

ProPress[®]



SYSTEM w/Smart Connect[®] feature

viega

Submittal Package



- ☐ Potable Water
- ☐ Hydronic Heating
- ☐ Chilled Water
- ☐ Compressed Air
- ☐ Nitrogen N₂
- ☐ Argon
- ☐ Low Pressure Steam
- ☐ Fire Protection
- ☐ Vacuum
- ☐ Argomac - K (welding gas)
- ☐ Corgon
- ☐ Oxygen O₂ (non medical)

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System Data Sheet

System Description

ProPress[®], ProPress XL[™] and ProPress XLC are safe, reliable, and economical copper pipe installation systems that use modern cold press connection technology for a wide assortment of more than 500 fittings in dimensions ranging from 1/2" to 4".

Tubing: K, L, and M hard copper tubing from 1/2" to 4" and soft copper tubing in 1/2" to 1-1/4" diameters.

Applications

All tubing must comply with the ASTM B88 standard. ProPress fittings are approved for installations in both above and below ground applications. Per code, local inspector approval must be obtained prior to installation below ground.

Operating Parameters:

Operating Pressure 200 PSI Max.
Test Pressure 600 PSI Max.
Low Pressure Steam 15 PSI Max.
Vacuum 29.2" Mercury Max. @ 68°F
Operating Temperature 0°F - 250°F

Approved Applications:

- Potable water
- Hydronic heating (w/ Glycol)
- Chilled water
- Compressed Air (200 PSI Max.)
- Non Medical Gases (140 PSI Max.)
- Fire Sprinkler (175 PSI Max.)
- Low Pressure Steam (15 PSI Max.)
- Vacuum (29.2" Mercury Max. @ 68°F)

System Benefits

- Fast and Easy to Use
- Flameless
- Permanent Connections
- Wide Capacity from 1/2" to 4"
- Large Selection of Fittings
- Consistent Professional Appearance
- Less Equipment Required
- Environmentally Friendly Connection System
- Versatility of Fittings and Tools for Variety of Applications

Fittings

Viega ProPress fittings are offered in 500+ configurations including: Elbows, Couplings, Reducers, Tees, Reducing Tees, Threaded Adapters, Unions, Caps, and Flanges. All threaded 1/2" - 2" fittings are bronze. ProPress and ProPress XLC fittings conform to California AB 1953, Vermont 193 and NSF 61 Annex G.

Smart Connect[™] (SC Feature)

In ProPress 1/2" - 4" dimensions, the Smart Connect Feature assures leakage of liquids and/or gases from inside the system past the sealing element of an unpressed connection. The function of this feature is to provide the installer quick and easy identification of connections which have not been pressed prior to putting the system into operation.

RIDGID Pressing Tools			
Model	330C	330B	210B
Volts	120v	14.4v Battery	18v Battery
Amps	5.2A	27.2A	24A
Weight (w/out jaw)	9 lbs.	10 lbs.	6.4 lbs.

Tools

RIDGID offers three pressing tools for connecting ProPress fittings.

- 330-C Corded Tool (1/2" to 4")
- 330-B Battery powered Tool (1/2" to 4")
- 210-B Battery powered Tool (1/2" to 1-1/4")
- 1/2" to 4" fittings are pressed in 4-7 sec.

History

ProPress has been used in Europe since the late 1980s and in the U.S. since the late 1990s for a variety of applications. Backed by two plumbing leaders with over 175 years of combined excellence.

Warranty

Viega ProPress products carry a 50-year warranty against defects in material and workmanship. The RIDGID Lifetime Warranty applies to tools, jaws and crimp rings from Ridge Tool Company.

Approvals and Certificates

NSF International

www.nsf.org/business/search_listings/index.asp#mname (enter "Viega")

IAPMO

<http://pld.iapmo.org/> (enter "Viega")

UL

<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/gfilebr.html> (enter "ex6157")

ABS

(American Bureau of Shipping)
<http://www.eagle.org/typeapproval/contents.html> (enter "Viega")

CSA International

<http://www.csa-international.org/product/> (enter "Viega")

FM

INTERNATIONAL APPROVALS

- Deutsch Verein des Gas-und Wasserfachese.V. (DVGW)
- Lloyd's Register (LLOYD'S)
- Det Norske Veritas (DNV)
- Registro Italiano Navale (RINA)
- Bureau Veritas (BV)
- KIWA

Compliant with

- ICC International Plumbing Code
- UPC Uniform Plumbing Code
- PHCC National standard plumbing code
- Florida Building Code, Volume I/Plumbing Code
- NFPA 13,13D, and 13R

Contact your local Viega or RIDGID representative for details on local approvals

For more information on RIDGID products contact:

Ridge Tool Company
400 Clark Street, Elyria, Ohio 44036
Demos, Literature: 800-769-7743
Technical inquiries: 800-519-3456
Availability: 888-743-4333
Web: www.ridgid.com

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ProPress® Warranty

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VIEGA LLC LIMITED WARRANTY PROPRESS FITTINGS AND VALVES

Subject to the conditions and limitations in this Limited Warranty, Viega LLC (VIEGA) warrants to wholesalers and licensed plumbing and mechanical contractors in the United States and Canada that its PROPRESS fittings, when properly installed in non industrial and non marine applications and under normal conditions of use, will be free of failure from manufacturing defect for a period of fifty (50) years from date of installation and that its PROPRESS valves, when properly installed in non industrial and non marine applications and under normal conditions of use, will be free of failure from manufacturing defect for a period of two (2) years from date of installation.

Under this Limited Warranty you only have a right to a remedy if the failure or leak resulted from a manufacturing defect in the products covered by this warranty and the failure or leak occurred during the warranty period. You do not have a remedy under this warranty and the warranty does not apply if the failure or any resulting damage is caused by (1) components other than those manufactured or sold by Viega; (2) not designing, installing, inspecting, or testing the ProPress fittings or valves in accordance with Viega's installation instructions in effect at the time of the installation; applicable code requirements; and accepted industry practice; (3) improper handling and protection of the product prior to and during installation, inadequate freeze protection, exposure to water pressures or temperatures or in applications outside acceptable operating conditions; (4) acts of nature such as, but not limited to, earthquakes, fire, flood, or lightning, or (5) external environmental causes, such as water quality variations, aggressive water, or other external chemical or physical conditions.

In the event of a leak or other failure of the parts covered by this warranty, it is the responsibility of the property owner to obtain and pay for repairs. Only if the warranty applies will Viega be responsible for the remedy under this warranty. The part or parts which you claim failed should be kept and Viega contacted by writing to the address below or telephoning 1-877-843-4262 within thirty (30) days after the leak or other failure and identifying yourself as having a warranty claim. You should be prepared to ship, at your expense, the product which you failed due to a manufacturing defect and document the date of installation. Within a reasonable time after receiving the product, Viega will investigate the reasons for the failure, which includes the right to inspect the product at Viega. Viega will notify you in writing of the results of its review.

In the event that Viega determines that the failure or leak was the result of a manufacturing defect in the part covered by this warranty and that this warranty applies, the EXCLUSIVE AND ONLY REMEDY under this warranty shall be the reimbursement for repair and/or replacement of the part. VIEGA SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OF OTHER DAMAGE (FOR EXAMPLE, WATER OR PROPERTY OR MOLD REMEDIATION) UNDER ANY LEGAL THEORY AND WHETHER ASSERTED BY DIRECT ACTION, FOR CONTRIBUTION OR INDEMNITY OR OTHERWISE.

THE ABOVE WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. If a limited warranty shall be found to apply, such warranty is limited to four years. Other than this Limited Warranty, Viega does not authorize any person or firm to create for it any other obligation or liability in connection with its products.

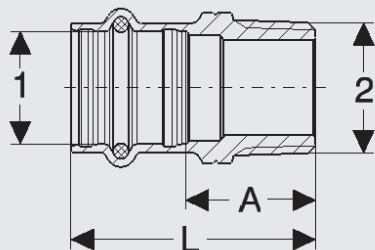
This Limited Warranty gives you specific legal rights and you also may have other rights which may vary from state to state. This warranty shall be interpreted and applied under the law of the state in which the product is installed and is intended as a Commercial Warranty.

