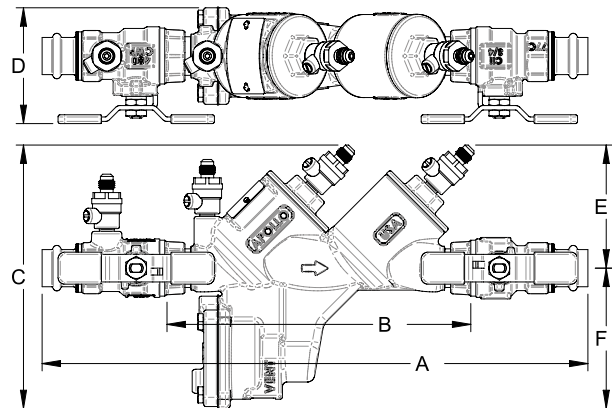
- AGD4A1 (1/2" – 1")
- AGD4A112 (1-1/4" – 1-1/2")
- AGD4A2 (2")

* **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. ANSI 3rd party approved and listed.



DIMENSIONS (IN)

Part Number	Size	A	B	C	D	E	F	Wt (lbs)
4ALF203T2FPR	1/2"	13	7-3/8	7-1/8	2-7/8	3-1/4	3-7/8	7.4
4ALF204T2FPR	3/4"	14-7/8	8-1/2	7-3/8	3-1/8	3-1/2	3-7/8	9.0
4ALF205T2FPR	1"	16-7/8	9-1/2	8	3-1/4	4	4	13.0
4ALF206T2PR	1-1/4"	21-1/8	11-3/4	9-7/8	5-1/8	4-1/2	5-3/8	19.1
4ALF207T2PR	1-1/2"	22	11-5/8	9-7/8	5-1/8	4-1/2	5-3/8	22.5
4ALF208T2PR	2"	24-3/4	12-3/4	11	5-7/8	5	6	34.6



MODEL NUMBERING SYSTEM

4A XX - 2	0	X - T2	F	XX	OPTIONS
Material	Size				
Blank - Standard	3 - 1/2"	Blank -		PR - ApolloXpress	
LF - Lead Free	4 - 3/4"	NPT Testcock			
	5 - 1"	(1-1/4" x 2")			
	6 - 1-1/4"	F -			
	7 - 1-1/2"	SAE Testcock			
	8 - 2"	(1/2" - 1")			

www.apollovalves.com

APOLLO VALVES Customer Service (704) 841-6000



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

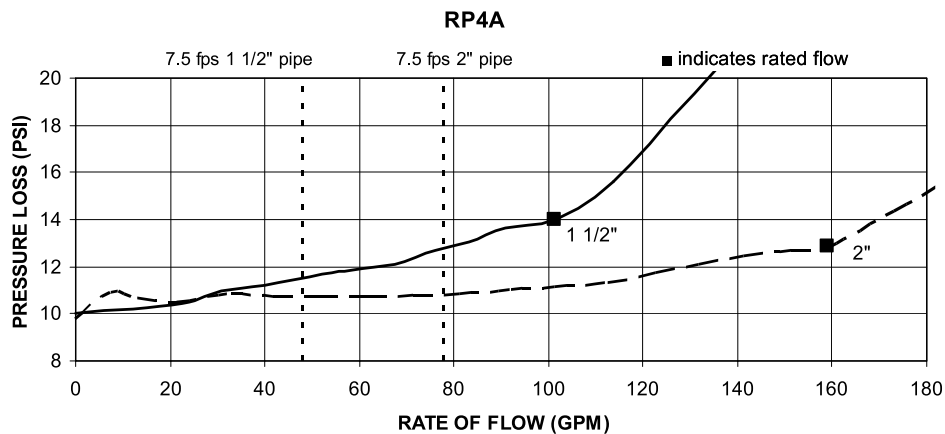
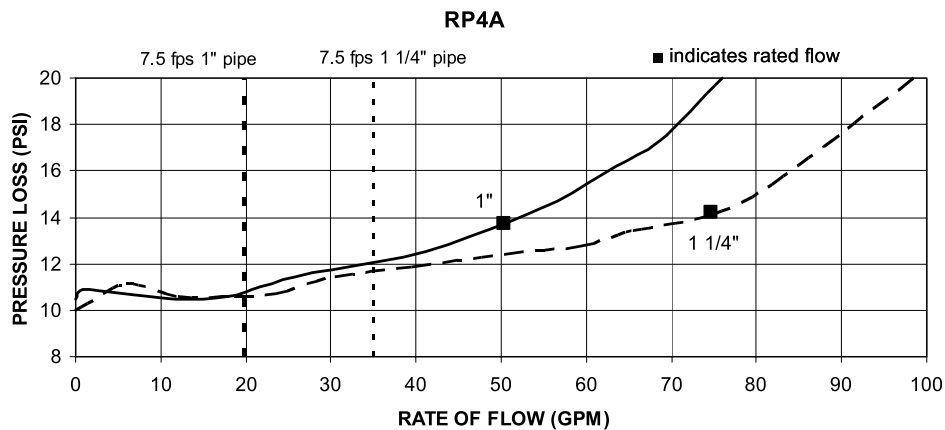
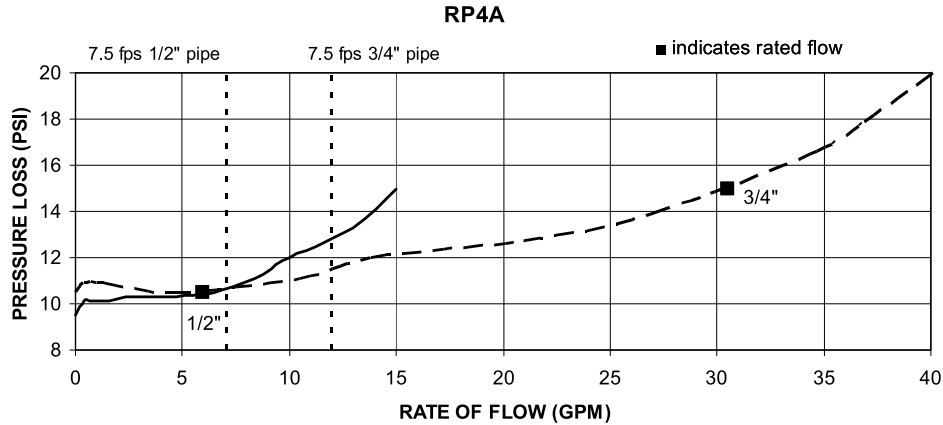
RPLF4A SERIES

Lead Free Reduced Pressure Valves

APOLLOXPRESS®

FLOW CURVES:

Curves developed from independent approval agencies actual tests – Consult factory for details. ■ indicates rated flow as determined by approval agencies, 7.5 ft/sec is the typical maximum Plumbing system flow rate.



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



www.elkhartproducts.com

ELKHART PRODUCTS CORPORATION Customer Service (574) 264-3181



The APOLLOXPRESS® small diameter fittings (½" - 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. **Made in the USA.**

The APOLLOXPRESS® large diameter copper fittings (2 ½" - 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.**

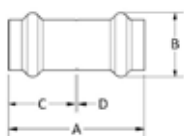
Small & Large Diameter Fittings

APOLLOXPRESS®

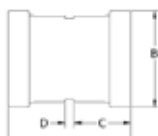
Your Single Source Solution for Press Technology

Copper Coupling with Stop

Small Diameter



Large Diameter



Dimensions shown in inches

Item No.	Description	A	B	C	D	Height	Length	Depth
10075500	800 1/2 CxC CPLG W/ ST	1.74	0.95	0.76	0.23	0.95	1.74	0.95
10075502	800 3/4 CxC CPLG W/ ST	1.92	1.24	0.92	0.24	1.25	1.93	1.25
10075504	800 1 CxC CPLG W/ ST	2.30	1.49	1.11	0.09	1.50	2.08	1.50
10075506	800 1 1/4 CxC CPLG W/ ST	2.34	1.75	1.07	0.25	1.75	2.34	1.75
10075508	800 1 1/2 CxC CPLG W/ ST	3.11	2.11	1.45	0.25	2.11	3.11	2.11
10075510	800 2 CxC CPLG W/ ST	3.42	2.56	1.61	0.25	2.56	3.42	2.56
10061947	800 2 1/2 CxC CPLG W/ ST	4.30	3.04	1.90	0.50	3.04	4.30	3.20
10061952	800 3 CxC CPLG W/ ST	4.70	3.56	2.10	0.50	3.56	4.70	3.70
10061957	800 4 CxC CPLG W/ ST	5.50	4.70	2.50	0.50	4.70	5.50	4.70

Copper Coupling without Stop

Small Diameter



Large Diameter



Dimensions shown in inches

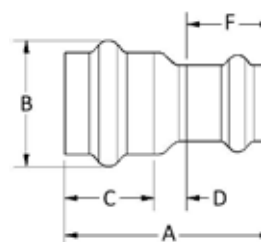
Item No.	Description	A	B	Height	Length	Depth
10075513	801 1/2 CxC CPLG W/O ST	1.74	0.95	0.95	1.74	0.95
10075515	801 3/4 CxC CPLG W/O ST	1.92	1.24	1.24	1.92	1.24
10075517	801 1 CxC CPLG W/O ST	2.07	1.50	1.50	2.07	1.50
10075521	801 1 1/4 CxC CPLG W/O ST	2.34	1.75	1.75	2.34	1.75
10075523	801 1 1/2 CxC CPLG W/O ST	3.11	2.11	2.11	3.10	2.11
10075527	801 2 CxC CPLG W/O ST	3.42	2.58	2.58	3.41	2.58
10061932	801 2 1/2 CxC CPLG W/O ST	4.30	3.04	3.04	4.30	3.20
10061937	801 3 CxC CPLG W/O ST	4.70	3.56	3.56	4.70	3.70
10061942	801 4 CxC CPLG W/O ST	5.50	4.70	4.70	5.50	4.70

Copper Reducer Coupling

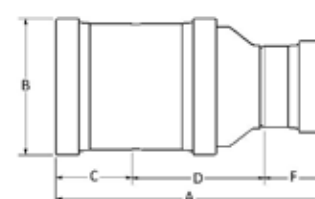
Dimensions shown in inches

Item No.	Description	A	B	C	D	F	Height	Length	Depth
10075900	801R 3/4x1/2 CxC CPLG	2.03	1.24	0.89	0.29	0.85	1.24	2.03	1.24
10075144	801R 1x1/2 CxC CPLG	2.37	1.50	0.97	0.55	0.85	1.50	2.37	1.50
10075898	801R 1x3/4 CxC CPLG	2.43	1.50	0.97	0.61	0.89	1.50	2.43	1.50
10066073	801R 1 1/4x1/2 CxC CPLG	4.27	1.75	1.17	2.25	0.85	1.75	4.27	1.75
10066001	801R 1 1/4x3/4 CxC CPLG	4.13	1.75	1.09	2.15	0.89	1.75	4.13	1.75
10075896	801R 1 1/4x1 CxC CPLG	2.64	1.75	1.09	0.49	0.97	1.75	2.64	1.75
10066380	801R 1 1/2x1/2 CxC CPLG	5.37	2.11	1.31	3.21	0.85	2.11	5.37	2.11
10066381	801R 1 1/2x3/4 CxC CPLG	4.50	2.11	1.31	2.30	0.89	2.11	4.50	2.11
10066003	801R 1 1/2x1 CxC CPLG	4.94	2.11	1.31	2.66	0.97	2.11	4.94	2.11
10075128	801R 1 1/2x1 1/4 CxC CPLG	2.87	2.11	1.31	0.47	1.09	2.11	2.87	2.11
10066082	801R 2x1/2 CxC CPLG	6.67	2.58	1.51	4.31	0.85	2.58	6.67	2.58
10066398	801R 2x3/4 CxC CPLG	6.52	2.58	1.51	4.12	0.89	2.58	6.52	2.58
10066005	801R 2x1 CxC CPLG	5.23	2.58	1.51	2.75	0.97	2.58	5.23	2.58
10066072	801R 2x1 1/4 CxC CPLG	4.99	2.58	1.51	2.39	1.09	2.58	4.99	2.58
10075130	801R 2x1 1/2 CxC CPLG	3.50	2.58	1.51	0.68	1.31	2.58	3.50	2.58
10066440	801R 2 1/2x1 CxC CPLG	6.80	3.04	1.90	6.07	0.97	3.04	6.80	3.20
10066441	801R 2 1/2x1 1/4 CxC CPLG	6.61	3.04	1.90	5.64	1.09	3.04	6.61	3.20
10066442	801R 2 1/2x1 1/2 CxC CPLG	6.68	3.04	1.90	5.48	1.31	3.04	6.68	3.20
10066074	801R 2 1/2x2 CxC CPLG	6.68	3.04	1.90	3.27	1.51	3.04	6.68	3.20
10066444	801R 3x3/4 CxC CPLG	7.45	3.56	2.10	9.57	0.89	3.56	7.45	3.70
10066445	801R 3x1 1/2 CxC CPLG	10.38	3.56	2.10	8.67	1.31	3.56	10.38	3.70
10066446	801R 3x2 CxC CPLG	7.16	3.56	2.10	6.47	1.51	3.56	7.16	4.70
10066076	801R 3x2 1/2 CxC CPLG	7.85	3.56	2.10	3.85	1.90	3.56	7.85	3.70
10066447	801R 4x2 CxC CPLG	8.63	4.70	2.50	7.68	1.51	4.70	8.63	4.70
10066151	801R 4x2 1/2 CxC CPLG	9.21	4.70	2.50	4.81	1.90	4.70	9.21	4.70
10066152	801R 4x3 CxC CPLG	9.41	4.70	2.50	4.81	2.10	4.70	9.41	4.70

Small Diameter



Large Diameter



Copper Extended Length Coupling Without Stop

Dimensions shown in inches

Item No.	Description	A	B	Height	Length	Depth
10075030	801 ½ CXC COUPLING W/O STOP	3.30	0.95	0.95	3.30	0.95
10075032	802 ¾ CXC COUPLING W/O STOP	3.00	1.24	1.24	3.00	1.24
10075034	803 1 CXC COUPLING W/O STOP	3.58	1.50	1.50	3.58	1.50

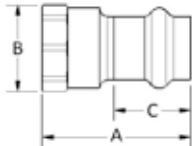


Low Lead Brass Female Adapter

Female Adapter



Female Reducing Adapter



Dimensions shown in inches

Item No.	Description	A	B	C	Height	Length	Depth
10075750	803 ½ CxF ADAPT	1.52	0.96	0.76	0.96	1.52	0.96
10075752	803 ¾ CxF ADAPT	1.73	1.20	0.92	1.20	1.73	1.20
10075754	803 1 CxF ADAPT	1.76	1.47	0.92	1.47	1.76	1.47
10075756	803 1¼ CxF ADAPT	1.90	1.83	1.04	1.83	1.90	1.83
10075758	803 1½ CxF ADAPT	2.43	2.08	1.43	2.08	2.43	2.08
10075760	803 2 CxF ADAPT	2.61	2.57	1.59	2.57	2.61	2.57
Female Reducing Adapters							
10075780	803R ½x¾ CxF ADAPT	1.34	0.80	0.76	0.80	1.34	0.80
10075782	803R ½x¾ CxF ADAPT	1.62	1.20	0.76	1.20	1.62	1.20
10075784	803R ¾x1 CxF ADAPT	1.50	0.96	0.92	0.96	1.50	0.96
10075796	803R 1x1½ CxF ADAPT	1.55	1.46	0.92	1.46	1.55	1.46
10075798	803R 1x¾ CxF ADAPT	1.56	1.46	0.92	1.46	1.56	1.46
10075800	803R 1x1¼ CxF ADAPT	1.96	1.83	0.92	1.83	1.96	1.83
10075786	803R 1¼x1 CxF ADAPT	1.79	0.96	1.04	0.96	1.79	0.96
10075788	803R 1¼x1 CxF ADAPT	1.80	1.47	1.04	1.47	1.80	1.47
10075790	803R 1¼x1½ CxF ADAPT	1.98	2.08	1.04	2.08	1.98	2.08
10075792	803R 1½x¾ CxF ADAPT	2.03	2.09	1.43	2.09	2.03	2.09
10075794	803R 1½x1¼ CxF ADAPT	2.19	2.09	1.43	2.09	2.19	2.09

Low Lead Brass Female Street Adapter

Female Street Adapter



Female Reducing Street Adapter



Dimensions shown in inches

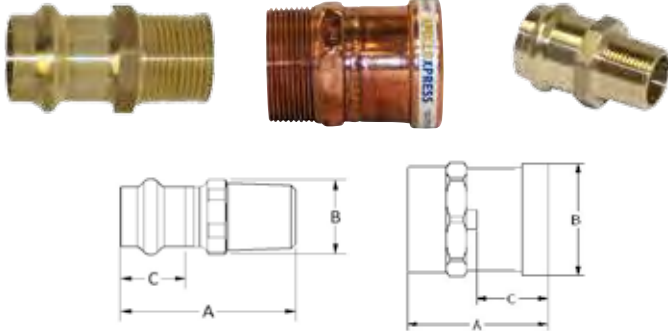
Item No.	Description	A	B	Height	Length	Depth
10075762	803-2 ½ FTGxF ADAPT	1.72	0.96	0.96	1.72	0.96
10075768	803-2 ¾ FTGxF ADAPT	1.92	1.20	1.20	1.92	1.20
10075772	803-2 1 FTGxF ADAPT	2.03	1.47	1.47	2.03	1.47
10075774	803-2 1¼ FTGxF ADAPT	2.19	1.83	1.83	2.19	1.83
10075776	803-2 1½ FTGxF ADAPT	2.57	2.08	2.08	2.57	2.08
10075778	803-2 2 FTGxF ADAPT	2.78	2.57	2.57	2.78	2.57
Female Reducing Street Adapters						
10075764	803-2 ½x¾ FTGxF ADAPT	1.57	0.80	0.80	1.57	0.80
10075766	803-2 ½x¾ FTGxF ADAPT	1.80	1.20	1.20	1.80	1.20
10075770	803-2 ¾x1 FTGxF ADAPT	1.84	0.96	0.96	1.84	0.96
10075804	803-2 1x1½ FTGxF ADAPT	1.65	1.12	1.12	1.65	1.12
10075802	803-2 1¼x1½ FTGxF ADAPT	1.90	1.37	1.37	1.90	1.37

Male Adapter

Small Diameter

Large Diameter

Reducing Adapter



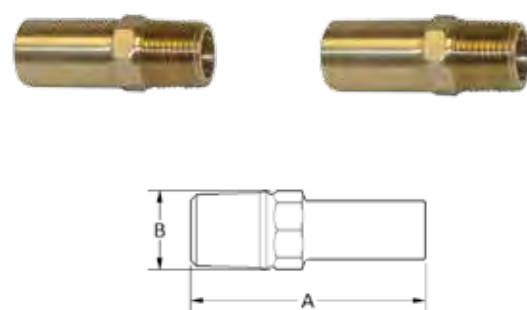
Dimensions shown in inches

Item No.	Description	A	B	C	Height	Length	Depth
10075806	804 1/2 CxM ADAPT	1.92	0.95	0.76	0.95	1.92	0.95
10075808	804 3/4 CxM ADAPT	2.15	1.24	0.92	1.24	2.15	1.24
10075844	804 1 CxM ADAPT	2.39	1.41	0.92	1.41	2.39	1.75
10075810	804 1 1/4 CxM ADAPT	2.39	1.75	1.04	1.75	2.39	2.09
10075812	804 1 1/2 CxM ADAPT	2.68	2.09	1.43	2.09	2.68	2.55
10075814	804 2 CxM ADAPT	2.97	2.55	1.59	2.55	2.97	2.46
10061982	804 2 1/2 CxM ADAPT	4.11	3.16	1.90	3.16	4.11	3.16
10061987	804 3 CxM ADAPT	4.35	3.68	2.10	3.68	4.35	3.70
10061992	804 4 CxM ADAPT	5.43	4.70	2.50	4.70	5.43	3.16
Male Reducing Adapters							
10075836	804R 1/2x3/4 CxM ADAPT	1.79	0.83	0.76	0.83	1.79	0.83
10075838	804R 1/2x3/8 CxM ADAPT	1.86	0.98	0.76	0.98	1.86	0.98
10075840	804R 3/4x1/2 CxM ADAPT	2.21	1.18	0.92	1.18	2.21	1.18
10075842	804R 3/4x1 CxM ADAPT	2.60	1.41	0.92	1.41	2.60	1.41
10075854	804R 1x3/4 CxM ADAPT	2.24	1.41	0.92	1.41	2.24	1.41
10075856	804R 1x1 1/4 CxM ADAPT	2.44	1.66	0.92	1.66	2.44	1.66
10075846	804R 1 1/4x1 CxM ADAPT	2.42	1.74	1.04	1.74	2.42	1.74
10075848	804R 1 1/4x1 1/2 CxM ADAPT	2.62	1.74	1.04	1.74	2.62	1.74
10075850	804R 1 1/2x1 1/4 CxM ADAPT	2.73	2.09	1.43	2.09	2.73	2.09
10075852	804R 1 1/2x2 CxM ADAPT	2.82	2.46	1.43	2.46	2.82	2.46
10075858	804R 2x1 1/2 CxM ADAPT	3.10	2.55	1.59	2.55	3.10	2.55

Low Lead Brass Male Street Adapter

Small Diameter

Reducing Adapter



Dimensions shown in inches

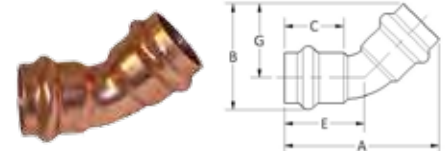
Item No.	Description	A	B	Height	Length	Depth
10075816	804-2 1/2 FTGxM ADAPT	2.24	0.78	0.78	2.24	0.78
10075822	804-2 3/4 FTGxM ADAPT	2.40	0.98	0.98	2.40	0.98
10075826	804-2 1 FTGxM ADAPT	2.72	1.26	1.26	2.72	1.26
10075828	804-2 1 1/4 FTGxM ADAPT	2.82	1.56	1.56	2.82	1.56
10075830	804-2 1 1/2 FTGxM ADAPT	2.27	1.81	1.81	2.27	1.81
10075834	804-2 2 FTGxM ADAPT	3.46	2.24	2.24	3.46	2.24
Male Reducing Street Adapters						
10075818	804-2 1/2x3/8 FTGxM ADAPT	1.99	0.63	0.63	1.99	0.63
10075820	804-2 1/2x3/4 FTGxM ADAPT	2.42	0.98	0.98	2.42	0.98
10075824	804-2 3/4x1/2 FTGxM ADAPT	2.31	0.91	0.91	2.31	0.91
10075832	804-2 1x1/4 FTGxM ADAPT	2.55	1.25	1.25	2.55	1.25

