

Submittal Package

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ProPress® System

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

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System Data Sheet

System Description

Viega ProPress and Viega ProPress XL (copper) are safe, reliable, and economical copper pipe installation systems that use modern cold press connection technology for a wide assortment of more than 600 fittings in dimensions ranging from ½" to 4". ProPress utilizes an EPDM sealing element to provide permanent leak-proof connections.

Tubing: K, L and M hard copper tubing from ½" to 4" and soft copper tubing in ½" to 1¼" diameters.

Applications

All tubing must comply with the ASTM B88 standard. Viega 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 to 250°F

Approved Applications

- Potable Water
- Hydronic Heating (w/ Glycol)
- Chilled Water
- Compressed Air (200 PSI max.)
- Non-medical Gases (140 PSI maximum)
- Fire Sprinkler (175 PSI maximum)
- Low Pressure Steam (15 PSI maximum)
- Vacuum (29.2" Mercury maximum @ 68°F)

System Benefits

- Fast and Easy to Use
- Flameless
- Permanent Connections
- Large Selection of Fittings from ½" to 4"
- Consistent Professional Appearance
- Less Equipment Required
- Environmentally Friendly Connection System
- Versatility of Fittings and Tools for Variety of Applications

Fittings

There are more than 600 Viega ProPress fittings including: Elbows, Couplings, Reducers, Tees, Reducing Tees, Threaded Adapters, Unions, Caps and Flanges. All threaded ½" - 2" fittings are bronze. Viega ProPress and Viega ProPress XL (copper) fittings conform to NSF 61 Annex G.

Smart Connect Feature

The Smart Connect feature is a special indentation in the inside surface of the fitting near the sealing element. This indentation assures identification of leakage of liquids and/or gases from inside the system past the sealing element of an unpressed

connection. The indentation is removed during the pressing process creating a leakfree, permanent connection. This feature provides quick and easy identification of connections which have not been pressed prior to putting the system into operation.

Tools

RIDGID offers pressing tools for connecting Viega ProPress fittings.

- RIDGID RP 200-B (½" to 1¼")
- RIDGID RP 210-B (½" to 1¼")
- RIDGID RP 330-B
- RIDGID RP 340-B
- RIDGID CT-400

History

Viega ProPress has been used in Europe since the late 1980s and in the U.S. since the late 1990s for a variety of applications.

Warranty

Viega ProPress products carry a 50-year warranty against defects in material and workmanship. ProPress valves carry a 2-year warranty against defects in material and workmanship.

Listings and Certificates

- NSF 61G
- IAPMO PS117
- UL 213
- FM Class 1920
- ICC-ES PMG 1037
- CSA MSE-13
- ABS
- CRN OA4541.5

International Listings and Certificates

- 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
- IAPMO Uniform Plumbing Code
- PHCC National Standard Plumbing Code
- Florida Building Code, Volume II Plumbing Code
- NFPA 13, 13D and 13R
- ASME B16.51
- U.S. Coast Guard

Contact your local Viega representative for details on local approvals

For more information on RIDGID products, contact:

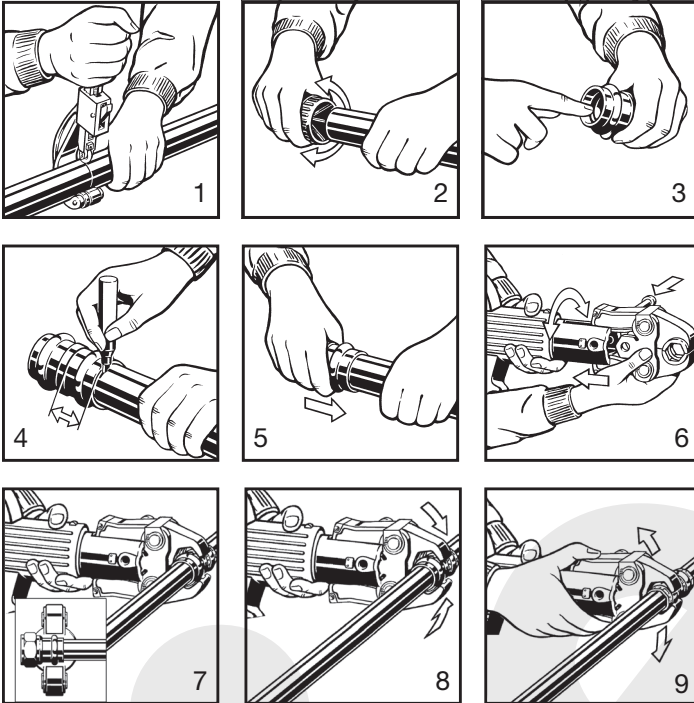
Ridge Tool Company
400 Clark Street, Elyria, Ohio 44036
Demos, Literature: 800-769-7743
Technical inquiries: 800-519-3456
Availability: 888-743-4333
Web: www.ridgid.com

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Viega ProPress®

For Types K, L and M Hard Copper Tubing in ½" to 2" and Soft Copper Tubing in ½" to 1¼"



Viega ProPress Insertion Depth Chart

Tube Size	½"	¾"	1"	1¼"	1½"	2"
Insertion Depth	¾"	7/8"	7/8"	1"	17/16"	19/16"

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

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 Viega ProPress Shiny Black EPDM or Dull Black FKM sealing elements.
Note: For applications requiring Viega ProPress with FKM sealing elements, remove the factory-installed EPDM sealing element and replace with FKM sealing element.
4. Mark proper insertion depth as indicated by the Viega 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 Viega 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.



Leak Testing with Smart Connect®:

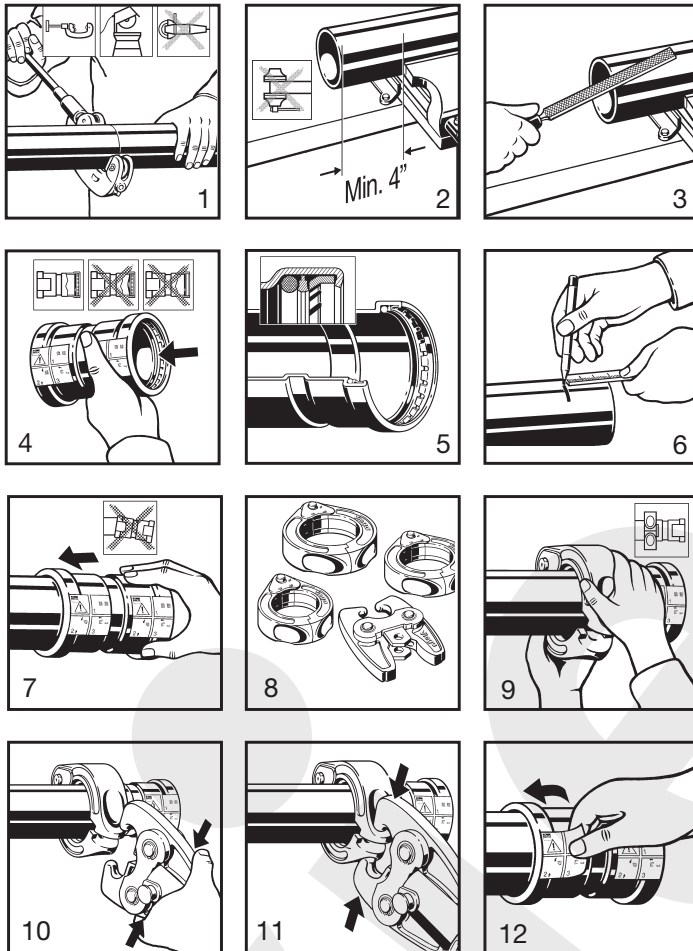
Unpressed connections are located by pressurizing the system with air or water. When testing with water the proper pressure range is 15 psi to 85 psi maximum. Leak testing with air can be dangerous at high pressures. When testing with compressed air the proper pressure range is ½ psi to 45 psi maximum. Following a successful leak test, the system may be pressure tested up to 200 psi with air, or up to 600 psi with water, if required by local code requirements or project specifications.