ProPress Warranty 0408

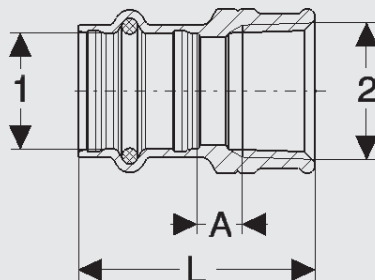
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Dimensional Documentation



Adapter P x M NPT Model 2911ZL				
Stock Code	Size	Material	A (in)	L (in)
	1 2			
79210	1/2" x 3/8" NPT	Bronze	0.768	1.594
79215	1/2" x 1/2" NPT	Bronze	1.024	1.929
79220	1/2" x 3/4" NPT	Bronze	1.004	1.831
79225	3/4" x 1/2" NPT	Bronze	1.024	1.929
79230	3/4" x 3/4" NPT	Bronze	0.886	1.713
79235	3/4" x 1" NPT	Bronze	1.181	2.087
79240	1" x 3/4" NPT	Bronze	1.181	2.087
79245	1" x 1" NPT	Bronze	1.260	2.165
79250	1" x 1-1/4" NPT	Bronze	1.535	2.441
79255	1-1/4" x 1" NPT	Bronze	1.220	2.244
79260	1 1/4" x 1-1/4" NPT	Bronze	1.339	2.362
79265	1-1/4" x 1-1/2" NPT	Bronze	1.476	2.500
79270	1-1/2" x 1-1/4" NPT	Bronze	1.339	2.756
79275	1 1/2" x 1-1/2" NPT	Bronze	1.339	2.756
79280	1-1/2" x 2" NPT	Bronze	1.654	3.071
79285	2" x 1-1/2" NPT	Bronze	1.535	3.110
79290	2" x 2" NPT	Bronze	1.496	3.071



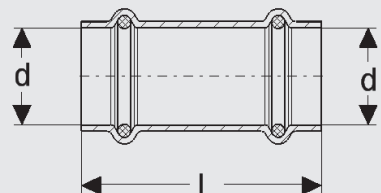
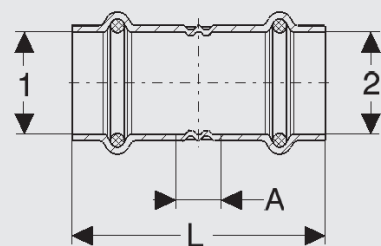
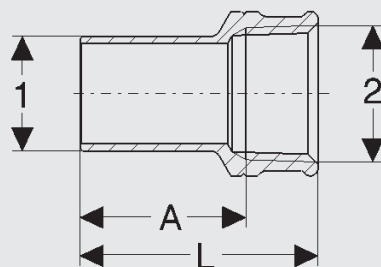
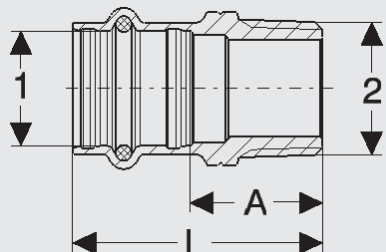
Adapter P x F NPT Model 2912ZL				
Stock Code	Size	Material	A (in)	L (in)
	1 2			
79295	1/2" x 3/8" NPT	Bronze	0.185	1.417
79300	1/2" x 1/2" NPT	Bronze	0.252	1.614
79315	3/4" x 3/4" NPT	Bronze	0.350	1.811
79310	3/4" x 1/2" NPT	Bronze	0.331	1.772
79320	1" x 1/2" NPT	Bronze	0.331	1.772
79325	1" x 3/4" NPT	Bronze	0.390	1.850
79330	1" x 1" NPT	Bronze	0.441	2.008
79335	1" x 1-1/4" NPT	Bronze	0.500	2.087
79345	1-1/4" x 1" NPT	Bronze	0.244	1.929
79350	1 1/4" x 1-1/4" NPT	Bronze	0.343	2.047
79340	1-1/4" x 1/2" NPT	Bronze	0.370	1.929
79360	1-1/2" x 1-1/4" NPT	Bronze	0.264	2.362
79365	1 1/2" x 1-1/2" NPT	Bronze	0.343	2.441
79370	2" x 2" NPT	Bronze	0.406	2.677
79365	1-1/2" x 1-1/2" NPT	Bronze	0.382	2.480
79370	2" x 2" NPT	Bronze	0.445	2.717

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Dimensional Documentation



Adapter FTG x M NPT Model 2911.1ZL			
Stock Code	Size	Material	L (in)
	1 2		
79375	1/2" x 3/8" NPT	Bronze	1.752
79380	1/2" x 1/2" NPT	Bronze	1.949
79385	1/2" x 3/4" NPT	Bronze	2.047
79390	3/4" x 1/2" NPT	Bronze	1.929
79395	3/4" x 3/4" NPT	Bronze	2.047
79400	1" x 3/4" NPT	Bronze	2.047
79405	1" x 1" NPT	Bronze	2.224
79410	1-1/4" x 1-1/4" NPT	Bronze	2.539
79415	1-1/2" x 1-1/2" NPT	Bronze	2.894
79420	2" x 2" NPT	Bronze	3.189

Adapter FTG x F NPT Model 2912.1ZL				
Stock Code	Size	Material	A (in)	L (in)
	1 2			
79425	1/2" x 3/8" NPT	Bronze	1.130	1.535
79430	1/2" x 1/2" NPT	Bronze	1.217	1.752
79435	1/2" x 3/4" NPT	Bronze	1.276	1.831
79440	3/4" x 1/2" NPT	Bronze	1.256	1.791
79445	3/4" x 3/4" NPT	Bronze	1.276	1.831
79455	1" x 1/2" NPT	Bronze	1.453	1.988
79450	1" x 1" NPT	Bronze	1.327	1.988
79460	1-1/4" x 1/2" NPT	Bronze	1.650	2.185
79465	1-1/4" x 1-1/4" NPT	Bronze	1.504	2.185
79470	1-1/2" x 1-1/2" NPT	Bronze	1.878	2.559
79475	2" x 2" NPT	Bronze	2.118	2.815

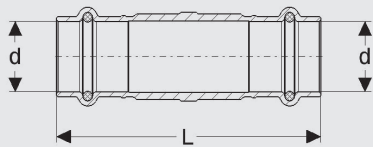
Coupling P x P with Stop Model 2915				
Stock Code	Size	Material	A (in)	L (in)
	1 2			
78047	1/2"	Copper	0.236	1.732
78052	3/4"	Copper	0.394	2.205
78057	1"	Copper	0.394	2.205
78062	1-1/14"	Copper	0.374	2.441
78067	1-1/2"	Copper	0.453	3.307
78072	2"	Copper	0.453	3.622

Coupling P x P No Stop Model 2915.3			
Stock Code	Size	Material	L (in)
	d		
78172	1/2"	Copper	1.732
78177	3/4"	Copper	2.205
78182	1"	Copper	2.205
78187	1-1/4"	Copper	2.441
78192	1-1/2"	Copper	3.307
78197	2"	Copper	3.622

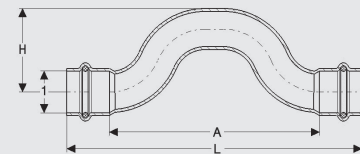
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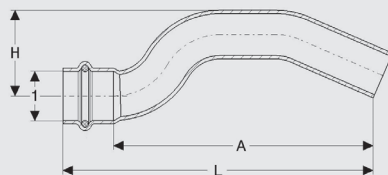
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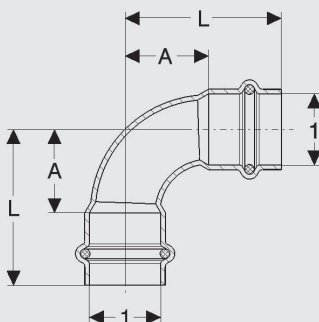
Coupling P x P Extended No Stop Model 2915.5			
Stock Code	Size	Material	L (in)
	d		
78213	1/2"	Copper	2.953
78218	3/4"	Copper	3.346
78223	1"	Copper	3.740
78228	1-1/4"	Copper	4.134
78233	1-1/2"	Copper	4.724
78238	2"	Copper	5.315



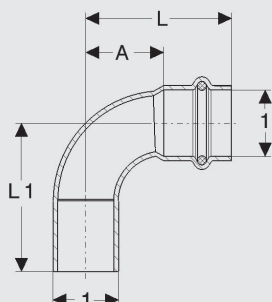
Cross-Over P x P Model 2928					
Stock Code	Size	Material	A (in)	L (in)	H (in)
	1				
77742	1/2"	Copper	3.622	5.118	1.394
77747	3/4"	Copper	4.488	6.299	1.776



Cross-Over FTG x P Close Rough Model 2927					
Stock Code	Size	Material	A (in)	L (in)	H (in)
	1				
78137	1/2"	Copper	3.835	4.583	1.098
78142	3/4"	Copper	4.638	5.543	1.539