Copper 45° Elbow

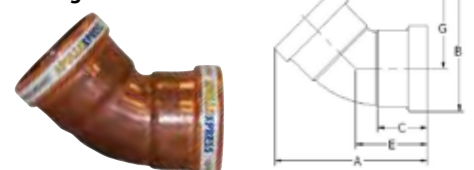
Dimensions shown in inches

Item No.	Description	A	B	C	E	G	Height	Length	Depth
10075060	806 1/2 CxC 45 EL	2.28	1.57	0.85	1.18	1.09	1.57	2.28	0.95
10075062	806 3/4 CxC 45 EL	2.59	1.78	0.89	1.31	1.16	1.78	2.59	1.24
10075064	806 1 CxC 45 EL	3.01	2.13	0.97	1.50	1.38	2.13	3.01	1.50
10075090	806 1 1/4 CxC 45 EL	3.62	2.69	1.09	1.81	1.81	2.69	3.62	1.75
10075092	806 1 1/2 CxC 45 EL	4.20	3.17	1.31	2.09	2.11	3.17	4.20	2.11
10075094	806 2 CxC 45 EL	5.13	3.73	1.51	2.53	2.44	3.73	5.13	2.58
10062052	806 2 1/2 CxC 45 EL	5.85	4.65	1.90	2.81	3.13	4.65	5.85	3.16
10062057	806 3 CxC 45 EL	6.55	5.31	2.10	3.10	3.53	5.31	6.55	3.56
10062062	806 4 CxC 45 EL	7.92	6.61	2.50	3.78	4.26	6.61	7.92	4.70

Small Diameter

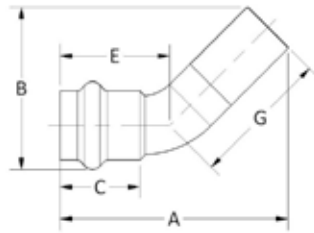


Large Diameter

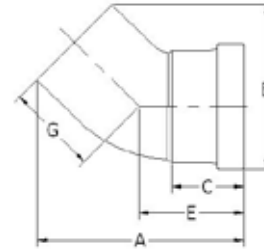


Copper 45° Street Elbow

Small Diameter



Large Diameter



Dimensions shown in inches

Item No.	Description	A	B	C	E	G	Height	Length	Depth
10075054	806-2 ½ FTGxC 45 ST EL	2.45	1.64	0.85	1.18	1.50	1.64	2.45	0.95
10075056	806-2 ¾ FTGxC 45 ST EL	2.63	1.82	0.89	1.31	1.44	1.82	2.63	1.24
10075058	806-2 1 FTGxC 45 ST EL	3.04	2.17	0.97	1.50	1.63	2.17	3.04	1.50
10075084	806-2 1 ¼ FTGxC 45 ST EL	3.61	2.55	1.09	1.81	1.86	2.55	3.61	1.75
10075086	806-2 1 ½ FTGxC 45 ST EL	4.19	3.00	1.31	2.09	2.16	3.00	4.19	2.11
10075088	806-2 2 FTGxC 45 ST EL	5.09	3.69	1.51	2.53	2.58	3.69	5.09	2.58
10062037	806-2 2 ½ FTGxC 45 EL	5.97	4.74	1.90	2.81	3.16	4.74	5.97	3.16
10062042	806-2 3 FTGxC 45 EL	6.62	5.36	2.10	3.10	3.41	5.36	6.62	3.56
10062047	806-2 4 FTGxC 45 EL	8.18	6.74	2.50	3.78	4.16	6.74	8.18	4.70

Copper 90° Elbow

Small Diameter



Large Diameter Close Turn



Large Diameter Close Turn Reducing



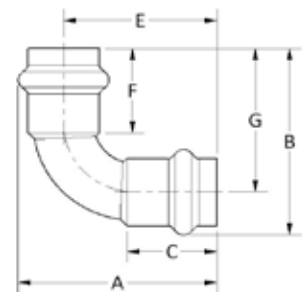
Large Diameter Long Turn



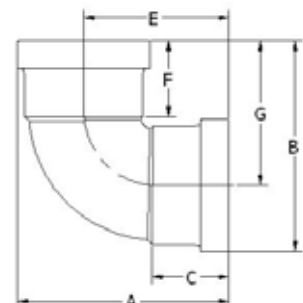
Dimensions shown in inches

Item No.	Description	A	B	C	E	F	G	Height	Length	Depth
10075554	807 ½ CXC 90 DEG. EL	1.97	1.97	0.76	1.50	0.76	1.50	1.97	1.97	0.95
10075556	807 ¾ CXC 90 DEG. EL	2.50	2.50	0.92	1.88	0.92	1.88	2.50	2.50	1.24
10075052	807 1 CxC 90 EL	3.00	3.00	0.97	2.25			3.00	3.00	1.50
10075078	807 1 ¼ CxC 90 EL	3.83	3.83	1.09	2.96			3.83	3.83	1.75
10075080	807 1 ½ CxC 90 EL	4.39	4.39	1.31	3.33			4.39	4.39	2.11
10075082	807 2 CxC 90 EL	5.35	5.35	1.51	4.06			5.35	5.35	2.58
Reducing Elbow										
10066101	807 ¾x½ CxC 90 EL	2.49	3.65	0.89	1.88	0.85	3.03	3.65	2.49	1.24
10066099	807 1x½ CxC 90 EL	3.00	4.12	0.97	2.25	0.85	3.70	4.12	3.00	1.49
10066083	807 1x¾ CxC 90 EL	3.00	4.27	0.97	2.25	0.89	3.51	4.27	3.00	1.49
Close Turn Elbow - Large Diameter Copper										
10062021	807-C 2½ CxC 90 EL	5.23	5.23	1.90	3.65			5.23	5.23	3.16
10062027	807-C 3 CxC 90 EL	5.94	5.94	2.10	4.10			5.95	5.95	3.56
10062032	807-C 4 CxC 90 EL	7.43	7.43	2.50	5.09			7.44	7.44	4.70
Close Turn Reducing Elbow - Large Diameter Copper										
10066460	807 3x2 CxC 90 EL	8.19	5.94	2.10	4.10	1.51	9.26	5.94	8.19	3.70
10066141	807 3x2½ CxC 90 EL	5.94	8.88	2.10	4.10	1.90	7.03	5.94	8.88	3.70
Long Turn Elbow - Large Diameter Copper										
10062066	807-L 2½ CxC 90 EL	6.67	6.67	1.90	5.09			6.67	6.67	3.20
10062067	807-L 3 CxC 90 EL	8.56	8.56	2.10	6.72			8.56	8.56	3.70
10062069	807-L 4 CxC 90 EL	9.75	9.75	2.50	7.40			9.75	9.75	4.70

Small Diameter



Large Diameter



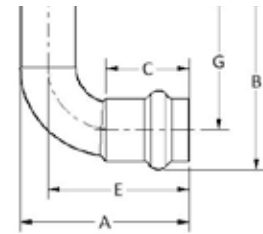
Copper 90° Street Elbow



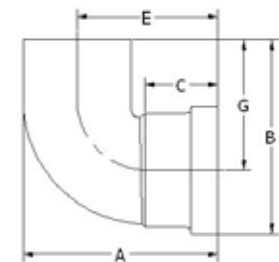
Dimensions shown in inches

Item No.	Description	A	B	C	E	G	Height	Length	Depth
10075566	807-2 1/2 FTGXC 90 ST EL	1.97	1.85	0.76	1.50	1.54	1.97	1.85	0.95
10075568	807-2 3/4 FTGXC 90 ST EL	2.32	2.62	0.92	1.88	2.01	2.32	2.62	1.24
10075046	807-2 1 FTGXC 90 ST EL	2.81	3.12	0.97	2.25	2.45	3.12	2.81	1.50
10075072	807-2 1 1/4 FTGXC 90 ST EL	3.64	3.78	1.09	2.95	2.91	3.78	3.64	1.75
10075074	807-2 1 1/2 FTGXC 90 ST EL	4.14	4.34	1.31	3.33	3.28	4.34	4.14	2.11
10075076	807-2 2 FTGXC 90 ST EL	5.12	5.48	1.51	4.06	4.19	5.48	5.12	2.58
Close Turn Street Elbow - Large Diameter Copper									
10062007	807-C-2 2 1/2 CxC 90 EL	4.96	5.54	1.90	3.65	2.03	5.54	4.96	3.16
10062012	807-C-2 3 CxC 90 EL	5.66	6.25	2.10	4.10	2.25	6.26	5.66	3.68
10062017	807-C-2 4 CxC 90 EL	7.15	7.88	2.50	5.09	5.54	7.89	7.15	4.70
Long Turn Street Elbow - Large Diameter Copper									
10062071	807-L-2 2 1/2 CxC 90 EL	6.40	6.92	1.90	5.09	5.34	6.92	6.40	3.16
10062073	807-L-2 3 CxC 90 EL	8.28	8.71	2.10	6.72	6.87	8.71	8.28	3.56
10062074	807-L-2 4 CxC 90 EL	10.44	10.46	2.50	8.38	8.63	10.46	10.44	4.70

Small Diameter



Large Diameter

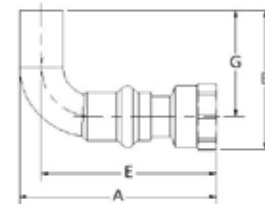


Copper & Low Lead Brass 90° Female Elbow



Dimensions shown in inches

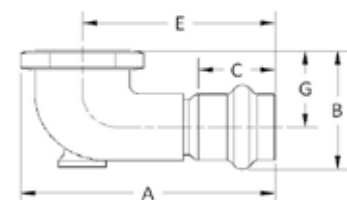
Item No.	Description	A	B	E	G	Height	Length	Depth
10066578	8707-3-2 1/2 FTGxF 90 EL	2.64	2.85	2.53	1.63	2.85	2.64	1.00



Copper & Low Lead Brass 90° Drop Ear Elbow

Dimensions shown in inches

Item No.	Description	A	B	C	E	G	Height	Length	Depth
10075366	8707-3-5 1/2 CxF 90 DRP EAR EL	2.73	1.39	0.85	2.07	0.94	1.39	2.73	1.00
10075368	8707-3-5 3/4 CxF 90 DRP EAR EL	3.29	1.62	0.89	2.45	1.13	1.62	3.29	1.25
10075369	8707-3-5 1 CxF 90 DRP EAR EL	3.91	2.00	0.97	2.84	1.25	2.00	3.91	1.50
Reducing Drop Ear Elbow									
10075367	8707-3-5 1/2x3/4 CxF 90 DRP EAR EL	2.47	1.29	0.85	1.97	0.81	1.29	2.47	1.00



Copper & Low Lead Brass 90° Female Elbow

Dimensions shown in inches

Item No.	Description	A	B	C	E	G	Height	Length	Depth
10066560	8707-3 ½ CxF 90 EL	2.10	2.99	0.85	1.59	2.65	2.99	2.10	1.01
10066561	8707-3 ¾ CxF 90 EL	2.50	3.50	0.89	1.88	2.88	3.50	2.50	1.25
10066562	8707-3 1 CxF 90 EL	3.01	4.24	0.97	2.25	3.49	4.24	3.01	1.53
10066563	8707-3 1 ¼ CxF 90 EL	3.92	5.09	1.09	2.96	4.22	5.09	3.92	1.77
10066564	8707-3 1 ½ CxF 90 EL	4.43	5.63	1.31	3.33	4.58	5.63	4.43	2.12
10066565	8707-3 2 CxF 90 EL	5.43	6.63	1.51	4.06	5.35	6.63	5.43	2.60
Reducing Female Elbow									
10066566	8707-3 ½x¾ CxF 90 RED EL	2.07	2.85	0.85	1.59	2.37	2.85	2.07	0.95
10066567	8707-3 ½x¾ CxF 90 RED EL	2.22	3.07	0.85	1.59	2.60	3.07	2.22	1.25
10066568	8707-3 ¾x½ CxF 90 RED EL	2.50	3.44	0.89	1.88	2.39	3.44	2.50	1.24
10066569	8707-3 1x½ CxF 90 RED EL	3.00	3.99	0.97	2.25	3.24	3.99	3.00	1.50



Copper & Low Lead Brass 90° Male Elbow

Dimensions shown in inches

Item No.	Description	A	B	C	E	G	Height	Length	Depth
10066570	8707-4 ½ CxM 90 EL	2.07	3.52	0.85	1.59	3.05	3.52	2.07	0.95
10066571	8707-4 ¾ CxM 90 EL	2.50	3.98	0.89	1.88	3.36	3.98	2.50	1.24
10066572	8707-4 1 CxM 90 EL	3.00	4.92	0.97	2.25	4.17	4.92	3.00	1.50
10066573	8707-4 1 ¼ CxM 90 EL	3.83	5.74	1.09	2.96	4.86	5.74	3.83	1.75
10066574	8707-4 1 ½ CxM 90 EL	4.38	6.35	1.31	3.33	5.29	6.35	4.38	2.13
10066575	8707-4 2 CxM 90 EL	5.35	7.36	1.51	4.06	6.07	7.36	5.35	2.60
Reducing Male Elbow									
10066576	8707-4 ½x¾ CxM 90 RED EL	2.12	3.56	0.85	1.59	3.08	3.56	2.12	1.24
10066577	8707-4 ¾x½ CxM 90 RED EL	2.50	3.93	0.89	1.88	3.31	3.93	2.50	1.24



Copper Reducing Outlet Tee

Single Piece



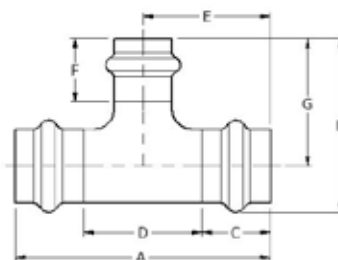
Small Diameter



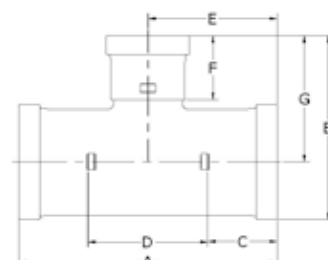
Large Diameter



Small Diameter



Large Diameter



Dimensions shown in inches

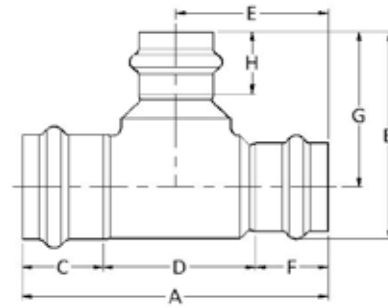
Item No.	Description	A	B	C	D	E	F	G	Height	Length	Depth
10075906	811 3/4x1/2 CxCxC TEE	3.12	2.06	0.89	1.48	1.63	0.85	1.71	2.06	3.12	1.24
10075904	811 1x1x1/2 CxCxC TEE	3.32	2.34	0.97	1.34	1.64	0.85	1.71	2.34	3.32	0.50
10075902	811 1x1x3/4 CxCxC TEE	3.66	2.44	0.97	1.40	1.67	0.89	1.72	2.44	3.66	1.50
10075106	811 1 1/4x1 1/4x1/2 CxCxC TEE	4.12	3.04	1.09	1.94	2.06	0.85	2.29	3.04	4.12	1.75
10075102	811 1 1/4x1 1/4x3/4 CxCxC TEE	4.12	3.10	1.09	1.94	2.06	0.89	2.22	3.10	4.12	1.75
10075104	811 1 1/4x1 1/4x1 CxCxC TEE	4.12	3.04	1.09	1.94	2.06	0.97	2.16	3.04	4.12	1.75
10066015	811 1 1/2x1 1/2x1/2 CxCxC TEE	4.00	4.26	1.31	1.38	2.00	0.85	3.20	4.26	4.00	2.11
10075108	811 1 1/2x1 1/2x3/4 CxCxC TEE	4.00	3.07	1.31	1.38	2.00	0.89	2.02	3.07	4.00	2.11
10075110	811 1 1/2x1 1/2x1 CxCxC TEE	4.25	3.16	1.31	1.63	2.13	0.97	2.11	3.16	4.25	2.11
10075112	811 1 1/2x1 1/2x1 1/4 CxCxC TEE	4.50	3.28	1.31	1.88	2.25	1.09	2.22	3.28	4.50	2.11
10066385	811 2x2x1/2 CxCxC TEE	4.75	5.17	1.51	1.73	2.38	0.85	3.03	5.17	4.75	2.58
10075114	811 2x2x3/4 CxCxC TEE	4.50	3.65	1.51	1.48	2.25	0.89	2.36	3.65	4.50	2.58
10075116	811 2x2x1 CxCxC TEE	4.75	3.72	1.51	1.73	2.38	0.97	2.44	3.72	4.75	2.58
10075118	811 2x2x1 1/4 CxCxC TEE	5.00	3.84	1.51	1.98	2.50	1.09	2.55	3.84	5.00	2.58
10075120	811 2x2x1 1/2 CxCxC TEE	5.75	4.35	1.51	2.73	2.88	1.31	3.06	4.35	5.75	2.58
10062079	811 3x3x2 1/2 CxCxC TEE	8.00	6.01	2.10	3.80	4.00	1.90	4.17	6.01	8.00	3.56
10062078	811 4x4x2 1/2 CxCxC TEE	9.84	7.02	2.50	4.84	4.92	1.90	4.67	7.02	9.84	4.70
10062076	811 4x4x3 CxCxC TEE	9.84	7.28	2.50	4.84	4.92	2.10	4.93	7.28	9.84	4.70

Single Piece Copper Reducing Outlet Tee

10068042	811R 2 1/2x2 1/2x1/2 REDUCED TEE	7.15	5.58	1.90	3.35	3.58	0.85	4.00	5.58	7.15	3.27
10068045	811R 2 1/2x2 1/2x3/4 REDUCED TEE	7.15	5.42	1.90	3.35	3.58	0.89	3.84	5.42	7.15	3.27
10068048	811R 2 1/2x2 1/2x1 REDUCED TEE	7.15	5.21	1.90	3.35	3.58	0.97	3.63	5.21	7.15	3.27
10068051	811R 2 1/2x2 1/2x1 1/4 REDUCED TEE	7.15	4.58	1.90	3.35	3.58	1.04	3.00	4.58	7.15	3.27
10068054	811R 2 1/2x2 1/2x1 1/2 REDUCED TEE	7.15	4.83	1.90	3.35	3.58	1.43	3.25	4.83	7.15	3.27
10068057	811R 2 1/2x2 1/2x2 REDUCED TEE	7.15	5.08	1.90	3.35	3.58	1.59	3.50	5.08	7.15	3.27
10068060	811R 3x3x1/2 REDUCED TEE	7.95	6.21	2.10	3.75	3.98	0.85	4.37	6.21	7.95	3.80
10068063	811R 3x3x3/4 REDUCED TEE	7.95	6.05	2.10	3.75	3.98	0.89	4.21	6.05	7.95	3.80
10068066	811R 3x3x1 REDUCED TEE	7.95	5.84	2.10	3.75	3.98	0.97	4.00	5.84	7.95	3.80
10068069	811R 3x3x1 1/4 REDUCED TEE	7.95	5.09	2.10	3.75	3.98	1.04	3.25	5.09	7.95	3.80
10068072	811R 3x3x1 1/2 REDUCED TEE	7.95	5.34	2.10	3.75	3.98	1.43	3.50	5.34	7.95	3.80
10068075	811R 3x3x2 REDUCED TEE	7.95	5.59	2.10	3.75	3.98	1.59	3.75	5.59	7.95	3.80
10068078	811R 4x4x1/2 REDUCED TEE	9.84	7.33	2.50	4.84	4.92	0.85	4.98	7.33	9.84	4.80
10068081	811R 4x4x3/4 REDUCED TEE	9.84	7.17	2.50	4.84	4.92	0.89	4.82	7.17	9.84	4.80
10068084	811R 4x4x1 REDUCED TEE	9.84	6.96	2.50	4.84	4.92	0.97	4.61	6.96	9.84	4.80
10068087	811R 4x4x1 1/4 REDUCED TEE	9.84	6.10	2.50	4.84	4.92	1.04	3.75	6.10	9.84	4.80
10068090	811R 4x4x1 1/2 REDUCED TEE	9.84	6.35	2.50	4.84	4.92	1.43	4.00	6.35	9.84	4.80
10068093	811R 4x4x2 REDUCED TEE	9.84	6.60	2.50	4.84	4.92	1.59	4.25	6.60	9.84	4.80