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Viega ProPress® XL (Copper)

For Types K, L and M Hard Copper Tubing in 2½" to 4"



ProPress XL (copper) Insertion Depth Chart

Tube Size	2½"	3"	4"
Insertion Depth	1⅝"	1⅞"	2⅜"

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

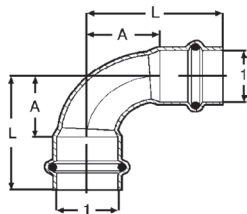
1. Cut copper tubing at right angles using displacement-type cutter or fine-toothed steel saw.
2. Keep end of tubing a minimum of 4" away from the contact area of the vise to prevent possible damage to the tubing in the press area.
3. Remove burr from inside and outside of tubing to prevent cutting sealing 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. Illustration demonstrates proper fit of grip ring, separation ring and sealing element.
6. Mark proper insertion depth as indicated by the ProPress XL (copper) Insertion Depth Chart. Improper insertion depth may result in an improper seal.
7. While turning slightly, slide press fitting onto tubing to the marked depth. End of tubing must contact stop.
8. ProPress XL (copper) 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.

Leak Testing with Smart Connect®: Unpressed connections are located by pressurizing the system with air or water. When testing with water the proper pressure range is 15 psi to 85 psi maximum. Leak testing with air can be dangerous at high pressures. When testing with compressed air the proper pressure range is ½ psi to 45 psi maximum. Following a successful leak test, the system may be pressure tested up to 200 psi with air, or up to 600 psi with water, if required by local code requirements or project specifications.

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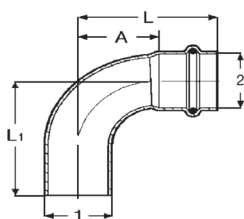
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ProPress® Dimensional Documentation



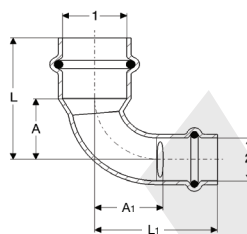
Viega ProPress 90° Elbow Copper P x P - Model 2916

Part No.	Size	A (in)	L (in)
	1		
77317	½"	0.75	1.50
77322	¾"	1.04	1.94
77327	1"	1.32	2.23
77332	1¼"	1.65	2.68
77337	1½"	1.98	3.40
77342	2"	2.54	4.13



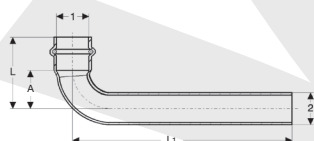
Viega ProPress 90° Street Elbow Copper P x FTG - Model 2916.1

Part No.	Size	A (in)	L (in)	L1 (in)
	1 2			
77347	½" x ½"	0.75	1.50	1.54
77352	¾" x ¾"	1.04	1.94	1.98
77357	1" x 1"	1.32	2.23	2.27
77362	1¼" x 1¼"	1.65	2.68	2.76
77367	1½" x 1½"	1.98	3.40	3.48
77372	2" x 2"	2.54	4.13	4.21



Viega ProPress 90° Reducing Elbow Copper P x P - Model 2916.3

Part No.	Size	A (in)	A1 (in)	L (in)	L1 (in)
	1 2				
77325	¾" x ½"	0.91	0.95	1.81	1.69
77330	1" x ¾"	1.21	1.30	2.11	2.21

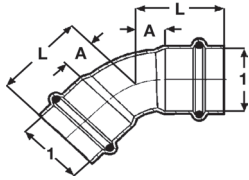


Viega ProPress 90° Extended Street Elbow Copper P x FTG - Model 2947

Part No.	Size	A (in)	L (in)	L1 (in)
	1 2			
77353	¾" x ¾"	1.02	1.93	5.98

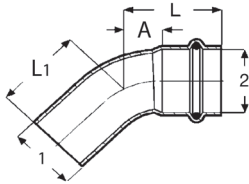
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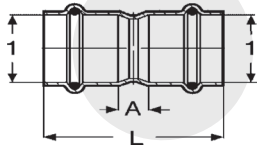
Viega ProPress 45° Elbow Copper P x P - Model 2926

Part No.	Size	A (in)	L (in)
	1		
77607	1/2"	0.30	1.04
77612	3/4"	0.43	1.34
77617	1"	0.55	1.46
77622	1 1/4"	0.68	1.71
77627	1 1/2"	0.82	2.24
77632	2"	1.05	2.63



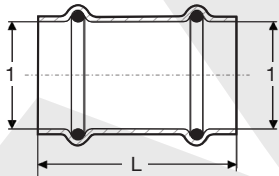
Viega ProPress 45° Street Elbow Copper P x FTG - Model 2926.1

Part No.	Size	A (in)	L (in)	L1 (in)
	1 2			
77637	1/2" x 1/2"	0.31	1.06	1.10
77642	3/4" x 3/4"	0.43	1.34	1.37
77647	1" x 1"	0.55	1.46	1.49
77652	1 1/4" x 1 1/4"	0.68	1.71	1.79
77657	1 1/2" x 1 1/2"	0.82	2.24	2.32
77662	2" x 2"	1.05	2.63	2.71



Viega ProPress Coupling with Stop Copper P x P - Model 2915

Part No.	Size	A (in)	L (in)
	1		
78047	1/2"	0.12	1.61
78052	3/4"	0.20	2.01
78057	1"	0.16	1.97
78062	1 1/4"	0.14	2.21
78067	1 1/2"	0.14	2.99
78072	2"	0.14	3.31

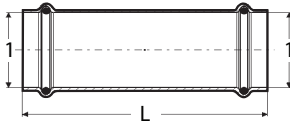


Viega ProPress Coupling No Stop Copper P x P - Model 2915.3

Part No.	Size	L (in)
	1	
78172	1/2"	1.61
78177	3/4"	2.01
78182	1"	1.97
78187	1 1/4"	2.21
78192	1 1/2"	2.99
78197	2"	3.31

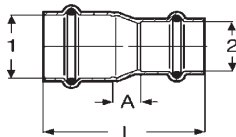
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Viega ProPress Extended Coupling Copper P x P - Model 2915.5

Part No.	Size	L (in)
	1	
79005	1/2"	2.99
79010	3/4"	3.50
79015	1"	3.74
79020	1 1/4"	4.13
79025	1 1/2"	4.72
79030	2"	5.32

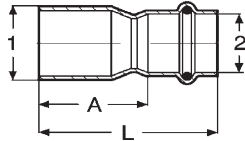


Viega ProPress Reducer Copper P x P - Model 2915.2

Part No.	Size	A (in)	L (in)
	1 2		
78147	3/4" x 1/2"	0.42	2.07
15603	1" x 1/2"	0.71	2.36
78152	1" x 3/4"	0.48	2.29
15593	1 1/4" x 3/4"	0.70	2.64
78157	1 1/4" x 1"	0.55	2.48
18473	1 1/2" x 3/4"	0.98	3.33
15588	1 1/2" x 1"	0.74	3.07
78162	1 1/2" x 1 1/4"	0.50	2.96
18468	2" x 3/4"	1.54	4.02
15608	2" x 1"	1.29	3.78
22328	2" x 1 1/4"	0.81	3.43
78167	2" x 1 1/2"	0.74	3.75

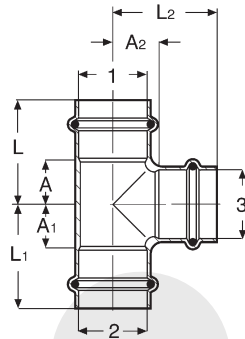
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Viega ProPress Reducer Copper FTG x P - Model 2915.1

Part No.	Size	A (in)	L (in)
	1 2		
78077	3/4" x 1/2"	1.42	2.17
78082	1" x 1/2"	1.69	2.44
78087	1" x 3/4"	1.42	2.32
22333	1 1/4" x 1/2"	1.89	2.64
78092	1 1/4" x 3/4"	1.85	2.76
78097	1 1/4" x 1"	1.58	2.48
14543	1 1/2" x 3/4"	2.56	3.47
78102	1 1/2" x 1"	2.28	3.19
78107	1 1/2" x 1 1/4"	2.04	3.07
78112	2" x 1"	3.03	3.94
78117	2" x 1 1/4"	2.79	3.82
78122	2" x 1 1/2"	2.63	4.06



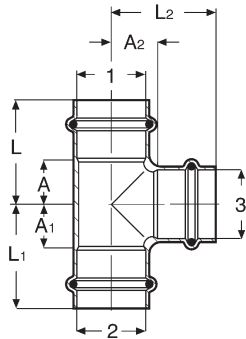
Viega ProPress Tee Copper P x P x P - Model 2918