Elbow 90° P x P Close Rough Model 2916				
Stock Code	Size	Material	A (in)	L (in)
	1			
77322	1/2"	Copper	0.748	1.496
77327	3/4"	Copper	1.039	1.945
77332	1"	Copper	1.323	2.228
77362	1-1/4"	Copper	1.646	2.677
77367	1-1/2"	Copper	1.976	3.402
77372	2"	Copper	2.543	4.126

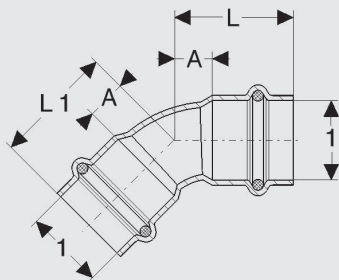


Elbow 90° FTG x P Close Rough Model 2916.1					
Stock Code	Size	Material	A (in)	L (in)	L1 (in)
	1				
77347	1/2"	Copper	0.748	1.496	1.535
77352	3/4"	Copper	1.039	1.945	1.984
77357	1"	Copper	1.323	2.228	2.268
77362	1-1/4"	Copper	1.646	2.677	2.756
77367	1-1/2"	Copper	1.976	3.402	3.480
77372	2"	Copper	2.543	4.126	4.205

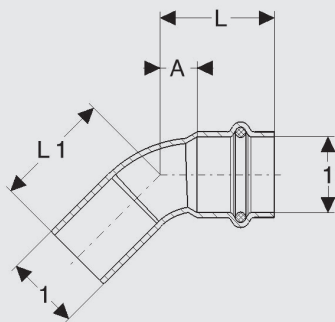
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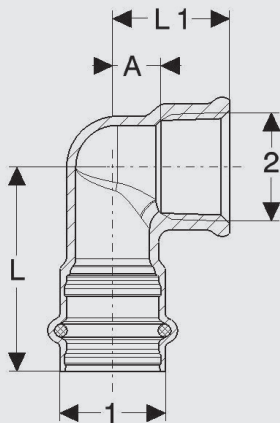
Dimensional Documentation



Elbow 45° P x P Model 2926					
Stock Code	Size	Material	A (in)	L (in)	L1 (in)
	1				
77607	1/2"	Copper	0.295	1.043	1.043
77612	3/4"	Copper	0.433	1.339	1.339
77617	1"	Copper	0.551	1.457	1.457
77622	1-1/4"	Copper	0.677	1.709	1.709
77627	1-1/2"	Copper	0.815	2.240	2.240
77632	2"	Copper	0.815	2.634	2.634



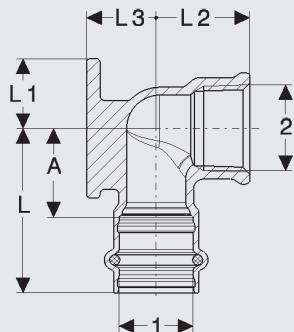
Elbow 45° FTG x P Model 2926.1					
Stock Code	Size	Material	A (in)	L (in)	L1 (in)
	1				
77637	1/2"	Bronze	0.311	1.059	1.098
77642	3/4"	Bronze	0.433	1.339	1.374
77647	1"	Bronze	0.551	1.457	1.492
77652	1-1/4"	Bronze	0.677	1.709	1.787
77657	1-1/2"	Bronze	0.815	2.240	2.319
77662	2"	Bronze	1.051	2.634	2.709



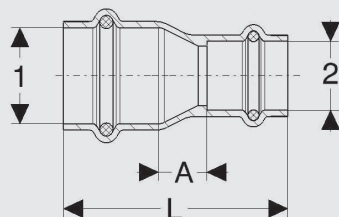
Elbow 90° P X F NPT Model 2914.2ZL					
Stock Code	Size	Material	A (in)	L (in)	L1 (in)
	1 2				
79520	1/2" x 3/8" NPT	Bronze	0.945	1.772	0.827
79525	1/2" x 1/2" NPT	Bronze	0.945	1.772	1.102
79530	1/2" x 3/4" NPT	Bronze	1.063	1.890	1.063
79535	3/4" x 1/2" NPT	Bronze	1.063	1.969	1.181
79540	3/4" x 3/4" NPT	Bronze	1.063	1.969	1.122
79545	1" x 1/2" NPT	Bronze	1.063	1.969	1.260
79550	1" x 1" NPT	Bronze	1.339	2.244	1.417
79560	1-1/4" x 1-1/4" NPT	Bronze	1.535	2.559	1.575
79565	1-1/2" x 1-1/2" NPT	Bronze	1.693	3.110	1.732
79570	2" x 2"	Bronze	2.165	3.740	2.047



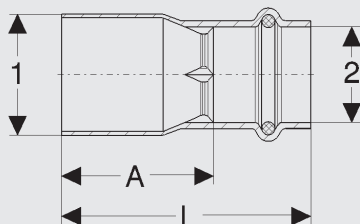
Dimensional Documentation



Elbow Drop 90° P x F NPT with Wall Plate Model 2925.5ZL							
Stock Code	Size	Material	A (in)	L (in)	L1 (in)	L2 (in)	L3 (in)
	1	2					
79185	1/2" x 3/8"	Bronze	0.945	1.768	0.736	0.827	0.669
79190	1/2" x 1/2"	Bronze	0.945	1.772	0.736	1.102	0.669
79195	3/4" x 3/4"	Bronze	1.063	1.969	0.835	1.122	0.835



Reducer P x P Model 2915.2				
Stock Code	Size	Material	A (in)	L (in)
	1	2		
78147	3/4" x 1/2"	Copper	0.417	2.071
15603	1" x 1/2"	Copper	0.709	2.362
78152	1" x 3/4"	Copper	0.476	2.287
15593	1-1/4" x 3/4"	Copper	0.701	2.638
78157	1-1/4" x 1"	Copper	0.547	2.484
18473	1-1/2" x 3/4"	Copper	0.984	3.327
15588	1-1/2" x 1"	Copper	0.740	3.071
78162	1-1/2" x 1-1/4"	Copper	0.500	2.961
18468	2" x 3/4"	Copper	1.535	4.016
15608	2" x 1"	Copper	1.291	3.780
22328	2" x 1-1/4"	Copper	0.807	3.425
78167	2" x 1-1/2"	Copper	0.736	3.748

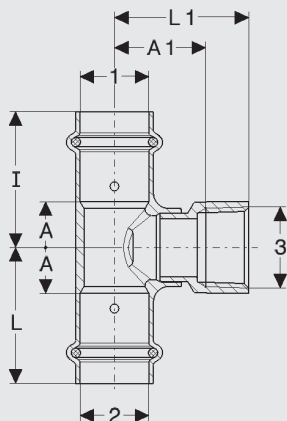


Reducer FTG x P Model 2915.1				
Stock Code	Size	Material	A (in)	L (in)
	1	2		
78077	3/4" x 1/2"	Copper	1.417	2.165
78082	1" x 1/2"	Copper	1.693	2.441
78087	1" x 3/4"	Copper	1.417	2.323
22333	1-1/4" x 1/2"	Copper	1.890	2.638
78092	1-1/4" x 3/4"	Copper	1.850	2.756
78097	1-1/4" x 1"	Copper	1.575	2.480
15573	1-1/2" x 1/2"	Copper	2.008	2.756
14543	1-1/2" x 3/4"	Copper	2.559	3.465
78102	1-1/2" x 1"	Copper	2.283	3.189
78107	1-1/2" x 1-1/4"	Copper	2.039	3.071
15578	2" x 1/2"	Copper	2.913	3.661
15583	2" x 3/4"	Copper	2.874	3.780
78112	2" x 1"	Copper	3.031	3.937
78117	2" x 1-1/4"	Copper	2.787	3.819
78122	2" x 1-1/2"	Copper	2.630	4.055

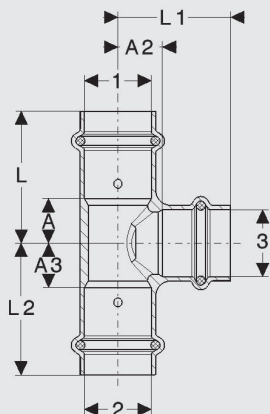
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Dimensional Documentation



