Press System Copper Fittings

PRESS FITTINGS FOR PLUMBING AND MECHANICAL APPLICATIONS

JOB NAME	**CONTRACTOR**
JOB LOCATION	**WHOLESALER**
ENGINEER	**STREAMLINE PRS™ REP**

PRODUCT DESCRIPTION:

Streamline PRS™ mechanical press copper fittings for use in plumbing or mechanical applications. Available sizes ranging from 1/2" to 4" in diameter. Product is designed to join ASTM B88 (Types K, L, M) hard-drawn copper tube (1/2" to 4") and soft copper tube (1/2" to 1-1/4").

Integral leak featured design, allows for quick and easy identification of connections which have not been pressed prior to putting the system in operation.

Streamline PRS™ mechanical press fittings are compatible with most common pressing tools and jaws.

50 – Year Limited Warranty

MATERIAL:

Streamline PRS™ components in a mechanical press copper fitting are: copper/low-lead brass for the body, EPDM o-ring, silicone o-ring lubrication, and stainless steel grip ring with a nylon spacer (2-1/2"-4" only).

KEY SPECIFICATIONS:

Streamline PRS™ shall conform to material requirements of ASME B16.22, ASME B16.51, or ASME B16.18. Performance criteria of Streamline PRS™ mechanical press copper fittings shall conform to IAPMO PS-117 or ASME B16.51.

INSTALLATION:

Product installation shall comply with the latest applicable building codes for the local jurisdiction and manufacturer's instructions.

REFERENCES:

NSF/ANSI 61	Drinking Water System Components
NSF/ANSI 372	Lead Content Compliance
IAPMO PS-117	Press and Nail Connection
ASME B16.51	Copper and Copper Alloy Press-Connect Pressure Fittings
UPC	Uniform Plumbing Code
CSA TIL-MSE-13	

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MUELLER INDUSTRIES

APPROVED APPLICATIONS FOR 1/2" TO 4" STREAMLINE PRS™:

Types of Service	Comments	Pressure	Temperature	Compatible with EPDM Seal
FLUIDS/WATER POTABLE				
Hot and Cold Water	—	200 PSI	32°F to 250°F	√
Rainwater / Grey Water	—	200 PSI	-20°F to 250°F	√
Chilled Water	Ethylene Glycol / Propylene Glycol	200 PSI	-20°F to 250°F	√
Hydronic Heating	Ethylene Glycol / Propylene Glycol	200 PSI	-20°F to 250°F	√
Cooling Water	Up to 50% Ethylene Glycol or Propylene Glycol solution	200 PSI	-20°F to 250°F	√
Low-Pressure Steam	—	UP TO 15 PSI	248°F	√
FUEL, OIL AND LUBRICANT				
Ethanol	Pure Grain Alcohol	200 PSI	—	√
GASES				
Compressed Air	Less than 25mg/m^3 oil content	200 PSI	Up to 140°F	√
Oxygen - O_2 (non medical)	Keep oil and fat free/non-liquid O_2	140 PSI	Up to 140°F	√
Nitrogen - N_2	—	200 PSI	Up to 140°F	√
Argon	Welding Use	200 PSI	Up to 140°F	√
Hydrogen - H_2	—	125 PSI	Up to 140°F	√
Vacuum	—	Max 29.2 inches of Mercury	Up to 140°F	√
Carbon Dioxide - CO_2	Dry	—	Up to 140°F	√

STREAMLINE PRS™ RECOMMENDED PRESSURE TESTING:

Unpressed connections are located by pressurizing the system with air or water. When testing with water the proper pressure range is 15 PSI to 50 PSI maximum. Leak testing with air can be dangerous at high pressures. When testing with compressed air the proper pressure range up to 15 PSI maximum. Following a successful leak test, the system may be pressure tested up to 200 PSI if required by local code requirements or project specifications.

SPECIFICATION LANGUAGE:

Press Fitting: Shall conform to material requirements of ASME B16.22, ASME B16.51, or ASME B16.18. Performance criteria of mechanical pressed copper fittings shall conform to IAPMO PS-117 or ASME B16.51

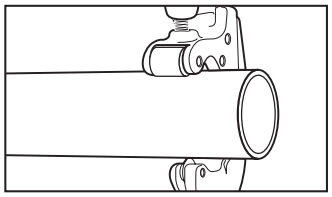
a. Operating pressure: 200 PSI CWP Max
b. Temperature range: -20°F to 250°F
c. EPDM sealing element, factory installed

-OR-

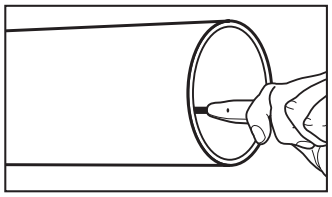
Mechanical pressed copper fittings. Jointing piping similar to Mueller Industries Streamline PRS™, Viega ProPress, or approved equal may be used.

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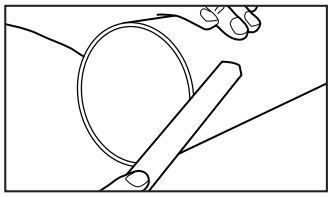
Installation Instructions (1/2" - 2")



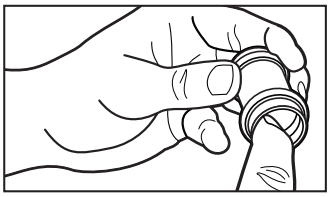
1. Cut tube square using a tube cutter or fine tooth saw.



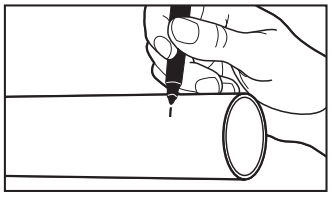
2. Deburr tube ID using a deburring tool.



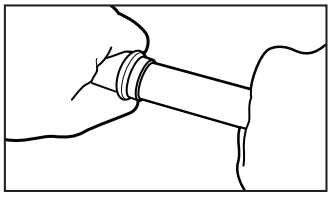
3. Deburr tube OD using half round file.