Part No.	Size	A (in)	A1 (in)	A2 (in)	L (in)	L1 (in)	L2 (in)
	1 2 3						
77377	1/2"	0.75	0.75	0.50	1.50	1.50	1.25
77382	1/2" x 1/2" x 3/4"	0.91	0.91	0.59	1.65	1.65	1.50
15493	1/2" x 1/2" x 1"	1.10	1.10	0.55	1.85	1.85	1.46
77387	3/4"	0.85	0.85	0.59	1.75	1.75	1.50
77392	3/4" x 1/2" x 1/2"	0.69	0.98	0.63	1.59	1.73	1.38
77397	3/4" x 1/2" x 3/4"	0.85	1.14	0.59	1.75	1.89	1.50
77402	3/4" x 3/4" x 1/2"	0.69	0.69	0.63	1.59	1.59	1.38
77407	3/4" x 3/4" x 1"	0.97	0.97	0.63	1.87	1.87	1.54
77412	1"	0.97	0.97	0.79	1.87	1.87	1.69
22263	1" x 1/2" x 3/4"	0.85	1.24	0.75	1.76	1.99	1.66
94767	1" x 1/2" x 1"	0.97	1.52	0.79	1.87	2.26	1.69
77417	1" x 3/4" x 1/2"	0.69	0.89	0.79	1.59	1.79	1.54
77422	1" x 3/4" x 3/4"	0.85	1.04	0.75	1.75	1.95	1.65
77427	1" x 3/4" x 1"	0.97	1.18	0.78	1.87	2.07	1.69
77432	1" x 1" x 1/2"	0.69	0.69	0.79	1.59	1.59	1.54
77437	1" x 1" x 3/4"	0.85	0.85	0.75	1.75	1.75	1.65
15488	1" x 1" x 1 1/4"	1.16	1.16	0.84	2.07	2.07	1.87
77442	1 1/4"	1.02	1.02	0.86	2.05	2.05	1.89
22253	1 1/4" x 1/2" x 1 1/4"	1.02	1.77	0.87	2.05	2.52	1.89
22243	1 1/4" x 3/4" x 1/2"	0.64	1.13	0.93	1.68	2.03	1.68
22258	1 1/4" x 3/4" x 3/4"	0.76	1.30	0.87	1.80	2.21	1.78
22268	1 1/4" x 3/4" x 1"	0.88	1.40	0.91	1.91	2.31	1.82
22248	1 1/4" x 3/4" x 1 1/4"	1.02	1.54	0.86	2.05	2.45	1.89
22238	1 1/4" x 1" x 1/2"	0.64	0.91	0.93	1.68	1.82	1.68
94762	1 1/4" x 1" x 3/4"	0.76	1.14	0.87	1.79	2.05	1.77
14568	1 1/4" x 1" x 1"	0.88	1.28	0.91	1.91	2.19	1.81
94757	1 1/4" x 1 1/4" x 1/2"	0.65	0.65	0.93	1.67	1.67	1.67
77452	1 1/4" x 1 1/4" x 3/4"	0.77	0.77	0.89	1.79	1.79	1.77
77447	1 1/4" x 1 1/4" x 1"	0.88	0.88	0.90	1.91	1.91	1.81
77457	1 1/2"	1.13	1.13	1.13	2.56	2.56	2.56

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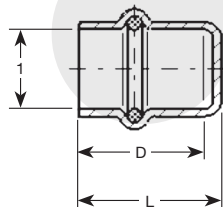
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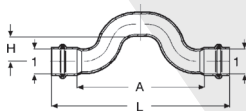
Copper Tee P x P x P - Model 2918 (continued)

Part No.	Size	A (in)	A1 (in)	A2 (in)	L (in)	L1 (in)	L2 (in)
	1 2 3						
79660	1½" x 1" x ¾"	0.67	1.39	1.16	2.17	2.44	2.05
15458	1½" x 1" x 1"	0.74	1.54	1.06	2.17	2.44	1.97
15463	1½" x 1" x 1½"	1.13	1.83	1.13	2.56	2.74	2.56
22233	1½" x 1¼" x ¾"	0.67	1.08	1.15	2.09	2.11	2.05
15453	1½" x 1¼" x 1"	0.74	1.29	1.18	2.17	2.32	2.09
15483	1½" x 1¼" x 1¼"	0.86	1.33	1.13	2.28	2.36	2.17
15448	1½" x 1½" x ½"	0.47	0.47	1.10	1.89	1.89	1.85
77462	1½" x 1½" x ¾"	0.66	0.66	1.14	2.09	2.09	2.05
77467	1½" x 1½" x 1"	0.74	0.74	1.18	2.17	2.17	2.09
77472	1½" x 1½" x 1¼"	0.86	0.86	1.13	2.28	2.28	2.17
77477	2"	1.37	1.37	1.37	2.95	2.95	2.95
15518	2" x 1¼" x 1¼"	0.94	1.84	1.33	2.52	2.87	2.36
15513	2" x 1½" x ¾"	0.70	1.25	1.38	2.28	2.68	2.28
15498	2" x 1½" x 1"	0.82	1.45	1.38	2.40	2.87	2.28
15508	2" x 1½" x 1¼"	0.94	1.55	1.49	2.52	2.97	2.52
15503	2" x 1½" x 1½"	1.13	1.65	1.37	2.72	3.07	2.80
22228	2" x 1½" x 2"	1.38	1.89	1.38	2.95	3.33	2.95
15538	2" x 2" x ½"	0.54	0.54	1.30	2.13	2.13	2.05
94777	2" x 2" x ¾"	0.79	0.79	1.26	2.37	2.37	2.17
94772	2" x 2" x 1"	0.91	0.91	1.30	2.49	2.49	2.21
77487	2" x 2" x 1¼"	1.04	1.04	1.37	2.62	2.62	2.40
77482	2" x 2" x 1½"	1.13	1.13	1.37	2.72	2.72	2.80



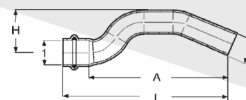
Viega ProPress Cap Copper P - Model 2956

Part No.	Size	L (in)	D (in)
	1		
77712	½"	0.92	0.79
77717	¾"	1.07	0.94
77722	1"	1.11	0.99
77727	1¼"	1.32	1.20
77732	1½"	1.62	1.49
77737	2"	1.69	1.81



Viega ProPress Cross-Over Copper P x P - Model 2928

Part No.	Size	A (in)	L (in)	H (in)
	1			
77742	½"	3.62	5.12	0.77
77747	¾"	4.49	6.30	0.90

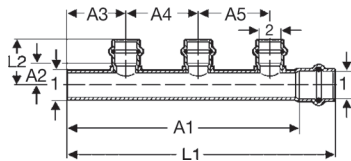


Viega ProPress Cross-Over Copper P x FTG - Model 2927

Part No.	Size	A (in)	L (in)	H (in)
	1 2			
78137	½" x ½"	3.84	4.59	1.20
78142	¾" x ¾"	4.64	5.54	1.54

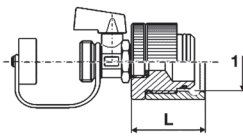
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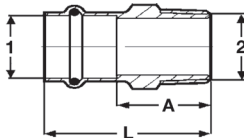
Viega ProPress Manifold 3 Outlets Copper P x FTG x P - Model 2945

Part No.	Size	L1 (in)	L2 (in)	A1 (in)	A2 (in)	A3 (in)	A4 (in)	A5 (in)
	1 2							
65803	1" x 1/2"	7.32	1.51	6.38	0.77	1.65	1.97	1.97



Viega ProPress Test Plug Bronze - Model 2969

Part No.	Size	L (in)
	1	
78202	1/2"	1.64
78207	3/4"	1.65

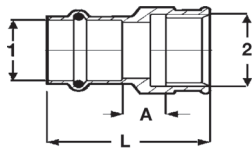


Viega ProPress Adapter Zero Lead Bronze P x MPT - Model 2911ZL

Part No.	Size	A (in)	L (in)
	1 2		
79210	1/2" x 3/8" MPT	0.77	1.59
79215	1/2" x 1/2" MPT	0.89	1.71
79220	1/2" x 3/4" MPT	1.00	1.83
79225	3/4" x 1/2" MPT	1.02	1.93
79230	3/4" x 3/4" MPT	1.02	1.93
79235	3/4" x 1" MPT	1.18	2.09
79240	1" x 3/4" MPT	1.18	2.09
79245	1" x 1" MPT	1.26	2.17
79250	1" x 1 1/4" MPT	1.54	2.44
79255	1 1/4" x 1" MPT	1.22	2.24
79260	1 1/4" x 1 1/4" MPT	1.34	2.36
79265	1 1/4" x 1 1/2" MPT	1.48	2.50
79270	1 1/2" x 1 1/4" MPT	1.34	2.76
79275	1 1/2" x 1 1/2" MPT	1.28	2.70
79280	1 1/2" x 2" MPT	1.65	3.07
79285	2" x 1 1/2" MPT	1.54	3.11
79290	2" x 2" MPT	1.50	3.07