Tee P x P x F NPT Model 2917.2ZL									
Stock Code	Size			Material	A (in)	A1(in)	L(in)	L1 (in)	I(in)
	1	2	3						
79580	1/2" x 1/2" x 1/2"			Bronze	0.945	0.803	1.693	1.339	1.693
79595	3/4" x 3/4" x 1/4"			Bronze	0.768	0.929	1.673	1.378	1.673
79590	3/4" x 3/4" x 1/2"			Bronze	1.004	1.138	1.909	1.673	1.909
79595	3/4" x 3/4" x 3/4"			Bronze	0.984	0.850	1.890	1.417	1.890
79760	1" x 1" x 1/2"			Bronze	1.004	1.236	1.909	1.772	1.909
79765	1" x 1" x 3/4"			Bronze	1.161	1.413	2.067	1.969	2.067
79770	1-1/4" x 1-1/4" x 1/2"			Bronze	0.886	1.394	1.909	1.929	1.909
79775	1-1/4" x 1-1/4" x 3/4"			Bronze	0.945	1.531	1.969	2.087	1.969
79780	1-1/2" x 1-1/2" x 1/2"			Bronze	0.748	1.433	2.165	1.969	2.165
79785	1-1/2" x 1-1/2" x 3/4"			Bronze	0.878	1.531	2.303	2.087	2.303
79795	2" x 2" x 3/4"			Bronze	1.083	1.543	2.657	2.362	2.657



Tee P x P x P Model 2918										
Stock Code	Size			Material	A (in)	A2 (in)	A3 (in)	L (in)	L1 (in)	L2 (in)
	1	2	3							
77377	1/2"			Copper	0.748	0.500	0.748	1.496	1.248	1.496
77382	1/2" x 1/2" x 3/4"			Copper	0.906	0.591	0.906	1.654	1.496	1.654
15493	1/2" x 1/2" x 1"			Copper	1.102	0.551	1.102	1.850	1.457	1.850
77387	3/4"			Copper	0.846	0.591	0.846	1.752	1.496	1.752
77392	3/4" x 1/2" x 1/2"			Copper	0.689	0.630	0.984	1.594	1.378	1.732
77397	3/4" x 1/2" x 3/4"			Copper	0.846	0.591	1.142	1.752	1.496	1.890
77402	3/4" x 3/4" x 1/2"			Copper	0.689	0.630	0.689	1.594	1.378	1.594
77407	3/4" x 3/4" x 1"			Copper	0.965	0.630	0.965	1.870	1.535	1.870
77412	1"			Copper	0.965	0.787	0.965	1.870	1.693	1.870
22263	1" x 1/2" x 3/4"			Copper	0.850	0.752	1.244	1.756	1.657	1.992
94767	1" x 1/2" x 1"			Copper	0.965	0.787	1.516	1.870	1.693	2.264
77617	1" x 3/4" x 1/2"			Copper	0.689	0.787	0.886	1.594	1.535	1.791
77422	1" x 3/4" x 3/4"			Copper	0.846	0.748	1.043	1.752	1.654	1.949
77427	1" x 3/4" x 1"			Copper	0.965	0.780	1.181	1.870	1.685	2.067
77432	1" x 1" x 1/2"			Copper	0.689	0.787	0.689	1.594	1.535	1.594
77437	1" x 1" x 3/4"			Copper	0.846	0.748	0.846	1.752	1.654	1.752
15488	1" x 1" x 1-1/4"			Copper	1.161	0.835	1.161	2.067	1.870	2.067
77442	1-1/4"			Copper	1.016	0.858	1.016	2.047	1.890	2.047
22253	1-1/4" x 1/2" x 1-1/4"			Copper	1.024	0.866	1.772	2.047	1.890	2.520
22243	1-1/4" x 3/4" x 1/2"			Copper	0.642	0.929	1.126	1.677	1.677	2.031
22258	1-1/4" x 3/4" x 3/4"			Copper	0.760	0.870	1.299	1.795	1.776	2.205
22268	1-1/4" x 3/4" x 1"			Copper	0.878	0.909	1.402	1.913	1.815	2.307
22248	1-1/4" x 3/4" x 1-1/4"			Copper	1.016	0.858	1.543	2.051	1.894	2.449
22238	1-1/4" x 1" x 1/2"			Copper	0.642	0.929	0.909	1.677	1.677	1.815
94762	1-1/4" x 1" x 3/4"			Copper	0.760	0.866	1.142	1.791	1.772	2.047
14568	1-1/4" x 1" x 1"			Copper	0.878	0.906	1.280	1.909	1.811	2.185
94757	1-1/4" x 1-1/4" x 1/2"			Copper	0.650	0.925	0.650	1.673	1.673	1.673
77452	1-1/4" x 1-1/4" x 3/4"			Copper	0.768	0.866	0.768	1.791	1.772	1.791
77447	1-1/4" x 1-1/4" x 1"			Copper	0.878	0.902	0.878	1.909	1.807	1.909
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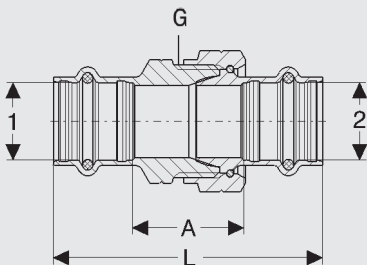
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Dimensional Documentation

Tee P x P x P Model 2918 (continued from previous page)

Stock Code	Size	Material	A (in)	A2 (in)	A3 (in)	L (in)	L1 (in)	L2 (in)
	1 2 3							
77457	1-1/2"	Copper	1.134	1.134	1.134	2.559	2.559	2.559
15478	1-1/2" x 3/4" x 3/4"	Copper	1.283	1.299	0.890	2.205	2.205	2.323
15473	1-1/2" x 1/2" x 1-1/2"	Copper	1.417	1.240	1.240	2.165	2.657	2.657
15468	1-1/2" x 1" x 3/4"	Copper	1.386	1.146	0.665	2.291	2.051	2.091
15458	1-1/2" x 1" x 1"	Copper	0.740	1.063	1.535	2.165	1.969	2.441
15463	1-1/2" x 1" x 1-1/2"	Copper	1.134	1.134	1.831	2.559	2.559	2.736
22233	1-1/2"1-1/4" x 3/4"	Copper	0.665	1.146	1.075	2.091	2.051	2.110
15453	1-1/2" x 1-1/4" x 1"	Copper	0.740	1.181	1.291	2.165	2.087	2.323
15483	1-1/2" x 1-1/4" x 1-1/4"	Copper	0.858	1.134	1.331	2.283	2.165	2.362
15448	1-1/2" x 1-1/2" x 1/2"	Copper	0.465	1.102	0.465	1.890	1.850	1.890
77462	1-1/2" x 1-1/2" x 3/4"	Copper	0.661	1.142	0.661	2.087	2.047	2.087
77472	1-1/2" x 1-1/2" x 1"	Copper	0.740	1.181	0.740	2.165	2.087	2.165
77477	1-1/2" x 1-1/2" x 1-1/4"	Copper	0.858	1.130	0.858	2.283	2.165	2.283
15533	2"	Copper	1.370	1.370	1.370	2.953	2.953	2.953
15523	2" x 1/2" x 2"	Copper	1.378	1.378	1.890	2.953	2.953	3.327
15528	2" x 1" x 1"	Copper	0.906	1.299	0.906	2.492	2.283	2.492
15518	2" x 1" x 2"	Copper	2.244	1.772	1.772	3.150	3.346	3.346
15498	2" x 1-1/4" x 1-1/4"	Copper	0.937	1.331	1.843	2.520	2.362	2.874
15513	2" x 1-1/2" x 1"	Copper	0.819	1.378	1.449	2.402	2.283	2.874
15508	2" x 1-1/2" x 3/4"	Copper	0.701	1.378	1.252	2.283	2.283	2.677
15503	2" x 1-1/2" x 1-1/4"	Copper	0.937	1.488	1.547	2.520	2.520	2.972
22228	2" x 1-1/2" x 1-1/2"	Copper	1.134	1.370	1.646	2.717	2.795	3.071
15538	2" x 1-1/2" x 2"	Copper	1.378	1.378	1.890	2.953	2.953	3.327
94777	2" x 2" x 1/2"	Copper	0.543	1.299	0.543	2.126	2.047	2.126
94772	2" x 2" x 3/4"	Copper	0.787	1.260	0.787	2.374	2.165	2.374
77487	2" x 2" x 1"	Copper	0.906	1.299	0.906	2.492	2.283	2.492
77482	2" x 2" x 1-1/4"	Copper	1.035	1.370	1.035	2.618	2.402	2.618



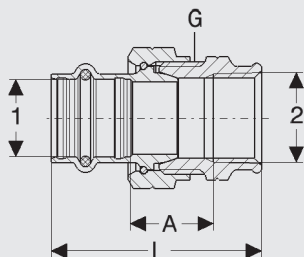
Union P x P Model 2960ZL

Stock Code	Size	Material	A (in)	L (in)	G (in)
	1 2				
79125	1/2"	Bronze	1.264	2.917	3/4"
79130	3/4"	Bronze	1.339	3.150	1"
79135	1"	Bronze	1.827	3.638	1-1/4"
79140	1-1/4"	Bronze	1.634	3.681	1-1/2"
79145	1-1/2"	Bronze	2.126	4.961	2"
79150	2"	Bronze	2.067	5.217	2-1/2"