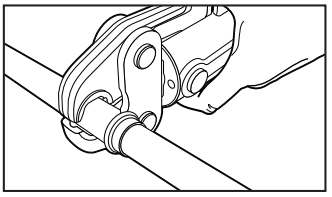
4. Check fitting bead to ensure seal is present. Do not use any type of oil lubrication.



5. Mark tube to proper fitting insertion depth (see Insertion Depth Chart below).



6. Turn slightly while sliding press fitting onto tube. Slide all the way to insertion mark and make contact with stop.

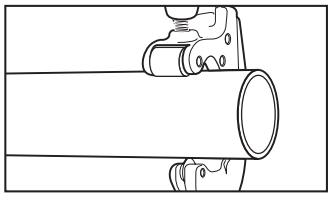


7. Place press tool at a right angle over fitting bead. Start the pressing process. Please see specific tool manufacturer for tool instruction.

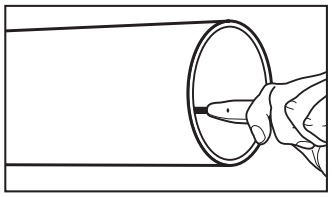
Streamline PRS Fitting Insertion Depth Chart (1/2" - 2")						
Tube Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Insertion Depth	3/4"	7/8"	7/8"	1"	1-7/16"	1-9/16"

Streamline PRS fittings must be connected with approved press tool.
Please see specific tool manufacturer for tool instruction.

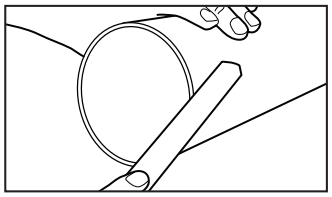
Installation Instructions (2-1/2" - 4")



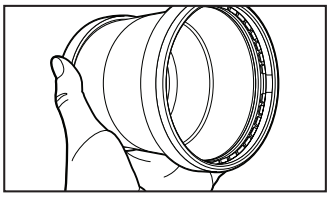
1. Cut tube square using a tube cutter or fine tooth saw.



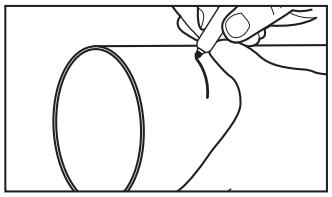
2. Deburr tube ID using a deburring tool.



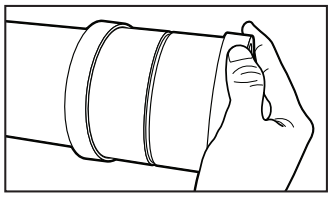
3. Deburr tube OD using half round file.



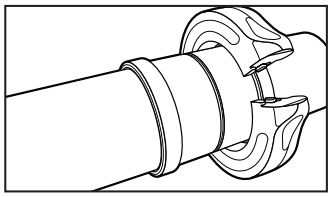
4. Check fitting ends to ensure seal, grip ring and nylon spacer are present Do not use any type of oil lubrication.



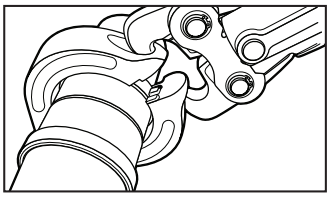
5. Mark tube to proper fitting insertion depth (see Insertion Depth Chart below).



6. Turn slightly while sliding press fitting onto tube. Slide all the way to insertion mark and make contact with stop.

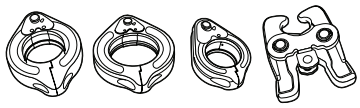


7. Place press-ring at a right angle over fitting bead and check for proper engagement. Re-check insertion depth.



8. Start the pressing process. Please see specific tool manufacturer for tool instruction.

Streamline PRS Fitting Insertion Depth Chart (2-1/2" - 4")			
Tube Size	2-1/2"	3"	4"
Insertion Depth	1-3/4"	1-7/8"	2-1/8"



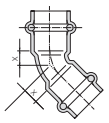
Large diameter (2-1/2" – 4") Streamline PRS fittings must be connected with approved press tool and press-rings. Please see specific tool manufacturer for tool instruction.

⚠ WARNING

Failure to follow all instructions could affect joint/system integrity and may lead to property damage. Call Customer Service at 1-800-FITTING if you have any questions or need assistance.

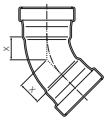
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45° ELBOW • SMALL
P x P



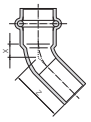
Item No.	Diameter	X	Wgt.	Inner	Viega No.
PF 03026	1/2"	0.31	0.08	10	77607
PF 03034	3/4"	0.37	0.15	10	77023
PF 03044	1"	0.45	0.21	5	77028
PF 03050	1-1/4"	0.51	0.29	1	77033
PF 03055	1-1/2"	0.59	0.58	1	77038
PF 03059	2"	0.79	0.81	1	77043

45° ELBOW • LARGE
P x P



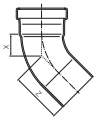
Item No.	Diameter	X	Wgt.	Inner	Viega No.
PF 03063	2-1/2"	1.30	1.74	1	20653
PF 03067	3"	1.57	2.27	1	20658
PF 03073	4"	2.07	4.10	1	20663

45° ELBOW • STREET • SMALL
FTG x P



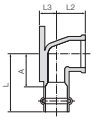
Item No.	Diameter	X	Z	Wgt.	Inner	Viega No.
PF 03326	1/2"	0.31	1.25	0.08	10	77637
PF 03334	3/4"	0.37	1.32	0.15	10	77053
PF 03344	1"	0.45	1.44	0.20	5	77058
PF 03350	1-1/4"	0.51	1.67	0.28	1	77063
PF 03355	1-1/2"	0.59	2.13	0.56	1	77068
PF 03359	2"	0.79	2.48	0.80	1	77073

45° ELBOW • STREET • LARGE
FTG x P



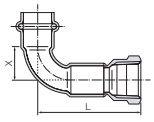
Item No.	Diameter	X	Z	Wgt.	Inner	Viega No.
PF 03363	2-1/2"	1.30	3.23	1.56	1	20668
PF 03368	3"	1.57	3.66	2.32	1	20673
PF 03373	4"	2.07	4.41	3.95	1	20678