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

Copper Reducing Run/Outlet Tee - Small Diameter



Dimensions shown in inches

Item No.	Description	A	B	C	D	E	F	G	H	Height	Length	Depth
10066590	811 3/4x1/2x1/2 CxCxC TEE	4.41	2.33	0.89	2.67	2.78	0.85	1.71	0.85	2.33	4.41	1.24
10066039	811 3/4x1/2x3/4 CxCxC TEE	4.10	2.10	0.89	2.32	2.62	0.85	1.48	0.89	2.10	4.10	1.24
10066591	811 1x1/2x1/2 CxCxC TEE	4.73	2.46	0.97	2.91	3.09	0.85	1.71	0.85	2.46	4.73	1.50
10066592	811 1x1/2x3/4 CxCxC TEE	4.69	2.46	0.97	2.91	3.05	0.81	1.71	0.85	2.46	4.69	1.50
10066066	811 1x1/2x1 CxCxC TEE	5.20	2.60	0.97	3.38	3.32	0.85	1.85	0.97	2.60	5.20	1.50
10066593	811 1x3/4x1/2 CxCxC TEE	4.57	2.46	0.97	2.71	2.93	0.89	1.71	0.85	2.45	4.58	1.50
10066594	811 1x3/4x3/4 CxCxC TEE	4.64	2.34	0.97	2.78	2.96	0.89	1.72	0.97	2.34	4.64	1.50
10066040	811 1x3/4x1 CxCxC TEE	4.98	2.60	0.97	3.12	3.12	0.89	1.85	0.97	2.60	4.98	1.50
10066102	811 1x3/4x1 1/4 CxCxC TEE	7.09	2.94	0.97	5.23	3.67	0.89	2.06	1.09	2.94	7.09	1.75
10066049	811 1 1/4x1/2x1/2 CxCxC TEE	5.87	3.04	1.09	3.93	3.80	0.85	2.29	0.85	3.04	5.87	1.75
10066080	811 1 1/4x1/2x1 CxCxC TEE	5.50	3.04	1.09	3.56	3.44	0.85	2.16	0.97	3.04	5.50	1.75
10066392	811 1 1/4x1/2x1 1/4 CxCxC TEE	5.86	2.94	1.09	3.92	3.80	0.85	2.06	1.09	2.94	5.86	1.75
10066051	811 1 1/4x3/4x1/2 CxCxC TEE	5.73	3.04	1.09	3.75	3.67	0.89	2.29	0.85	3.04	5.73	1.75
10066052	811 1 1/4x3/4x3/4 CxCxC TEE	5.73	3.10	1.09	3.75	3.67	0.89	2.22	0.89	3.10	5.73	1.75
10066053	811 1 1/4x3/4x1 CxCxC TEE	5.73	3.04	1.09	3.75	3.67	0.89	2.16	0.97	3.04	5.73	1.75
10066054	811 1 1/4x3/4x1 1/4 CxCxC TEE	5.73	2.94	1.09	3.75	3.67	0.89	2.06	1.09	2.94	5.73	1.75
10066044	811 1 1/4x3/4x1 1/2 CxCxC TEE	7.78	3.43	1.09	5.80	4.03	0.89	2.38	1.31	3.43	7.78	1.75
10066055	811 1 1/4x1x1/2 CxCxC TEE	5.44	3.04	1.09	3.38	3.38	0.97	2.29	0.85	3.04	5.44	1.75
10075122	811 1 1/4x1x3/4 CxCxC TEE	4.10	3.10	1.09	2.04	2.04	0.97	2.22	0.89	3.10	4.10	1.75
10075124	811 1 1/4x1x1 CxCxC TEE	4.10	3.04	1.09	2.04	2.04	0.97	2.16	0.97	3.04	4.10	1.75
10066056	811 1 1/4x1x1 1/4 CxCxC TEE	5.44	2.94	1.09	3.38	3.38	0.97	2.06	1.09	2.94	5.44	2.11
10066395	811 1 1/4x1x1 1/2 CxCxC TEE	7.50	3.43	1.09	5.44	3.74	0.97	2.38	1.31	3.43	7.50	2.11
10066394	811 1 1/2x1/2x1 1/4 CxCxC TEE	6.38	3.28	1.31	4.22	4.13	0.85	2.22	1.09	3.28	6.38	2.11
10066009	811 1 1/2x1/2x1 1/2 CxCxC TEE	6.63	3.43	1.31	4.47	4.26	0.85	2.38	1.31	3.43	6.63	2.11
10066195	811 1 1/2x3/4x1/2 CxCxC TEE	5.54	4.22	1.31	3.34	3.54	0.89	3.16	0.85	4.22	5.54	2.11
10066383	811 1 1/2x3/4x3/4 CxCxC TEE	5.65	3.07	1.31	3.45	3.65	0.89	2.02	0.89	3.07	5.65	2.11
10066397	811 1 1/2x3/4x1 CxCxC TEE	5.90	3.16	1.31	3.70	3.78	0.89	2.11	0.97	3.16	5.90	2.11
10066058	811 1 1/2x3/4x1 1/4 CxCxC TEE	5.97	3.28	1.31	3.77	3.72	0.89	2.22	1.09	3.28	5.97	2.11
10066043	811 1 1/2x3/4x1 1/2 CxCxC TEE	6.29	3.43	1.31	4.09	3.79	0.89	2.38	1.31	3.43	6.29	2.11
10066042	811 1 1/2x3/4x2 CxCxC TEE	9.90	4.17	1.31	7.70	5.13	0.89	2.88	1.51	4.17	9.90	2.11
10066011	811 1 1/2x1x3/4 CxCxC TEE	5.62	3.07	1.31	3.34	3.62	0.97	2.02	0.89	3.07	5.62	2.11
10066012	811 1 1/2x1x1 CxCxC TEE	5.87	3.16	1.31	3.59	3.74	0.97	2.11	0.97	3.16	5.87	2.11
10066081	811 1 1/2x1x1 1/4 CxCxC TEE	6.12	3.28	1.31	3.84	3.87	0.97	2.22	1.09	3.28	6.12	2.11
10066013	811 1 1/2x1x1 1/2 CxCxC TEE	6.37	3.43	1.31	4.09	3.99	0.97	2.38	1.31	3.43	6.37	2.11
10066108	811 1 1/2x1x2 CxCxC TEE	9.79	4.17	1.31	7.51	5.02	0.97	2.88	1.51	4.17	9.79	2.11
10066059	811 1 1/2x1 1/4x1/2 CxCxC TEE	5.38	4.22	1.31	2.98	3.38	1.09	3.16	0.85	4.22	5.38	2.11
10066060	811 1 1/2x1 1/4x3/4 CxCxC TEE	5.38	3.07	1.31	2.98	3.38	1.09	2.02	0.89	3.07	5.38	2.11
10066014	811 1 1/2x1 1/4x1 CxCxC TEE	5.63	3.16	1.31	3.23	3.51	1.09	2.11	0.97	3.16	5.63	2.11
10075126	811 1 1/2x1 1/4x1 1/2 CxCxC TEE	4.37	3.28	1.31	1.97	2.12	1.09	2.22	1.09	3.28	4.37	2.11
10066393	811 1 1/2x1 1/4x1 1/4 CxCxC TEE	5.88	3.43	1.31	3.48	3.51	1.09	2.38	1.31	3.43	5.88	2.11
10066109	811 1 1/2x1 1/4x2 CxCxC TEE	9.48	4.17	1.31	7.08	4.65	1.09	2.88	1.51	4.17	9.48	2.58

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Copper Reducing Run/Outlet Tee - Small Diameter (cont'd)

Dimensions shown in inches

Item No.	Description	A	B	C	D	E	F	G	H	Height	Length	Depth
10066384	811 2x1/2x2 CxCxC TEE	8.39	4.17	1.51	6.03	5.51	0.85	2.88	1.51	4.17	8.39	2.58
10066121	811 2x3/4x1 1/2 CxCxC TEE	6.76	3.65	1.51	4.36	4.51	0.89	2.36	0.89	3.65	6.76	2.58
10066092	811 2x3/4x1 1/2 CxCxC TEE	8.12	4.35	1.51	5.72	5.24	0.89	3.06	1.31	4.35	8.12	2.58
10066388	811 2x3/4x2 CxCxC TEE	8.01	4.17	1.51	5.61	5.13	0.89	2.88	1.51	4.17	8.01	2.58
10066079	811 2x1x1/2 CxCxC TEE	6.65	4.80	1.51	4.17	4.40	0.97	3.50	0.85	4.80	6.65	2.58
10066062	811 2x1x3/4 CxCxC TEE	6.65	3.65	1.51	4.17	4.40	0.97	2.36	0.89	3.65	6.65	2.58
10066017	811 2x1x1 CxCxC TEE	6.90	3.72	1.51	4.42	4.52	0.97	2.44	0.97	3.72	6.90	2.58
10066126	811 2x1x1 1/4 CxCxC TEE	7.15	3.84	1.51	4.67	4.65	0.97	2.55	1.09	3.84	7.15	2.58
10066197	811 2x1x1 1/2 CxCxC TEE	7.96	4.35	1.51	5.48	5.02	0.97	3.06	1.31	4.35	7.96	2.58
10066018	811 2x1x2 CxCxC TEE	7.90	4.17	1.51	5.42	5.02	0.97	2.88	1.51	4.17	7.90	2.58
10066063	811 2x1 1/4x3/4 CxCxC TEE	6.34	3.65	1.51	3.74	4.09	1.09	2.36	0.89	3.65	6.34	2.58
10066129	811 2x1 1/4x1 CxCxC TEE	6.59	3.72	1.51	3.99	4.21	1.09	2.44	0.97	3.72	6.59	2.58
10066019	811 2x1 1/4x1 1/2 CxCxC TEE	6.84	3.84	1.51	4.24	4.34	1.09	2.55	1.09	3.84	6.84	2.58
10066125	811 2x1 1/4x1 CxCxC TEE	7.59	4.35	1.51	4.99	4.71	1.09	3.06	1.31	4.35	7.59	2.58
10066064	811 2x1 1/4x2 CxCxC TEE	7.59	4.17	1.51	4.99	4.71	1.09	2.88	1.51	4.17	7.59	2.58
10066065	811 2x1 1/2x1 1/2 CxCxC TEE	6.39	4.80	1.51	3.57	4.14	1.31	3.50	0.85	4.80	6.39	2.58
10066020	811 2x1 1/2x3/4 CxCxC TEE	6.39	3.65	1.51	3.57	4.14	1.31	2.36	0.89	3.65	6.39	2.58
10066021	811 2x1 1/2x1 CxCxC TEE	6.64	3.72	1.51	3.82	4.27	1.31	2.44	0.97	3.72	6.64	2.58
10066022	811 2x1 1/2x1 1/4 CxCxC TEE	6.89	3.84	1.51	4.07	4.39	1.31	2.55	1.09	3.84	6.89	2.58
10066023	811 2x1 1/2x1 1/2 CxCxC TEE	7.64	4.35	1.51	4.82	4.77	1.31	3.06	1.31	4.35	7.64	2.58
10066024	811 2x1 1/2x2 CxCxC TEE	7.64	4.17	1.51	4.82	4.77	1.31	2.88	1.51	4.17	7.64	2.58

Copper Tee

Small Diameter



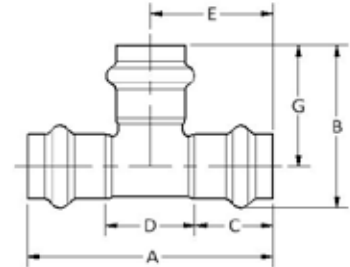
Large Diameter



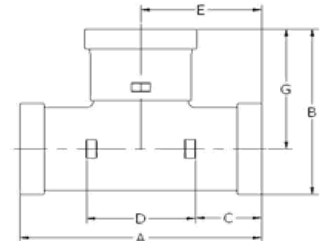
Dimensions shown in inches

Item No.	Description	A	B	C	D	E	G	Height	Length	Depth
10075578	811 1/2 CxCxC TEE	3.07	1.68	0.92	1.31	1.58	1.48	1.68	3.07	0.10
10075580	811 3/4 CxCxC TEE	3.42	2.03	0.95	1.52	1.71	1.74	2.03	3.42	1.25
10075582	811 1 CxCxC TEE	3.74	2.42	0.97	1.99	1.97	1.85	2.42	3.74	1.49
10075096	811 1 1/4 CxCxC TEE	4.12	2.94	1.09	1.94	2.06	2.06	2.94	4.12	1.77
10075098	811 1 1/2 CxCxC TEE	4.75	3.43	1.31	2.13	2.38	2.38	3.43	4.75	2.12
10075100	811 2 CxCxC TEE	5.75	4.17	1.51	2.73	2.88	2.88	4.17	5.75	2.60
10057518	811 2 1/2 CXCX COPPER TEE	7.11	5.33	1.90	3.31	3.56	3.75	5.33	7.11	3.20
10062072	811 3 CXCX COPPER TEE	8.00	6.39	2.10	3.80	4.00	4.56	6.39	8.00	3.70
10062077	811 4 CXCX COPPER TEE	9.88	7.81	2.50	4.81	4.94	5.46	7.81	9.89	4.70

Small Diameter

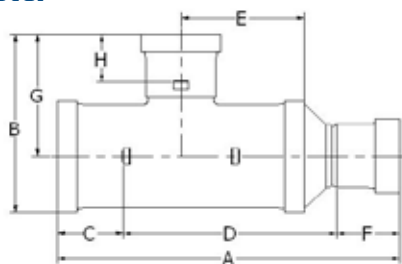


Large Diameter



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Copper Reducing Run/Outlet Tee - Large Diameter



Dimensions shown in inches

Item No.	Description	A	B	C	D	E	F	G	H	Height	Length	Depth
10066499	811 2x1½x2½ CxCxC TEE	11.74	5.33	1.51	11.00	7.91	1.31	3.75	1.90	5.33	11.74	3.20
10066501	811 2½x¾x2 CxCxC TEE	9.86	7.58	1.90	9.15	8.38	0.89	5.99	1.51	7.58	9.86	3.20
10066502	811 2½x¾x2½ CxCxC TEE	9.86	5.33	1.90	9.15	8.38	0.89	3.75	1.90	5.33	9.86	3.20
10066503	811 2½x1x2 CxCxC TEE	9.61	7.58	1.90	8.85	8.17	0.97	5.99	1.51	7.58	9.61	3.20
10066514	811 2½x1x2½ CxCxC TEE	9.61	5.33	1.90	8.85	8.17	0.97	3.75	1.90	5.33	9.61	3.20
10066504	811 2½x1¼x2½ CxCxC TEE	9.42	5.33	1.90	8.42	7.86	1.09	3.75	1.90	5.33	9.42	3.20
10066505	811 2½x1½x2 CxCxC TEE	9.71	7.71	1.90	8.26	7.91	1.31	7.99	1.31	7.71	9.71	3.20
10066506	811 2½x1½x2 CxCxC TEE	9.49	7.58	1.90	8.26	7.91	1.31	5.99	1.51	7.58	9.49	3.20
10066507	811 2½x1½x2½ CxCxC TEE	9.49	5.33	1.90	8.26	7.91	1.31	3.75	1.90	5.33	9.49	3.20
10066508	811 2½x2x¾ CxCxC TEE	9.36	8.08	1.90	6.06	5.91	1.51	8.46	0.89	8.08	9.36	3.20
10066509	811 2½x2x1 CxCxC TEE	9.36	7.83	1.90	6.06	5.91	1.51	8.24	0.97	7.83	9.36	3.20
10066510	811 2½x2x1¼ CxCxC TEE	9.36	7.64	1.90	6.06	5.91	1.51	7.93	1.09	7.64	9.36	3.20
10066511	811 2½x2x1½ CxCxC TEE	7.11	7.71	1.90	6.06	5.91	1.51	7.99	1.31	7.71	7.11	3.20
10066396	811 2½x2x2 CxCxC TEE	9.47	7.57	1.90	6.06	5.91	1.51	5.99	1.51	7.57	9.47	3.20
10066174	811 2½x2x2½ CxCxC TEE	9.47	5.33	1.90	6.06	5.91	1.51	3.75	1.51	5.33	9.47	3.20
10066515	811 2½x2x3 CxCxC TEE	12.25	6.39	1.90	12.67	9.16	1.51	4.56	2.10	6.39	12.25	3.70
10066522	811 3x¾x2½ CxCxC TEE	10.75	8.39	2.10	12.64	11.63	0.89	4.17	1.90	8.39	10.75	3.70
10066523	811 3x¾x3 CxCxC TEE	10.75	6.39	2.10	12.64	11.63	0.89	4.56	2.10	6.39	10.75	3.70
10066524	811 3x1x2½ CxCxC TEE	10.50	8.39	2.10	12.64	11.41	0.97	4.17	1.90	8.39	10.50	3.70
10066525	811 3x1x3 CxCxC TEE	10.50	6.39	2.10	12.34	11.41	0.97	4.56	2.10	6.39	10.50	3.70
10066526	811 3x1¼x3 CxCxC TEE	10.31	6.39	2.10	11.91	11.10	1.09	4.56	2.10	6.39	10.31	3.70
10066527	811 3x1½x3 CxCxC TEE	10.38	6.39	2.10	11.75	11.16	1.31	4.56	2.10	6.39	10.38	3.70
10066528	811 3x2x2 CxCxC TEE	10.25	8.64	2.10	9.84	9.30	1.51	6.41	1.51	8.64	10.25	3.70
10066529	811 3x2x2½ CxCxC TEE	10.25	8.39	2.10	9.84	9.30	1.51	4.17	1.90	8.39	10.25	3.70
10066530	811 3x2x3 CxCxC TEE	10.25	6.39	2.10	9.54	9.16	1.51	4.56	2.10	6.39	10.25	3.70
10066531	811 3x2½x2 CxCxC TEE	10.00	8.64	2.10	7.21	7.07	1.90	6.41	1.51	8.64	10.00	3.70
10066136	811R 3X2½X2½ CXCXC COPPER TEE	11.21	6.01	2.10	7.21	7.07	1.90	4.17	1.90	6.01	11.21	3.70
10066137	811R 3X2½X3 CXCXC COPPER TEE	10.92	6.39	2.10	6.92	6.92	1.90	4.56	2.10	6.39	10.92	3.70
10066538	811 4x1½x3 CxCxC TEE	7.38	13.06	2.50	14.24	12.98	1.31	4.93	2.10	13.06	7.38	5.75
10066539	811 4x2x4 CxCxC TEE	7.94	12.94	2.50	11.77	10.84	1.51	5.46	2.50	12.94	7.94	5.75
10066138	811R 4X2½X4 CXCXC COPPER TEE	13.65	7.81	2.50	9.25	8.61	1.90	5.46	2.50	7.81	13.65	4.70
10066540	811 4x3x1½ CxCxC TEE	9.13	13.50	2.50	8.86	8.54	2.10	8.91	1.31	13.50	9.13	5.75
10066541	811 4x3x2 CxCxC TEE	10.88	13.38	2.50	8.86	8.54	2.10	6.91	1.51	13.38	10.88	5.75
10066139	811R 4X3X2½ CXCXC COPPER TEE	13.50	7.02	2.50	8.90	8.58	2.10	4.67	1.90	7.02	13.50	4.70
10066096	811 4x3x3 CxCxC TEE	13.50	7.28	2.50	8.90	8.58	2.10	4.93	2.10	7.28	13.50	4.70
10066140	811R 4X3X4 CXCXC COPPER TEE	13.50	7.81	2.50	8.90	8.58	2.10	5.46	2.50	7.81	13.50	4.70

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



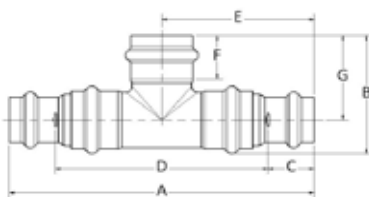
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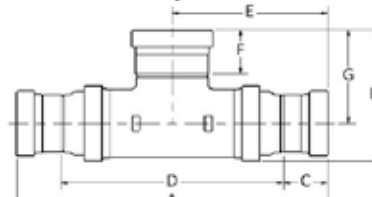
Copper Bullhead Tee



Small Diameter



Large Diameter



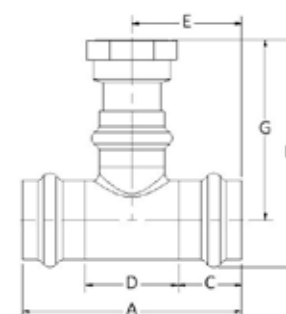
Dimensions shown in inches

Item No.	Description	A	B	C	D	E	F	G	Height	Length	Depth
10066070	811 1/2x1/2x3/4 CxCxC BH TEE	5.25	2.10	0.85	3.55	2.62	0.89	1.48	2.10	5.25	1.25
10066006	811 1/2x1/2x1 CxCxC BH TEE	6.55	2.60	0.85	4.85	3.27	0.97	1.85	2.60	6.55	1.50
10066071	811 3/4x3/4x1 CxCxC BH TEE	6.24	2.60	0.89	4.46	3.12	0.97	1.85	2.60	6.24	1.50
10066008	811 1x1x1 1/4 CxCxC BH TEE	6.76	2.94	0.97	4.82	3.38	1.09	2.06	2.94	6.76	1.77
10066128	811 1x1x2 CxCxC BH TEE	10.04	4.17	0.97	8.10	5.02	1.51	2.88	4.17	10.04	2.58
10066107	811 1 1/4x1 1/4x2 CxCxC BH TEE	9.42	4.17	1.09	7.24	4.71	1.51	2.88	4.17	9.42	2.58
10066090	811 1 1/2x1 1/2x2 CxCxC BH TEE	9.54	4.17	1.31	6.92	4.77	1.51	2.88	4.17	9.54	2.58
10066550	811 1 1/2x1 1/2x3 CxCxC BH TEE	13.00	6.39	1.31	19.70	11.16	2.10	4.56	6.39	13.00	3.70
10066551	811 2x2x3 CxCxC BH TEE	13.00	6.39	1.51	15.29	9.16	2.10	4.56	6.39	13.00	3.70
10066135	811 2 1/2x2 1/2x3 CxCxC BH TEE	14.18	6.39	1.90	10.38	7.09	2.10	4.56	6.39	14.18	3.70
10066094	811 2 1/2x2 1/2x4 CxCxC BH TEE	17.22	7.81	1.90	13.42	8.61	2.50	5.46	7.81	17.22	4.70

Copper & Low Lead Brass Female Outlet Tee

Dimensions shown in inches

Item No.	Description	A	B	C	D	E	G	Height	Length	Depth
10066579	8712 1/2 CxCxF TEE	2.64	1.01	0.85	0.94	1.32	2.38	1.01	2.64	2.85
10066580	8712 3/4 CxCxF TEE	2.95	3.19	0.89	1.17	1.47	2.57	3.19	2.95	1.25
Reducing Female Outlet Tee										
10066581	8712 3/4x3/4x1/2 CxCxF TEE	3.26	3.33	0.89	1.48	1.63	2.71	3.33	3.26	1.25
10066582	8712 1x1x1/2 CxCxF TEE	3.34	3.52	0.97	1.40	1.67	2.78	3.52	3.34	1.50
10066583	8712 1x1x3/4 CxCxF TEE	3.34	2.59	0.97	1.40	1.67	2.84	2.59	3.34	1.50
10066584	8712 1 1/4x1 1/4x1/2 CxCxF TEE	4.12	4.13	1.09	1.94	2.06	3.25	4.13	4.12	1.77
10066585	8712 1 1/4x1 1/4x3/4 CxCxF TEE	4.12	4.17	1.09	1.94	2.06	3.30	4.17	4.12	1.77
10066586	8712 1 1/2x1 1/2x1/2 CxCxF TEE	4.00	4.09	1.31	1.38	2.00	3.03	4.09	4.00	2.12
10066587	8712 1 1/2x1 1/2x3/4 CxCxF TEE	4.00	4.16	1.31	1.38	2.00	3.10	4.16	4.00	2.12
10066588	8712 2x2x1 1/2 CxCxF TEE	4.50	4.66	1.51	1.48	2.25	3.38	4.66	4.50	2.58
10066589	8712 2x2x3/4 CxCxF TEE	4.50	4.72	1.51	1.48	2.25	3.43	4.72	4.50	2.58



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

Copper Tube Cap

Dimensions shown in inches

Item No.	Description	A	B	C	Height	Length	Depth
10075166	817 ½ TUBE CAP	1.20	0.95	0.85	0.95	1.20	1.00
10075168	817 ¾ TUBE CAP	1.28	1.24	0.89	1.24	1.28	1.25
10075170	817 1 TUBE CAP	1.40	1.50	0.97	1.50	1.40	1.50
10075172	817 1 ¼ TUBE CAP	1.53	1.75	1.09	1.75	1.53	1.77
10075174	817 1 ½ TUBE CAP	1.77	2.11	1.31	2.11	1.77	2.12
10075176	817 2 TUBE CAP	2.11	2.58	1.51	2.58	2.11	2.60
10062142	817 2 ½ COPPER TUBE CAP	3.75	3.04	1.90	3.04	3.75	3.20
10062147	817 3 COPPER TUBE CAP	4.09	3.56	2.10	3.56	4.09	3.70
10062152	817 4 COPPER TUBE CAP	4.99	4.70	2.50	4.70	4.99	4.70