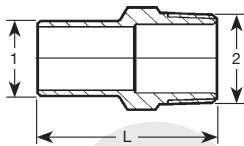
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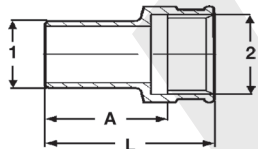
Viega ProPress Adapter Zero Lead Bronze P x FPT - Model 2912ZL

Part No.	Size	A (in)	L (in)
	1 2		
79295	1/2" x 3/8" FPT	0.19	1.42
79300	1/2" x 1/2" FPT	0.25	1.61
79305	1/2" x 3/4" FPT	0.27	1.65
79310	3/4" x 1/2" FPT	0.32	1.77
79315	3/4" x 3/4" FPT	0.35	1.81
79320	1" x 1/2" FPT	0.41	1.85
79325	1" x 3/4" FPT	0.39	1.85
79330	1" x 1" FPT	0.44	2.01
79335	1" x 1 1/4" FPT	0.50	2.09
79340	1 1/4" x 1/2" FPT	0.37	1.93
79345	1 1/4" x 1" FPT	0.24	1.93
79350	1 1/4" x 1 1/4" FPT	0.34	2.05
79355	1 1/4" x 1 1/2" FPT	0.42	2.13
79360	1 1/2" x 1 1/4" FPT	0.26	2.36
79365	1 1/2" x 1 1/2" FPT	0.34	2.44
79370	2" x 2" FPT	0.41	2.68



Viega ProPress Adapter Zero Lead Bronze FTG x MPT - Model 2911.1ZL

Part No.	Size	L (in)
	1 2	
79375	1/2" x 3/8" MPT	1.75
79380	1/2" x 1/2" MPT	1.95
79385	1/2" x 3/4" MPT	2.05
79390	3/4" x 1/2" MPT	1.93
79395	3/4" x 3/4" MPT	2.05
79400	1" x 3/4" MPT	2.05
79405	1" x 1" MPT	2.22
79410	1 1/4" x 1 1/4" MPT	2.54
79415	1 1/2" x 1 1/2" MPT	2.89
79420	2" x 2" MPT	3.33

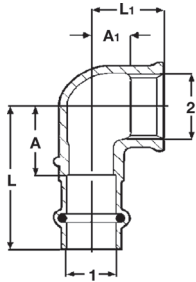


Viega ProPress Adapter Zero Lead Bronze FTG x FPT - Model 2912.1ZL

Part No.	Size	A (in)	L (in)
	1 2		
79425	1/2" x 3/8" FPT	1.13	1.54
79430	1/2" x 1/2" FPT	1.22	1.75
79435	1/2" x 3/4" FPT	1.28	1.83
79440	3/4" x 1/2" FPT	1.26	1.79
79445	3/4" x 3/4" FPT	1.28	1.83
79455	1" x 1/2" FPT	1.45	1.99
79450	1" x 1" FPT	1.33	1.99
79460	1 1/4" x 1/2" FPT	1.65	2.19
79465	1 1/4" x 1 1/4" FPT	1.50	2.19
79470	1 1/2" x 1 1/2" FPT	1.88	2.56
79475	2" x 2" FPT	2.26	2.95

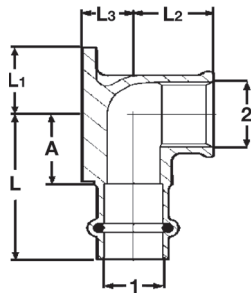
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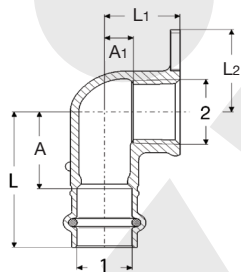
Viega ProPress 90° Elbow Zero Lead Bronze P x FPT - Model 2914.2ZL

Part No.	Size	A (in)	A1 (in)	L (in)	L1 (in)
	1 2				
79520	1/2" x 3/8" FPT	0.95	0.42	1.77	0.83
79525	1/2" x 1/2" FPT	0.95	0.57	1.77	1.10
79530	1/2" x 3/4" FPT	1.06	0.51	1.89	1.06
79535	3/4" x 1/2" FPT	1.06	0.65	1.97	1.18
79540	3/4" x 3/4" FPT	1.06	0.57	1.97	1.12
79545	1" x 1/2" FPT	1.06	0.72	1.97	1.26
79550	1" x 1" FPT	1.34	0.76	2.24	1.42
79560	1 1/4" x 1 1/4" FPT	1.54	0.89	2.56	1.58
79565	1 1/2" x 1 1/2" FPT	1.69	1.05	3.11	1.73
79570	2" x 2" FPT	2.17	1.35	3.74	2.05



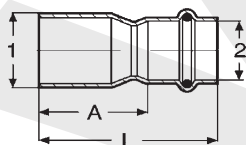
Viega ProPress 90° Drop Ear Elbow Zero Lead Bronze P X FPT - Model 2925.5ZL

Part No.	Size	A (in)	L (in)	L1 (in)	L2 (in)	L3 (in)
	1 2					
79185	1/2" x 3/8" FPT	0.94	1.77	0.74	0.83	0.67
79190	1/2" x 1/2" FPT	0.94	1.77	0.74	1.10	0.67
79195	3/4" x 3/4" FPT	1.06	1.97	0.83	1.12	0.83



Viega ProPress 90° Hi Ear Elbow Zero Lead Bronze P x FPT - Model 2925.2ZL

Part No.	Size	A (in)	A1 (in)	L (in)	L1 (in)	L2 (in)
	1 2					
79205	1/2" x 1/2" FPT	0.95	0.57	1.77	1.10	1.07

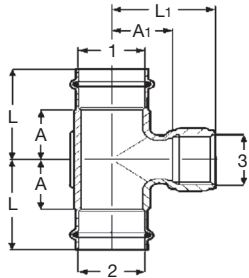


Viega ProPress Reducer Copper FTG x P - Model 2915.1ZL

Part No.	Size	A (in)	L (in)
	1 2		
79850	1 1/2" x 1 1/2"	1.95	2.78
79855	2" x 1 1/2"	2.38	3.21
79860	2" x 3/4"	2.42	3.33

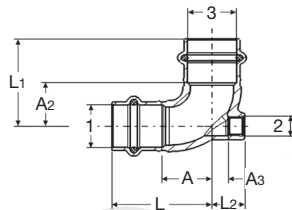
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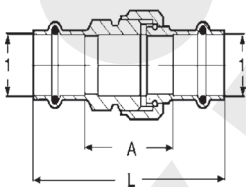
Viega ProPress Tee Zero Lead Bronze P x P x FPT - Model 2917.2ZL

Part No.	Size	A (in)	A1 (in)	L (in)	L1 (in)
	1 2 3				
79580	1/2" x 1/2" x 1/2" FPT	0.79	0.69	1.61	1.30
79585	3/4" x 3/4" x 1/4" FPT	0.67	0.79	1.58	1.18
79590	3/4" x 3/4" x 1/2" FPT	0.79	0.88	1.69	1.42
79595	3/4" x 3/4" x 3/4" FPT	0.91	0.59	1.81	1.14
79760	1" x 1" x 1/2" FPT	0.79	1.04	1.69	1.58
79765	1" x 1" x 3/4" FPT	0.91	1.06	1.81	1.61
79770	1 1/4" x 1 1/4" x 1/2" FPT	0.83	1.16	1.85	1.69
79775	1 1/4" x 1 1/4" x 3/4" FPT	0.95	1.18	1.97	1.73
79780	1 1/2" x 1 1/2" x 1/2" FPT	0.87	1.24	2.28	1.77
79785	1 1/2" x 1 1/2" x 3/4" FPT	0.95	1.30	2.36	1.85
79790	2" x 2" x 1/2" FPT	0.98	1.59	2.56	2.13
79795	2" x 2" x 3/4" FPT	1.06	1.65	2.64	2.21