90° ELBOW • DROP EAR • SMALL
P x FPT



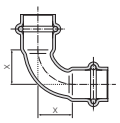
Item No.	Diameter	A	L	L2	L3	Wgt.	Inner	Viega No.
PF 01508	1/2"	0.94	1.88	0.90	0.85	0.21	5	79190
PF 02581	3/4"	1.12	2.02	1.05	1.06	0.29	5	79195

90° ELBOW • FEMALE • SMALL
P x FPT



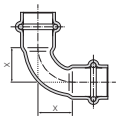
Item No.	Diameter	L	X	Wgt.	Inner	Viega No.
PF 01507	1/2"	1.71	0.76	0.18	5	79525
PF 01532	3/4"	2.16	1.04	0.31	5	79540
PF 01559	1"	2.55	1.31	0.40	5	79550
PF 01594	1-1/4"	3.02	1.65	0.68	1	79560
PF 01632	1-1/2"	3.42	2.55	0.97	1	79565
PF 01680	2"	4	2.61	1.63	1	79570

90° ELBOW • SHORT RADIUS • SMALL
P x P



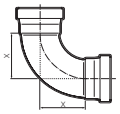
Item No.	Diameter	X	Wgt.	Inner	Viega No.
PF 01634	3/4''	0.75	0.18	10	77022
PF 01647	1''	1.22	0.28	5	77027
PF 02084	1-1/4''	1.22	0.35	1	77032
PF 02085	1-1/2''	1.24	0.63	1	77037
PF 02086	2''	2.05	1.07	1	77042

90° ELBOW • LONG RADIUS • SMALL
P x P



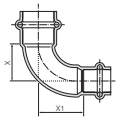
Item No.	Diameter	X	Wgt.	Inner	Viega No.
PF 02722	1/2"	0.72	0.11	10	77317
PF 02734	3/4"	1.04	0.21	10	77322
PF 02747	1"	1.32	0.27	5	77327
PF 02055	1-1/4"	1.65	0.40	5	77332
PF 02063	1-1/2"	2.00	0.70	5	77337
PF 02072	2"	2.62	1.10	1	77342

90° ELBOW • LONG RADIUS • LARGE
P x P



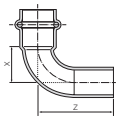
Item No.	Diameter	X	Wgt.	Inner	Viega No.
PF 02082	2-1/2"	2.99	2.09	1	20623
PF 02092	3"	3.62	2.10	1	20628
PF 02095	4"	4.74	5.61	1	20633

90° ELBOW • LONG RADIUS • REDUCING • SMALL
P x P



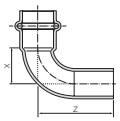
Item No.	Diameter	L3	X	X1	Wgt.	Inner	Viega No.
PF 02736	3/4" x 1/2"		1.02	1.26	0.19	15	77325
PF 02749	1" x 3/4"		1.30	1.54	0.30	10	77330

90° ELBOW • SHORT RADIUS • SMALL
P x FPT



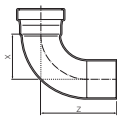
Item No.	Diameter		X	Z	Wgt.	Inner	Viega No.
PF 01654	3/4''		0.75	2.01	0.17	10	77052
PF 02344	1''		1.22	2.28	0.27	5	77057
PF 02384	1-1/4''		1.22	2.84	0.35	1	77062
PF 02385	1-1/2''		1.24	3.52	0.64	1	77067
PF 02386	2''		2.05	4.15	1.03	1	77072

90° ELBOW • LONG RADIUS • STREET • SMALL
FTG x P



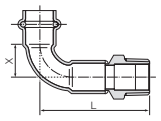
Item No.	Diameter	X	Z	Wgt.	Inner	Viega No.
PF 02822	1/2"	0.75	0.82	0.11	10	77347
PF 02834	3/4"	1.04	1.14	0.21	10	77352
PF 02847	1"	1.29	1.34	0.29	5	77357
PF 02350	1-1/4"	1.65	1.73	0.41	1	77362
PF 02355	1-1/2"	2.00	2.08	0.73	1	77367
PF 02359	2"	2.56	2.56	1.13	1	77372

90° ELBOW • LONG RADIUS • STREET • LARGE
FTG x P



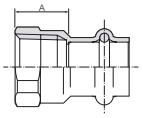
Item No.	Diameter	X	Z	Wgt.	Inner	Viega No.
PF 02363	2-1/2"	2.99	5.00	2.05	1	20638
PF 02368	3"	3.62	5.75	3.03	1	20643
PF 02395	4"	4.74	7.17	5.68	1	20648

90° ELBOW • MALE • SMALL
P x MPT



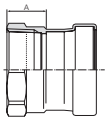
Item No.	Diameter	L	X	Wgt.	Inner	Viega No.
PF 01506	1/2"	1.5	0.78	0.18	5	-
PF 01531	3/4"	2.33	1.04	0.31	5	-
PF 01558	1"	2.81	1.31	0.42	5	-
PF 01593	1-1/4"	3.31	1.65	0.73	1	-
PF 01631	1-1/2"	3.7	2.01	1.17	1	-
PF 01679	2"	4.38	2.62	1.83	1	-

ADAPTER • FEMALE • SMALL
P x FPT



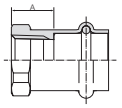
Item No.	Diameter	A	Wgt.	Inner	Viega No.
PF 01231	1/2"	0.96	0.15	5	79300
PF 01246	3/4"	1.10	0.24	5	79315
PF 01263	1"	1.20	0.35	5	79330
PF 01271	1-1/4"	1.28	0.53	5	79350
PF 01279	1-1/2"	1.38	0.82	1	79365
PF 01287	2"	1.37	1.12	1	79370

ADAPTER • FEMALE • LARGE
P x FPT



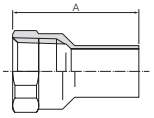
Item No.	Diameter	A	Wgt.	Inner	Viega No.
PF 01296	2-1/2"	1.42	1.25	1	20819
PF 01297	3"	1.54	1.85	1	20829