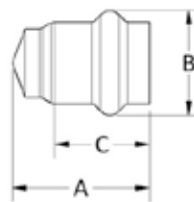


Small Diameter

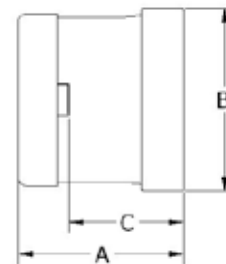


Large Diameter

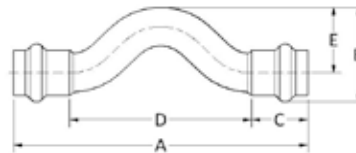
Small Diameter



Large Diameter



Copper Crossover



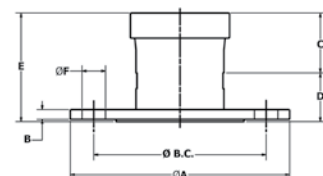
Dimensions shown in inches

Item No.	Description	A	B	C	D	Height	Length	Depth
10075370	836 ½ CxC CROSSOVER	4.50	1.40	0.85	1.06	1.40	4.50	1.00
10075372	836 ¾ CxC CROSSOVER	5.50	1.86	0.89	1.44	1.86	5.50	1.25

Copper Large Diameter Flange

Dimensions shown in inches

Item No.	Description	A	B.C.	B	C	D	E	F
125 Lb.								
10075702	8741 2 Copper 125 lb.	6.00	4.75	.31	1.52	1.69	3.21	.75
10061761	8741 2 ½ Copper 125 lb.	7.00	5.50	.31	1.90	1.55	3.45	.75
10061767	8741 3 Copper 125 lb.	7.50	6.00	.38	2.10	1.52	3.62	.75
10061736	8741 4 Copper 125 lb.	9.00	7.50	.38	2.50	1.38	3.88	.75
150 Lb.								
10061763	8771 2 ½ Copper 150 lb.	7.00	5.50	.56	1.90	1.55	3.45	.75
10061769	8771 3 Copper 150 lb.	7.50	6.00	.62	2.10	1.52	3.62	.75
10061738	8771 4 Copper 150 lb.	9.00	7.50	.69	2.50	1.48	3.98	.75

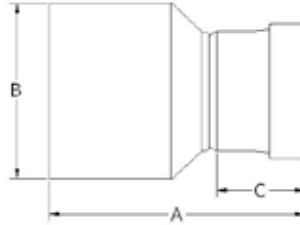
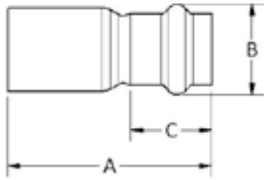


Copper Fitting Reducer

Small Diameter



Large Diameter

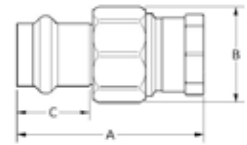


Dimensions shown in inches

Item No.	Description	A	B	C	Height	Length	Depth
10075146	818 1/4x1/2 FTGxC RED	2.03	0.95	0.85	0.95	2.03	1.25
10075150	818 1x1/2 FTGxC RED	2.37	1.13	0.85	1.13	2.37	1.50
10075148	818 1x3/4 FTGxC RED	2.22	1.27	0.89	1.27	2.22	1.50
10075336	818 1 1/4x1/2 FTGxC RED	2.83	1.38	0.85	1.38	2.83	1.77
10075154	818 1 1/4x3/4 FTGxC RED	2.69	1.38	0.89	1.38	2.69	1.77
10075156	818 1 1/4x1 FTGxC RED	2.40	1.50	0.97	1.50	2.40	1.77
10075332	818 1 1/2x1/2 FTGxC RED	3.19	1.62	0.85	1.62	3.19	2.12
10075334	818 1 1/2x3/4 FTGxC RED	3.22	1.62	0.87	1.62	3.22	2.12
10075158	818 1 1/2x1 FTGxC RED	2.93	1.62	0.97	1.62	2.93	2.12
10075160	818 1 1/2x1 1/4 FTGxC RED	2.69	1.75	1.09	1.75	2.69	2.12
10075338	818 2x1/2 FTGxC RED	4.04	2.13	0.85	2.13	4.04	2.60
10075340	818 2x3/4 FTGxC RED	3.00	4.92	0.89	4.92	3.00	1.50
10075162	818 2x1 FTGxC RED	3.66	2.13	0.97	2.13	3.66	2.60
10075152	818 2x1 1/4 FTGxC RED	3.34	2.13	1.09	2.13	3.34	2.60
10075164	818 2x1 1/2 FTGxC RED	3.40	2.13	1.31	2.13	3.40	2.60
10068025	818 2 1/2x1/2 FTGxC RED	4.59	2.63	0.85	2.63	4.59	2.63
10068001	818 2 1/2x3/4 FTGxC RED	4.50	2.63	0.89	2.63	4.50	2.63
10068002	818 2 1/2x1 FTGxC RED	4.31	2.63	0.97	2.63	4.31	2.63
10068017	818 2 1/2x1 1/4 FTGxC RED	4.18	2.63	1.09	2.63	4.18	2.63
10068004	818 2 1/2x1 1/2 FTGxC RED	4.28	2.63	1.31	2.63	4.28	2.63
10075165	818 2 1/2x2 FTGxC RED	4.25	2.63	1.51	2.63	4.25	2.63
10068005	818 3x1/2 FTGxC RED	5.01	3.13	0.85	3.13	5.01	3.13
10068019	818 3x3/4 FTGxC RED	4.92	3.13	0.89	3.13	4.92	3.13
10068007	818 3x1 FTGxC RED	4.73	3.13	0.97	3.13	4.73	3.13
10068008	818 3x1 1/4 FTGxC RED	4.60	3.13	1.09	3.13	4.60	3.13
10068020	818 3x1 1/2 FTGxC RED	4.70	3.13	1.31	3.13	4.71	3.13
10068010	818 3x2 FTGxC RED	4.56	3.13	1.51	3.13	4.56	3.13
10057500	818 3 1/2x1/2 FTGxC RED	5.19	3.13	1.90	3.13	5.19	3.70
10068011	818 4x1/2 FTGxC RED	6.02	4.13	0.85	4.13	6.02	4.13
10068022	818 4x3/4 FTGxC RED	5.93	4.13	0.89	4.13	5.93	4.13
10068013	818 4x1 FTGxC RED	5.74	4.13	0.97	4.13	5.74	4.13
10068014	818 4x1 1/4 FTGxC RED	5.61	4.13	1.09	4.13	5.61	4.13
10068023	818 4x1 1/2 FTGxC RED	5.71	4.13	1.31	4.13	5.71	4.13
10068016	818 4x2 FTGxC RED	5.59	4.13	1.51	4.13	5.59	4.13
10057503	818 4x2 1/2 FTGxC RED	6.02	4.12	1.90	4.12	6.02	4.70
10057506	818 4x3 FTGxC RED	6.02	4.12	2.10	4.12	6.02	4.70

APOLLOXPRESS®

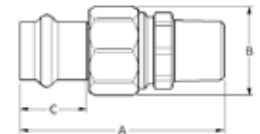
Low Lead Brass Female Union



Dimensions shown in inches

Item No.	Description	A	B	C	Height	Length	Depth
10075872	8733-3 1/2 CxF UNION	2.10	1.17	0.76	1.17	2.10	1.17
10075874	8733-3 3/4 CxF UNION	2.84	1.42	0.92	1.42	2.84	1.42
10075876	8733-3 1 CxF UNION	2.84	1.81	0.92	1.81	2.84	1.81
10075878	8733-3 1 1/4 CxF UNION	3.12	2.04	1.04	2.04	3.12	2.04
10075880	8733-3 1 1/2 CxF UNION	3.05	2.28	1.43	2.28	3.05	2.28
10075882	8733-3 2 CxF UNION	3.30	2.95	1.59	2.95	3.30	2.95

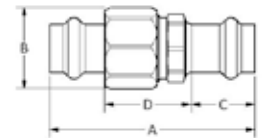
Low Lead Brass Male Union



Dimensions shown in inches

Item No.	Description	A	B	C	Height	Length	Depth
10075884	8733-4 1/2 CxM UNION	2.86	1.17	0.76	1.17	2.86	1.17
10075886	8733-4 3/4 CxM UNION	3.38	1.42	0.92	1.42	3.38	1.42
10075888	8733-4 1 CxM UNION	3.71	1.81	0.92	1.81	3.71	1.81
10075890	8733-4 1 1/4 CxM UNION	3.73	2.04	1.04	2.04	3.73	2.04
10075892	8733-4 1 1/2 CxM UNION	3.69	2.28	1.43	2.28	3.69	2.28
10075894	8733-4 2 CxM UNION	4.20	2.95	1.59	2.95	4.20	2.95

Low Lead Brass Union



Dimensions shown in inches

Item No.	Description	A	B	C	D	Height	Length	Depth
10075860	8733 1/2 CxC UNION	2.95	1.17	1.76	1.44	1.17	2.95	1.17
10075862	8733 3/4 CxC UNION	3.65	1.42	0.92	1.82	1.42	3.65	1.42
10075864	8733 1 CxC UNION	3.79	1.81	0.92	1.96	1.81	3.79	1.81
10075866	8733 1 1/4 CxC UNION	3.79	2.04	1.04	1.70	2.04	3.79	2.04
10075868	8733 1 1/2 CxC UNION	3.92	2.28	1.43	1.06	2.28	3.92	2.28
10075870	8733 2 CxC UNION	4.63	2.95	1.59	1.46	2.95	4.63	2.95



Frequently Asked Questions
Jaw Compatibility
Installation & Press Instructions
Cross Reference Chart
Terms and Conditions of Sale
Warranty and Limitations on Liability

FREQUENTLY ASKED QUESTIONS

APOLLOXPRESS®

What are the approved fluids and/or gases?

Potable Water

Hot Water (up to 250°F) at a maximum working pressure of 200 psi *

Chilled Water 33°F at a maximum working pressure of 200 psi*

Low Pressure Steam (maximum working pressure 15 psi)

Water Glycol Mixture (ethylene, propylene, butylenes -
between 40% to 90% concentration)

Air, Compressed (oil content less than 0.025 ppb)

Window Washer Fluid

Oxygen (non-medical applications)

Nitrogen (maximum working pressure 200 psi)*

Argon (maximum working pressure 200 psi)*

Vacuum

*valves at a maximum working pressure of 250 psi

Which fluids or applications are not approved?

Solar (Contact EPC to review the application)

Refrigerants (Contact EPC to review the application)

Chlorine

Medical Gas

Petroleum Products (e.g. grease, oil, diesel fuel, gasoline)

DWV Pipe

Copper tube with wall thickness less than ASTM B88 Type M

Natural Gas – Propane – Fuel Gas

Fire Protection Systems (UL/FM pending)-Galvanized and Stainless Steel

Paint Lines in car manufacturing plants

What is the minimum distance (gap) between APOLLOXPRESS® fittings?

See chart on page 59.

What is the procedure for soldering near an APOLLOXPRESS® connection?

Stay at least 12 inches away from the pressed connection. If 12 inches is not possible, the installer should take proper precautions to keep the APOLLOXPRESS® joint cool while soldering.

- Wrap the joint with a cold, wet rag
- Fabricate the solder joint prior to installing the pressed fitting, making sure the pipe is cooled before installing the fitting
- Use a "spray type" spot freezing product

As an inspector, how do I know if I am looking at a good joint?

Check that the position of the depth insertion mark on the tube is adjacent to the end of the APOLLOXPRESS® fitting, then pressure test the joint in the same manner as a solder joint.

What lubricant is used on the sealing elements in the APOLLOXPRESS® fittings?

The seals are lubricated with an NSF-61 silicone oil. If it is necessary to lubricate the seals in the field, use water only. Do not use other lubricants. In particular, do not use any petroleum-based lubricants since petroleum and EPDM are incompatible.

How long will the EPDM seal last?

When properly installed, the EPDM seal and connection will last as long as the copper pipe with which it is joined (50+ years).

How do I fabricate a system in tight places when using APOLLOXPRESS®?

If necessary, pre-fabricate connections, then install.

What is the warranty for APOLLOXPRESS®?

Please see the last page of this catalog for our comprehensive warranty information.

Is it possible to rotate a pressed fitting on the tube without damaging the integrity of the joint?

Yes, the fitting can be rotated (not by hand) after pressing without affecting the integrity of the joint. As a general rule of thumb, if the fitting is rotated more than 5°, it should be re-pressed to restore the resistance to rotational movement.

What level of turbulence is caused by APOLLOXPRESS® fittings, and will it cause premature wear in copper tubing?

Deformation at the interior of the pressed joint has not proven to be a source of turbulence. The smooth surfaces created allow the fluid flow to remain undisturbed. Not reaming the ID of the pipe is the largest contributing factor to turbulence and premature wear in any copper piping system.

** 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. ANSI 3rd party approved and listed.*

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

www.apollovalves.com

APOLLO VALVES Customer Service (704) 841-6000



FREQUENTLY ASKED QUESTIONS

APOLLOXPRESS®

Is APOLLOXPRESS® approved for underground use?

Yes, APOLLOXPRESS® fittings are approved for underground installation. Installation must be done in accordance with local plumbing and mechanical codes and practices.

To what degree does the temperature rating go up or down as pressure in the APOLLOXPRESS® fitting changes?

The pressure rating is 200 psi maximum working pressure with a 600 psi maximum test pressure at all temperatures from 0°F to 250°F. Pressure changes within these limits have no impact on the temperature ratings.

Note: For water systems, the pressure/temperature rating is 200 psi, 33°F to 250°F.

What are the flow rates through APOLLOXPRESS® fittings?

Flow rates and flow rate calculations are the same as those used for solder fitting installations

How do APOLLOXPRESS® joints hold up to freezing temperatures?

Water systems should not be allowed to freeze. When water freezes, it expands and creates pressures that exceed plumbing system pressure capabilities. Tubes and fittings will burst.

Is APOLLOXPRESS® compatible with the cleaning agents used to disinfect a new plumbing system?

Yes.

What should a user do if an APOLLOXPRESS® fitting leaks?

In general, APOLLOXPRESS® fittings leak for only a few reasons:

- The fitting was never pressed. Solution: press the fitting
- The copper tubing was not properly inserted prior to pressing. This cannot be repaired. Replace the fitting.
- The jaw was not properly aligned on the fitting (cross pressed; cross crimped). This cannot be repaired. Replace the fitting
- After confirming the above were originally performed satisfactorily, re-press the fitting with the jaw rotated 90° to the original position.
- Under all other circumstances, if a fitting continues to leak, contact the pressing jaw/tool company and EPC.

What should be done if a user accidentally cuts the seal with the copper pipe during tube insertion?

If the seal is damaged by inserting the copper pipe, then the seal must be replaced.

What should an installer do if a ½" or ¾" tube rotates in APOLLOXPRESS® during a stub-out installation?

Repressing the joint is the preferred repair. However, testing has shown that a joint which has spun 360° does not leak or exhibit reduced pressure-temperature performance.

Is an APOLLOXPRESS® press-connect fitting joint electrically conductive?

Yes, the copper tube and the fitting body are in intimate contact once pressing occurs.

How was the life testing conducted for the seals and fittings?

Life testing is performed per the requirements of IAPMO PS-117.

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



www.elkhartproducts.com

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Approval is granted based on laboratory testing performed by Elkhart Products Corporation (EPC) utilizing performance requirements in IAPMO PS117, proprietary standards developed by EPC, and by following the jaw, actuator, and pressing tool operating instructions. The following best practices apply as a requirement of all approvals.

- Jaws require cleaning to remove copper buildup or chips. Typically, cleaning is performed dry with an abrasive pad; however, specific jaw cleaning instructions are included in the jaw manufacturers operating instructions. Jaw cleaning intervals will vary by size, material, and engineering design.
- Jaws may require periodic inspections and or re-calibration; check the jaw manufacturers operating instructions for details.
- Pressing tools (sometimes called press tools or guns) require periodic inspection and re-calibration. Specific recommendations vary by manufacturer and model number; consult the operating instructions provided with the pressing tool.
- Jaw cleanliness, jaw inspection/re-calibration (if required), and periodic pressing tool re-calibration/inspection are the responsibility of the installer. Failure to maintain the pressing tool, jaw, or actuator may void the manufacturer's warranty.

Note - Jaw approval testing is performed using jaws and pressing tools submitted by each jaw and pressing tool manufacturer listed below. EPC or Apollo do not conduct testing of jaw and pressing tool interchangeability.

½" to 2" APOLLOXPRESS® Valves and Copper/Low-Lead Brass Fittings:

MILWAUKEE:	NIBCO:	RIDGID:	ROTHENBERGER:
<i>M12 Compact Jaws:</i>	<i>Standard Jaws:</i>	<i>Compact Jaws:</i>	<i>Compact Jaws:</i>
½" 49-16-2450	½" PC-10S	½" 16958	½" 15031V
¾" 49-16-2451	¾" PC-11S	½" 22768	¾" 15032V
1" 49-16-2452	1" PC-12S	¾" 16963	1" 15033V
1 ¼" 49-16-2453	1 ¼" PC-13S ²	¾" 22773	<i>Standard Jaws:</i>
<i>M18 Standard Jaws:</i>	1 ½" PC-14S	1" 16978	½" 15222X
½" 49-16-2650	2" PC-15S	1" 22778	¾" 15223X
¾" 49-16-2651		1 ¼" 31228	1" 15224X ²
1" 49-16-2652 ²	REMS:	<i>Standard Jaws:</i>	1 ¼" 15225X ²
1 ¼" 49-16-2653 ²	<i>Compact Jaws (Mini Tongs):</i>	½" 76652	1 ½" 15226X
1 ½" 49-16-2654	½" VUS ½" 578566	½" 21848	2" 15227X
2" 49-16-2655	¾" VUS ¾" 578568	¾" 76657	
	1" VUS 1" 578570¹	¾" 21853	Stanley – Virax:
	1 ¼" VUS 1 ¼" 578606	1" 76662	<i>Copper Inserts:</i>
	<i>Standard Jaws (Tongs):</i>	1" 21858	½" 252933
	½" VUS ½" 571770	1 ¼" 76667	¾" 252934
	¾" VUS ¾" 571775	1 ¼" 21863	1" 252935
	1" VUS 1" 571780 ²	1 ½" 76672	<i>Copper Jaws:</i>
	1 ¼" VUS 1 ¼" 571785 ²	1 ½" 21868	½" 253291
	1 ½" VUS 1 ½" 571790	2" 76677	¾" 253292
	2" VUS 2" 571795	2" 21873	1" 253293
			1 ¼" 253294 ²
			1 ½" 253295 ²
			2" 253296

Note 1: REMS compact 1" Jaw is not compatible with ApolloXpress 77W, 77WLF, 77V, and 77VLF press ball valves.

Note 2: Jaws are compatible with new production 77W, 77WLF, 77V, and 77VLF press ball valves identified with "M18" on the valve box label and hang tag.

2½" to 4" APOLLOXPRESS® LD-C Valves and Copper Fittings

MILWAUKEE:	REMS:	RIDGID:
<i>M18 Standard Jaws:</i>	<i>Standard Pressing Ring:</i>	<i>Standard Jaws:</i>
2 ½" 49-16-2656	2 ½" VUSF 2 ½" 572819	2 ½" 20543
3" 49-16-2657	3" VUSF 3" 572820	3" 20548
4" 49-16-2658	4" VUSF 4" 572821	4" 20553
Ring Jaw 49-16-2659	Adapter Tong Z5 572802	Actuator 21878

Please refer to our website: www.apollovalves.com/apolloxpress for the most current Jaws Approval.

INSTALLATION & PRESSING INSTRUCTIONS

APOLLOXPRESS®

Design Features

APOLLOXPRESS® fittings offer two unique design features which benefit the installer. First, the o-ring placement within the fitting allows the installer to easily verify the o-ring is in place prior to pressing the joint. Second, APOLLOXPRESS® fittings are designed to leak in the un-pressed condition. This feature provides a sure method to identify un-pressed joints at plumbing system startup.

Quality Systems

APOLLOXPRESS® fittings are designed and manufactured with the highest quality possible and conform to current industry standards and regulations. To ensure our products continue to remain the highest quality, we constantly scrutinize, monitor and evaluate our manufacturing processes using continuous improvement methods.

Material Specification

All APOLLOXPRESS® products are designed and manufactured to strict specifications and quality systems. APOLLOXPRESS® fittings are manufactured from copper or copper alloys and utilize EPDM o-ring seals. APOLLOXPRESS® fittings are designed for use with ASTM B88 Type K, L or M water tube in the ½" through 4" size range.

All APOLLOXPRESS® fittings are designed to operate at temperatures from 0° to 250°F at a maximum working pressure of 200 psi (valves 250 psi).

Material Compatibility

APOLLOXPRESS® fittings must not come into contact with household cleaning products, paints, greases, flux, mineral oils, adhesives, ammonia, nitrates, or other solvent base materials that may be used during or after installation. The exterior surface of APOLLOXPRESS® fittings should not be painted. Use of proprietary chemicals to flush pipes during plumbing system startup should be reviewed with an Elkhart Products Corporation representative.



CAUTION: Stay at least 12 inches away from the pressed connection during solder or brazed installations to protect the integrity of the o-ring. The installer should take proper precautions to keep the APOLLOXPRESS® joint cool while soldering by using one of the following methods:

- Wrap the joint with a cold, wet rag
- Fabricate the solder joint prior to installing the pressed fitting, making sure the pipe is cooled before installing the fitting
- Use a "spray type" spot freezing product

Installation

Installing an APOLLOXPRESS® fitting relies on using a pressing tool together with a set of jaws or pressing rings of the appropriate size. Sets of jaws or pressing rings are available for each size fitting and only the correct size jaws or pressing rings will ensure that a sound joint is made.

Pressing tools are available with two power options to suit most on-site installation situations: 110V and cordless. APOLLOXPRESS® fittings are designed to work with either type of pressing tool.

Elkhart Products Corporation supplies tool options to suit a range of budgets and applications. Other manufacturer's tools may also be suitable for use with APOLLOXPRESS® fittings. Contact an Elkhart Products Corporation representative to confirm suitability.

APOLLOXPRESS® fittings should remain in their packaging until immediately prior to installation. This ensures the fitting remains clean, the o-ring is protected from damage and on-site debris, and the o-ring lubricant does not dry out. Unused fittings should be kept in the original packaging with any openings sealed to ensure fitting cleanliness is maintained.

APOLLOXPRESS® fittings from ½" to 4" should be installed with the following minimum spacing between the fittings to prevent distortion of the pipe (refer to chart below). Failure to provide this distance may result in an improper seal.

Fitting Size	Minimum Spacing
½"	0"
¾"	0"
1"	0"

Fitting Size	Minimum Spacing
1 ¼"	½"
1 ½"	¾"
2"	¾"

Fitting Size	Minimum Spacing
2 ½"	¾"
3"	¾"
4"	¾"

Equipment Service Considerations

Like any other power tools, pressing tools, jaws and pressing rings require regular servicing. Failure to follow the pressing tool manufacturer's recommendations may violate guarantee or warranty provisions and the tool's ability to produce press joints with continued efficiency. It is the tool user's responsibility to correctly maintain and calibrate all tools per manufacturer's recommendations. For detailed information on the use and care of pressing tools, refer to the manufacturer's instructions.