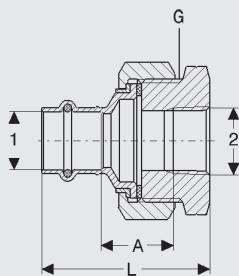
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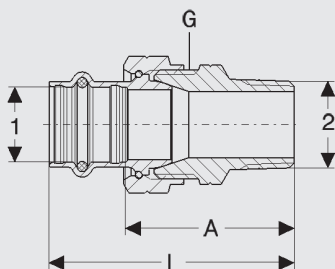
Dimensional Documentation



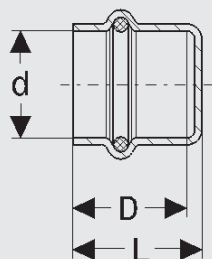
Union P x F NPT Model 2962ZL					
Stock Code	Size	Material	A (in)	L (in)	G (in)
	1 2				
79700	1/2"	Bronze	0.984	2.346	3/4"
79705	3/4"	Bronze	0.957	2.417	1"
79710	1"	Bronze	1.303	2.870	1-1/4"
79715	1-1/4"	Bronze	1.268	2.972	1-1/2"
79720	1-1/2"	Bronze	1.760	3.858	2"
79725	2"	Bronze	1.646	3.917	2-1/2"



Di-electric Union P x F NPT Model 2967ZL					
Stock Code	Size	Material	A (in)	L (in)	G (in)
	1 2				
79155	1/2"	Bronze	0.882	2.244	1-1/4"
79160	3/4"	Bronze	1.110	2.571	1-1/2"
79165	1"	Bronze	1.004	2.571	1-1/2"
79170	1-1/4"	Bronze	0.972	2.677	2"
79175	1-1/2"	Bronze	1.012	3.110	2-1/4"
79180	2"	Bronze	1.260	3.531	2-3/4"



Di-electric Union P x M NPT Model 2965ZL					
Stock Code	Size	Material	A (in)	L (in)	G (in)
	1 2				
79730	1/2"	Bronze	1.937	2.764	3/4"
79735	3/4"	Bronze	1.996	2.902	1"
79740	1"	Bronze	2.539	3.445	1-1/4"
79745	1-1/4"	Bronze	2.492	3.516	1-1/2"
79750	1-1/2"	Bronze	3.051	4.469	2"
79755	2"	Bronze	2.992	4.567	2-1/2"



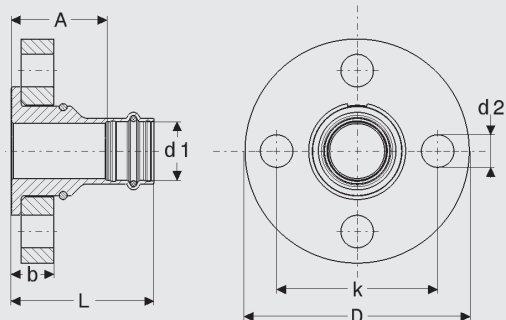
Cap P Model 2956				
Stock Code	Size	Material	L (in)	D (in)
	d			
77712	1/2"	Copper	0.917	0.787
77717	3/4"	Copper	1.067	0.941
77722	1"	Copper	1.110	0.992
77727	1-1/4"	Copper	1.319	1.201
77732	1-1/2"	Copper	1.622	1.492
77737	2"	Copper	1.811	1.685

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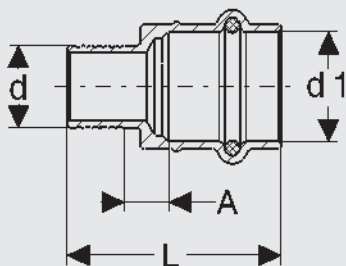


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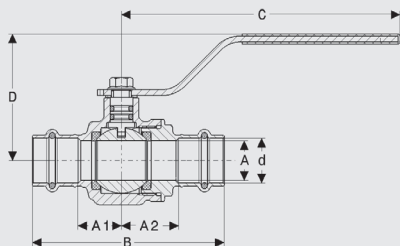
Adapter Flange P x Flange Model 2959.5ZL

Stock Code	Size	Material	A (in)	b(in)	L(in)	k (in)	d2(in)	D(in)
	d1							
79680	1"	Bronze	1.850	0.827	2.756	3.110	0.630	4.331
79685	1-1/4"	Bronze	1.732	0.827	2.756	3.504	0.630	4.528
79690	1-1/2"	Bronze	1.654	0.827	3.071	3.858	0.630	4.921
79695	2"	Bronze	2.087	0.827	3.661	4.764	0.748	5.906



PureFlow/Propress Adapter PEX x P Model 2913

Stock Code	Size	Material	A (in)	L (in)
	d d1			
67620	1/2" x 1/2"	Copper	0.366	1.575
67626	1/2" x 3/4"	Copper	0.465	1.831
67627	5/8" x 1/2"	Copper	0.287	1.496
67628	5/8" x 3/4"	Copper	0.465	1.831
67630	3/4" x 1/2"	Copper	0.209	1.417
67460	3/4" x 3/4"	Copper	0.366	1.732
67660	1" x 1"	Copper	0.402	1.969



Propress Ball Valve - Metal Handle P x P Model 2970.1ZL

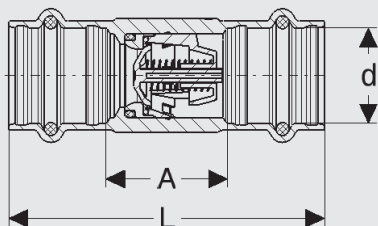
Stock Code	Size	Material	A (in)	A1 (in)	A2 (in)	B (in)	C (in)	D (in)
	d							
79095	1/2"	Bronze	0.551	0.787	0.945	3.386	5.551	2.441
79100	3/4"	Bronze	0.787	0.945	1.142	3.898	5.551	2.512
79105	1"	Bronze	0.984	1.063	1.421	4.295	5.551	2.657
79110	1-1/4"	Bronze	1.260	1.260	1.445	4.752	6.102	3.094
79115	1-1/2"	Bronze	1.575	1.496	1.386	5.717	6.102	3.343
79120	2"	Bronze	1.969	1.772	1.831	6.752	6.102	3.657

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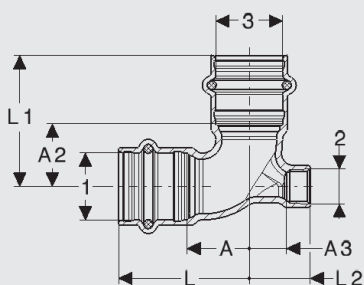
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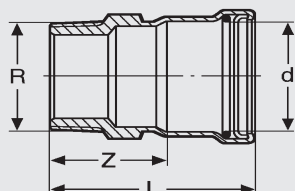


Bronze Check Valve P x P Model 2974ZL				
Stock Code	Size	Material	A (in)	L (in)
	d			
79035	1/2"	Bronze	0.866	2.520
79040	3/4"	Bronze	1.142	2.953
79045	1"	Bronze	1.339	3.150
79050	1-1/4"	Bronze	1.693	3.740
79055	1-1/2"	Bronze	2.087	4.921
79060	2"	Bronze	2.559	5.709

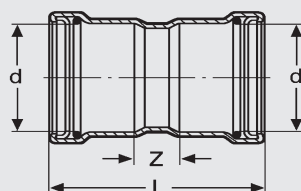


Vent Tee P x F x P Model 2917.3ZL								
Stock Code	Size			Material	A (in)	A2 (in)	A3 (in)	L (in)
	1	2	3					
79635	1/2"	1/8"	1/2"	Bronze	0.669	0.669	0.437	1.496
79640	3/4"	1/8"	1/2"	Bronze	0.827	0.827	0.535	1.732

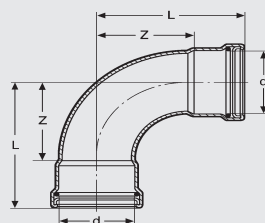
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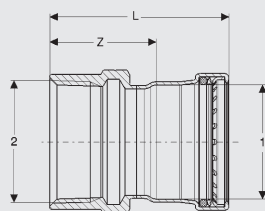
Adapter P x MNPT				
Stock Code	Material	Size	Z (in)	L (in)
		d R		
20823	Copper	2-1/2" x 2-1/2" NPT	2.520	4.213
20828	Copper	3" x 3" NPT	2.598	4.567
20838	Copper	4" x 4" NPT	2.736	5.098