ADAPTER • FEMALE • REDUCING • SMALL
P x FPT



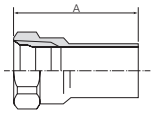
Item No.	Diameter	A	Wgt.	Inner	Viega No.
PF 01232	1/2" x 3/8"	0.53	0.09	10	79295
PF 01230	1/2" x 3/4"	1.72	0.22	5	79305
PF 01247	3/4" x 1/2"	1.56	0.18	5	79310
PF 01265	1" x 1/2"	0.73	0.29	10	79320
PF 01264	1" x 3/4"	1.69	0.26	5	79325
PF 01261	1" x 1-1/4"	1.16	0.48	10	79335
PF 01272	1-1/4" x 1"	1.88	0.38	5	79345
PF 01270	1-1/4" x 1-1/2"	1.28	0.62	1	79355
PF 01280	1-1/2" x 1-1/4"	1.26	0.38	1	79360

ADAPTER • FEMALE • STREET • SMALL
FTG x FPT



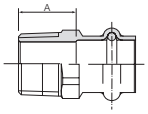
Item No.	Diameter	A	Wgt.	Inner	Viega No.
PF 15310	1/2"	1.59	0.09	5	79430
PF 01546	3/4"	1.90	0.15	5	79445
PF 01563	1"	1.96	0.23	1	79450
PF 01571	1-1/4"	2.17	0.32	1	79465
PF 01579	1-1/2"	2.63	0.49	1	79470
PF 01587	2"	2.84	0.75	1	79475

ADAPTER • FEMALE • STREET • REDUCING • SMALL
FTG x FPT



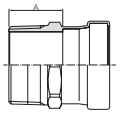
Item No.	Diameter	A	Wgt.	Inner	Viega No.
PF 01534	1/2" x 3/4"	1.87	0.13	5	79435
PF 01547	3/4" x 1/2"	1.81	0.15	5	79440
PF 01564	1" x 3/4"	1.85	0.20	5	-

ADAPTER • MALE • SMALL
P x MPT



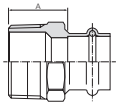
Item No.	Diameter	A	Wgt.	Inner	Viega No.
PF 01131	1/2"	1.11	0.15	5	79215
PF 01146	3/4"	1.26	0.23	5	79230
PF 01163	1"	1.62	0.35	5	79245
PF 01171	1-1/4"	1.64	0.53	5	79260
PF 01179	1-1/2"	1.65	0.70	1	79275
PF 01187	2"	1.73	1.17	1	79290

ADAPTER • MALE • LARGE
P x MPT



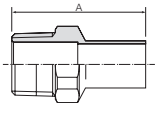
Item No.	Diameter	A	Z4	Wgt.	Inner	Viega No.
PF 01196	2-1/2"	1.97		1.62	1	20823
PF 01199	3"	2.17		2.23	1	20828
PF 01150	4"	2.40		3.82	1	20838

ADAPTER • MALE • REDUCING • SMALL
P x MPT



Item No.	Diameter	A	Wgt.	Inner	Viega No.
PF 01132	1/2" x 3/8"	0.75	0.08	10	79210
PF 01130	1/2" x 3/4"	1.88	0.23	5	79220
PF 01147	3/4" x 1/2"	1.70	0.20	5	79225
PF 01145	3/4" x 1"	1.19	0.30	10	79235
PF 01164	1" x 3/4"	1.85	0.28	5	79240
PF 01162	1" x 1-1/4"	2.31	0.51	5	79250
PF 01172	1-1/4" x 1"	2.15	0.38	5	79255
PF 01170	1-1/4" x 1-1/2"	2.34	0.65	1	79265
PF 01180	1-1/2" x 1-1/4"	1.62	0.63	1	79270
PF 01178	1-1/2" x 2"	1.67	1.00	1	79280
PF 01188	2" x 1-1/2"	1.58	0.92	1	79285

ADAPTER • MALE • STREET • SMALL
FTG x MPT

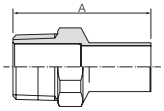


Item No.	Diameter	A	Wgt.	Inner	Viega No.
PF 01431	1/2"	1.75	0.10	5	79380
PF 01446	3/4"	2.02	0.17	5	79395
PF 01463	1"	2.15	0.27	5	79405
PF 01471	1-1/4"	2.44	0.40	1	79410
PF 01479	1-1/2"	2.90	0.59	1	79415
PF 01487	2"	3.15	0.88	1	79420

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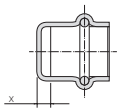
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ADAPTER • MALE • STREET • REDUCING • SMALL
FTG x MPT



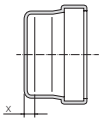
Item No.	Diameter	A	Wgt.	Inner	Viega No.
PF 01434	1/2" x 3/4"	2.05	0.18	5	79385
PF 01447	3/4" x 1/2"	1.95	0.16	5	79390
PF 01464	1" x 3/4"	2.03	0.20	5	79400

CAP • SMALL
P



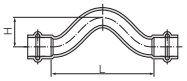
Item No.	Diameter	X	Wgt.	Inner	Viega No.
PF 07007	1/2"	0.10	0.05	10	77712
PF 07009	3/4"	0.11	0.10	10	77717
PF 07011	1"	0.11	0.11	5	77722
PF 07012	1-1/4"	0.11	0.15	1	77727
PF 07013	1-1/2"	0.12	0.28	1	77732
PF 07014	2"	0.13	0.41	1	77737

CAP • LARGE
P



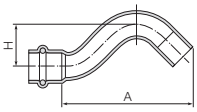
Item No.	Diameter	X	Wgt.	Inner	Viega No.
PF 07015	2-1/2"	0.33	0.68	1	20833
PF 07016	3"	0.33	0.97	1	20843
PF 07018	4"	0.39	1.67	1	20848

COUPLING • CROSS OVER • SMALL
P x P



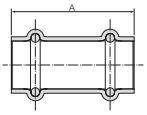
Item No.	Diameter	H	L	Wgt.	Inner	Viega No.
PF 02535	1/2"	1.10	3.62	0.24	10	77742
PF 02583	3/4"	1.34	4.57	0.41	10	77747