Preliminaries

Select the correct size tube and APOLLOXPRESS® fitting for the job. Ensure that both are clean, in good condition and free from damage and imperfections. Carefully remove tape, labels, or foreign matter. Check that the tube is round, clean, free of burrs and surface imperfections.



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INSTALLATION & PRESSING INSTRUCTIONS

APOLLOXPRESS®

Preparation



1

Cut the tube square. Use a rotary tube cutter whenever possible. If a hacksaw is used to cut the tube, then file the tube end exterior and interior using a fine tooth file. Care should be taken to remove and smooth all burrs.



2

Remove burrs at the tube ends before insertion into a fitting. Internal and external tube ends should be deburred using a fine tooth file. The tube end should then be wiped clean of all debris to avoid damage to the o-ring upon tube insertion.



3

Commercially available deburring tools may be used to ensure a smooth interior and exterior at the tube end. Elkhart Products Corporation markets deburring tools particularly well suited to performing this operation.

4

Inspect the APOLLOXPRESS® fitting to ensure the o-ring is undamaged and seated correctly within the o-ring groove. O-rings should be free of cuts, gouges or missing material at the surface. If the o-ring is damaged or missing, do not use the fitting. If the o-ring is undamaged and is partially out of the groove, then gently move the o-ring back into the groove. If the o-ring does not seat in the groove, do not use the fitting. Replacement o-rings and lubricant are available from EPC. Please contact your local APOLLO or EPC representative.



5

Insert the tube fully into the fitting until it meets the tube stop. With the fitting in place, clearly mark the tube outside diameter at the edge of the fitting. As an alternate, an APOLLOXPRESS® depth gauge may be used to properly locate the insertion depth. A tape measure may also be used. Regardless, the insertion depth must be clearly marked to ensure that proper insertion is attained. See the following table for required insertion depth dimensions.

Nominal Pipe Size	Insertion Depth (in)
1/2"	3/4" (0.75")
3/4"	15/16" (0.94")
1"	15/16" (0.94")
1 1/4"	1-1/16" (1.06")
1 1/2"	1-7/16" (1.44")
2"	1-9/16" (1.56")
2 1/2"	1-7/8" (1.9")
3"	2-1/8" (2.1")
4"	2-1/2" (2.5")

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

Typical APOLLOXPRESS® Fitting Installation for ½" Through 2" Sizes



1

Assemble the joint, inserting the tube into the fitting until it meets the tube stop. Check the tube insertion depth using the reference mark on the tube outside diameter. See step 4 in the preparation process. The pressing operation should only be undertaken with the tube fully inserted into the APOLLOXPRESS® fitting. Note: Clean water may be used to ease the assembly process. Wetting the tube and/or the fitting will ease the tube insertion process.



2

With the correct size pressing jaw inserted into the pressing tool, place the jaw over the bead on the fitting. Great care should be taken to ensure the pressing tool and jaws are maintained at a 90° angle to the tube centerline.



3

Depress the pressing tool trigger or actuation button to begin the pressing cycle. The cycle is complete when the jaw fully encloses the mouth of the fitting. The jaw should then be released from around the fitting. Please refer to the manufacturer's instructions for more detail. Inspect the pressed joint to ensure the tube has remained fully inserted during the pressing operation.

INSTALLATION & PRESSING INSTRUCTIONS

APOLLOXPRESS®

Typical APOLLOXPRESS® Fitting Installation for 2 ½" Through 4" Sizes



1

Assemble the joint, inserting the tube into the fitting until it meets the tube stop. Check the tube insertion depth using the reference mark on the tube outside diameter. See step 4 in the preparation process. The pressing operation should only be undertaken with the tube fully inserted into the APOLLOXPRESS® fitting. Note: Clean water may be used to ease the assembly process. Wetting the tube and/or the fitting will ease the tube insertion process.



2

Select the appropriate size pressing ring. Open the pressing ring jaws and position it over the fitting. Align the groove in the pressing ring. Revolve the pressing ring around the fitting to the desired position.



3

Attach the appropriate adapter to the press tool and close the breach bolt. Attach the adapter ring to the pressing ring by depressing the jaw levers and inserting the claws as far as possible into the grooves of the pressing ring. Do not press the joint until the adapter is correctly connected to the pressing ring.



4

Press the trigger or the actuation button on the pressing tool and complete the pressing operation. Please refer to the tool manufacturer's instructions for more detail. Inspect the pressed joint to ensure the tube has remained fully inserted during the pressing operation.

Note:

The photographs used in this catalog depict only one of many pressing tools and pressing rings available for use. Please consult the tool manufacturer's instructions to ensure a complete understanding of the pressing tool operating procedures.

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

CROSS REFERENCE CHART

XPRESS Valves

APOLLOXPRESS®

Apollo Part Number	Size	Description	NIBCO No.	Viega Model No.	Viega Stock Code
200 CWP BRONZE GATE VALVE, RS					
30-003-01-PR	1/2	200 CWP Gate, Brz, Threaded Bonnet, Solid Disc, RS, Press	PF111	n/a	n/a
30-004-01-PR	3/4	200 CWP Gate, Brz, Threaded Bonnet, Solid Disc, RS, Press	PF111	n/a	n/a
30-005-01-PR	1	200 CWP Gate, Brz, Threaded Bonnet, Solid Disc, RS, Press	PF111	n/a	n/a
30-006-01-PR	1 1/4	200 CWP Gate, Brz, Threaded Bonnet, Solid Disc, RS, Press	PF111	n/a	n/a
30-007-01-PR	1 1/2	200 CWP Gate, Brz, Threaded Bonnet, Solid Disc, RS, Press	PF111	n/a	n/a
30-008-01-PR	2	200 CWP Gate, Brz, Threaded Bonnet, Solid Disc, RS, Press	PF111	n/a	n/a
30LF-003-01-PR	1/2	200 CWP Gate, LF Brz, Threaded Bonnet, Solid Disc, RS, Press	n/a	n/a	n/a
30LF-004-01-PR	3/4	200 CWP Gate, LF Brz, Threaded Bonnet, Solid Disc, RS, Press	n/a	n/a	n/a
30LF-005-01-PR	1	200 CWP Gate, LF Brz, Threaded Bonnet, Solid Disc, RS, Press	n/a	n/a	n/a
30LF-006-01-PR	1 1/4	200 CWP Gate, LF Brz, Threaded Bonnet, Solid Disc, RS, Press	n/a	n/a	n/a
30LF-007-01-PR	1 1/2	200 CWP Gate, LF Brz, Threaded Bonnet, Solid Disc, RS, Press	n/a	n/a	n/a
30LF-008-01-PR	2	200 CWP Gate, LF Brz, Threaded Bonnet, Solid Disc, RS, Press	n/a	n/a	n/a
200 CWP BRONZE GATE VALVE, NRS					
30-033-01-PR	1/2	200 CWP Gate, Brz, Threaded Bonnet, Solid Disc, NRS, Press	PF113	n/a	n/a
30-034-01-PR	3/4	200 CWP Gate, Brz, Threaded Bonnet, Solid Disc, NRS, Press	PF113	n/a	n/a
30-035-01-PR	1	200 CWP Gate, Brz, Threaded Bonnet, Solid Disc, NRS, Press	PF113	n/a	n/a
30-036-01-PR	1 1/4	200 CWP Gate, Brz, Threaded Bonnet, Solid Disc, NRS, Press	PF113	n/a	n/a
30-037-01-PR	1 1/2	200 CWP Gate, Brz, Threaded Bonnet, Solid Disc, NRS, Press	PF113	n/a	n/a
30-038-01-PR	2	200 CWP Gate, Brz, Threaded Bonnet, Solid Disc, NRS, Press	PF113	n/a	n/a
30LF-033-01-PR	1/2	200 CWP Gate, LF Brz, Threaded Bonnet, Solid Disc, NRS, Press	n/a	n/a	n/a
30LF-034-01-PR	3/4	200 CWP Gate, LF Brz, Threaded Bonnet, Solid Disc, NRS, Press	n/a	n/a	n/a
30LF-035-01-PR	1	200 CWP Gate, LF Brz, Threaded Bonnet, Solid Disc, NRS, Press	n/a	n/a	n/a
30LF-036-01-PR	1 1/4	200 CWP Gate, LF Brz, Threaded Bonnet, Solid Disc, NRS, Press	n/a	n/a	n/a
30LF-037-01-PR	1 1/2	200 CWP Gate, LF Brz, Threaded Bonnet, Solid Disc, NRS, Press	n/a	n/a	n/a
30LF-038-01-PR	2	200 CWP Gate, LF Brz, Threaded Bonnet, Solid Disc, NRS, Press	n/a	n/a	n/a

Apollo Part Number	Size	Description	NIBCO No.	Viega Model No.	Viega Stock Code
200 CWP BRONZE GLOBE VALVE, PTFE DISC					
33-133-01-PR	1/2	200 CWP Globe, Brz, Threaded Bonnet, PTFE Disc, Press	PF211Y	n/a	n/a
33-134-01-PR	3/4	200 CWP Globe, Brz, Threaded Bonnet, PTFE Disc, Press	PF211Y	n/a	n/a
33-135-01-PR	1	200 CWP Globe, Brz, Threaded Bonnet, PTFE Disc, Press	PF211Y	n/a	n/a
33-136-01-PR	1 1/4	200 CWP Globe, Brz, Threaded Bonnet, PTFE Disc, Press	PF211Y	n/a	n/a
33-137-01-PR	1 1/2	200 CWP Globe, Brz, Threaded Bonnet, PTFE Disc, Press	PF211Y	n/a	n/a
33-138-01-PR	2	200 CWP Globe, Brz, Threaded Bonnet, PTFE Disc, Press	PF211Y	n/a	n/a
33LF-133-01-PR	1/2	200 CWP Globe, LF Brz, Threaded Bonnet, PTFE Disc, Press	n/a	n/a	n/a
33LF-134-01-PR	3/4	200 CWP Globe, LF Brz, Threaded Bonnet, PTFE Disc, Press	n/a	n/a	n/a
33LF-135-01-PR	1	200 CWP Globe, LF Brz, Threaded Bonnet, PTFE Disc, Press	n/a	n/a	n/a
33LF-136-01-PR	1 1/4	200 CWP Globe, LF Brz, Threaded Bonnet, PTFE Disc, Press	n/a	n/a	n/a
33LF-137-01-PR	1 1/2	200 CWP Globe, LF Brz, Threaded Bonnet, PTFE Disc, Press	n/a	n/a	n/a
33LF-138-01-PR	2	200 CWP Globe, LF Brz, Threaded Bonnet, PTFE Disc, Press	n/a	n/a	n/a
WATER PRESSURE REDUCING VALVES, BRONZE					
36E-103-01-PR	1/2	Valve, Press Red, 36E100 Series, Brz, Press	n/a	n/a	n/a
36E-104-01-PR	3/4	Valve, Press Red, 36E100 Series, Brz, Press	n/a	n/a	n/a
36E-105-01-PR	1	Valve, Press Red, 36E100 Series, Brz, Press	n/a	n/a	n/a
36ELF-103-01-PR	1/2	Valve, Press Red, 36E100 Series, LF Brz, Press	n/a	n/a	n/a
36ELF-104-01-PR	3/4	Valve, Press Red, 36E100 Series, LF Brz, Press	n/a	n/a	n/a
36ELF-105-01-PR	1	Valve, Press Red, 36E100 Series, LF Brz, Press	n/a	n/a	n/a
36-203-01-PR	1/2	Valve, Press Red, 36200 Series, Brz, Press	n/a	n/a	n/a
36-204-01-PR	3/4	Valve, Press Red, 36200 Series, Brz, Press	n/a	n/a	n/a
36-205-01-PR	1	Valve, Press Red, 36200 Series, Brz, Press	n/a	n/a	n/a
36-206-01-PR	1 1/4	Valve, Press Red, 36200 Series, Brz, Press	n/a	n/a	n/a
36-207-01-PR	1 1/2	Valve, Press Red, 36200 Series, Brz, Press	n/a	n/a	n/a
36-208-01-PR	2	Valve, Press Red, 36200 Series, Brz, Press	n/a	n/a	n/a
36LF-203-01-PR	1/2	Valve, Press Red, 36200 Series, LF Brz, Press	n/a	n/a	n/a
36LF-204-01-PR	3/4	Valve, Press Red, 36200 Series, LF Brz, Press	n/a	n/a	n/a

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CROSS REFERENCE CHART

XPRESS Valves

Apollo Part Number	Size	Description	NIBCO No.	Viega Model No.	Viega Stock Code
36LF-205-01-PR	1	Valve, Press Red, 36200 Series, LF Brz, Press	n/a	n/a	n/a
36LF-206-01-PR	1 1/4	Valve, Press Red, 36200 Series, LF Brz, Press	n/a	n/a	n/a
36LF-207-01-PR	1 1/2	Valve, Press Red, 36200 Series, LF Brz, Press	n/a	n/a	n/a
36LF-208-01-PR	2	Valve, Press Red, 36200 Series, LF Brz, Press	n/a	n/a	n/a
WYE STRAINER, BRONZE					
59-003-P2-PR	1/2	Strainer, Y, 59 Ser, Brz, 50 mesh. With Plug, Press	PF221-A	n/a	n/a
59-004-P2-PR	3/4	Strainer, Y, 59 Ser, Brz, 20 mesh. With Plug, Press	PF221-A	n/a	n/a
59-005-P2-PR	1	Strainer, Y, 59 Ser, Brz, 20 mesh. With Plug, Press	PF221-A	n/a	n/a
59-006-P2-PR	1 1/4	Strainer, Y, 59 Ser, Brz, 20 mesh. With Plug, Press	PF221-A	n/a	n/a
59-007-P2-PR	1 1/2	Strainer, Y, 59 Ser, Brz, 20 mesh. With Plug, Press	PF221-A	n/a	n/a
59-008-P2-PR	2	Strainer, Y, 59 Ser, Brz, 20 mesh. With Plug, Press	PF221-A	n/a	n/a
59LF-003-P2-PR	1/2	Strainer, Y, 59 Ser, LF Brz, 50 mesh. With Plug, Press	n/a	n/a	n/a
59LF-004-P2-PR	3/4	Strainer, Y, 59 Ser, LF Brz, 50 mesh. With Plug, Press	n/a	n/a	n/a
59LF-005-P2-PR	1	Strainer, Y, 59 Ser, LF Brz, 50 mesh. With Plug, Press	n/a	n/a	n/a
59LF-006-P2-PR	1 1/4	Strainer, Y, 59 Ser, LF Brz, 50 mesh. With Plug, Press	n/a	n/a	n/a
59LF-007-P2-PR	1 1/2	Strainer, Y, 59 Ser, LF Brz, 50 mesh. With Plug, Press	n/a	n/a	n/a
59LF-008-P2-PR	2	Strainer, Y, 59 Ser, LF Brz, 50 mesh. With Plug, Press	n/a	n/a	n/a
59-003-01-PR	1/2	Strainer, Y, 59 Ser, Brz, 50 mesh. Plain Cap, Press	PF221-B	n/a	n/a
59-004-01-PR	3/4	Strainer, Y, 59 Ser, Brz, 20 mesh. Plain Cap, Press	PF221-B	n/a	n/a
59-005-01-PR	1	Strainer, Y, 59 Ser, Brz, 20 mesh. Plain Cap, Press	PF221-B	n/a	n/a
59-006-01-PR	1 1/4	Strainer, Y, 59 Ser, Brz, 20 mesh. Plain Cap, Press	PF221-B	n/a	n/a
59-007-01-PR	1 1/2	Strainer, Y, 59 Ser, Brz, 20 mesh. Plain Cap, Press	PF221-B	n/a	n/a
59-008-01-PR	2	Strainer, Y, 59 Ser, Brz, 20 mesh. Plain Cap, Press	PF221-B	n/a	n/a
59LF-003-01-PR	1/2	Strainer, Y, 59 Ser, LF Brz, 50 mesh. Plain Cap, Press	n/a	n/a	n/a
59LF-004-01-PR	3/4	Strainer, Y, 59 Ser, LF Brz, 20 mesh. Plain Cap, Press	n/a	n/a	n/a
59LF-005-01-PR	1	Strainer, Y, 59 Ser, LF Brz, 20 mesh. Plain Cap, Press	n/a	n/a	n/a
59LF-006-01-PR	1 1/4	Strainer, Y, 59 Ser, LF Brz, 20 mesh. Plain Cap, Press	n/a	n/a	n/a
59LF-007-01-PR	1 1/2	Strainer, Y, 59 Ser, LF Brz, 20 mesh. Plain Cap, Press	n/a	n/a	n/a
59LF-008-01-PR	2	Strainer, Y, 59 Ser, LF Brz, 20 mesh. Plain Cap, Press	n/a	n/a	n/a

APOLLOXPRESS®

Apollo Part Number	Size	Description	NIBCO No.	Viega Model No.	Viega Stock Code
200 CWP BRONZE SWING CHECK, PTFE DISC					
61Y-203-T1-PR	1/2	200 CWP Swing Check, Y-Pattern, PTFE Disc, Press	PF413Y	n/a	n/a
61Y-204-T1-PR	3/4	200 CWP Swing Check, Y-Pattern, PTFE Disc, Press	PF413Y	n/a	n/a
61Y-205-T1-PR	1	200 CWP Swing Check, Y-Pattern, PTFE Disc, Press	PF413Y	n/a	n/a
61Y-206-T1-PR	1 1/4	200 CWP Swing Check, Y-Pattern, PTFE Disc, Press	PF413Y	n/a	n/a
61Y-207-T1-PR	1 1/2	200 CWP Swing Check, Y-Pattern, PTFE Disc, Press	PF413Y	n/a	n/a
61Y-208-T1-PR	2	200 CWP Swing Check, Y-Pattern, PTFE Disc, Press	PF413Y	n/a	n/a
61YLF-203-T1-PR	1/2	200 CWP Swing Check, LF Brz, Y-Pattern, PTFE Disc, Press	n/a	n/a	n/a
61YLF-204-T1-PR	3/4	200 CWP Swing Check, LF Brz, Y-Pattern, PTFE Disc, Press	n/a	n/a	n/a
61YLF-205-T1-PR	1	200 CWP Swing Check, LF Brz, Y-Pattern, PTFE Disc, Press	n/a	n/a	n/a
61YLF-206-T1-PR	1 1/4	200 CWP Swing Check, LF Brz, Y-Pattern, PTFE Disc, Press	n/a	n/a	n/a
61YLF-207-T1-PR	1 1/2	200 CWP Swing Check, LF Brz, Y-Pattern, PTFE Disc, Press	n/a	n/a	n/a
61YLF-208-T1-PR	2	200 CWP Swing Check, LF Brz, Y-Pattern, PTFE Disc, Press	n/a	n/a	n/a
IN-LINE CHECK VALVE, BRONZE, BALL CONE					
61-103-01-PR	1/2	Vlv, Ball Cone Chk, 61-100 Ser, Brz, Press	PF480Y	2974	22353
61-104-01-PR	3/4	Vlv, Ball Cone Chk, 61-100 Ser, Brz, Press	PF480Y	2974	22358
61-105-01-PR	1	Vlv, Ball Cone Chk, 61-100 Ser, Brz, Press	PF480Y	2974	22363
61-106-01-PR	1 1/4	Vlv, Ball Cone Chk, 61-100 Ser, Brz, Press	PF480Y	2974	22368
61-107-01-PR	1 1/2	Vlv, Ball Cone Chk, 61-100 Ser, Brz, Press	PF480Y	2974	22373
61-108-01-PR	2	Vlv, Ball Cone Chk, 61-100 Ser, Brz, Press	PF480Y	2974	22378
61LF-103-01-PR	1/2	Vlv, Ball Cone Chk, 61-100 Ser, LF Brz, Press	n/a	2974ZL	79035
61LF-104-01-PR	3/4	Vlv, Ball Cone Chk, 61-100 Ser, LF Brz, Press	n/a	2974ZL	79040
61LF-105-01-PR	1	Vlv, Ball Cone Chk, 61-100 Ser, LF Brz, Press	n/a	2974ZL	79045
61LF-106-01-PR	1 1/4	Vlv, Ball Cone Chk, 61-100 Ser, LF Brz, Press	n/a	2974ZL	79050
61LF-107-01-PR	1 1/2	Vlv, Ball Cone Chk, 61-100 Ser, LF Brz, Press	n/a	2974ZL	79055
61LF-108-01-PR	2	Vlv, Ball Cone Chk, 61-100 Ser, LF Brz, Press	n/a	2974ZL	79060

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



CROSS REFERENCE CHART

XPRESS Valves

APOLLOXPRESS®

Apollo Part Number	Size	Description	NIBCO No.	Viega Model No.	Viega Stock Code
BALL VALVES					
77W-103-01	1/2	Ball Valve, Brz, NSF 61, Press End	PC585-70	2970.1	22053
77W-104-01	3/4	Ball Valve, Brz, NSF 61, Press End	PC585-70	2970.1	22058
77W-105-01	1	Ball Valve, Brz, NSF 61, Press End	PC585-70	2970.1	22063
77W-106-01	1 1/4	Ball Valve, Brz, NSF 61, Press End	PC585-70	2970.1	22068
77W-107-01	1 1/2	Ball Valve, Brz, NSF 61, Press End	PC585-70	2970.1	22073
77W-108-01	2	Ball Valve, Brz, NSF 61, Press End	PC585-70	2970.1	22078
64WC-09-01	2 1/2	Ball Valve, Brass, Press End, XLC, Apollo International™	n/a	n/a	n/a
64WC-00-01	3	Ball Valve, Brass, Press End, XLC, Apollo International™	n/a	n/a	n/a
64WC-0A-01	4	Ball Valve, Brass, Press End, XLC, Apollo International™	n/a	n/a	n/a
77W-143-01	1/2	Ball Valve, Brz, SS Ball & Stem, NSF 61, Press End	PC585-70-66	2970.3	22054
77W-144-01	3/4	Ball Valve, Brz, SS Ball & Stem, NSF 61, Press End	PC585-70-66	2970.3	22059
77W-145-01	1	Ball Valve, Brz, SS Ball & Stem, NSF 61, Press End	PC585-70-66	2970.3	22064
77W-146-01	1 1/4	Ball Valve, Brz, SS Ball & Stem, NSF 61, Press End	PC585-70-66	2970.3	22069
77W-147-01	1 1/2	Ball Valve, Brz, SS Ball & Stem, NSF 61, Press End	PC585-70-66	2970.3	22077
77W-148-01	2	Ball Valve, Brz, SS Ball & Stem, NSF 61, Press End	PC585-70-66	2970.3	22080
77W-103-HC	1/2	Ball Valve, Brz, NSF 61, Press x Hose Cap & Chain	PC585-70-HC	n/a	n/a
77W-104-HC	3/4	Ball Valve, Brz, NSF 61, Press x Hose Cap & Chain	PC585-70-HC	n/a	n/a
77W-143-HC	1/2	Ball Valve, Brz, SS Ball & Stem, NSF 61, Press x Hose Cap & Chain	PC585-70-66-HC	n/a	n/a
77W-144-HC	3/4	Ball Valve, Brz, SS Ball & Stem, NSF 61, Press x Hose Cap & Chain	PC585-70-66-HC	n/a	n/a
77W-103-11	1/2	Ball Valve, Brz, NSF 61, Press End, Thermo-Seal™ Handle	PC585-70-NS	2970	19678
77W-104-11	3/4	Ball Valve, Brz, NSF 61, Press End, Thermo-Seal™ Handle	PC585-70-NS	2970	19683
77W-105-11	1	Ball Valve, Brz, NSF 61, Press End, Thermo-Seal™ Handle	PC585-70-NS	2970	19688
77W-106-11	1 1/4	Ball Valve, Brz, NSF 61, Press End, Thermo-Seal™ Handle	PC585-70-NS	2970	19693
77W-107-11	1 1/2	Ball Valve, Brz, NSF 61, Press End, Thermo-Seal™ Handle	PC585-70-NS	2970	19698
77W-108-11	2	Ball Valve, Brz, NSF 61, Press End, Thermo-Seal™ Handle	PC585-70-NS	2970	19703
77W-143-11	1/2	Ball Valve, Brz, SS Trim, NSF 61, Press, Thermo-Seal™ Handle	PC585-70-66-NS	n/a	n/a
77W-144-11	3/4	Ball Valve, Brz, SS Trim, NSF 61, Press, Thermo-Seal™ Handle	PC585-70-66-NS	n/a	n/a
77W-145-11	1	Ball Valve, Brz, SS Trim, NSF 61, Press, Thermo-Seal™ Handle	PC585-70-66-NS	n/a	n/a
77W-146-11	1 1/4	Ball Valve, Brz, SS Trim, NSF 61, Press, Thermo-Seal™ Handle	PC585-70-66-NS	n/a	n/a
77W-147-11	1 1/2	Ball Valve, Brz, SS Trim, NSF 61, Press, Thermo-Seal™ Handle	PC585-70-66-NS	n/a	n/a