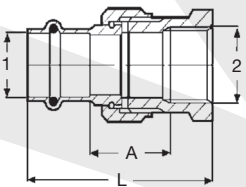
Viega ProPress Tee Vent Zero Lead Bronze P x FPT x P - Model 2917.3ZL

Part No.	Size	A (in)	A2 (in)	A3 (in)	L (in)	L1 (in)	L2 (in)
	1 2 3						
79635	1/2" x 1/8" FPT x 1/2"	0.67	0.67	0.44	1.50	1.50	0.71
79640	3/4" x 1/8" FPT x 3/4"	0.83	0.83	0.54	1.73	1.73	0.81



Viega ProPress Union Zero Lead Bronze P x P - Model 2960ZL

Part No.	Size	A (in)	L (in)
	1		
79125	1/2"	1.19	2.84
79130	3/4"	1.34	3.15
79135	1"	1.83	3.64
79140	1 1/4"	1.63	3.68
79145	1 1/2"	2.13	4.96
79150	2"	2.07	5.22

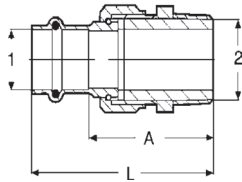


Viega ProPress Union Zero Lead Bronze P x FPT - Model 2962ZL

Part No.	Size	A (in)	L (in)
	1 2		
79700	1/2" x 1/2" FPT	0.91	2.27
79705	3/4" x 3/4" FPT	0.96	2.42
79710	1" x 1" FPT	1.30	2.87
79715	1 1/4" x 1 1/4" FPT	1.27	2.97
79720	1 1/2" x 1 1/2" FPT	1.76	3.86
79725	2" x 2" FPT	1.65	3.92

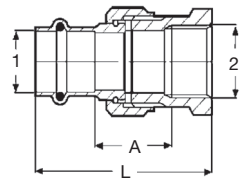
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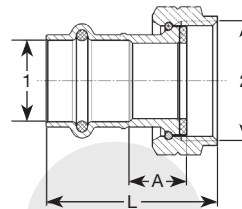
Viega ProPress Union Zero Lead Bronze P x MPT - Model 2965ZL

Part No.	Size	A (in)	L (in)
	1 2		
79730	½" x ½" MPT	1.86	2.69
79735	¾" x ¾" MPT	2.00	2.90
79740	1" x 1" MPT	2.54	3.45
79745	1¼" x 1¼" MPT	2.49	3.52
79750	1½" x 1½" MPT	3.05	4.47
79755	2" x 2" MPT	2.99	4.57



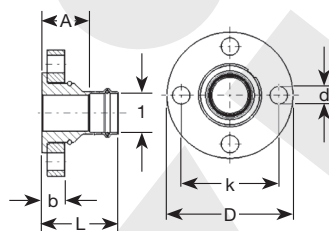
Viega ProPress Union Zero Lead Bronze P x FPT - Model 2967ZL

Part No.	Size	A (in)	L (in)
	1 2		
79155	½" x ½" FPT	0.88	2.24
79160	¾" x ¾" FPT	1.11	2.57
79165	1" x 1" FPT	1.00	2.57
79170	1¼" x 1¼" FPT	0.97	2.68
79175	1½" x 1½" FPT	1.01	3.11
79180	2" x 2" FPT	1.26	3.53



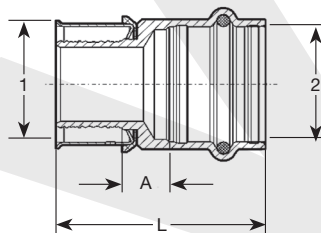
Viega ProPress Tailpiece Zero Lead Bronze P x F BSP - Model 2957ZL

Part No.	Size	A (in)	L (in)
	1 2		
79800	½" x 1" BSP	0.34	1.58
79805	¾" x 1" BSP	0.57	1.87
79810	1" x 1" BSP	0.84	2.14
79815	1" x 1¼" BSP	0.66	2.04



Viega ProPress Adapter Flange Zero Lead Bronze P x Flange - Model 2959.5ZL

Part No.	Size	L (in)	A (in)	b (in)	D (in)	k (in)	d (in)
	1						
79680	1"	2.77	1.85	0.84	4.33	3.11	0.63
79685	1¼"	2.76	1.73	0.84	4.53	3.50	0.63
79690	1½"	3.07	1.65	0.84	4.92	3.86	0.63
79695	2"	3.66	2.09	0.84	5.91	4.76	0.75



Viega PEX Press Adapter Zero Lead Bronze P x P - Model 2813PZL

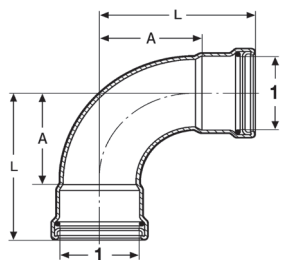
Part No.	Size	A (in)	L (in)
	1 2		
99620	½" x ½"	0.29	1.61
99626	½" x ¾"	0.43	1.83
99630	¾" x ½"	0.23	1.56
99640	¾" x ¾"	0.33	1.73
99660	1" x 1"	0.45	1.97
99670	1¼" x 1¼"	0.49	2.38
99680	1½" x 1½"	0.59	2.87
99690	2" x 2"	0.58	3.21

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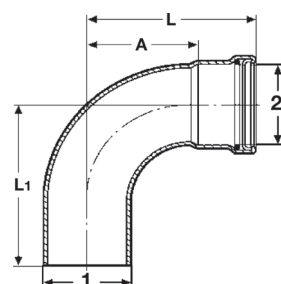
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ProPress® XL (Copper) Dimensional Documentation



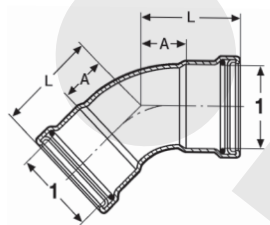
Viega ProPress XL 90° Elbow Copper P x P - Model 0916XL

Stock Code	Size	A (in)	L (in)
	1		
20623	2½"	3.19	4.88
20628	3"	3.76	5.73
20633	4"	4.90	7.26



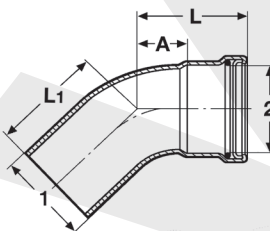
Viega ProPress XL 90° Street Elbow Copper P x FTG - Model 0916.1XL

Stock Code	Size	A (in)	L (in)	L1 (in)
	1 2			
20638	2½" x 2½"	3.19	4.88	4.80
20643	3" x 3"	3.76	5.73	5.63
20648	4" x 4"	4.90	7.26	7.13



Viega ProPress XL 45° Copper P x P - Model 0926XL

Stock Code	Size	A (in)	L (in)
	1		
20653	2½"	1.48	3.18
20658	3"	1.73	3.70
20663	4"	1.96	4.63

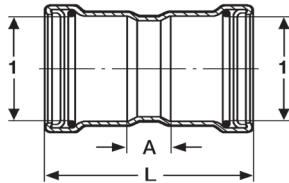


Viega ProPress XL 45° Street Elbow Copper P x FTG - Model 0926.1XL

Stock Code	Size	A (in)	L (in)	L1 (in)
	1 2			
20668	2½" x 2½"	1.48	3.18	3.10
20673	3" x 3"	1.73	3.70	3.60
20678	4" x 4"	2.20	4.57	4.49

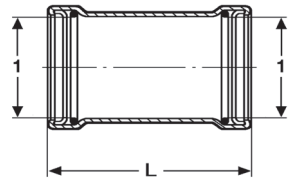
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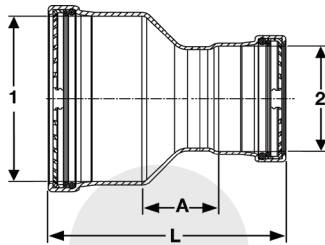
Viega ProPress XL Coupling with Stop Copper P x P - Model 0915XL

Stock Code	Size	A (in)	L (in)
	1		
20728	2½"	0.95	4.33
20733	3"	0.98	4.92
20738	4"	1.06	5.79



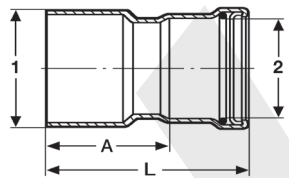
Viega ProPress XL Coupling No Stop Copper P x P - Model 0915.5XL