COUPLING • CROSS OVER • STREET • SMALL
FTG x P



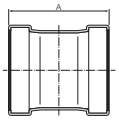
Item No.	Diameter	A	H	Wgt.	Inner	Viega No.
PF 12535	1/2"	2.93	0.94	0.23	10	-
PF 12583	3/4"	4.43	1.28	0.37	10	-

COUPLING • NO STOP • SMALL
P x P



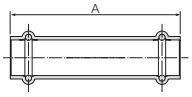
Item No.	Diameter	A	Wgt.	Inner	Viega No.
PF 01903	1/2"	1.93	0.07	10	78172
PF 01905	3/4"	2.36	0.13	10	78177
PF 01906	1"	2.34	0.17	5	78182
PF 01907	1-1/4"	2.58	0.23	1	78187
PF 01908	1-1/2"	3.39	0.44	1	78192
PF 01909	2"	3.70	0.61	1	78197

COUPLING • NO STOP • LARGE
P x P



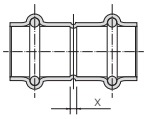
Item No.	Diameter	A	Wgt.	Inner	Viega No.
PF 01910	2-1/2"	3.54	1.08	1	20743
PF 01911	3"	3.86	1.45	1	20748
PF 01913	4"	4.49	2.42	1	20753

COUPLING • NO STOP • EXTENDED • SMALL
P x P



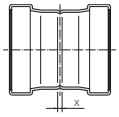
Item No.	Diameter	A	Wgt.	Inner	Viega No.
PF 01950	1/2"	2.95	0.13	5	79005
PF 01952	3/4"	3.35	0.20	5	79010
PF 01955	1"	3.74	0.30	5	79015
PF 01956	1-1/4"	4.13	0.38	1	79020
PF 01957	1-1/2"	4.72	0.70	1	79025
PF 01958	2"	5.31	0.94	1	79030

COUPLING • STAKED STOP • SMALL
P x P



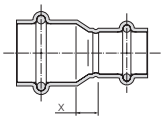
Item No.	Diameter	X	Wgt.	Inner	Viega No.
PF 10145	1/2"	0.24	0.07	10	78047
PF 10146	3/4"	0.39	0.13	10	78052
PF 10147	1"	0.39	0.17	5	78057
PF 10148	1-1/4"	0.39	0.23	1	78062
PF 10149	1-1/2"	0.47	0.44	1	78067
PF 10150	2"	0.47	0.61	1	78072

COUPLING • STAKED STOP • LARGE
P x P



Item No.	Diameter	X	Wgt.	Inner	Viega No.
PF 10151	2-1/2"	0.16	1.08	1	20728
PF 10152	3"	0.16	1.45	1	20733
PF 10154	4"	0.16	2.42	1	20738

COUPLING • REDUCING • SMALL
P x P

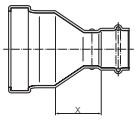


Item No.	Diameter	X	Wgt.	Inner	Viega No.
PF 01036	3/4" x 1/2"	0.39	0.12	10	78147
PF 01051	1" x 1/2"	0.53	0.16	10	15603
PF 01049	1" x 3/4"	0.43	0.15	5	78152
PF 01060	1-1/4" x 1/2"	0.71	0.20	1	-
PF 01058	1-1/4" x 3/4"	0.53	0.24	1	15593
PF 01056	1-1/4" x 1"	0.52	0.23	5	78157
PF 01069	1-1/2" x 1/2"	0.91	0.37	1	-
PF 01067	1-1/2" x 3/4"	0.75	0.39	1	18473
PF 01065	1-1/2" x 1"	0.71	0.37	1	15588
PF 01064	1-1/2" x 1-1/4"	0.37	0.39	1	78162
PF 01079	2" x 1/2"	1.28	0.55	1	-
PF 01077	2" x 3/4"	1.10	0.54	1	18468
PF 01075	2" x 1"	1.14	0.50	1	15608
PF 01074	2" x 1-1/4"	1.02	0.52	1	22328
PF 01073	2" x 1-1/2"	0.78	0.57	1	78167

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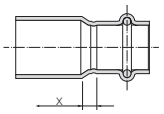
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COUPLING • REDUCING • LARGE
P x P



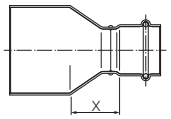
Item No.	Diameter	X	Wgt.	Inner	Viega No.
PF 01086	2-1/2" x 1"	1.54	0.99	1	20685
PF 01085	2-1/2" x 1-1/4"	1.69	0.99	1	20690
PF 01084	2-1/2" x 1-1/2"	1.50	1.08	1	20695
PF 01083	2-1/2" x 2"	1.12	1.15	1	20700
PF 01095	3" x 1-1/2"	1.89	1.57	1	20705
PF 01094	3" x 2"	1.50	1.58	1	20710
PF 01093	3" x 2-1/2"	1.16	1.73	1	20715
PF 10111	4" x 2"	2.30	2.46	1	20720
PF 10110	4" x 2-1/2"	1.95	2.66	1	20725
PF 10109	4" x 3"	1.61	2.79	1	20730

FITTING REDUCER • SMALL
FTG x P



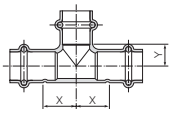
Item No.	Diameter	X	Wgt.	Inner	Viega No.
PF 01326	3/4" x 1/2"	0.50	0.08	10	78077
PF 01339	1" x 1/2"	0.81	0.12	5	78082
PF 01337	1" x 3/4"	0.50	0.13	10	78087
PF 01347	1-1/4" x 1/2"	0.59	0.17	5	22333
PF 01345	1-1/4" x 3/4"	0.41	0.20	5	78092
PF 01343	1-1/4" x 1"	0.59	0.18	1	78097
PF 01355	1-1/2" x 1/2"	0.79	0.27	5	79850
PF 01353	1-1/2" x 3/4"	0.61	0.28	1	14543
PF 01351	1-1/2" x 1"	0.74	0.26	1	78102
PF 01350	1-1/2" x 1-1/4"	0.60	0.30	1	78107
PF 01364	2" x 1/2"	1.16	0.45	1	79855
PF 01362	2" x 3/4"	0.96	0.46	1	79860
PF 01360	2" x 1"	1.30	0.38	1	78112
PF 01359	2" x 1-1/4"	0.61	0.46	1	78117
PF 01358	2" x 1-1/2"	0.47	0.52	1	78122