Apollo Part Number	Size	Description	NIBCO No.	Viega Model No.	Viega Stock Code
77W-148-11	2	Ball Valve, Brz, SS Trim, NSF 61, Press, Thermo-Seal™ Handle	PC585-70-66-NS	n/a	n/a
77WLF-103-01	1/2	Ball Valve, LF Brz, Press End	n/a	2970.1ZL	79095
77WLF-104-01	3/4	Ball Valve, LF Brz, Press End	n/a	2970.1ZL	79100
77WLF-105-01	1	Ball Valve, LF Brz, Press End	n/a	2970.1ZL	79105
77WLF-106-01	1 1/4	Ball Valve, LF Brz, Press End	n/a	2970.1ZL	79110
77WLF-107-01	1 1/2	Ball Valve, LF Brz, Press End	n/a	2970.1ZL	79115
77WLF-108-01	2	Ball Valve, LF Brz, Press End	n/a	2970.1ZL	79120
77WLF-143-01	1/2	Ball Valve, LF Brz, SS Ball & Stem, Press End	n/a	2970.3ZL	79820
77WLF-144-01	3/4	Ball Valve, LF Brz, SS Ball & Stem, Press End	n/a	2970.3ZL	79825
77WLF-145-01	1	Ball Valve, LF Brz, SS Ball & Stem, Press End	n/a	2970.3ZL	79830
77WLF-146-01	1 1/4	Ball Valve, LF Brz, SS Ball & Stem, Press End	n/a	2970.3ZL	79835
77WLF-147-01	1 1/2	Ball Valve, LF Brz, SS Ball & Stem, Press End	n/a	2970.3ZL	79840
77WLF-148-01	2	Ball Valve, LF Brz, SS Ball & Stem, Press End	n/a	2970.3ZL	79845
77WLF-103-HC	1/2	Ball Valve, LF Brz, Press x Hose Cap & Chain	n/a	n/a	n/a
77WLF-104-HC	3/4	Ball Valve, LF Brz, Press x Hose Cap & Chain	n/a	n/a	n/a
77WLF-103-11	1/2	Ball Valve, LF Brz, Press End, Thermo-Seal™ Handle	n/a	n/a	n/a
77WLF-104-11	3/4	Ball Valve, LF Brz, Press End, Thermo-Seal™ Handle	n/a	n/a	n/a
77WLF-105-11	1	Ball Valve, LF Brz, Press End, Thermo-Seal™ Handle	n/a	n/a	n/a
77WLF-106-11	1 1/4	Ball Valve, LF Brz, Press End, Thermo-Seal™ Handle	n/a	n/a	n/a
77WLF-107-11	1 1/2	Ball Valve, LF Brz, Press End, Thermo-Seal™ Handle	n/a	n/a	n/a
77WLF-108-11	2	Ball Valve, LF Brz, Press End, Thermo-Seal™ Handle	n/a	n/a	n/a
77V-103-01	1/2	Press End, Forged Brass Ball Valve, RPTFE Seats, Chrome Plated Ball, BRS Stem	PC585-70	2970.1	22053
77V-104-01	3/4	Press End, Forged Brass Ball Valve, RPTFE Seats, Chrome Plated Ball, BRS Stem	PC585-71	2970.1	22058
77V-105-01	1	Press End, Forged Brass Ball Valve, RPTFE Seats, Chrome Plated Ball, BRS Stem	PC585-72	2970.1	22063
77V-106-01	1-1/4	Press End, Forged Brass Ball Valve, RPTFE Seats, Chrome Plated Ball, BRS Stem	PC585-73	2970.1	22068
77V-107-01	1-1/2	Press End, Forged Brass Ball Valve, RPTFE Seats, Chrome Plated Ball, BRS Stem	PC585-74	2970.1	22073
77V-108-01	2	Press End, Forged Brass Ball Valve, RPTFE Seats, Chrome Plated Ball, BRS Stem	PC585-75	2970.1	22078
77V-143-01	1/2	Press End, Forged Brass Ball Valve, RPTFE Seats, SS Ball & Stem	PC585-70-66	2970.3	22054
77V-144-01	3/4	Press End, Forged Brass Ball Valve, RPTFE Seats, SS Ball & Stem	PC585-70-67	2970.3	22059
77V-145-01	1	Press End, Forged Brass Ball Valve, RPTFE Seats, SS Ball & Stem	PC585-70-68	2970.3	22064
77V-146-01	1-1/4	Press End, Forged Brass Ball Valve, RPTFE Seats, SS Ball & Stem	PC585-70-69	2970.3	22069

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CROSS REFERENCE CHART

XPRESS Valves

Apollo Part Number	Size	Description	NIBCO No.	Viega Model No.	Viega Stock Code
77V-147-01	1-1/2	Press End, Forged Brass Ball Valve, RPTFE Seats, SS Ball & Stem	PC585-70-70	2970.3	22077
77V-148-01	2	Press End, Forged Brass Ball Valve, RPTFE Seats, SS Ball & Stem	PC585-70-71	2970.3	22080
77VLF-103-01	1/2	Press End, Lead Free Forged Brass Ball Valve, RPTFE Seats, Plated LF Ball & LF BRS Stem	PC585-80-LF	2970.1ZL	79095
77VLF-104-01	3/4	Press End, Lead Free Forged Brass Ball Valve, RPTFE Seats, Plated LF Ball & LF BRS Stem	PC585-80-LF	2970.1ZL	79100
77VLF-105-01	1	Press End, Lead Free Forged Brass Ball Valve, RPTFE Seats, Plated LF Ball & LF BRS Stem	PC585-80-LF	2970.1ZL	79105
77VLF-106-01	1-1/4	Press End, Lead Free Forged Brass Ball Valve, RPTFE Seats, Plated LF Ball & LF BRS Stem	PC585-80-LF	2970.1ZL	79110
77VLF-107-01	1-1/2	Press End, Lead Free Forged Brass Ball Valve, RPTFE Seats, Plated LF Ball & LF BRS Stem	PC585-80-LF	2970.1ZL	79115
77VLF-108-01	2	Press End, Lead Free Forged Brass Ball Valve, RPTFE Seats, Plated LF Ball & LF BRS Stem	PC585-80-LF	2970.1ZL	79120
77VLF-143-01	1/2	Press End, Lead Free Forged Brass Ball Valve, RPTFE Seats, SS Ball & Stem	PC585-66-LF	2970.3ZL	79820
77VLF-144-01	3/4	Press End, Lead Free Forged Brass Ball Valve, RPTFE Seats, SS Ball & Stem	PC585-66-LF	2970.3ZL	79825
77VLF-145-01	1	Press End, Lead Free Forged Brass Ball Valve, RPTFE Seats, SS Ball & Stem	PC585-66-LF	2970.3ZL	79830
77VLF-146-01	1-1/4	Press End, Lead Free Forged Brass Ball Valve, RPTFE Seats, SS Ball & Stem	PC585-66-LF	2970.3ZL	79835
77VLF-147-01	1-1/2	Press End, Lead Free Forged Brass Ball Valve, RPTFE Seats, SS Ball & Stem	PC585-66-LF	2970.3ZL	79840
77VLF-148-01	2	Press End, Lead Free Forged Brass Ball Valve, RPTFE Seats, SS Ball & Stem	PC585-66-LF	2970.3ZL	79845
BALANCING VALVES					
58A-103-PR	1/2	Press End, DZR Brass Balance Valve			
58A-104-PR	3/4	Press End, DZR Brass Balance Valve			
58A-103-PR	1	Press End, DZR Brass Balance Valve			
58A-104-PR	1-1/4	Press End, DZR Brass Balance Valve			
58A-103-PR	1-1/2	Press End, DZR Brass Balance Valve			
58A-104-PR	2	Press End, DZR Brass Balance Valve			
BACKFLOW PREVENTERS, RPZ, BRONZE					
4A-203-T2F-PR	1/2	RP4A, Brz, BV, SAE Test Cock, Press	n/a	n/a	n/a
4A-204-T2F-PR	3/4	RP4A, Brz, BV, SAE Test Cock, Press	n/a	n/a	n/a
4A-205-T2F-PR	1	RP4A, Brz, BV, SAE Test Cock, Press	n/a	n/a	n/a
4A-206-T2-PR	1 1/4	RP4A, Brz, with BV, Press	n/a	n/a	n/a
4A-207-T2-PR	1 1/2	RP4A, Brz, with BV, Press	n/a	n/a	n/a
4A-208-T2-PR	2	RP4A, Brz, with BV, Press	n/a	n/a	n/a
4ALF-203-T2F-PR	1/2	RP4ALF, LF Brz, BV, SAE Test Cock, Press	n/a	n/a	n/a
4ALF-204-T2F-PR	3/4	RP4ALF, LF Brz, BV, SAE Test Cock, Press	n/a	n/a	n/a
4ALF-205-T2F-PR	1	RP4ALF, LF Brz, BV, SAE Test Cock, Press	n/a	n/a	n/a
4ALF-206-T2-PR	1 1/4	RP4ALF, LF Brz, with BV, Press	n/a	n/a	n/a
4ALF-207-T2-PR	1 1/2	RP4ALF, LF Brz, with BV, Press	n/a	n/a	n/a
4ALF-208-T2-PR	2	RP4ALF, LF Brz, with BV, Press	n/a	n/a	n/a

Fittings

XPress Product Number	Description	Viega Cross	NIBCO cross
10075500	800 1/2 CxC Copper Coupling with Stop	78047	900110
10075502	800 3/4 CxC Copper Coupling with Stop	78052	9001250
10075504	800 1 CxC Copper Coupling with Stop	78057	900145
10075506	800 1 1/4 CxC Copper Coupling with Stop	78062	9001700
10075508	800 1 1/2 CxC Copper Coupling with Stop	78067	9002000
10075510	800 2 CxC Copper Coupling with Stop	78072	9002350
10061947	800 2 1/2 CxC Copper Coupling with Stop	20728	900265
10061952	800 3 CxC Copper Coupling with Stop	20733	900305
10061957	800 4 CxC Copper Coupling with Stop	20738	900385
10061932	801 2 1/2 CxC Copper Coupling without Stop	20743	902070
10061937	801 3 CxC Copper Coupling without Stop	20748	902075
10061942	801 4 CxC Copper Coupling without Stop	20753	902085
10075513	801 1/2 CXC Copper Coupling without Stop	78172	902030
10075515	801 3/4 CXC Copper Coupling without Stop	78177	902040
10075517	801 1 CXC Copper Coupling without Stop	78182	9020500
10075521	801 1 1/4 CXC Copper Coupling without Stop	78187	902055
10075523	801 1 1/2 CXC Copper Coupling without Stop	78192	902060
10075527	801 2 CXC Copper Coupling without Stop	78197	9020650
10075030	801 1/2 CXC Copper Coupling without Stop - Extended	79005	
10075032	801 3/4 CXC Copper Coupling without Stop - Extended	79010	
10075034	801 1 CXC Copper Coupling without Stop - Extended	79015	
10075900	801R 3/4 x 1/2 CxC Copper Reducer Coupling	78147	900130
10075144	801R 1 x 1/2 CxC Copper Reducer Coupling	15603	9001550
10075898	801R 1 x 3/4 CxC Copper Reducer Coupling	78152	9001500
10066073	801R 1 1/4 x 1/2 CxC Copper Reducer Coupling		
10066001	801R 1 1/4 x 3/4 CxC Copper Reducer Coupling	15593	9001800
10075896	801R 1 1/4 x 1 CxC Copper Reducer Coupling	78157	900175
10066380	801R 1 1/2 x 1/2 CxC Copper Reducer Coupling		
10066381	801R 1 1/2 x 3/4 CxC Copper Reducer Coupling	18473	9002150
10066003	801R 1 1/2 x 1 CxC Copper Reducer Coupling	15588	900210
10075128	801R 1 1/2 x 1 1/4 CxC Copper Reducer Coupling	78162	9002050
10066082	801R 2 x 1/2 CxC Copper Reducer Coupling		
10066398	801R 2 x 3/4 CxC Copper Reducer Coupling	18468	9002550
10066005	801R 2 x 1 CxC Copper Reducer Coupling	15608	9002500
10066072	801R 2 x 1 1/4 CxC Copper Reducer Coupling	22328	9002450
10075130	801R 2 x 1 1/2 CxC Copper Reducer Coupling	78167	900240
10066440	801R 2 1/2 x 1 CxC Copper Reducer Coupling	20685	900285
10066441	801R 2 1/2 x 1 1/4 CxC Copper Reducer Coupling	20690	900280
10066442	801R 2 1/2 x 1 1/2 CxC Copper Reducer Coupling	20695	900275
10066074	801R 2 1/2 x 2 CxC Copper Reducer Coupling	20700	900270
10066444	801R 3 x 3/4 CxC Copper Reducer Coupling		
10066445	801R 3 x 1 1/2 CxC Copper Reducer Coupling	20705	900320
10066446	801R 3 x 2 CxC Copper Reducer Coupling	20710	900315
10066076	801R 3 x 2 1/2 CxC Copper Reducer Coupling	20715	900310
10066447	801R 4 x 2 CxC Copper Reducer Coupling	20720	900405
10066151	801R 4 x 2 1/2 CxC Copper Reducer Coupling	20725	900400
10066152	801R 4 x 3 CxC Copper Reducer Coupling	20730	900395
10075750	803 1/2 CxF Low Lead Brass Female Adapter	79300	902465
10075752	803 3/4 CxF Low Lead Brass Female Adapter	79315	902495

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CROSS REFERENCE CHART

Fittings

APOLLOXPRESS®

XPress Product Number	Description	Viega Cross	NIBCO cross
10075754	803 1 CxF Low Lead Brass Female Adapter	79330	902525
10075756	803 1¼ CxF Low Lead Brass Female Adapter	79350	9025550
10075758	803 1½ CxF Low Lead Brass Female Adapter	79365	902590
10075760	803 2 CxF Low Lead Brass Female Adapter	79370	902615
10075750	803 ½ CxF Brass Female Adapter	77892	
10075752	803 ¾ CxF Brass Female Adapter	77907	
10075754	803 1 CxF Brass Female Adapter	77917	
10075756	803 1¼ CxF Brass Female Adapter	77932	
10075758	803 1½ CxF Brass Female Adapter	77947	
10075760	803 2 CxF Brass Female Adapter	77952	
10075780	803R ½ x ¾ CxF Low Lead Brass Female Reducing Adapter	79295	9024800
10075782	803R ½ x ¾ CxF Low Lead Brass Female Reducing Adapter	79305	902475
10075784	803R ¾ x 1 CxF Low Lead Brass Female Reducing Adapter	79310	9025100
10075796	803R 1 x 1¼ CxF Low Lead Brass Female Reducing Adapter	79320	9025370
10075798	803R 1 x ¾ CxF Low Lead Brass Female Reducing Adapter	79325	902540
10075800	803R 1 x 1¼ CxF Low Lead Brass Female Reducing Adapter	79335	9025350
10075786	803R 1¼ x ½ CxF Low Lead Brass Female Reducing Adapter	79340	
10075788	803R 1¼ x 1 CxF Low Lead Brass Reducing Adapter	79345	902556
10075790	803R 1¼ x 1½ CxF Low Lead Brass Female Reducing Adapter	79355	9025650
10075792	803R 1½ x ¾ CxF Low Lead Brass Female Reducing Adapter		9025905
10075794	803R 1½ x 1 CxF Low Lead Brass Female Reducing Adapter	79360	902591
10075762	803-2 ½ FTGxF Low Lead Brass Female Street Adapter	79430	
10075768	803-2 ¾ FTGxF Low Lead Brass Female Street Adapter	79445	
10075772	803-2 1 FTGxF Low Lead Brass Female Street Adapter	79450	
10075774	803-2 1¼ FTGxF Low Lead Brass Female Street Adapter	79465	
10075776	803-2 1½ FTGxF Low Lead Brass Female Street Adapter	79470	
10075778	803-2 2 FTGxF Low Lead Brass Female Street Adapter	79475	
10075762	803-2 ½ FTGxF Brass Female Street Adapter	78007	
10075768	803-2 ¾ FTGxF Brass Female Street Adapter	78022	
10075772	803-2 1 FTGxF Brass Female Street Adapter	78027	
10075774	803-2 1¼ FTGxF Brass Female Street Adapter	78032	
10075776	803-2 1½ FTGxF Brass Female Street Adapter	78037	
10075778	803-2 2 FTGxF Brass Female Street Adapter	78042	
10075764	803-2 ½ x ¾ FTGxF Low Lead Brass Female Reducing Street Adapter	79425	
10075766	803-2 ½ x ¾ FTGxF Low Lead Brass Female Reducing Street Adapter	79435	
10075770	803-2 ¾ x 1 FTGxF Low Lead Brass Female Reducing Street Adapter	79440	

XPress Product Number	Description	Viega Cross	NIBCO cross
10075804	803-2 1 x ½ FTGxF Low Lead Brass Female Reducing Street Adapter	79455	
10075802	803-2 1¼ x ½ FTGxF Low Lead Brass Female Reducing Street Adapter	79460	
10075806	804 ½ CxM Low Lead Brass Male Adapter	79215	903060
10075808	804 ¾ CxM Low Lead Brass Male Adapter	79230	9030950
10075844	804 1 CxM Low Lead Brass Male Adapter	79245	9031350
10075810	804 1¼ CxM Low Lead Brass Male Adapter	79260	9031700
10075812	804 1½ CxM Low Lead Brass Male Adapter	79275	9032000
10075814	804 2 CxM Low Lead Brass Male Adapter	79290	903230
10075806	804 ½ CxM Brass Male Adapter	77817	
10075808	804 ¾ CxM Brass Male Adapter	77832	
10075844	804 1 CxM Brass Male Adapter	77842	
10075810	804 1¼ CxM Brass Male Adapter	77857	
10075812	804 1½ CxM Brass Male Adapter	77872	
10075814	804 2 CxM Brass Male Adapter	77877	
10061982	804 2½ CxM Copper Male Adapter	20823	903265
10061987	804 3 CxM Copper Male Adapter	20828	903270
10061992	804 4 CxM Copper Male Adapter	20838	903275
10075836	804R ½ x ¾ CxM Low Lead Brass Male Reducing Adapter	79210	9030800
10075838	804R ½ x ¾ CxM Low Lead Brass Male Reducing Adapter	79220	903075
10075840	804R ¾ x 1 CxM Low Lead Brass Male Reducing Adapter	79225	903120
10075842	804R ¾ x 1 CxM Low Lead Brass Male Reducing Adapter	79235	
10075854	804R 1 x ¾ CxM Low Lead Brass Male Reducing Adapter	79240	903155
10075856	804R 1 x 1¼ CxM Low Lead Brass Male Reducing Adapter	79250	903150
10075846	804R 1¼ x 1 CxM Low Lead Brass Male Reducing Adapter	79255	903185
10075848	804R 1¼ x 1½ CxM Low Lead Brass Male Reducing Adapter	79265	903180
10075850	804R 1½ x 1¼ CxM Low Lead Brass Male Reducing Adapter	79270	903210
10075852	804R 1½ x 2 CxM Low Lead Brass Male Reducing Adapter	79280	
10075858	804R 2 x 1½ CxM Low Lead Brass Male Reducing Adapter	79285	
10075816	804-2 ½ FTGxM Low Lead Brass Male Street Adapter	79380	
10075822	804-2 ¾ FTGxM Low Lead Brass Male Street Adapter	79395	
10075826	804-2 1 FTGxM Low Lead Brass Male Street Adapter	79405	
10075828	804-2 1¼ FTGxM Low Lead Brass Male Street Adapter	79410	
10075830	804-2 1½ FTGxM Low Lead Brass Male Street Adapter	79415	
10075834	804-2 2 FTGxM Low Lead Brass Male Street Adapter	79420	
10075816	804-2 ½ FTGxM Brass Male Street Adapter	77962	
10075822	804-2 ¾ FTGxM Brass Male Street Adapter	77977	
10075826	804-2 1 FTGxM Brass Male Street Adapter	77982	