Coupling P x P with Stop				
Stock Code	Material	Size	Z (in)	L (in)
		d		
20728	Copper	2-1/2"	0.945	4.331
20733	Copper	3"	0.984	4.921
20738	Copper	4"	1.063	5.787



Elbow 90° P x P				
Stock Code	Material	Size	Z (in)	L (in)
		d		
20623	Copper	2-1/2"	3.189	4.882
20628	Copper	3"	3.760	5.728
20633	Copper	4"	4.902	7.264

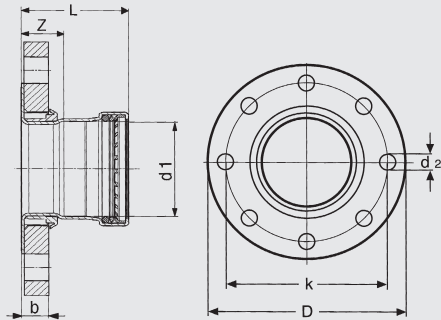


Adapter P x FNPT				
Stock Code	Material	Size	Z(in)	L(in)
		1 2		
20819	Copper	2½" x 2½" NPT	2.46	4.15
20829	Copper	3" x 3" NPT	2.60	4.57
20839	Copper	4" x 4" NPT	2.78	5.14

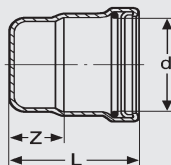
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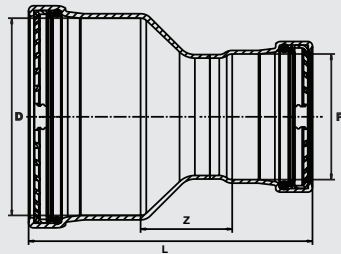
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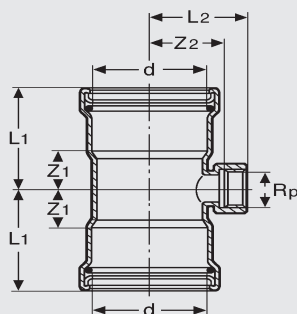
Adapter Flange P x Flange (new version)								
Stock Code	Material	Size	Z (in)	L (in)	b (in)	k (in)	D (in)	d2 (in)
		d1						
20853	Copper/Steel	2-1/2"	1.102	2.795	0.787	5.512	7.087	0.748
20858	Copper/Steel	3"	1.201	3.169	0.787	5.984	7.480	0.748
20863	Copper/Steel	4"	1.204	3.602	0.807	7.520	9.055	0.748



Cap P				
Stock Code	Material	Size	Z (in)	L (in)
		d		
20833	Copper	2-1/2"	1.339	3.031
20643	Copper	3"	1.358	3.327
20848	Copper	4"	1.398	3.760



XL-C Reducer P x P				
Stock Code	Material	Size	Z (in)	L (in)
		D R		
20685	Copper	2-1/2" x 1"	1.759	4.358
20690	Copper	2-1/2" x 1-1/4"	1.610	4.338
20695	Copper	2-1/2" x 1-1/2"	1.519	4.637
20700	Copper	2-1/2" x 2"	1.413	4.688
20705	Copper	3" x 1-1/2"	1.775	5.173
20710	Copper	3" x 2"	1.527	5.078
20715	Copper	3" x 2-1/2"	1.405	5.066
20720	Copper	4" x 2"	2.055	5.999
20725	Copper	4" x 2-1/2"	1.933	5.938
20730	Copper	4" x 3"	1.700	6.031

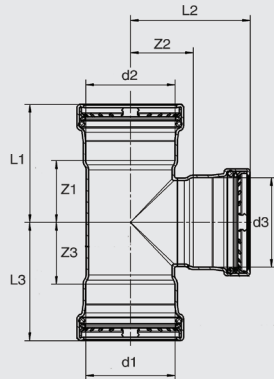


Tee P x P x FNPT						
Stock Code	Material	Size	Z1 (in)	Z2 (in)	L1 (in)	L2 (in)
		d d Rp				
20868	Copper	4" x 4" x 2"	1.594	2.598	3.957	3.287
20873	Copper	4" x 4" x 3/4"	0.965	2.461	3.327	3.071
20878	Copper	2-1/2" x 2-1/2" x 2"	1.535	1.831	3.228	2.520
22883	Copper	2-1/2" x 2-1/2" x 3/4"	0.906	1.693	2.598	2.303
22893	Copper	3" x 3" x 3/4"	0.925	1.949	2.894	2.559
20888	Copper	3" x 3" x 3"	1.555	1.984	3.523	2.854

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Dimensional Documentation

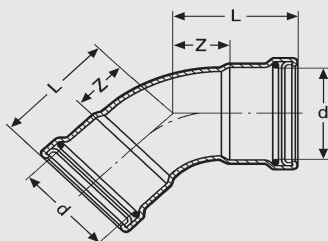


Tee P x P x P								
Stock Code	Material	Size	Z1 (in)	Z2 (in)	Z3 (in)	L1 (in)	L2 (in)	L3 (in)
		d1 d2 d3						
20704	Copper	2-1/2" x 2" x 3/4"	1.586	1.614	1.043	3.169	2.519	2.736
20709	Copper	2 1/2" x 2" x 1"	1.653	1.732	1.043	3.240	2.637	1.043
22283	Copper	2-1/2" x 2" x 1-1/2"	1.909	1.732	1.299	3.504	3.169	2.992
22278	Copper	2-1/2" x 2" x 2"	2.232	1.732	1.535	3.819	3.327	3.228
20714	Copper	2-1/2" x 2" x 2-1/2"	2.411	1.870	1.830	3.996	3.562	3.523
22298	Copper	2-1/2" x 2-1/2" x 3/4"	0.906	1.575	0.906	2.598	2.480	2.598
22303	Copper	2-1/2" x 2-1/2" x 1/2"	0.906	1.516	0.906	2.598	2.264	2.598
22293	Copper	2-1/2" x 2-1/2" x 1"	1.043	1.732	1.043	2.736	2.638	2.736
22288	Copper	2-1/2" x 2-1/2" x 1-1/4"	1.161	1.713	1.161	2.854	2.756	2.854
20803	Copper	2-1/2" x 2-1/2" x 1-1/2"	1.299	1.732	1.299	2.992	3.169	2.992
20688	Copper	2-1/2" x 2-1/2" x 2"	1.535	1.732	1.535	3.228	3.327	3.228
20683	Copper	2-1/2"	1.831	1.870	1.831	3.524	3.563	3.524
20694	Copper	2-1/2" x 1-1/4" x 2-1/2"	3.236	1.870	1.830	4.271	3.562	3.523
20689	Copper	2-1/2" x 1" x 2-1/2"	3.287	1.870	1.830	4.192	3.562	3.523
20684	Copper	2-1/2" x 3/4" x 2-1/2"	3.228	1.870	1.830	4.133	3.562	3.523
22323	Copper	3" x 3" x 3/4"	0.925	1.870	.925	2.894	2.776	2.894
22308	Copper	3" x 3" x 1"	1.063	1.988	1.063	3.031	2.894	3.031
22313	Copper	3" x 3" x 1-1/4"	1.181	1.969	1.181	3.150	3.012	3.150
20798	Copper	3" x 3" x 1-1/2"	1.299	1.988	1.299	3.287	3.425	3.287
20698	Copper	3" x 3" x 2"	1.555	1.988	1.555	3.524	3.583	3.524
20703	Copper	3" x 3" x 2-1/2"	1.850	2.126	1.850	3.819	3.819	3.819
20734	Copper	3" x 2" x 2-1/2"	2.629	2.125	1.850	4.212	3.818	3.818
20732	Copper	3" x 2" x 2"	2.334	1.999	1.555	3.917	3.582	3.523
20727	Copper	3" x 1-1/2" x 3"	3.751	2.145	2.066	5.177	4.114	4.035
20729	Copper	3" x 1-1/4" x 3"	3.870	2.145	2.066	4.901	4.114	4.035
20724	Copper	3" x 1" x 3"	3.996	2.145	2.066	3.996	4.114	4.035
20719	Copper	3" x 3/4" x 3"	3.818	2.145	2.066	4.724	4.114	4.035
20693	Copper	3"	2.067	2.146	2.067	4.035	4.114	4.035
20794	Copper	4" x 4" x 1"	1.358	2.499	1.358	3.720	3.405	3.720
20795	Copper	4" x 4" x 1-1/4"	1.358	2.490	1.358	3.720	3.523	3.720
20808	Copper	4" x 4" x 1-1/2"	1.358	2.500	1.358	3.720	3.937	3.720
20713	Copper	4" x 4" x 2"	1.594	2.500	1.594	3.957	4.094	3.957
20718	Copper	4" x 4" x 2-1/2"	1.890	2.638	1.890	4.252	4.331	4.252
20723	Copper	4" x 4" x 3"	2.106	2.657	2.106	4.469	4.626	4.469
20708	Copper	4"	2.598	2.697	2.598	4.961	5.059	4.961