FITTING REDUCER • LARGE
FTG x P



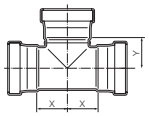
Item No.	Diameter	X	Wgt.	Inner	Viega No.
PF 01370	2-1/2" x 1"	1.36	0.79	1	20814
PF 01369	2-1/2" x 1-1/4"	1.52	0.80	1	20815
PF 01368	2-1/2" x 1-1/2"	1.32	0.88	1	20813
PF 01367	2-1/2" x 2"	0.94	0.90	1	20758
PF 01379	3" x 1-1/4"	1.91	1.10	1	20817
PF 01378	3" x 1-1/2"	1.71	1.21	1	20818
PF 01377	3" x 2"	1.32	1.21	1	20763
PF 01376	3" x 2-1/2"	0.98	1.38	1	20768
PF 01389	4" x 2"	2.11	2.33	1	20773
PF 01388	4" x 2-1/2"	1.75	2.44	1	20778
PF 01387	4" x 3"	1.42	2.51	1	20783

TEE • SMALL
P x P x P



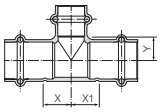
Item No.	Diameter	X	Y	Wgt.	Inner	Viega No.
PF 04006	1/2"	0.75	0.47	0.19	10	77377
PF 04031	3/4"	0.87	0.63	0.32	10	77387
PF 04048	1"	0.94	0.79	0.47	5	77412
PF 04068	1-1/4"	1.02	0.87	0.65	1	77442
PF 04084	1-1/2"	1.41	1.14	0.99	1	77457
PF 40102	2"	1.38	1.38	1.56	1	77477

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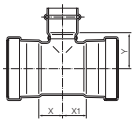
Item No.	Diameter	X	Y	Wgt.	Inner	Viega No.
PF 40123	2-1/2"	1.81	1.81	2.12	1	20683
PF 40152	3"	2.03	2.11	3.00	1	20693
PF 40200	4"	2.58	2.68	5.46	1	20708

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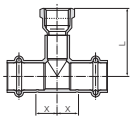
Item No.	Diameter	X	X1	Y	Wgt.	Inner	Viega No.
PF 04047	1/2" x 1/2" x 3/4"	0.75	0.75	0.47	0.24	10	77382
PF 04067	1/2" x 1/2" x 1"	1.12	1.12	0.79	0.72	5	15493
PF 04043	3/4" x 1/2" x 1/2"	0.91	0.71	0.63	0.28	10	77392
PF 04041	3/4" x 1/2" x 3/4"	1.06	0.87	0.63	0.26	10	77397
PF 04033	3/4" x 3/4" x 1/2"	0.68	0.68	0.59	0.27	5	77402
PF 04065	3/4" x 3/4" x 1"	0.87	0.87	0.63	0.35	5	77407
PF 04062	1" x 1/2" x 3/4"	0.81	1.00	0.71	0.44	5	22263
PF 04061	1" x 1/2" x 1"	0.96	1.18	0.79	0.48	5	94767
PF 04058	1" x 3/4" x 1/2"	0.69	0.66	0.79	0.51	5	77417
PF 04056	1" x 3/4" x 3/4"	0.85	1.08	0.75	0.42	5	77422
PF 04055	1" x 3/4" x 1"	0.96	0.99	0.79	0.48	5	77427
PF 04051	1" x 1" x 1/2"	0.71	0.71	0.75	0.37	5	77432
PF 04049	1" x 1" x 3/4"	0.91	0.91	0.79	0.47	5	77437
PF 04082	1" x 1" x 1-1/4"	2.30	2.30	0.83	1.02	1	15488
PF 04083	1-1/4" x 1/2" x 1-1/4"	0.96	2.66	0.83	0.81	1	22253
PF 04081	1-1/4" x 3/4" x 1/2"	0.47	1.99	0.83	0.65	1	22243
PF 04080	1-1/4" x 3/4" x 3/4"	0.61	2.13	0.83	0.73	1	22258
PF 04079	1-1/4" x 3/4" x 1"	0.69	2.20	0.83	0.78	1	22268
PF 04078	1-1/4" x 3/4" x 1-1/4"	0.96	2.48	0.83	0.85	1	22248
PF 04076	1-1/4" x 1" x 1/2"	0.47	1.81	0.83	0.65	1	22238
PF 04075	1-1/4" x 1" x 3/4"	0.67	1.95	0.83	0.70	1	94762
PF 04074	1-1/4" x 1" x 1"	0.69	2.03	0.83	0.75	1	14568
PF 04073	1-1/4" x 1" x 1-1/4"	0.96	2.30	0.83	0.90	1	-
PF 04071	1-1/4" x 1-1/4" x 1/2"	0.47	0.47	0.83	0.45	1	94757
PF 04070	1-1/4" x 1-1/4" x 3/4"	0.61	0.61	0.83	0.50	1	77452
PF 04069	1-1/4" x 1-1/4" x 1"	0.87	0.87	0.79	0.53	1	77447
PF 40244	1-1/2" x 1/2" x 1-1/2"	1.10	3.39	1.10	1.48	1	-
PF 40238	1-1/2" x 3/4" x 3/4"	0.63	2.74	1.10	1.24	1	-
PF 04098	1-1/2" x 1" x 3/4"	0.75	2.68	1.10	1.08	1	79660
PF 04097	1-1/2" x 1" x 1"	0.75	2.68	1.10	1.15	1	15458
PF 04095	1-1/2" x 1" x 1-1/2"	1.10	3.03	1.10	1.46	1	15463
PF 04093	1-1/2" x 1-1/4" x 3/4"	0.63	2.36	1.10	1.11	1	22233
PF 04092	1-1/2" x 1-1/4" x 1"	0.75	2.48	1.10	1.17	1	15453
PF 04091	1-1/2" x 1-1/4" x 1-1/4"	0.96	2.70	1.10	1.24	1	15483
PF 04088	1-1/2" x 1-1/2" x 1/2"	0.47	0.47	1.14	0.72	1	15448
PF 04087	1-1/2" x 1-1/2" x 3/4"	0.59	0.59	1.14	0.79	1	77462
PF 04086	1-1/2" x 1-1/2" x 1"	0.76	0.76	1.15	0.83	1	77467
PF 04085	1-1/2" x 1-1/2" x 1-1/4"	0.96	0.96	1.10	1.06	1	77472
PF 40249	2" x 1/2" x 2"	1.30	4.11	1.34	2.39	1	-
PF 40248	2" x 3/4" x 2"	1.30	3.92	1.34	1.45	1	-
PF 40247	2" x 1" x 1"	0.85	3.29	1.34	1.61	1	-
PF 40245	2" x 1" x 2"	1.30	3.74	1.34	2.09	1	-
PF 40117	2" x 1-1/4" x 1-1/4"	0.96	3.23	1.34	1.72	1	15518
PF 40113	2" x 1-1/2" x 3/4"	0.75	2.81	1.34	1.70	1	15513
PF 40112	2" x 1-1/2" x 1"	0.85	2.91	1.34	1.73	1	15498
PF 40111	2" x 1-1/2" x 1-1/4"	0.96	3.03	1.34	1.82	1	15508
PF 40110	2" x 1-1/2" x 1-1/2"	1.08	3.15	1.34	1.96	1	15503
PF 40109	2" x 1-1/2" x 2"	1.30	3.37	1.34	2.18	1	22228
PF 40107	2" x 2" x 1/2"	0.59	0.59	1.34	0.98	1	15538
PF 40106	2" x 2" x 3/4"	0.75	0.75	1.34	1.19	1	94777
PF 40105	2" x 2" x 1"	0.75	0.75	1.38	1.11	1	94772
PF 40104	2" x 2" x 1-1/4"	0.96	0.96	1.34	1.33	1	77487
PF 40103	2" x 2" x 1-1/2"	1.14	1.14	1.38	1.35	1	77482