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CROSS REFERENCE CHART

Fittings

XPress Product Number	Description	Viega Cross	NIBCO cross
10075828	804-2 1/4 FTGxM Brass Male Street Adapter	77987	
10075830	804-2 1/2 FTGxM Brass Male Street Adapter	77992	
10075834	804-2 2 FTGxM Brass Male Street Adapter	77997	
10075818	804-2 1/2 x 3/8 FTGxM Low Lead Brass Male Reducing Street Adapter	79375	
10075820	804-2 1/2 x 3/4 FTGxM Low Lead Brass Male Reducing Street Adapter	79385	
10075824	804-2 3/4 x 1/2 FTGxM Low Lead Brass Male Reducing Street Adapter	79390	
10075832	804-2 1 x 3/4 FTGxM Low Lead Brass Male Reducing Street Adapter	79400	
10075060	806 1/2 CxC Copper 45 Elbow	77607	904280
10075062	806 3/4 CxC Copper 45 Elbow	77612	904290
10075064	806 1 CxC Copper 45 Elbow	77617	904300
10075090	806 1 1/4 CxC Copper 45 Elbow	77622	904310
10075092	806 1 1/2 CxC Copper 45 Elbow	77627	9043200
10075094	806 2 CxC Copper 45 Elbow	77632	904330
10062052	806 2 1/2 CxC Copper 45 Elbow	20653	904340
10062057	806 3 CxC Copper 45 Elbow	20658	904350
10062062	806 4 CxC Copper 45 Elbow	20663	904370
10075054	806-2 1/2 FTGxC Copper 45 Street Elbow	77637	904620
10075056	806-2 3/4 FTGxC Copper 45 Street Elbow	77642	904630
10075058	806-2 1 FTGxC Copper 45 Street Elbow	77647	94640
10075084	806-2 1 1/4 FTGxC Copper 45 Street Elbow	77652	904650
10075086	806-2 1 1/2 FTGxC Copper 45 Street Elbow	77657	904660
10075088	806-2 2 FTGxC Copper 45 Street Elbow	77662	904670
10062037	806-2 2 1/2 FTGxC Copper 45 Street Elbow	20668	904680
10062042	806-2 3 FTGxC Copper 45 Street Elbow	20673	904690
10062047	806-2 4 FTGxC Copper 45 Street Elbow	20678	904700
10075554	807 1/2 CxC Copper 90 Elbow	77317	905545
10075556	807 3/4 CxC Copper 90 Elbow	77322	905560
10075052	807 1 CxC Copper 90 Elbow	77327	905575
10075078	807 1 1/4 CxC Copper 90 Elbow	77332	905595
10075080	807 1 1/2 CxC Copper 90 Elbow	77337	905615
10075082	807 2 CxC Copper 90 Elbow	77342	905640
10062021	807-C 2 1/2 CxC Copper Close Turn 90 Elbow		905665
10062027	807-C 3 CxC Copper Close Turn 90 Elbow		905690
10062032	807-C 4 CxC Copper Close Turn 90 Elbow		905720
10062066	807-L 2 1/2 CxC Copper Long Turn 90 Elbow	20623	907905
10062067	807-L 3 CxC Copper Long Turn 90 Elbow	20628	907910
10062069	807-L 4 CxC Copper Long Turn 90 Elbow	20633	907920
10066101	807 3/4 x 1/2 CxC Copper 90 Reducing Elbow	77325	9055650
10066099	807 1 x 1/2 CxC Copper 90 Reducing Elbow		
10066083	807 1 x 3/4 CxC Copper 90 Reducing Elbow	77330	
10066460	807 3 x 2 CxC Copper 90 Reducing Elbow		
10066141	807 3 x 2 1/2 CxC Copper 90 Reducing Elbow		
10075566	807-2 1/2 FTGxC Copper 90 Street Elbow	77347	905910
10075568	807-2 3/4 FTGxC Copper 90 Street Elbow	77352	905915
10075046	807-2 1 FTGxC Copper 90 Street Elbow	77357	905920
10075072	807-2 1 1/4 FTGxC Copper 90 Street Elbow	77362	9059250
10075074	807-2 1 1/2 FTGxC Copper 90 Street Elbow	77367	9059300
10075076	807-2 2 FTGxC Copper 90 Street Elbow	77372	9059350

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XPress Product Number	Description	Viega Cross	NIBCO cross
10062007	807-C-2 2 1/2 FTGxC Copper Close Turn 90 Street Elbow		905940
10062012	807-C-2 3 FTGxC Copper Close Turn 90 Street Elbow		905945
10062017	807-C-2 4 FTGxC Copper Close Turn 90 Street Elbow		905955
10062071	807-L-2 2 1/2 FTGxC Copper Long Turn 90 Street Elbow	20638	908090
10062073	807-L-2 3 FTGxC Copper Long Turn 90 Street Elbow	20643	908095
10062074	807-L-2 4 FTGxC Copper Long Turn 90 Street Elbow	20648	
10066560	8707-3 1/2 CxF Low Lead Brass & Copper Female 90 Elbow	79525	9082750
10066561	8707-3 3/4 CxF Low Lead Brass & Copper Female 90 Elbow	79540	806415
10066562	8707-3 1 CxF Low Lead Brass & Copper Female 90 Elbow	79550	9082780
10066563	8707-3 1 1/4 CxF Low Lead Brass & Copper Female 90 Elbow	79560	806470
10066564	8707-3 1 1/2 CxF Low Lead Brass & Copper Female 90 Elbow	79565	806505
10066565	8707-3 2 CxF Low Lead Brass & Copper Female 90 Elbow	79570	806535
10066566	8707-3 1/2 x 3/8 CxF Low Lead Brass & Copper Female 90 Reducing Elbow	79520	9082550
10066567	8707-3 1/2 x 3/4 CxF Low Lead Brass & Copper Female 90 Reducing Elbow	79530	9082560
10066568	8707-3 3/4 x 1/2 CxF Low Lead Brass & Copper Female 90 Reducing Elbow	79535	806430
10066569	8707-3 1 x 1/2 CxF Low Lead Brass & Copper Female 90 Reducing Elbow	79545	
10066570	8707-4 1/2 CxM Low Lead Brass & Copper Male 90 Elbow	77492	806990
10066571	8707-4 3/4 CxM Low Lead Brass & Copper Male 90 Elbow	77507	807015
10066572	8707-4 1 CxM Low Lead Brass & Copper Male 90 Elbow	77512	807035
10066573	8707-4 1 1/4 CxM Low Lead Brass & Copper Male 90 Elbow	77517	807060
10066574	8707-4 1 1/2 CxM Low Lead Brass & Copper Male 90 Elbow	77522	807090
10066575	8707-4 2 CxM Low Lead Brass & Copper Male 90 Elbow	77527	807115
10066576	8707-4 1/2 x 3/4 CxM Low Lead Brass & Copper Male 90 Reducing Elbow	77497	9082600
10066577	8707-4 3/4 x 1/2 CxM Low Lead Brass & Copper Male 90 Reducing Elbow	77502	807025
10066578	8707-3-2 1/2 FTGXF 90 Female Street Elbow		
10066418	8707-3-2 1/2 FTGXF 90 Female Street Elbow		
10075366	8707-3-5 1/2 CxF Low Lead Brass Drop Ear 90 Elbow	79190	8066850
10075368	8707-3-5 3/4 CxF Low Lead Brass Drop Ear 90 Elbow	79195	806700
10075369	8707-3-5 1 CxF Low Lead Brass Drop Ear 90 Elbow		
10075367	8707-3-5 1/2 x 3/8 CxF Low Lead Brass Reducing Drop Ear 90 Elbow	79185	

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

CROSS REFERENCE CHART

Fittings

APOLLOXPRESS®

XPress Product Number	Description	Viega Cross	NIBCO cross
10075578	811 1/2 CxCxC Copper Tee	77377	909720
10075580	811 3/4 CxCxC Copper Tee	77387	909840
10075582	811 1 CxCxC Copper Tee	77412	909930
10075096	811 1 1/4 CxCxC Copper Tee	77442	910005
10075098	811 1 1/2 CxCxC Copper Tee	77457	910115
10075100	811 2 CxCxC Copper Tee	77477	910260
1007518	811 2 1/2 CxCxC Copper Tee	20683	910445
10062072	811 3 CxCxC Copper Tee	20693	910660
10062077	811 4 CxCxC Copper Tee	20708	911215
10066590	811R 3/4 x 1/2 x 1/2 CxCxC Copper Reducing Tee	77392	909890
10066039	811R 3/4 x 1/2 x 3/4 CxCxC Copper Reducing Tee	77397	909885
10075906	811R 3/4 x 3/4 x 1/2 CxCxC Copper Reducing Tee	77402	909855
10066430	811R 3/4 x 3/4 x 1/2 CxCxC Copper Reducing Tee	77402	909855
10066591	811R 1 x 1/2 x 1/2 CxCxC Copper Reducing Tee		
10066592	811R 1 x 1/2 x 3/4 CxCxC Copper Reducing Tee	22263	
10066066	811R 1 x 1/2 x 1 CxCxC Copper Reducing Tee	94767	9099900
10066593	811R 1 x 3/4 x 1/2 CxCxC Copper Reducing Tee	77417	909980
10066594	811R 1 x 3/4 x 3/4 CxCxC Copper Reducing Tee	77422	909975
10066040	811R 1 x 3/4 x 1 CxCxC Copper Reducing Tee	77427	9099700
10066102	811R 1 x 3/4 x 1 1/4 CxCxC Copper Reducing Tee		
10075904	811R 1 x 1 x 1/2 CxCxC Copper Reducing Tee	77432	909955
10066431	811R 1 x 1 x 1/2 CxCxC Copper Reducing Tee	77432	909955
10075902	811R 1 x 1 x 3/4 CxCxC Copper Reducing Tee	77437	909945
10066432	811R 1 x 1 x 3/4 CxCxC Copper Reducing Tee	77437	909945
10066049	811R 1 1/4 x 1/2 x 1/2 CxCxC Copper Reducing Tee		
10066080	811R 1 1/4 x 1/2 x 1 CxCxC Copper Reducing Tee		
10066392	811R 1 1/4 x 1/2 x 1 1/4 CxCxC Copper Reducing Tee	22253	
10066051	811R 1 1/4 x 3/4 x 1/2 CxCxC Copper Reducing Tee	22243	900400
10066052	811R 1 1/4 x 3/4 x 3/4 CxCxC Copper Reducing Tee	22258	
10066053	811R 1 1/4 x 3/4 x 1 CxCxC Copper Reducing Tee	22268	
10066054	811R 1 1/4 x 3/4 x 1 1/4 CxCxC Copper Reducing Tee	22248	
10066044	811R 1 1/4 x 3/4 x 1 1/2 CxCxC Copper Reducing Tee		
10066055	811R 1 1/4 x 1 x 1/2 CxCxC Copper Reducing Tee	22238	
10075122	811R 1 1/4 x 1 x 3/4 CxCxC Copper Reducing Tee	94762	9100550
10075124	811R 1 1/4 x 1 x 1 CxCxC Copper Reducing Tee	14568	9100500
10066056	811R 1 1/4 x 1 x 1 1/4 CxCxC Copper Reducing Tee		
10066395	811R 1 1/4 x 1 x 1 1/2 CxCxC Copper Reducing Tee		
10075106	811R 1 1/4 x 1 1/4 x 1/2 CxCxC Copper Reducing Tee	94757	9100300
10075102	811R 1 1/4 x 1 1/4 x 3/4 CxCxC Copper Reducing Tee	77452	9100250
10075104	811R 1 1/4 x 1 1/4 x 1 CxCxC Copper Reducing Tee	77447	910020
10066394	811R 1 1/2 x 1/2 x 1 1/4 CxCxC Copper Reducing Tee		
10066009	811R 1 1/2 x 1/2 x 1 1/2 CxCxC Copper Reducing Tee		9102400
10066195	811R 1 1/2 x 3/4 x 1/2 CxCxC Copper Reducing Tee		
10066383	811R 1 1/2 x 3/4 x 3/4 CxCxC Copper Reducing Tee		9102300
10066397	811R 1 1/2 x 3/4 x 1 CxCxC Copper Reducing Tee		
10066058	811R 1 1/2 x 3/4 x 1 1/4 CxCxC Copper Reducing Tee		
10066043	811R 1 1/2 x 3/4 x 1 1/2 CxCxC Copper Reducing Tee		
10066042	811R 1 1/2 x 3/4 x 2 CxCxC Copper Reducing Tee		
10066011	811R 1 1/2 x 1 x 3/4 CxCxC Copper Reducing Tee	79660	9102050
10066012	811R 1 1/2 x 1 x 1 CxCxC Copper Reducing Tee	15458	9102000
10066081	811R 1 1/2 x 1 x 1 1/4 CxCxC Copper Reducing Tee		

XPress Product Number	Description	Viega Cross	NIBCO cross
10066013	811R 1 1/2 x 1 x 1 1/2 CxCxC Copper Reducing Tee	15463	9101900
10066108	811R 1 1/2 x 1 x 2 CxCxC Copper Reducing Tee		
10066059	811R 1 1/2 x 1 1/4 x 1/2 CxCxC Copper Reducing Tee		
10066060	811R 1 1/2 x 1 1/4 x 3/4 CxCxC Copper Reducing Tee	22233	
10066014	811R 1 1/2 x 1 1/4 x 1 CxCxC Copper Reducing Tee	15453	9101750
10075126	811R 1 1/2 x 1 1/4 x 1 1/4 CxCxC Copper Reducing Tee	15483	9101700
10066393	811R 1 1/2 x 1 1/4 x 1 1/2 CxCxC Copper Reducing Tee		
10066109	811R 1 1/2 x 1 1/4 x 2 CxCxC Copper Reducing Tee		
10066015	811R 1 1/2 x 1 1/2 x 1/2 CxCxC Copper Reducing Tee	15448	910145
10075108	811R 1 1/2 x 1 1/2 x 3/4 CxCxC Copper Reducing Tee	77462	910140
10075110	811R 1 1/2 x 1 1/2 x 1 CxCxC Copper Reducing Tee	77467	910135
10075112	811R 1 1/2 x 1 1/2 x 1 1/4 CxCxC Copper Reducing Tee	77472	9101300
10066384	811R 2 x 1/2 x 2 CxCxC Copper Reducing Tee		9104250
10066121	811R 2 x 3/4 x 3/4 CxCxC Copper Reducing Tee		
10066092	811R 2 x 3/4 x 1 1/2 CxCxC Copper Reducing Tee		
10066388	811R 2 x 3/4 x 2 CxCxC Copper Reducing Tee		
10066079	811R 2 x 1 x 1/2 CxCxC Copper Reducing Tee		
10066062	811R 2 x 1 x 3/4 CxCxC Copper Reducing Tee		
10066017	811R 2 x 1 x 1 CxCxC Copper Reducing Tee		9103850
10066126	811R 2 x 1 x 1 1/4 CxCxC Copper Reducing Tee		
10066197	811R 2 x 1 x 1 1/2 CxCxC Copper Reducing Tee		
10066018	811R 2 x 1 x 2 CxCxC Copper Reducing Tee		9103700
10066063	811R 2 x 1 1/4 x 3/4 CxCxC Copper Reducing Tee		
10066129	811R 2 x 1 1/4 x 1 CxCxC Copper Reducing Tee		
10066019	811R 2 x 1 1/4 x 1 1/4 CxCxC Copper Reducing Tee	15518	9103500
10066125	811R 2 x 1 1/4 x 1 1/2 CxCxC Copper Reducing Tee		
10066064	811R 2 x 1 1/4 x 2 CxCxC Copper Reducing Tee		
10066065	811R 2 x 1 1/2 x 1/2 CxCxC Copper Reducing Tee		
10066020	811R 2 x 1 1/2 x 3/4 CxCxC Copper Reducing Tee	15513	9103300
10066021	811R 2 x 1 1/2 x 1 CxCxC Copper Reducing Tee	15498	9103250
10066022	811R 2 x 1 1/2 x 1 1/4 CxCxC Copper Reducing Tee	15508	9103200
10066023	811R 2 x 1 1/2 x 1 1/2 CxCxC Copper Reducing Tee	15503	9103150
10066024	811R 2 x 1 1/2 x 2 CxCxC Copper Reducing Tee	22228	
10066385	811R 2 x 2 x 1/2 CxCxC Copper Reducing Tee	15538	9103000
10075114	811R 2 x 2 x 3/4 CxCxC Copper Reducing Tee	94777	9102950
10075116	811R 2 x 2 x 1 CxCxC Copper Reducing Tee	94772	910290
10075118	811R 2 x 2 x 1 1/4 CxCxC Copper Reducing Tee	77487	9102850
10075120	811R 2 x 2 x 1 1/2 CxCxC Copper Reducing Tee	77482	910280
10066499	811R 2 x 1 1/2 x 2 1/2 CxCxC Copper Reducing Tee		
10066501	811R 2 1/2 x 3/4 x 2 CxCxC Copper Reducing Tee		
10066502	811R 2 1/2 x 3/4 x 2 1/2 CxCxC Copper Reducing Tee	20684	910620
10066503	811R 2 1/2 x 1 x 2 CxCxC Copper Reducing Tee		
10066514	811R 2 1/2 x 1 x 2 1/2 CxCxC Copper Reducing Tee	20689	910590
10066504	811R 2 1/2 x 1 1/4 x 2 1/2 CxCxC Copper Reducing Tee	20694	910540
10066505	811R 2 1/2 x 1 1/2 x 1 1/2 CxCxC Copper Reducing Tee		
10066506	811R 2 1/2 x 1 1/2 x 2 CxCxC Copper Reducing Tee		
10066507	811R 2 1/2 x 1 1/2 x 2 1/2 CxCxC Copper Reducing Tee	20699	910530
10066508	811R 2 1/2 x 2 x 3/4 CxCxC Copper Reducing Tee	20704	910520
10066509	811R 2 1/2 x 2 x 1 CxCxC Copper Reducing Tee	20709	910515
10066510	811R 2 1/2 x 2 x 1 1/4 CxCxC Copper Reducing Tee		910510
10066511	811R 2 1/2 x 2 x 1 1/2 CxCxC Copper Reducing Tee	22283	910505

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CROSS REFERENCE CHART

Fittings

XPress Product Number	Description	Viega Cross	NIBCO cross
10066396	811R 2½ x 2 x 2 CxCxC Copper Reducing Tee	22278	910500
10066174	811R 2½ x 2 x 2½ CxCxC Copper Reducing Tee	20714	910495
10066515	811R 2½ x 2 x 3 CxCxC Copper Reducing Tee		
10068042	811R 2½ x 2½ x ½ CxCxC Copper Reducing Tee	22303	910490
10068045	811R 2½ x 2½ x ¾ CxCxC Copper Reducing Tee	22298	910485
10068048	811R 2½ x 2½ x 1 CxCxC Copper Reducing Tee	22293	910480
10068051	811R 2½ x 2½ x 1¼ CxCxC Copper Reducing Tee	22288	910475
10068054	811R 2½ x 2½ x 1½ CxCxC Copper Reducing Tee	20803	910470
10068057	811R 2½ x 2½ x 2 CxCxC Copper Reducing Tee	20688	910465
10066522	811R 3 x ¾ x 2½ CxCxC Copper Reducing Tee		
10066523	811R 3 x ¾ x 3 CxCxC Copper Reducing Tee	20719	910885
10066524	811R 3 x 1 x 2½ CxCxC Copper Reducing Tee		
10066525	811R 3 x 1 x 3 CxCxC Copper Reducing Tee	20724	910850
10066526	811R 3 x 1¼ x 3 CxCxC Copper Reducing Tee	20729	910790
10066527	811R 3 x 1½ x 3 CxCxC Copper Reducing Tee	20727	910780
10066528	811R 3 x 2 x 2 CxCxC Copper Reducing Tee	20732	910755
10066529	811R 3 x 2 x 2½ CxCxC Copper Reducing Tee	20734	910750
10066530	811R 3 x 2 x 3 CxCxC Copper Reducing Tee	20793	910745
10066531	811R 3 x 2½ x 2 CxCxC Copper Reducing Tee	20744	910720
10066136	811R 3 x 2½ x 2½ CxCxC Copper Reducing Tee	20749	910715
10066137	811R 3 x 2½ x 3 CxCxC Copper Reducing Tee	20754	910710
10068060	811R 3 x 3 x ½ CxCxC Copper Reducing Tee	20759	910705
10068063	811R 3 x 3 x ¾ CxCxC Copper Reducing Tee	22323	910700
10068066	811R 3 x 3 x 1 CxCxC Copper Reducing Tee	22308	910695
10068069	811R 3 x 3 x 1¼ CxCxC Copper Reducing Tee	22313	910690
10068072	811R 3 x 3 x 1½ CxCxC Copper Reducing Tee	20798	910685
10068075	811R 3 x 3 x 2 CxCxC Copper Reducing Tee	20698	910680
10062079	811R 3 x 3 x 2½ CxCxC Copper Reducing Tee	20703	910675
10066538	811R 4 x 1½ x 3 CxCxC Copper Reducing Tee		
10066539	811R 4 x 2 x 4 CxCxC Copper Reducing Tee		911390
10066138	811R 4 x 2½ x 4 CxCxC Copper Reducing Tee		911350
10066540	811R 4 x 3 x 1½ CxCxC Copper Reducing Tee		
10066541	811R 4 x 3 x 2 CxCxC Copper Reducing Tee	20774	911330
10066139	811R 4 x 3 x 2½ CxCxC Copper Reducing Tee		911325
10066096	811R 4 x 3 x 3 CxCxC Copper Reducing Tee	20784	911320
10066140	811R 4 x 3 x 4 CxCxC Copper Reducing Tee		911310
10068078	811R 4 x 4 x ½ CxCxC Copper Reducing Tee	20788	911265
10068081	811R 4 x 4 x ¾ CxCxC Copper Reducing Tee	20793	911260
10068084	811R 4 x 4 x 1 CxCxC Copper Reducing Tee	20794	911255
10068087	811R 4 x 4 x 1¼ CxCxC Copper Reducing Tee	20795	911250
10068090	811R 4 x 4 x 1½ CxCxC Copper Reducing Tee	20808	600245
10068093	811R 4 x 4 x 2 CxCxC Copper Reducing Tee	20713	911240
10062078	811R 4 x 4 x 2½ CxCxC Copper Reducing Tee	20718	911235
10062076	811R 4 x 4 x 3 CxCxC Copper Reducing Tee	20723	911230
10066070	811BH ½ x ½ x ¾ CxCxC Copper Bullhead Tee	77382	909730
10066006	811BH ½ x ½ x 1 CxCxC Copper Bullhead Tee	15493	9097250
10066071	811BH ¾ x ¾ x 1 CxCxC Copper Bullhead Tee	77407	909845
10066008	811BH 1 x 1 x 1¼ CxCxC Copper Bullhead Tee	15488	9099400
10066128	811BH 1 x 1 x 2 CxCxC Copper Bullhead Tee		
10066107	811BH 1¼ x 1¼ x 2 CxCxC Copper Bullhead Tee		
10066090	811BH 1½ x 1½ x 2 CxCxC Copper Bullhead Tee		