Stock Code	Size	L (in)
	1	
20743	2½"	4.33
20748	3"	4.92
20753	4"	5.79



Viega ProPress XL Reducer Copper P x P - Model 0915.2XL

Stock Code	Size	A (in)	L (in)
	1 2		
20685	2½" x 1"	1.76	4.36
20690	2½" x 1¼"	1.61	4.34
20695	2½" x 1½"	1.52	4.64
20700	2½" x 2"	1.41	4.69
20705	3" x 1½"	1.78	5.17
20710	3" x 2"	1.53	5.08
20715	3" x 2½"	1.41	5.07
20720	4" x 2"	2.06	6.00
20725	4" x 2½"	1.93	5.99
20730	4" x 3"	1.70	6.03

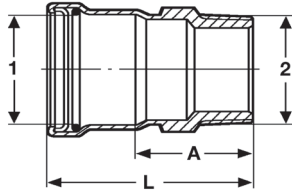


Viega ProPress XL Reducer Copper FTG x P - Model 0915.1XL

Stock Code	Size	A (in)	L (in)
	1 2		
20814	2½" x 1"	3.61	4.52
20815	2½" x 1¼"	3.47	4.51
20813	2½" x 1½"	3.41	4.84
20758	2½" x 2"	2.35	3.94
20817	3" x 1¼"	3.96	5.00
20818	3" x 1½"	3.91	5.34
20763	3" x 2"	2.98	4.57
20768	3" x 2½"	2.56	4.25
20773	4" x 2"	4.58	6.17
20778	4" x 2½"	4.45	6.15
20783	4" x 3"	4.17	6.14

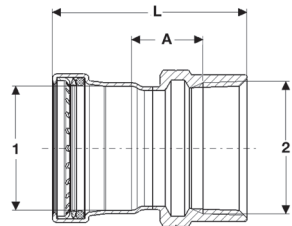
Submittal Package

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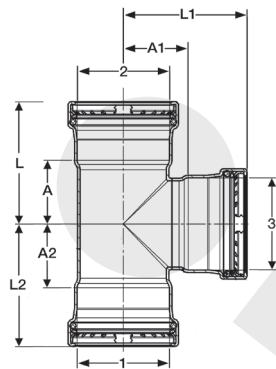
Viega ProPress XL Adapter Copper P x MPT - Model 0911XL

Stock Code	Size	A (in)	L (in)
	1 2		
20823	2½" x 2½" MPT	2.76	4.45
20828	3" x 3" MPT	2.84	4.80
20838	4" x 4" MPT	3.10	5.46



Viega ProPress XL Adapter Copper P x FPT - Model 0912XL

Stock Code	Size	A (in)	L (in)
	1 2		
20819	2½" x 2½" FPT	1.53	4.15
20829	3" x 3" FPT	1.84	4.82
20839	4" x 4" FPT	2.09	5.55



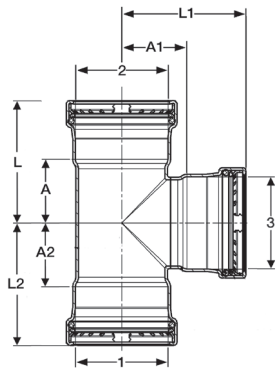
Viega ProPress XL Tee Copper P x P x P - Model 0918XL

Stock Code	Size	A (in)	A1 (in)	A2 (in)	L (in)	L1 (in)	L2 (in)
	1 2 3						
20684	2½" x ¾" x 2½"	1.83	1.87	3.23	3.52	3.56	4.13
20689	2½" x 1" x 2½"	1.83	1.91	3.25	3.52	3.60	4.15
20694	2½" x 1¼" x 2½"	1.83	1.87	3.20	3.52	3.56	4.23
20699	2½" x 1½" x 2½"	1.83	1.91	3.14	3.52	3.60	4.57
20704	2½" x 2" x ¾"	1.04	1.61	1.59	2.74	2.52	3.17
20709	2½" x 2" x 1"	1.04	1.77	1.65	2.74	2.67	3.24
22283	2½" x 2" x 1½"	1.30	1.78	1.92	2.99	3.21	3.50
22278	2½" x 2" x 2"	1.50	1.75	2.25	3.19	3.33	3.83
20714	2½" x 2" x 2½"	1.83	1.91	2.41	3.52	3.60	4.00
22303	2½" x 2½" x ½"	0.91	1.52	0.91	2.60	2.27	2.60
22298	2½" x 2½" x ¾"	0.91	1.58	0.91	2.60	2.48	2.60
22293	2½" x 2½" x 1"	1.04	1.77	1.04	2.74	2.68	2.74
22288	2½" x 2½" x 1¼"	1.16	1.76	1.16	2.85	2.79	2.85
20803	2½" x 2½" x 1½"	1.30	1.78	1.30	2.99	3.21	2.99
20688	2½" x 2½" x 2"	1.54	1.75	1.54	3.23	3.34	3.23
20683	2½" x 2½" x 2½"	1.83	1.87	1.83	3.52	3.57	3.52
20719	3" x ¾" x 3"	2.07	2.15	3.82	4.04	4.11	4.72
20724	3" x 1" x 3"	2.07	2.18	3.96	4.04	4.15	4.86
20729	3" x 1¼" x 3"	2.07	2.18	3.83	3.96	4.15	4.86

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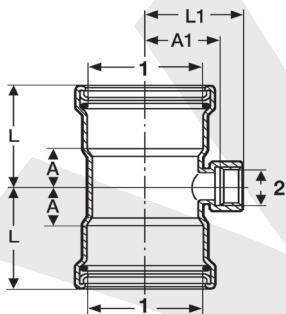
Submittal Package

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Viega ProPress XL Tee Copper P x P x P - Model 0918XL (continued from previous page)

Stock Code	Size	A (in)	A1 (in)	A2 (in)	L (in)	L1 (in)	L2 (in)
	1 2 3						
20727	3" x 1½" x 3"	2.07	2.15	3.71	4.04	4.11	5.14
20732	3" x 2" x 2"	1.56	2.00	2.34	3.52	3.59	3.92
20734	3" x 2" x 2½"	1.85	2.15	2.63	3.82	3.85	4.21
20739	3" x 2" x 3"	2.07	2.15	2.85	4.04	4.11	4.43
20744	3" x 2½" x 2"	1.56	2.03	2.07	3.52	3.61	3.76
20749	3" x 2½" x 2½"	1.85	2.15	2.36	3.82	3.85	4.06
20754	3" x 2½" x 3"	2.07	2.15	2.58	4.04	4.11	4.27
20759	3" x 3" x ½"	0.93	1.76	0.93	2.89	2.50	2.89
22323	3" x 3" x ¾"	0.93	1.80	0.93	2.89	2.71	2.89
22308	3" x 3" x 1"	1.06	2.02	1.06	3.03	2.92	3.03
22313	3" x 3" x 1¼"	1.18	2.01	1.18	3.15	3.04	3.15
20798	3" x 3" x 1½"	1.32	2.03	1.32	3.29	5.02	3.29
20698	3" x 3" x 2"	1.56	2.00	1.56	3.52	3.59	3.52
20703	3" x 3" x 2½"	1.85	2.15	1.85	3.82	3.85	3.82
20693	3" x 3" x 3"	2.07	2.21	2.07	4.04	4.18	4.04
20774	4" x 3" x 2"	1.59	2.57	3.33	3.96	4.15	5.30
20784	4" x 3" x 3"	2.11	2.66	3.84	4.47	4.63	5.81
20788	4" x 4" x ½"	1.08	2.24	1.08	3.45	2.99	3.45
20793	4" x 4" x ¾"	1.08	2.32	1.08	3.45	3.22	3.45
20794	4" x 4" x 1"	1.36	2.52	1.36	3.72	3.42	3.72
20795	4" x 4" x 1¼"	1.36	2.50	1.36	3.72	3.54	3.72
20808	4" x 4" x 1½"	1.36	2.52	1.36	3.72	3.95	3.72
20713	4" x 4" x 2"	1.59	2.53	1.59	3.96	4.11	3.96
20718	4" x 4" x 2½"	1.89	2.65	1.89	4.25	4.35	4.25
20723	4" x 4" x 3"	2.11	2.69	2.11	4.47	4.65	4.47
20708	4" x 4" x 4"	2.60	2.72	2.60	4.96	5.09	4.96