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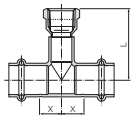
Item No.	Diameter	X	X1	Y	Wgt.	Inner	Viega No.
PF 40222	2-1/2" x 3/4" x 2-1/2"	1.81	5.28	1.81	3.33	1	20684
PF 40221	2-1/2" x 1" x 2-1/2"	1.81	5.14	1.81	3.33	1	20689
PF 40220	2-1/2" x 1-1/4" x 2-1/2"	1.81	5.30	1.81	3.34	1	20694
PF 40138	2-1/2" x 1-1/2" x 2"	1.59	4.90	1.83	3.09	1	-
PF 40137	2-1/2" x 1-1/2" x 2-1/2"	1.81	5.12	1.81	3.46	1	20699
PF 40135	2-1/2" x 2" x 3/4"	0.98	3.92	1.56	2.53	1	20704
PF 40134	2-1/2" x 2" x 1"	1.10	4.04	1.59	2.60	1	20709
PF 40132	2-1/2" x 2" x 1-1/2"	1.34	4.27	1.83	2.88	1	22283
PF 40131	2-1/2" x 2" x 2"	1.59	4.19	1.83	3.05	1	22278
PF 40130	2-1/2" x 2" x 2-1/2"	1.81	4.74	1.81	3.42	1	20714
PF 40129	2-1/2" x 2-1/2" x 1/2"	0.87	0.87	1.81	1.52	1	22303
PF 40128	2-1/2" x 2-1/2" x 3/4"	0.98	0.98	1.52	1.63	1	22298
PF 40127	2-1/2" x 2-1/2" x 1"	1.10	1.10	1.59	1.70	1	22293
PF 40126	2-1/2" x 2-1/2" x 1-1/4"	1.24	1.24	1.83	1.78	1	22288
PF 40125	2-1/2" x 2-1/2" x 1-1/2"	1.34	1.34	1.83	1.92	1	20803
PF 40124	2-1/2" x 2-1/2" x 2"	1.59	1.59	1.83	2.12	1	20688
PF 40179	3" x 3/4" x 3"	2.03	6.02	2.11	4.67	1	20719
PF 40178	3" x 1" x 3"	2.03	5.83	2.11	4.67	1	20724
PF 40181	3" x 1-1/4" x 3"	2.03	6.06	2.11	5.63	1	20729
PF 40174	3" x 1-1/2" x 3"	2.03	5.89	2.11	4.71	1	20727
PF 40164	3" x 2" x 2"	1.61	5.08	2.09	4.11	1	20732
PF 40165	3" x 2" x 2-1/2"	1.77	5.24	2.07	4.37	1	20734
PF 40167	3" x 2" x 3"	2.03	5.49	2.11	4.74	1	20739
PF 40157	3" x 2-1/2" x 2"	1.61	4.72	2.09	4.23	1	20744
PF 40158	3" x 2-1/2" x 2-1/2"	1.77	4.88	2.07	4.59	1	20749
PF 40159	3" x 2-1/2" x 3"	2.03	5.14	2.11	4.94	1	20754
PF 40145	3" x 3" x 1/2"	0.87	0.87	1.79	2.07	1	20759
PF 40146	3" x 3" x 3/4"	1.00	1.00	1.79	2.14	1	22323
PF 40147	3" x 3" x 1"	1.12	1.12	1.85	2.23	1	22308
PF 40148	3" x 3" x 1-1/4"	1.24	1.24	2.09	2.32	1	22313
PF 40149	3" x 3" x 1-1/2"	1.36	1.36	2.09	2.54	1	20798
PF 40150	3" x 3" x 2"	1.61	1.61	2.09	2.74	1	20698
PF 40151	3" x 3" x 2-1/2"	1.77	1.77	2.07	2.68	1	20703
PF 40204	4" x 3" x 2"	1.63	5.49	2.66	6.96	1	20774
PF 40206	4" x 3" x 3"	2.11	5.96	2.66	7.84	1	20784
PF 40191	4" x 4" x 1/2"	0.87	0.87	2.42	3.40	1	20788
PF 40192	4" x 4" x 3/4"	1.02	1.02	2.38	3.47	1	20793
PF 40193	4" x 4" x 1"	1.14	1.14	2.38	3.59	1	20794
PF 40194	4" x 4" x 1-1/4"	1.28	1.28	2.66	3.82	1	20795
PF 40195	4" x 4" x 1-1/2"	1.38	1.38	2.66	3.99	1	20808
PF 40196	4" x 4" x 2"	1.63	1.63	2.66	4.24	1	20713
PF 40197	4" x 4" x 2-1/2"	1.87	1.87	2.64	4.73	1	20718
PF 40198	4" x 4" x 3"	2.11	2.11	2.66	5.14	1	20723