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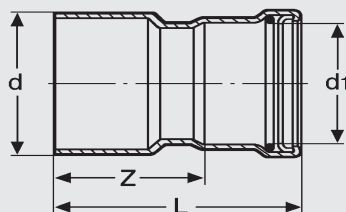
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Dimensional Documentation



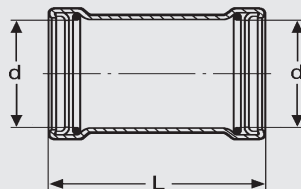
Elbow 45° P x P

Stock Code	Material	Size	Z (in)	L (in)
		d		
20653	Copper	2-1/2"	1.476	3.169
20658	Copper	3"	1.732	3.701
20663	Copper	4"	2.224	4.587



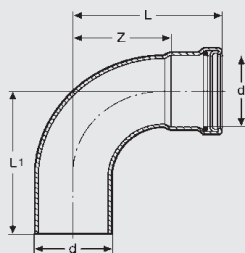
FTG x P Reducer

Stock Code	Material	Size	Z (in)	L (in)
		d d1		
20758	Copper	2-1/2" x 2"	2.264	3.858
20763	Copper	3" x 2"	2.815	4.409
20768	Copper	3" x 2-1/2"	2.559	4.252
20773	Copper	4" x 2"	4.232	5.807
20778	Copper	4" x 2-1/2"	4.173	5.787
20783	Copper	4" x 3"	3.957	5.846
20813	Copper	2-1/2" x 1-1/2"	2.480	3.937
20818	Copper	3" x 1-1/2"	3.346	4.803
20814	Copper	2-1/2" x 1"	3.610	4.515
20815	Copper	2-1/2" x 1-1/4"	3.464	4.488
20817	Copper	3" x 1-1/4"	3.976	4.999



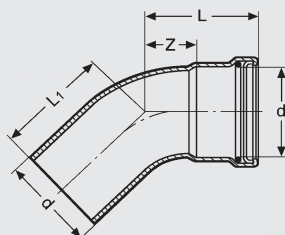
Coupling P x P No Stop

Stock Code	Material	Size	L (in)
		d	
20743	Copper	2-1/2"	4.331
20748	Copper	3"	4.921
20753	Copper	4"	5.787



FTG x P 90° Elbow

Stock Code	Material	Size	Z (in)	L (in)	L1 (in)
		d			
20638	Copper	2-1/2"	3.189	4.882	4.803
20643	Copper	3"	3.760	5.728	5.630
20548	Copper	4"	4.902	7.264	7.126



Elbow 45° FTG x P

Stock Code	Material	Size	Z (in)	L (in)	L1 (in)
		d			
20668	Copper	2-1/2"	1.476	3.169	3.091
20673	Copper	3"	1.732	3.701	3.602
20678	Copper	4"	2.224	4.587	4.449

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December 16, 2009

**VIEGA LLC.
301 NORTH MAIN STREET
SUITE 900 WICHITA, KS 67202
ATTN: MR. ANDREW GRANZOW**

File: 72320/72321/72322

Subject: Annex G Certification

Dear Mr. Granzow,

It is my pleasure to inform you that the potable water products identified under the following Authorized Registered Formulations (ARFs) DCC #'s: PM10121 (Lead Free Pureflow PEX Press Fittings – Continuous Cast) produced at your Grossheringen facility, PM10152 (Lead Free ProPress Bronze Fittings – Continuous Cast) produced at your Grossheringen facility, PM10241 (Lead Free ProPress Bronze Fittings – Sand Cast) produced at your Ennest facility, and PM10242 (Lead Free Pureflow PEX Press Fittings – Sand Cast; Forged) produced at your Ennest facility have successfully completed chemical extraction testing under the following job #'s:

- J-00080134 – this authorized PM10121 and PM10152
- J-00080135 – this authorized PM10241
- J-00080133 – this authorized PM10242

The above mentioned product lines will be placed into Official Listing by next week and they will also contain the following Annex G footnote:

[G] Product also Certified to NSF/ANSI Standard 61, Annex G (weighted average lead content of $\leq 0.25\%$) and is in compliance with California's Health & Safety Code Section 116875 (commonly known as AB1953) and Vermont Act 193.

If you should have any questions in the meantime, please do not hesitate to contact me directly.

Sincerely,

A handwritten signature in black ink, appearing to read "Suzan Somo".

Suzan Somo
Certification Project Manager
Plastic Piping System Components
Water Distribution Systems

Phone: 734/ 827- 5670
Fax: 734/ 827- 7893
E-mail: ssomo@nsf.org

P.O. Box 130140, Ann Arbor, MI 48113-0140 USA
734-769-8010 | 1-800-NSF-MARK | Fax : 734-769-0109
E-Mail : info@nsf.org | Web : <http://www.nsf.org>



TEST REPORT

Send To: 72320
VIEGA LLC.
THE EPIC CENTER
301 NORTH MAIN STREET
SUITE 900
WICHITA KS 67202-4809
Attn: MR. ANDREW GRANZOW

Customer: 72320
VIEGA LLC.
THE EPIC CENTER
301 NORTH MAIN STREET
SUITE 900
WICHITA KS 67202-4809
Attn: MR. ANDREW GRANZOW

Plant: 72321
VIEGA GMBH & CO. KG
AM MUHLBERG 4
GROSSHERINGEN 99518
GERMANY
Attn: MR. CHRISTIAN PRIESER

Product: Lead Free ProPress 1/2" x 1/2" C x FNPT Bronze Adapters (79300)
Trade Designation : Lead Free ProPress 1/2" x 1/2" C x FNPT Bronze Adapters (79300)
Test Type: QQ - Qualification Testing

Thank you for having your product tested by NSF.

The enclosed report details the result of the testing performed on your product. Your program representative will be contacting you in the near future if there are any remaining issues concerning the status of this product.

Please do not hesitate to contact us if you have any immediate questions pertaining to your product.

Reviewer: 
Mclellan, Clif - Director, Toxicology Services

Status: **Pass**

CC: Program: 0010 - Plumbing and Related Programs
Program Rep SUZAN SOMO
Region: 02 - Europe
PA Project: 9067861



TEST REPORT

Send To: 72320
VIEGA LLC.
THE EPIC CENTER
301 NORTH MAIN STREET
SUITE 900
WICHITA KS 67202-4809
Attn: MR. ANDREW GRANZOW

Customer: 72320
VIEGA LLC.
THE EPIC CENTER
301 NORTH MAIN STREET
SUITE 900
WICHITA KS 67202-4809
Attn: MR. ANDREW GRANZOW

Plant: 72322
VIEGA GMBH & CO. KG
PRODUCTION FACILITY ENNEST
ZUM LANGEN ACKER 7
ENNEST 57439
GERMANY
Attn: MR. THOMAS LERBS

Product: Bronze Elbow 90 Degree P x F NPT 1/2" x 1/2" _Sand Casting_Stock Code #
79525_Zero Lead

Trade Designation : Lead Free ProPress 1/2" x 1/2" 90° Elbow (P x F NPT) 79525 Sand Cast

Test Type: QQ - Qualification Testing

Thank you for having your product tested by NSF.

The enclosed report details the result of the testing performed on your product. Your program representative will be contacting you in the near future if there are any remaining issues concerning the status of this product.

Please do not hesitate to contact us if you have any immediate questions pertaining to your product.