APOLLOXPRESS®

XPress Product Number	Description	Viega Cross	NIBCO cross
10066550	811BH 1½ x 1½ x 3 CxCxC Copper Bullhead Tee		
10066551	811BH 2 x 2 x 3 CxCxC Copper Bullhead Tee		
10066135	811BH 2½ x 2½ x 3 CxCxC Copper Bullhead Tee		
10066094	811BH 2½ x 2½ x 4 CxCxC Copper Bullhead Tee		
10066579	8712 ½ CxCxF Low Lead Brass & Copper Female Outlet Tee	79580	9116470
10066580	8712 ¾ CxCxF Low Lead Brass & Copper Female Outlet Tee	79595	
10066155	8712 ¾ x ¾ x ¼ CxCxF Low Lead Brass & Copper Female Outlet Reducing Tee	79585	9116500
10066581	8712 ¾ x ¾ x ½ CxCxF Low Lead Brass & Copper Female Outlet Reducing Tee	79590	9116502
10066582	8712 1 x 1 x ½ CxCxF Low Lead Brass & Copper Female Outlet Reducing Tee	79760	9116505
10066583	8712 1 x 1 x ¾ CxCxF Low Lead Brass & Copper Female Outlet Reducing Tee	79765	9116510
10066584	8712 1¼ x 1¼ x ½ CxCxF Low Lead Brass & Copper Female Outlet Reducing Tee	79770	9116520
10066585	8712 1¼ x 1¼ x ¾ CxCxF Low Lead Brass & Copper Female Outlet Reducing Tee	79775	9116530
10066586	8712 1½ x 1½ x ½ CxCxF Low Lead Brass & Copper Female Outlet Reducing Tee	79780	9116535
10066587	8712 1½ x 1½ x ¾ CxCxF Low Lead Brass & Copper Female Outlet Reducing Tee	79785	9116540
10066588	8712 2 x 2 x ½ CxCxF Low Lead Brass & Copper Female Outlet Reducing Tee	79790	814760
10066589	8712 2 x 2 x ¾ CxCxF Low Lead Brass & Copper Female Outlet Reducing Tee	79795	9116550
10075166	817 ½ Copper Tube Cap	77712	9172650
10075168	817 ¾ Copper Tube Cap	77717	917270
10075170	817 1 Copper Tube Cap	77722	917275
10075172	817 1¼ Copper Tube Cap	77727	917280
10075174	817 1½ Copper Tube Cap	77732	917285
10075176	817 2 Copper Tube Cap	77737	9172900
10062142	817 2½ Copper Tube Cap	20833	917295
10062147	817 3 Copper Tube Cap	20843	917300
10062152	817 4 Copper Tube Cap	20848	917310
10075146	818 ¾ x ½ FTGxC Copper Fitting Reducer	78077	900810
10075150	818 1 x ½ FTGxC Copper Fitting Reducer	78082	900835
10075148	818 1 x ¾ FTGxC Copper Fitting Reducer	78087	900830
10075336	818 1¼ x ½ FTGxC Copper Fitting Reducer	22333	
10075154	818 1¼ x ¾ FTGxC Copper Fitting Reducer	78092	9008550
10075156	818 1¼ x 1 FTGxC Copper Fitting Reducer	78097	900850
10075332	818 1½ x ½ FTGxC Copper Fitting Reducer	79850	9008900
10075334	818 1½ x ¾ FTGxC Copper Fitting Reducer	14543	9008850
10075158	818 1½ x 1 FTGxC Copper Fitting Reducer	78102	9008800
10075160	818 1½ x 1¼ FTGxC Copper Fitting Reducer	78107	900875
10075338	818 2 x ½ FTGxC Copper Fitting Reducer	79855	9009250
10075340	818 2 x ¾ FTGxC Copper Fitting Reducer	79860	9009200
10075162	818 2 x 1 FTGxC Copper Fitting Reducer	78112	900915
10075152	818 2 x 1¼ FTGxC Copper Fitting Reducer	78117	9009100
10075164	818 2 x 1½ FTGxC Copper Fitting Reducer	78122	900905
10068025	818 2½ x ½ FTGxC Copper Fitting Reducer		
10068001	818 2½ x ¾ FTGxC Copper Fitting Reducer		

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

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CROSS REFERENCE CHART

Fittings

APOLLOXPRESS®

XPress Product Number	Description	Viega Cross	NIBCO cross
10068002	818 2½ x 1 FTGxC Copper Fitting Reducer	20814	
10068017	818 2½ x 1¼ FTGxC Copper Fitting Reducer	20815	
10068004	818 2½ x 1½ FTGxC Copper Fitting Reducer	20813	
10075165	818 2½ x 2 FTGxC Copper Fitting Reducer	20758	900935
10068005	818 3 x ½ FTGxC Copper Fitting Reducer		
10068019	818 3 x ¾ FTGxC Copper Fitting Reducer		
10068007	818 3 x 1 FTGxC Copper Fitting Reducer		
10068008	818 3 x 1¼ FTGxC Copper Fitting Reducer	20817	
10068020	818 3 x 1½ FTGxC Copper Fitting Reducer	20818	
10068010	818 3 x 2 FTGxC Copper Fitting Reducer	20763	
10057500	818 3 x 2½ FTGxC Copper Fitting Reducer	20768	900965
10068011	818 4 x ½ FTGxC Copper Fitting Reducer		
10068022	818 4 x ¾ FTGxC Copper Fitting Reducer		
10068013	818 4 x 1 FTGxC Copper Fitting Reducer		
10068014	818 4 x 1¼ FTGxC Copper Fitting Reducer		
10068023	818 4 x 1½ FTGxC Copper Fitting Reducer		
10068016	818 4 x 2 FTGxC Copper Fitting Reducer		
10057503	818 4 x 2½ FTGxC Copper Fitting Reducer	20778	901040
10057506	818 4 x 3 FTGxC Copper Fitting Reducer	20783	901035
10075370	836 ½ CxC Copper Cross Over	77742	928025
10075372	836 ¾ CxC Copper Cross Over	77747	928035
10075860	8733 ½ CxC Low Lead Brass Union	79125	B25540
10075862	8733 ¾ CxC Low Lead Brass Union	79130	9256500
10075864	8733 1 CxC Low Lead Brass Union	79135	9256600
10075866	8733 1¼ CxC Low Lead Brass Union	79140	9256630
10075868	8733 1½ CxC Low Lead Brass Union	79145	9256640
10075870	8733 2 CxC Low Lead Brass Union	79150	9256650
10075860	8733 ½ CxC Brass Union	77667	
10075862	8733 ¾ CxC Brass Union	77672	
10075864	8733 1 CxC Brass Union	77677	
10075866	8733 1¼ CxC Brass Union	77682	
10075868	8733 1½ CxC Brass Union	77687	
10075870	8733 2 CxC Brass Union	77692	
10075872	8733-3 ½ CxF Low Lead Brass Female Union	79700	B25860
10075874	8733-3 ¾ CxF Low Lead Brass Female Union	79705	9256710
10075876	8733-3 1 CxF Low Lead Brass Female Union	79710	B25885
10075878	8733-3 1¼ CxF Low Lead Brass Female Union	79715	B25895
10075880	8733-3 1½ CxF Low Lead Brass Female Union	79720	B25905
10075882	8733-3 2 CxF Low Lead Brass Female Union	79725	B25915
10075884	8733-4 ½ CxM Low Lead Brass Male Union	79730	9256800
10075886	8733-4 ¾ CxM Low Lead Brass Male Union	79735	9256810
10075888	8733-4 1 CxM Low Lead Brass Male Union	79740	9256820
10075890	8733-4 1¼ CxM Low Lead Brass Male Union	79745	B26045
10075892	8733-4 1½ CxM Low Lead Brass Male Union	79750	B26055
10075894	8733-4 2 CxM Low Lead Brass Male Union	79755	9256850
10075702	8741 2 Copper 125 lb. Flange	79695	B305506
10061761	8741 2½ Large Diameter Copper 125 lb. Flange	20853	914555
10061767	8741 3 Large Diameter Copper 125 lb. Flange	20858	914560
10061736	8741 4 Large Diameter Copper 125 lb. Flange	20863	914570
10061763	8771 2½ Large Diameter Copper 150 lb. Flange		

XPress Product Number	Description	Viega Cross	NIBCO cross
10061769	8771 3 Large Diameter Copper 150 lb. Flange		
10061738	8771 4 Large Diameter Copper 150 lb. Flange		

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



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ELKHART PRODUCTS CORPORATION Customer Service (574) 264-3181

Terms & Conditions/Warranty Information

APOLLOEXPRESS®

TERMS & CONDITIONS OF SALE

- Payment: 2% 10th prox. Net 30 days.
- All prices F.O.B. shipping point with freight allowed on shipments of 750 pounds and/or \$5,000 net minimum to all shipping points within the United States excluding Alaska and Hawaii. No freight allowed on Air Freight or Parcel Post shipments. Claims for shortages must be made within 10 days of receipt of material. Our responsibility ends when a delivery receipt is furnished us by the carrier.
- No invoice rendered For Less than \$50.00.
- No freight will be allowed on Air Freight, Air Express, Parcel Post or U.P.S. shipments.
- All Conbraco products may be combined to make sufficient weight for full freight allowance.
- Phone order quoted prices are subject to correction. Prices and designs are subject to change without notice.
- Orders for material of special design or specification are made to customer's order and are not subject to cancellation or return.
- All goods returned to us will not be accepted unless a full explanation has been made and our written authorized permission obtained in advance. All goods returned - if accepted - will be credited at invoice price, less 30% for service and rehandling charges, plus shipping expenses.
- We reserve the right to adjust orders to box quantities.

WARRANTY AND LIMITATIONS OF LIABILITY

Conbraco Industries, Inc. and Elkhart Products Corporation 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 Valve products**, this warranty is 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 these warranties 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. **For All Fittings**, (Elkhart Products Corporation) this warranty is for a period of FIFTY years from the date of delivery to you, our initial purchaser. Elkhart Products Corporation also warrants that all fittings will be free from defects in material and workmanship which will impair their usefulness provided they are used in the service for which they are recommended. Any fitting which proves to be defective will be replaced or a credit issued, but no incidental labor charges, expenses or damages will be allowed. **Apollo International™ Products**: Conbraco Industries, Inc. warrants its Apollo International™ products, to 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 Industries, Inc. and Elkhart Products Corporation 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. and Elkhart Products Corporation 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.

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

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

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APOLLO VALVES Customer Service (704) 841-6000



APOLLO VALVES SALES MANAGERS & INTERNATIONAL REPS

	AREAS COVERED	EMAIL	PHONE	FAX
REGIONAL SALES DIRECTORS				
	Brian Blalock	Commercial	brian.blalock@conbraco.com	704-614-3744
	Mike Green	Industrial	mike.green@conbraco.com	704-841-6039
REGIONAL SALES MANAGERS – COMMERCIAL				
COMMERCIAL	Kevin Ashworth	Mid-Atlantic	kevin.ashworth@conbraco.com	757-272-6200
	Steve Brown	Western	steve.brown@conbraco.com	425-985-5095
	Andy Fretz	Canada	andy.fretz@conbraco.com	647-281-3161
	Ben Lauletta	Northeast	ben.lauletta@conbraco.com	518-795-4629
	Sean Perry	West - Backflow Prevention Products	sean.perry@conbraco.com	704-641-9167
	Nick Shelley	South Central & Florida	nick.shelley@conbraco.com	214-790-4157
	Bill Stanton	North Central	bill.stanton@conbraco.com	262-227-0584
	REGIONAL SALES MANAGERS – INDUSTRIAL			
INDUSTRIAL	JR Fortenberry	Mountain States	jr.fortenberry@conbraco.com	480-824-8288
	Ken Griffin	Southeast	ken.griffin@conbraco.com	704-621-9296
	Sanford Pauly	Central	sanford.pauly@conbraco.com	513-716-7772
	James Saldivar	South Central	james.saldivar@conbraco.com	832-776-5547
	Jim Todman	Canada	jim.todman@conbraco.com	905-407-8385
	Skip Wilson	West	skip.wilson@conbraco.com	760-330-3293
REGIONAL SALES MANAGERS – FIRE PROTECTION & WATERWORKS				
FIRE	Brian Fiorisi	Central	brian.fiorisi@conbraco.com	574-524-6675
	Cary Wiley	East	cary.wiley@conbraco.com	678-642-3356
LASCO FITTINGS REGIONAL SALES MANAGERS – IRRIGATION				
IRRIGATION	David Beyer	Northeast	dbeyer@lascofittings.com	561-718-9379
	Ben Freeman	Southeast	bfreeman@lascofittings.com	205-919-4944
	Ron Modugno	West	rmodugno@lascofittings.com	661-910-5058
	Jimmy White	Central	jwhite@lascofittings.com	731-234-2372
	Rick Williamson	Eastern Specifications Manager	rwilliamson@lascofittings.com	386-451-2307
INTERNATIONAL SALES REPS				
INTERNATIONAL	Jose Arias	Mexico	jose.arias@conbraco.com	1-956-631-4542
	JR Jefferson	Central & South America	jr.jefferson@conbraco.com	1-832-220-3783
	Luke Liu	China	luke.liu@conbraco.com	86-411-869-02498
	Brencliff Group	Australia	petermcl@brencliff.com	61-0477-223110
	Pegler Yorkshire	United Kingdom	adrian.byrne@conbraco.com	44-7740-449858
	Pegler Yorkshire Mid East	Middle East/India	peter.pydubai@gmail.com	971-4-454-2353
		Europe/Africa/Israel	Contact Customer Service	1-704-841-6000

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	AGENCY	AREAS COVERED	EMAIL	PHONE	FAX
SOUTHEAST	SOUTHEAST REGION REPS				
	Mid South Marketing, Inc.	VA/MD/Washington DC/WV-East	michael.uecker@msmsales1.com	804-213-3801	804-213-3802
	Pro Marketing, Inc.	NC/SC/TN-East	sales@promarketinginc.net	864-578-4334	864-578-4889
	Spirit Group	FL (except Panhandle)	info@spiritgroupinc.com	407-291-6035	407-299-0378
	Tim Morales & Associates, Inc.	AL/FL Panhandle	sales@timmorales.com	251-602-8333	251-602-8339
	White Wolf Group	GA	info@whitewolfgroupinc.com	800-401-4870	888-908-9372
NORTHEAST	NORTHEAST REGION REPS				
	Conroy & Griese Sales, Inc.	NY-East/NJ-North	iezzi52@aol.com	856-429-2660	856-429-2230
	Layden Company	NY-Upstate/PA-East/DE/NJ-South	joejr@laydencompany.com	610-363-6657	877-529-3361
	Urell, Inc.	MA/New England States	apollo@urell.com	617-923-9500	617-926-9414
NORTH CENTRAL	NORTH CENTRAL REGION REPS				
	FourMation Sales	MN/ND/SD/WI-West	ryan@fourmationsales.com	763-420-6900	763-420-6993
	Marshall-Rodeno Heartland	NE/IA (Except River Counties)	dnaylor@marshallrodeno.com	303-575-6701	303-575-6706
	Midwest Spec	Northern OH, Western PA, WV	glsales@mwspec.com	330-538-0406	330-538-0410
	Midwest Spec	Southern OH, KY	rvsales@mwspec.com	800-755-7732	513-353-1589
	New Tech Marketing	Northern-IL/WI-East/IN/MI-UP/IA-River Counties	sales@new-techmarketing.com	630-378-4300	630-378-0343
	New Tech Marketing	MO/Southern IL/Northeast Kansas	ntm112@aol.com	618-394-0329	618-394-0427
	V.E. Sales Co., Inc.	MI (Except Upper Peninsula)	tomv@vesalesinc.com	586-774-7760	586-774-1490
SOUTH CENTRAL	SOUTH CENTRAL REGION REPS				
	Marathon Flow Control	TX, OK, KS except Northeast, LA	sales@marathonflowcontrol.com	214-201-0100	214-201-0104
	NSC Marketing Group Inc.	OK	nsc_tulsa@sbcglobal.net	918-627-5340	918-664-1408
	PEPCO Sales & Marketing	TX	is@pepcosales.com	972-823-8700	972-823-8717
	Southern Marketing Group	MS/TN-West/AR/Bowie Cty.-TX	SMG49@bellsouth.net	901-547-0042	901-547-0035
WESTERN	WESTERN REGION REPS				
	Elmco Duddy	CA - South	tduddy@elmcoduddy.com	626-333-9942	626-855-4811
	Gordon & Associates	WA, OR, AK, Northern counties ID	laura@gordonandassoc.com	360-566-1470	360-566-1478
	HC Fletcher	CA - North	apollosales@hcfletcher.com	800-432-7047	949-660-9072
	Marshall-Rodeno Associated	ID-SE, NV-NE, UT, CO, MT, NM	dnaylor@marshallrodeno.com	303-575-6701	303-575-6706
	Romatec	CA - North PVF (Non AB 1953)	apollo@romatec.com	877-530-3530	661-588-3534
	Southwest Valves	CA (Waterworks)	c.burell@southwestvalve.com	559-261-2703	559-261-2711
	Southwestern Industrial Sales Co.	AZ, Nevada (except NE)	eduardop@sw-ind.com	480-458-5838	480-458-5843
	Spec Management Group	HI	msmarch4@cox.net	949-481-4225	949-487-0990
CANADA	CANADA REPS				
	Barclay Sales Ltd.	British Columbia	jblair@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.	Saskatchewan	doug.dynamicage@sasktel.net	306-343-1901	306-343-1901
	J. Levandier Sales, Inc.	NS, NB, PE & NL	vickie@jlevandiersales.com	506-858-1615	506-858-1084
	Kern Industries, Ltd.	Alberta-North	colin@kernind.com	780-451-2056	780-454-6687
	Kern Industries Calgary, Ltd.	Alberta-South	laura.wood@kernindustries.ca	403-730-7791	403-239-8179
	Key to the North Sales Agency, Inc.	Ontario-North	office@keytothenorth.net	705-867-1401	705-867-1606
	Task Controls, Inc.	Ontario	infotomonto@taskcontrols.com	416-291-3004	416-754-3481
	Tom Beggs Agencies Ltd.	Manitoba/NW Ontario	tba@mts.net	204-953-1900	204-774-6915
	Ventes Techniques Nimatec, Inc.	Quebec	nimatec@nimatec.com	450-691-9427	450-691-4949
IRRIGATION ONLY	IRRIGATION REPS				
	Active Sales Northwest, Inc.	OR, WA, Western ID	stevek@activesalesnw.com	541-726-0320	541-726-1148
	Biz Sales Company	OH, KY, MI, IN, parts of PA, WV, WI	dzavelson@bizpvf.com	216-595-2888	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
	J&J Midwest Sales	NE, IA, MO, KS	john@jandjmidwestsales.com	314-422-8419	
	John Hart	FL	jhart@lascotfittings.com	772-595-7773	
	Larry Perkins	TX - Southern	lperkins@lascotfittings.com	936-443-1096	
	Marel Enterprises	New England, NY, DE, MD, VA, DC, parts of PA & WV	marelenterprise@gmail.com	631-271-1718	631-427-8558
	Marsh & Moore	GA	jaustin@marshmoore.com	352-321-7499	904-827-8795
	Marshall-Rodeno Associated	CO/WY/MT/ID-SE/UT/NV-NE	dnaylor@marshallrodeno.com	303-575-6701	303-575-6706
	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	TX - Northern	sdobbs@lascotfittings.com	469-442-8510	972-417-9733
	Southern Marketing Group	MS/TN-West/AR/Bowie Cty.-TX	SMG49@bellsouth.net	901-547-0042	901-547-0035
	Spec Management Group	CA	msmarch4@cox.net	949-481-4225	949-487-0990
	Tim Morales & Associates, Inc.	AL	sales@timmorales.com	251-602-8333	251-602-8339
	VPC Sales	AZ	chudson@vpcsales.com	661-257-3923	661-257-3928

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APOLLOXPRESS®

	AGENCY	AREAS COVERED	EMAIL	PHONE	FAX
SOUTHEAST	SOUTHEAST REGION REPS				
	Harry Eklof & Associates, Inc.	District of Columbia, MD	info@harryeklof.com	301-772-1700	301-772-7347
	Harry Eklof & Associates, Inc.	VA		804-266-0079	804-266-0280
	Harry Eklof & Associates, Inc.	Southern NJ, Eastern PA, DE		856-439-9801	856-439-9799
	Pro Marketing, Inc.	NC, SC, Eastern TN	sales@promarketinginc.net	864-578-4334	864-578-4889
	White Wolf Group, Inc.	GA	info@whitewolfgroupinc.com	800-401-4870	888-908-9372
	Spirit Group, Inc.	FL, except panhandle	info@spiritgroupinc.com	407-291-6035	407-299-0378
	Tim Morales & Associates, Inc.	AL and FL panhandle	sales@timmorales.com	251-602-8333	251-602-8339
SOUTHERN	SOUTHERN REGION REPS				
	BWC (Barbot, Woolf, Canale)	LA	chuck@bwc.com	504-734-0229	504-734-3711
	Southern Marketing Group	AR, MS, TN	SMG49@bellsouth.net	901-547-0042	901-547-0035
	Hugh M. Cunningham Inc.	OK, TX except El Paso	team2@hughcunningham.com	972-888-3800	972-888-3838
MIDWESTERN	MIDWESTERN REGION REPS				
	V.E. Sales Company, Inc.	MI except upper peninsula	tomv@vesalesinc.com	586-774-7760	586-774-1490
	Duiven-McGuire, Inc.	Northern IL	duimcg@aol.com	630-543-3540	630-543-3556
	FourMation Sales	MN/ND/SD	ryan@fourmationsales.com	763-420-6900	763-420-6993
	Big Rivers Marketing, LLC	IA, KS, MO, NE, & Southern IL	trosner@bigriversmarketingllc.com	636-530-9853	636-530-6996
	P-M & Associates, Inc.	IN, KY	plumbinfo@p-massoc.com	317-849-5274	317-849-5271
	Midwest Spec	OH, WV, Western PA	glsales@mwspec.com	800-298-0401	330-538-0410
NORTHEAST	NORTHEAST REGION REPS				
	Goodman Sales Company	Northern NH, Staten Island, Ulster, Orange, Rockland and Sullivan counties in NY	orders@goodmansales.com	201-997-2900	201-997-8370
	Urell, Inc.	CT, ME, MA, NH, RI, VT, Upstate NY except Westchester, Putnam, Dutchess, Columbia, Ulster, Orange, Sullivan and Rockland counties	info@urell.com	617-923-9500	617-926-9414
	Platsky Company, Inc.	Metropolitan NY, Long Island & Columbia counties	orders@platsky.com	516-333-9292	516-333-9446
WESTERN	WESTERN REGION REPS				
	R.K.R. Corporation	MT, ID, WY, UT, CO, NM & El Paso, TX	orders@rknet.com	303-321-7610	303-399-9420
	G.T. Gordon & Associates, Inc.	WA, OR, AK	kenn@gordonandassoc.com	877-566-1470	360-566-1478
	Howard C. Fletcher Company	AZ, CA, NV, HI	hcforders@hcfletcher.com	949-660-0200	949-660-9072

ELKHART PRODUCTS CORPORATION REGIONAL MANAGERS

	AREAS COVERED	EMAIL	PHONE	FAX
REGIONAL MANAGERS				
Keith Baca	Southeast	keith.baca@elkhartproducts.com	615-630-3892	
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Jeremy Swirck	West	jeremy.swirck@elkhartproducts.com	714-296-5346	

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





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