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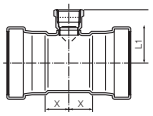
Item No.	Diameter	L	X	Wgt.	Inner	Viega No.
PF 01512	1/2"	2.08	0.75	0.30	5	79580
PF 01538	3/4"	2.45	0.81	0.51	5	79595
PF 01569	1"	2.75	0.96	0.79	5	-
PF 01607	1-1/4"	3.04	0.96	1.13	1	-
PF 01644	1-1/2"	3.90	1.10	1.72	1	-

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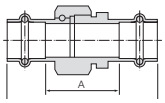
Item No.	Diameter	L	X	Wgt.	Inner	Viega No.
PF 02577	3/4" x 3/4" x 1/4"	1.82	0.67	0.42	5	79585
PF 01539	3/4" x 3/4" x 1/2"	2.13	0.67	0.39	5	79590
PF 01570	1" x 1" x 1/2"	2.37	0.69	0.47	5	79760
PF 01572	1" x 1" x 3/4"	2.61	0.81	0.59	5	79765
PF 01613	1-1/4" x 1-1/4" x 1/2"	2.41	0.47	0.56	1	79770
PF 02654	1-1/4" x 1-1/4" x 3/4"	2.72	0.61	0.69	1	79775
PF 01645	1-1/2" x 1-1/2" x 1/2"	2.20	1.00	0.79	1	79780
PF 02673	1-1/2" x 1-1/2" x 3/4"	3.0	0.63	0.95	1	79785
PF 01699	2" x 2" x 1/2"	2.4	1.30	1.32	1	79790
PF 02706	2" x 2" x 3/4"	3.24	0.75	1.28	1	79795

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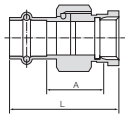
Item No.	Diameter	L1	X	Wgt.	Inner	Viega No.
PF 02727	2-1/2" x 2-1/2" x 3/4"	2.37	1.05	1.75	1	20883
PF 02718	3" x 3" x 3/4"	2.61	1.00	2.26	1	20893
PF 02729	4" x 4" x 3/4"	3.16	1.06	4.04	1	20873

UNION • SMALL
P x P



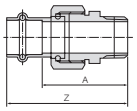
Item No.	Diameter	A	L	Wgt.	Inner	Viega No.
PF 08003	1/2"	1.38	2.77	0.30	5	79125
PF 08004	3/4"	1.31	3.14	0.63	5	79130
PF 08005	1"	1.91	3.58	0.95	5	79135
PF 11205	1-1/4"	1.92	3.81	1.19	1	79140
PF 11206	1-1/2"	2.59	5.00	1.92	1	79145
PF 11207	2"	2.37	5.31	4.89	1	79150

UNION • FEMALE • SMALL
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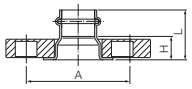
Item No.	Diameter	A	L	Wgt.	Inner	Viega No.
PF 11422	1/2"	0.90	2.24	0.30	5	79700
PF 11423	3/4"	0.90	2.44	0.47	5	79705
PF 11424	1"	0.83	2.83	1.01	5	79710
PF 11425	1-1/4"	1.20	3.01	1.10	1	79715
PF 11426	1-1/2"	1.69	3.85	1.88	1	79720
PF 11427	2"	1.50	4.05	4.72	1	79725

UNION • MALE • SMALL
P x MPT



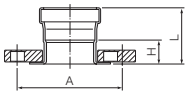
Item No.	Diameter	A	Z	Wgt.	Inner	Viega No.
PF 11210	1/2"	1.67	2.81	0.35	5	79730
PF 11211	3/4"	1.77	3.03	0.66	5	79735
PF 11212	1"	2.20	3.77	1.15	5	79740
PF 11213	1-1/4"	2.20	3.77	1.28	1	79745
PF 11214	1-1/2"	2.87	4.72	2.01	1	79750
PF 11215	2"	2.56	4.80	5.31	1	79755

FLANGE • SMALL
P x FLANGE



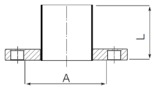
Item No.	Diameter	A	H	L	Wgt.	Inner	Viega No.
PF 02933	1"	3.12	1.85	2.76	2.80	1	79680
PF 03806	1-1/4"	3.50	1.85	2.76	3.20	1	79685
PF 03907	1-1/2"	3.88	1.65	3.07	3.86	1	79690
PF 02980	2"	4.75	2.09	3.66	5.49	1	79695

FLANGE • LARGE
P x FLANGE



Item No.	Diameter	A	H	L	Wgt.	Inner	Viega No.
PF 02746	2-1/2"	5.51	1.26	2.95	6.26	1	20853
PF 02802	3"	5.98	1.26	3.11	8.06	1	20858
PF 01940	4"	7.52	1.38	3.54	11.18	1	20863

FLANGE • LARGE
FTG x FLANGE



Item No.	Diameter		A	L	Wgt.	Inner	Viega No.
PF 12980	2"		3.75	6.00	6.500	1	-
PF 12746	2-1/2"		4.33	6.00	7.400	1	-
PF 12802	3"		5.01	6.00	8.500	1	-
PF 11940	4"		6.48	6.00	12.70	1	-