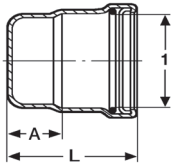


Viega ProPress XL Tee Copper P x P x FPT - Model 0917.2XL

Stock Code	Size	A (in)	A1 (in)	L (in)	L1 (in)
	1 2				
20883	2½" x ¾" FPT	1.02	1.78	2.72	2.34
20878	2½" x 2" FPT	1.54	1.90	3.23	2.60
20893	3" x ¾" FPT	1.04	2.03	3.01	2.59
20888	3" x 2" FPT	1.56	2.16	3.52	2.85
20873	4" x ¾" FPT	1.08	2.53	3.34	3.09
20868	4" x 2" FPT	1.59	2.69	3.96	3.38

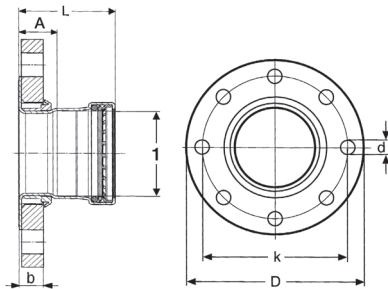
Submittal Package

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Viega ProPress XL Cap Copper P - Model 0956XL

Stock Code	Size	A (in)	L (in)
	1		
20833	2½"	0.39	2.11
20843	3"	0.39	2.36
20848	4"	0.39	2.76

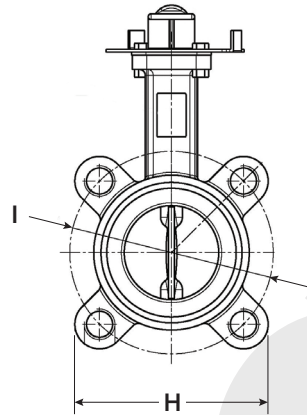
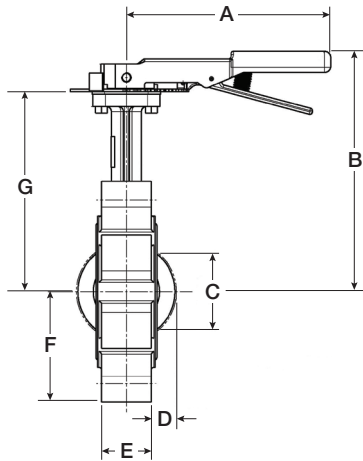


Viega ProPress XL Adapter Flange Copper P x Flange - Model 0959.5XL

Stock Code	Size	A (in)	L (in)	b (in)	k (in)	D (in)	d (in)
	1						
20853	2½"	1.09	2.79	0.70	5.51	7.09	0.75
20858	3"	1.20	3.17	0.79	5.98	7.48	0.75
20863	4"	1.29	3.66	0.86	7.52	9.06	0.75

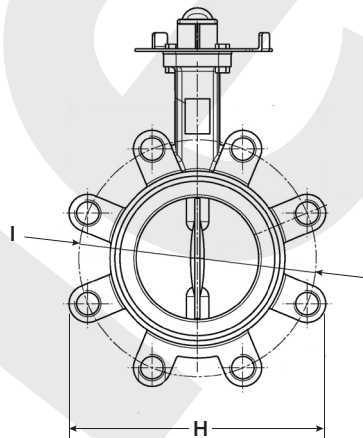
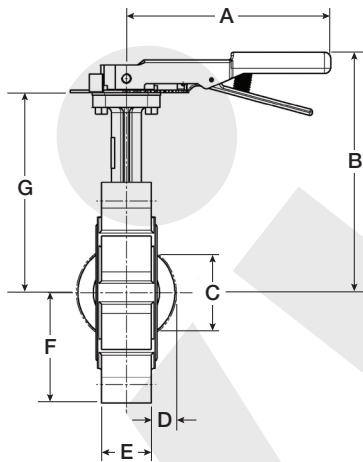
Submittal Package

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Viega ProPress Butterfly Valve - Model 2873.81

Part No.	Size	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)	I (in)
22074	2½"	6.50	7.40	2.17	0.43	1.81	2.64	5.35	5.20	5.51
22075	3"	7.28	7.64	2.80	0.67	1.81	2.82	5.59	7.01	5.98



Viega ProPress Butterfly Valve - Model 2873.81

Part No.	Size	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)	I (in)
22076	4"	9.06	8.47	3.54	0.91	2.05	3.62	6.42	8.27	7.48

Submittal Package

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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

*Zero Lead identifies Viega® products meeting the lead free requirements of NSF 61-G through testing under NSF/ANSI 372 (0.25% or less maximum weighted average lead content).

This document subject to updates. For the most current Viega technical literature please visit www.viega.us
Click Services -> Click Electronic Literature Downloads -> Select Product Line -> Select Desired Document

Viega LLC, 301 N. Main, 9th Floor • Wichita, KS 67202 • Ph: 800-976-9819 • Fax: 316-425-7618



PIPING SPECIFICATION

Rev. A

Date: 5-24-16

No.	PIPE SYSTEM	SIZE	PIPE MATERIAL	CONNECTION TYPE	FITTING MATERIAL	FITTINGS					VALVES							NOTES
						UNIONS	JOINT COMPOUNDS	FLANGES	GASKETS	BOLTS AND NUTS	BALL	BUTTERFLY	CHECK	DIAPHRAGM	GATE	GLOBE	PLUG	
1	CHILLED , HEAT RECOVERY (GLYCOL), AND HEATING WATER	2" and Under	Copper, Type L, (ASTM B88)	Press	Wrought Copper (ASTM B584)	N/A	N/A	N/A	EPDM	N/A	Milwaukee BA-480B		Milwaukee 509-P2		Milwaukee 148	Milwaukee 502		14
													MilwaukeeSilent Check 548T-P2		Apollo 101TLF-PR (threaded)	Apollo 120TLF-PR (threaded)		
													Apollo 163TLF-PR (threaded)					
		2" and Under	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Threaded	Malliable Iron, Class 150 (ASTM A47)	Acceptable	TFE Tape	Class 150; Raised Face; Forged Carbon Steel Threaded (ASTM A105)	N/A	N/A	Milwaukee BA-400s		Milwaukee 509Y					1, 14
													Milwaukee Silent Check 548T		Milwaukee 148	Milwaukee 502		
		2-1/2" to 12"	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Butt-Weld	Carbon Steel, Sch 40, Seamless, (ASTM A234-WPB)	Flanges	N/A	Class 150; Raised Face; Forged Carbon Steel Weld Neck (ASTM A105)	Garlock 2900	SAE J429 Grade 5 bolts and SAEJ5 Grade 5 Hex	Milwaukee F201CSN2	Milwaukee CL Series (Import)2-12 Figure# CL223E Lever Handle, Figure# CL323E	Milwaukee 2974A (Domestic) 2-12"		Milwaukee 2885M (Import) 2-12"	Milwaukee 2981A (Domestic) 2-10"		1, 14
													Milwaukee 2974M (Import);		Milwaukee 2885A (Domestic) 2-12"	Milwaukee 2981M (Import) 2-10"		
												Milwaukee ML Series (Domestic) 2-12 Figure # ML233E Lever Handle; Figure ML333E Gear, Operated	Milwaukee Silent Check Fig # 1800			Armstrong Circuit Balancing Valves		
		2-1/2" to 12"	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Grooved	Ductile Iron (ASTM A 536)	N/A	N/A	Flange Adapter Avalliable	EPDM	Galvanized Carbon Steel ASTM A 183 and ASTM A 563	Gruvlok Fig # 7500		Milwaukee Silent Check Fig # 1800		Milwaukee 2885M (Import) 2-12"	Milwaukee 2981A (Domestic) 2-10"		1,2, 14
												Gruvlok Fig # 7700	Milwaukee 2974M (Import);		Milwaukee 2885A (Domestic) 2-12"	Milwaukee 2981M (Import) 2-10"		
													Milwaukee 2974A (Domestic) 2-12"					
													Gruvlok Fig # 7800					
2	COOLING COIL DRAINS	2" and Under	Copper, Type M, (ASTM B88)	Press	Wrought Copper (ASTM B584)	N/A	N/A	N/A	EPDM	N/A	Milwaukee BA-480B		Milwaukee 509-P2		Milwaukee 148	Milwaukee 502		1
													MilwaukeeSilent Check 548T-P2		Apollo 101TLF-PR (threaded)	Apollo 120TLF-PR (threaded)		
													Apollo 163TLF-PR (threaded)					

