

# "Apollo" PRESS

## COPPER PRESS SYSTEM

APOLLOPRESS® products are ARRA compliant and proudly manufactured in the USA. From fittings, to backflow prevention, our end-to-end press product line gives APOLLOPRESS® the upper hand on any press spec'd installation as a single-source manufacturer with one of the broadest offerings in the market.

APOLLOPRESS® fittings & valves are offered in sizes ranging from 1/2" through 4" and come equipped with an EPDM o-ring that has Leak Before Press® functionality to ensure safe and confident connections, minimizing the potential for installation error. All APOLLOPRESS Products are Lead-Free, heat and flame free (no Hot Work Permit needed), and can be installed in a variety of applications using the majority of industry accepted press tools. Whether you are starting a new project, or performing a repair on a "wet" system, APOLLOPRESS® has what you need, making our system the clear and comprehensive choice.

### FEATURES & BENEFITS

- Proudly Manufactured in USA - ARRA Compliant
- Broadest Press Fitting & Valve Product Offering (All With Lead Free Options)
- Highest Pressure Rating in the Market (300 PSI Max)
- Deeper Cup Depths - Better Seat, Tighter Seal, Straighter Runs
- Patented Leak Before Press® - No Need to Place Leak Path
- Patented Floating/Rotating Flanges
- Close-Turn Large Diameter Elbows for Tight Spaces (Long-Turn Also Available)
- Visual Press Inspection Band for Large Diameter Fittings

### PRODUCT OFFERING

#### FITTINGS

- 45° Elbow (P x P)
- 45° Elbow - Street (FTG x P)
- 90° Elbow (P x P)
- 90° Elbow - Street (FTG x P)
- 90° Elbow - Drop Ear (P x FPT)
- 90° Elbow - Female (P x FPT)
- Adapter - Flange (P x FLG)
- Adapter - Female (P x FPT)
- Adapter - Female Reducing (P x FPT)
- Adapter - Female Street (FTG x FPT)
- Adapter - Male (P x MPT)
- Adapter - Male Reducing (P x MPT)
- Adapter - Male Street (FTG x MPT)
- Adapter - Male Reducing Street (FTG x MPT)
- Adapter - PEX A (P x PEX) **Coming Soon**
- Adapter - PEX B (P x PEX) **Coming Soon**
- Cross-Over (P x P)
- Cap (P x Cap)
- Coupling (P x P)
- Coupling - Reducing (P x P)
- Coupling - No Stop (P x P)
- Coupling - No Stop Ext. (P x P)
- Dielectric Union (P x FPT) **Coming Soon**
- Fitting Reducer (FTG x P)
- Tee (P x P x P)
- Tee - Reducing (P x P x P)
- Tee - Bullhead (P x P x P)
- Tee - Female Outlet (P x P x FPT)
- Union (P x P)
- Union - Female (P x FPT)
- Union - Male (P x MPT)

### OPERATING PARAMETERS

APOLLOPRESS® fittings & valves must be installed using ASTM B88 compliant tubing for Types K, L, and M hard copper tube sizes 1/2" through 4", whereas soft copper tube may be used for sizes 1/2" through 1-1/4"

- Sealing Element: **EPDM**
- Operating Pressure: **300 PSI Max**
- Operating Temperature: **0°F to 250°F**

#### VALVES

- Brass Ball Valves
- Bronze Ball Valves
- Balancing Valves
- Copper Press-End Ball Valves **Coming Soon**
- Check Valves - Swing
- Check Valves - In-line
- Gate Valves
- Globe Valves
- Mixing Valves
- Pressure Reducing Valves
- Backflow Preventers

*All APOLLOPRESS® valves are available in lead free options; fittings are naturally lead free.*



"Apollo" Valves

## APPROVED APPLICATIONS

TYPES OF SERVICE	SYSTEM OPERATING CONDITIONS   COMMENTS	PRESSURE	TEMPERATURE	EPDM O-RING
<b>FLUIDS AND WATER</b>				
Hot & Cold Potable Water		300PSI	32°F-250°F	✓
Rainwater   Gray Water		300PSI	32°F-250°F	✓
Chilled Water	Ethylene   Propylene Glycol	300PSI	32°F-250°F	✓
Hydronic Heating	Ethylene   Propylene Glycol	300PSI	32°F-250°F	✓
Cooling Water	40-90% Ethylene Glycol or Propylene Glycol Solution	200PSI	32°F-250°F	✓
Low-Pressure Steam		Up to 15PSI	248°F	✓
<b>FUEL, OIL &amp; LUBRICANT</b>				
Ethanol	Pure Grain Alcohol	200PSI	32°F-250°F	✓
<b>GASES</b>				
Compressed Air	Less than 25mg/m <sup>3</sup> oil content	200PSI	32°F-250°F	✓
Oxygen - O <sub>2</sub> (Non-Medical)		140PSI	up to 140°F	✓
Nitrogen - N <sub>2</sub>		200PSI	32°F-250°F	✓
Carbon Dioxide - CO <sub>2</sub>		200PSI	32°F-250°F	✓
Argon - Ar		200PSI	Ambient	✓
Hydrogen - H <sub>2</sub>		125PSI	0°F-250°F	✓
Vacuum		29.2 in Hg	Call	✓

Please contact Apollo® Technical Support Department for evaluation and approval of other chemicals that are compatible with EPDM O-Ring