Reviewer: 
McLellan, Clif - Director, Toxicology Services

Status: **Pass**

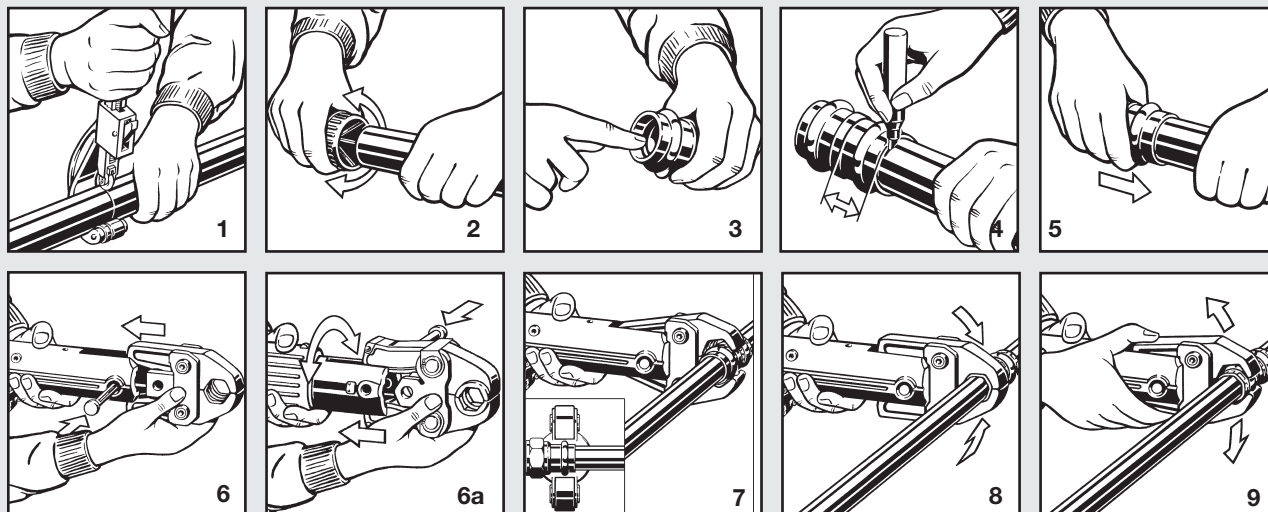
CC: Program: 0010 - Plumbing and Related Programs
Program Rep SUZAN SOMO
Region: 02 - Europe
PA Project: 9067861

Product Instructions

For Types K, L and M Hard Copper Tubing in 1/2" to 2" and Soft Copper Tubing in 1/2" to 1-1/4".
This Product Contains Zero Lead

⚠ WARNING

Read and understand all instructions for installing ProPress fittings. Failure to follow all instructions may result in extensive property damage, serious injury or death.



ProPress Insertion Depth Chart

Tube Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Insertion Depth	3/4"	7/8"	7/8"	1"	1-7/16"	1-9/16"

1. Cut copper tubing at right angles using displacement type cutter or fine-toothed steel saw.
2. Remove burr from inside and outside of tubing to prevent cutting sealing element.
3. Check seal for correct fit. Do not use oils or lubricants. Use only ProPress Shiny Black EPDM or Dull Black FKM Sealing Elements.
4. Mark proper insertion depth as indicated by the ProPress Insertion Depth Chart. Improper insertion depth may result in improper seal.
5. While turning slightly, slide press fitting onto tubing to the marked depth. **Note: End of tubing must contact stop.**
6. Insert appropriate Viegawall jaw into the pressing tool and push in holding pin until it locks in place.
7. Open the jaw and place at right angles on the fitting. Visually check insertion depth using mark on tubing.
8. Start pressing process and hold the trigger until the jaw has engaged the fitting.
9. After pressing, the jaw can be opened again.
10. For applications requiring ProPress with FKM sealing elements, remove the factory installed EPDM sealing element and replace with FKM sealing element.



Pressure Testing: Pressure testing is to be carried out in accordance with local codes. ProPress includes the Smart Connect (SC) Feature providing quick and easy identification of **unpressed** connections during the pressure testing process. **Unpressed connections are located by pressurizing the system with air or water. When testing with air the pressure range is 1/2 PSI to 85 PSI maximum. When testing with water the pressure range is 15 PSI to 85 PSI maximum.** The SC Feature is an integral part of the design of the fitting assuring leakage of liquids and/or gases from inside the system past the sealing element of an unpressed connection. The SC Feature is removed during the pressing process creating a leak-proof, permanent connection.

"Zero Lead" identifies Viega products meeting the lead free requirements of California and Vermont law, effective January 1, 2010, as tested and listed against NSF- 61, Annex G.

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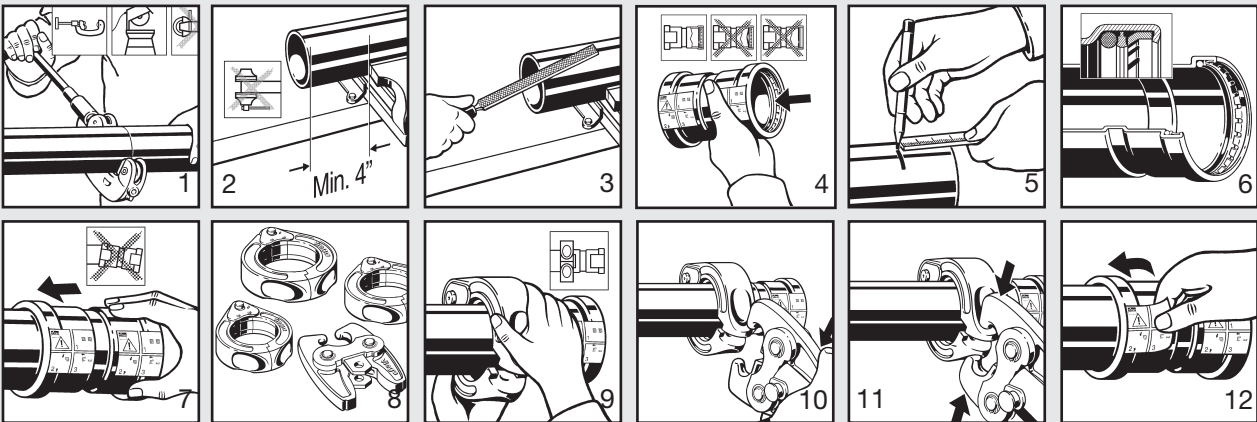
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Product Instructions

For Types K, L and M Hard Copper Tubing in 1/2" to 2" and Soft Copper Tubing in 1/2" to 1-1/4".
This Product Contains Zero Lead.

⚠ WARNING

Read, understand and follow all instructions for installing ProPress XL-C fittings. Failure to follow all instructions may result in extensive property damage, serious injury or death.



ProPress XL-C Insertion Depth Chart

Tube Size	2-1/2"	3"	4"
Insertion Depth	1-5/8"	1-7/8"	2-3/8"

1. Cut copper tubing at right angles using displacement type cutter or fine-toothed steel saw.
2. Keep end of tubing a minimum of 4" away from the contact area of the vise to prevent possible damage to the tubing in the press area.
3. Remove burr from inside and outside of tubing to prevent cutting sealing element.
4. Check seal and grip ring for correct fit. Do not use oils or lubricants. Use only ProPress Shiny Black EPDM sealing elements.
5. Mark proper insertion depth as indicated by the ProPress XL-C Insertion Depth Chart. Improper insertion depth may result in an improper seal.
6. Illustration demonstrates proper fit of grip ring, separation ring and sealing element.
7. While turning slightly, slide press fitting onto tubing to the marked depth. End of tubing must contact stop.
8. ProPress XL-C fitting connections must be performed with ProPress XL-C Rings and V2 ACTUATOR. Use of ProPress XL Rings and/or Actuator (for Bronze fittings) will result in an improper connection. See Ridgid Operator's Manual for proper tool instructions.
9. Open XL-C Ring and place at right angles on the fitting. XL-C Ring must be engaged on the fitting bead. Check insertion depth.
10. With V2 ACTUATOR inserted into the tool, open the V2 ACTUATOR as shown and connect V2 ACTUATOR to the XL-C Ring.
11. Place V2 ACTUATOR onto XL-C Ring and start pressing process. Hold the trigger until the Actuator has engaged the XL-C Ring. Keep extremities and foreign objects away from XL-C Ring and V2 ACTUATOR during pressing operation to prevent injury or incomplete press.
12. Release V2 ACTUATOR from XL-C Ring and then remove the XL-C Ring from the fitting on completion of press. Remove tag from fitting indicating press has been performed.

Pressure Testing: Pressure testing is to be carried out in accordance with local codes. ProPress XL-C includes the Smart Connect (SC) Feature providing quick and easy identification of **unpressed** connections during the pressure testing process. **Unpressed connections are located by pressurizing the system with air or water. When testing with air the pressure range is 1/2 PSI to 85 PSI maximum. When testing with water the pressure range is 15 PSI to 85 PSI maximum.** The SC Feature is an integral part of the design of the fitting assuring leakage of liquids and/or gases from inside the system past the sealing element of an unpressed connection. The SC Feature is removed during the pressing process creating a leak-proof, permanent connection.

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