4	REFRIGERANT	2" and Under	Copper, Type ARC, (ASTM B280)	Socket, Brazed	Wrought Copper (ASTM B584)	N/A	Stay-Brite Solder	N/A	N/A	N/A								14
5	MAKEUP WATER; CHEMICAL FEED	2" and Under	Copper, Type L, (ASTM B88)	Press	Wrought Copper (ASTM B584)	N/A	N/A	N/A	EPDM	N/A	Milwaukee BA-480B		Milwaukee 509-P2		Milwaukee 148	Milwaukee 502		1,14
													MilwaukeeSilent Check 548T-P2		Apollo 101TLF-PR (threaded)	Apollo 120TLF-PR (threaded)		

7	RELIEF VENTS	2" and Under	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Threaded	Malliable Iron, Class 150 (ASTM A47)	Acceptable	TFE Tape	Class 150; Raised Face; Forged Carbon Steel Threaded (ASTM A105)	N/A	N/A								1, 15
		2-1/2" to 12"	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Butt-Weld	Carbon Steel, Sch 40, Seamless, (ASTM A234-WPB)	Flanges	N/A	Class 150; Raised Face; Forged Carbon Steel Weld Neck (ASTM A105)	Garlock 2900	SAE J429 Grade 5 bolts and SAEJ5 Grade 5 Hex								1, 15
8	NATURAL GAS	2 1/2" and Under	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Threaded	Malliable Iron, Class 150 (ASTM A47)	N/A	N/A	Adapter Available	EPDM	SAE J429 Grade 5 bolts and SAEJ5 Grade 5 Hex	Milwaukee 22CSOR-02-LL						Nordstrum 142	1, 16
											Apollo 80-100 Series							
		3" to 12"	Carbon Steel, Sch 40, Electric Resistance Weld ERW, Black (ASTM A53)	Butt-Weld	Carbon Steel, Sch 40, Seamless, (ASTM A234-WPB)	Flanges	N/A	Class 150; Raised Face; Forged Carbon Steel Weld Neck (ASTM A105)	Garlock 5500	SAE J429 Grade 5 bolts and SAEJ5 Grade 5 Hex	PBV C4510-31-2236-FY-NL						Nordstrum 143	1, 16

**NOTES**

1. Use flat faced flanges (ASTM A105) in raised face flange piping systems where required for mating with flat faced valves and equipment.
2. Use grooved valves for piping 6" and less or where required based on cost.
3. Only use AGS Victaulic connections for chilled water piping systems over 14". N/A
4. Use 14" and over pipe size grooved piping systems only in low risk location such as basements. N/A
5. Threaded connections allowed where required for equipment connection.
6. Medical gas fittings will be oxygen cleaned, capped and bagged.
7. The maximum operating pressure for PVC pipe is 140°F. The allowable working pressure is reduced by a de-rating factor above 73°F.
8. The maximum operating pressure for CPVC pipe is 200°F. The allowable working pressure is reduced by a de-rating factor above 73°F.
9. The maximum operating pressure for PP pipe is 200°F. The allowable working pressure is reduced by a de-rating factor above 73°F.
10. The maximum operating pressure for HDPE pipe is 140°F. The allowable working pressure is reduced by a de-rating factor above 73°F.
11. Use Solon washers where thermal cycling is a significant issue.
12. Use fire and smoke rated materials for piping in soffits.
13. Use di-electric nipples Gruvlok Figures 7088, 7089 or 7090 to address galvanic action for dissimilar materials.
14. Use silent check valves in pump discharge applications.
15. Relief valves and rupture discs, pressure regulator vents and gas pressure switch vents shall be piped full size of valve outlet to atmosphere outside building. For multiple valve installations common discharge pipe shall have cross-sectional area equal to the sum of the outlet area of the connected valves.
16. Gas piping installed in mechanical room plenums or in ceiling plenums or where concealed in inaccessible plenums and chases shall have welded joints and fittings and shall not have valves installed within the spaces.

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: August 17, 2016

Attention: stl-cac@cannondesign.com

Contact Person / WTA Field Inspector:
Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mark Schaefer

Project No. WT 14127.01

☐

UPS

☐

Courier

☒

Email

Copies	No.	Description
1 PDF	230600M01	(Submittal No.'s) (R&B CxSRC)
		(Cannon #230600-004) - (Paric #15051-0181) – (WES #607)
		• HVAC Piping Product Data

***Submittal Review Comments**

3 inch and larger elbows shall be long radius as specified in section 230600.

c: Kelvin Patel
Kpatel@cannondesign.com

☐ Furnish as Submitted

☒ ***Furnish as Noted**

☐ Rejected

☐ Revise & Resubmit

☐ Reviewed

☐

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

PROJECT NAME	
ADDRESS	
NUMBER	
OWNER	
ARCHITECT / ENGINEER	
SUBMITTED BY	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
CRITICALITY	

To be completed by Reviewer

CANNON DESIGN SUBMITTAL NUMBER
RECEIVED DATE

- ☐ **A. No Exceptions Taken**
No further review of submittal is required.
- ☐ **B. Make Corrections Noted**
Incorporate corrections in work;
resubmission is not required.
- ☐ **C. Revise and Resubmit**
Revise as noted, and resubmit for review.
- ☐ **D. Rejected**
Submittal is not in compliance with Contract Documents;
provide new submittal.
- ☐ **E. For Record / Information Only**
Submittal was reviewed for Record / Information
purposes only.
- ☐ **F. Not Required for Review**
Submittal is not required by Contract Documents
and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

ITEM BEING SUBMITTED (check only one)

- ☐ Shop Drawings
☐ Samples
 (_____ copies)
☐ LEED Submittal
☐ Other
- ☐ Certification /
 Qualifications
☐ Record Documents
☐ Product Data
- ☐ Coordination Drawing
☐ Calculations
☐ Schedules
☐ O&M Manuals

ITEM BEING SUBMITTED FOR (check only one)

- ☐ Action ☐ Information Only ☐ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

Ry:

Devin D. Gates

REVIEWED BY	DATE

A/E COMMENTS

- ☐
- See attached sheet(s) for additional comments

REVIEWED BY	DATE



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0181

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 08/09/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: HVAC Piping Product Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:		SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings		☒ Approval	☐ Approved as Submitted
☐ Letter		☐ Your Use	☐ Approved as Noted
☐ Prints		☐ As Requested	☐ Returned After Loan
☐ Change Order		☐ Review and Comment	☐ Resubmit
☐ Plans			☐ Submit
☐ Samples		SENT VIA:	☐ Returned
☐ Specifications		☐ Attached	☐ Returned for Corrections
☒ Other: Product Data		☐ Separate Cover Via:	☐ Due Date:

<i>Item</i>	<i>Package</i>	<i>Code</i>	<i>Rev.</i>	<i>Copies</i>	<i>Date</i>	<i>Description</i>	<i>Status</i>
Submittal		230600-004	1		08/09/2016	HVAC Piping Product Data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates



Mechanical

LETTER OF TRANSMITTAL

TO: Paric Corporation

77 West Port Plaza #250

St. Louis, MO 63146

ATTN: Jason Szachnieski, Devin Gates

DATE: 8/8/16

JOB #: 5768

RE: Webster ISB

We are sending you

☒

Shop drawings

☐ Attached

☐ Prints

☐ Change order

☐ Under separate cover

☐ Plans

☐ Other

☐ Samples

☐ Specifications

☐ Copy of letter

COPIES	DATE	NO.	DESCRIPTION
1	8/8/16	230600	Piping

These are transmitted as checked below:

☐ For signature

☐ For your use

☐ As requested

☐ For bids due

☒

For review and comment

☐ Approved as submitted

☐ Approved as noted

☐ Returned for corrections

☐ Prints returned after loan to us

☐ Other

☐ Resubmit

☒

Submit

☐ Return

☐ copies for approval

☐ copies for distribution

☐ corrected prints

Remarks: Please return by 8/18/16

COPY TO: file

SIGNED:

Alex Chambers



Mechanical

Webster University ISB Webster Groves, MO

Submittal #:

230600

Submittal Description:

Piping

Return By:

8/18/16

Please Note: To avoid scheduling delays and equipment release delays, please submit by the "Return By" date.

CHECKED BY:			
DESIGNER:		ENGINEER:	
☒	NO EXCEPTION TAKEN	☐	MAKE CORRECTIONS NOTED
☐	SUBMIT SPECIFIED ITEM	☐	REVISE AND RESUBMIT
☐	REJECTED	☐	
Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Equipment supplier is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and satisfactory performance of his work.			
		Job #:	5768
		Date:	8/8/16
		By:	ARC