## APPROVALS & CERTIFICATIONS

APPROVALS	FITTINGS	VALVES
IAPMO PS-117	✓	-
IAPMO/ANSI-Z1157	-	✓
ANSI/NSF-61	✓	✓
ANSI/NSF-372	✓	✓
CSA TIL-MSE 13	✓	-
MSS SP Standards	-	✓
ASSE Standards	-	✓
Directive 2011/65/CE (ROHS)	-	✓
Canadian Registration No. (CRN)	✓	✓
Uniform Plumbing Code (UPC)	✓	✓
National Plumbing Code Standard (NSPC)	✓	✓
International Plumbing Code (IPC)	✓	✓

## COMPLIANT WITH

- ARRA
- ASME B16.51
- Uniform Plumbing Code (UPC®)
- International Plumbing Code (IPC®)
- National Standard Plumbing Code
- Section 1417(d) of the Safe Drinking Water Act
- Section 116875 of the California-Health & Safety Code
- Directive 2011/65/CE (RoHS)

## APPROVED TOOL MANUFACTURERS

- Milwaukee
- Ridgid
- REMS
- DeWalt
- NIBCO (up to 2")
- Rothenberger
- Stanley-Virax

## WARRANTY



# 811R Small Diameter

APOLLOPRESS® Press End Copper Reducing Outlet Tee  
CxCxC (3/4"x3/4"x1/2" through 2"x2"x1-1/2")

## SUBMITTAL SHEET

# "Apollo" Flow Controls



Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO#:	
Rep:	
Wholesale Dist.:	

### DESCRIPTION

The APOLLOPRESS® 811R Small Diameter Press Reducing Outlet Tee features a lead free dezincification resistant copper body and an EPDM o-ring. APOLLOPRESS® products are manufactured utilizing proven ASTM materials and standards. Proudly made in the USA.

### FEATURES

- Lead Free Construction
- Ridgid® XL Press Tool Compatible
- Leak Before Press® Technology
- Made in USA

### PERFORMANCE RATING

- Maximum Pressure: 300 psi
- Temperature Range: 32°F to 250°F depending on application

### STANDARD MATERIALS LIST

Body	UNS C12200 Copper
O-Ring	EPDM
Lubrication	Silicone, ANSI/NSF-61 Listed

### APPROVALS

- UPC, cUPC & IPC
- IAPMO PS 117-2016 & TIL MSE-13
- NSF/ANSI 61 - Water Quality
- NSF/ANSI 372 - Lead Free

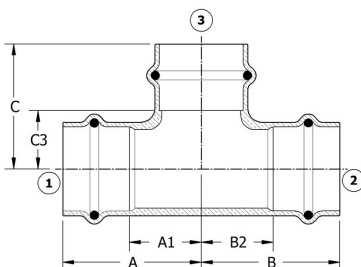
### APOLLOPRESS®

- Small Diameter Sizes 3/4"x3/4"x1/2" through 2"x2"x1-1/2"
- Model 811R, Reducing Outlet Tee

APOLLOPRESS® 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.

### DIMENSIONS

ITEM NO.	MODEL & SIZE (IN.)	DIMENSIONS (IN.)									WT. (LB.)
		A	A1	B	B2	C	C3	HEIGHT	WIDTH	DEPTH	
10077745	811 3/4x3/4x1/2 CU CxCxC TEE	1.59	0.69	1.59	0.69	1.38	0.63	2.00	3.18	1.24	0.290
10077748	811 1/4x1/4x1/2 CxCxC TEE	1.68	0.65	1.68	0.65	1.68	0.93	2.55	3.36	1.74	0.460
10077749	811 1/4x1/4x3/4 CxCxC TEE	1.80	0.77	1.80	0.77	1.79	0.89	2.66	3.60	1.74	0.510
10077750	811 1/4x1/4x1 CxCxC TEE	1.91	0.88	1.91	0.88	1.80	0.90	2.67	3.82	1.74	0.565
10077751	811 1/2x1/2x1/2 CxCxC TEE	1.90	0.47	1.90	0.47	1.85	1.10	2.90	3.80	2.11	0.715
10077752	811 1/2x1/2x3/4 CxCxC TEE	2.09	0.66	2.09	0.66	2.04	1.14	3.09	4.18	2.11	0.805
10077753	811 1/2x1/2x1 CxCxC TEE	2.17	0.74	2.17	0.74	2.08	1.18	3.13	4.34	2.11	0.845
10077754	811 1/2x1/2x1 1/4 CxCxC TEE	2.29	0.86	2.29	0.86	2.16	1.13	3.21	4.58	2.11	0.935
10077746	811 1x1x3/4 CU CxCxC TEE	1.59	0.69	1.59	0.69	1.54	0.79	2.28	3.18	1.49	0.365
10077747	811 1x1x3/4 CU CxCxC TEE	1.75	0.85	1.75	0.85	1.65	0.75	2.39	3.50	1.49	0.430
10077755	811 2x2x1/2 CxCxC TEE	2.13	0.55	2.13	0.55	2.05	1.30	3.34	4.26	2.58	1.065
10077756	811 2x2x3/4 CxCxC TEE	2.37	0.79	2.37	0.79	2.16	1.26	3.45	4.74	2.58	1.230
10077757	811 2x2x1 CxCxC TEE	2.49	0.91	2.49	0.91	2.20	1.30	3.49	4.98	2.58	1.285
10077758	811 2x2x1 1/4 CxCxC TEE	2.62	1.04	2.62	1.04	2.40	1.37	3.69	5.24	2.58	1.420
10077759	811 2x2x1 1/2 CxCxC TEE	2.72	1.14	2.72	1.14	2.80	1.37	4.09	5.44	2.58	1.600



\*LEAD FREE: The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law III-380. ANSI 3rd party approved and listed.

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www.apolloflowcontrols.com

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