

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: UNS C12200 Copper / C69300 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:

Streamline PRS[™] fittings are approved for installations in both above and below ground applications, as allowed by local code. 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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TOOLS & INSTALLATION GUIDELINES

TOOL & JAW COMPATIBILITY

1/2" — 2"

Milwaukee M12 Tool w/Compact Jaws 1/2" - 1-1/4" Milwaukee M18 Tool w/Standard Jaws 1/2" - 2" NIBCO Mini Tool w/Mini Jaws 1/2" - 1" NIBCO Standard Tool w/Standard Jaws 1/2" - 2" REMS Mini Tool w/Mini Jaws 1/2" - 1-1/4" REMS Standard Tools w/Standard Jaws 1/2" - 2" Ridgid Compact Tools w/Compact Jaws 1/2" - 1-1/4" Ridgid Standard Tools w/Standard Jaws 1/2" - 2" Rothenberger Compact Tool w/Compact Jaws 1/2" - 1" Rothenberger Standard Tools w/Standard Jaws 1/2" - 2" Klauke UPA Tool w/Standard Jaws 1/2" - 2"

2-1/2" — 4"

Milwaukee M18 Tools w/Rings & Ring Jaw REMS Standard Tools w/Rings & Z5 Adapter Tong Ridgid Standard Tools w/ Rings & V2 Actuator Jaw

DISTANCE BETWEEN JOINTS PRESSING NEAR AN EXISTING PRESS CONNECTION

MINIMUM DISTANCE BETWEEN STREAMLINE PRS™ JOINTS				
TUBE DIAMETER	MINIMUM DISTANCE REQUIRED			
NOMINAL INCH	INCH	MM		
1/2"	_	_		
3/4"	_	—		
1″	_	—		
1-1/4″	7/16″	10		
1-1/2″	5/8″	15		
2"	3/4"	20		
2-1/2"	5/8″	15		
3"	5/8″	15		
4"	5/8″	15		

SOLDERING OR BRAZING NEAR AN EXISTING PRESS CONNECTION

The installer should take precautions to keep the press connection cool. These methods may include 1) wrapping the press connection with a cold wet cloth, 2) fabricating solder connections prior to installing the press fitting, or 3) applying spray-type cooling gels.

TUBE	SOLDERING Minimum distance		BRAZING		
DIAMETER NOMINAL			MINIMUM DISTANCE		
INCH	INCH	MM	INCH	ММ	
1/2"	1-1/2″	38	4-1/2"	114	
3/4"	2-1/4″	57	6-3/4″	172	
1″	3″	76	9″	229	
1-1/4″	3-3/4"	95	11-1/4″	286	
1-1/2"	4-1/2"	114	13-1/2″	343	
2″	6″	153	18″	457	
2-1/2"	7-1/2″	191	22-1/2"	572	
3″	9″	229	27″	686	
4″	12″	305	36″	915	

PRESSING NEAR AN EXISTING SOLDERED OR BRAZED CONNECTION

TUBE DIAMETER	MINIMUM DISTANCE			
NOMINAL INCH	INCH	ММ		
1/2"	1/4″	7		
3/4"	1/4″	7		
1″	7/16″	11		
1-1/4"	7/16″	11		
1-1/2″	5/8″	16		
2"	3/4"	19		
2-1/2"	1/4″	7		
3"	1/4″	7		
4"	1/4″	7		





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	\checkmark
Rainwater / Grey Water	_	200 PSI	-20°F to 250°F	\checkmark
Chilled Water	Ethylene Glycol / Propylene Glycol	200 PSI	-20°F to 250°F	\checkmark
Hydronic Heating	Ethylene Glycol / Propylene Glycol	200 PSI	-20°F to 250°F	\checkmark
Cooling Water	boling Water Up to 50% Ethylene Glycol or Propylene Glycol solution		-20°F to 250°F	\checkmark
Low-Pressure Steam –		UP TO 15 PSI	248°F	\checkmark
FUEL, OIL AND LUBRICANT				
Ethanol	Pure Grain Alcohol	200 PSI	_	\checkmark
GASES		- ·		·
Compressed Air	Less than 25mg/m ³ oil content	200 PSI	Up to 140°F	\checkmark
Oxygen - O ₂ (non medical) Keep oil and fat free/non-liquid C		140 PSI	Up to 140°F	\checkmark
Nitrogen - N ₂		200 PSI	Up to 140°F	\checkmark
Argon Welding Use		200 PSI	Up to 140°F	\checkmark
Hydrogen - H ₂ —		125 PSI	Up to 140°F	\checkmark
Vacuum —		Max 29.2 inches of Mercury	Up to 140°F	\checkmark
Carbon Dioxide - CO ₂	Dry	-	Up to 140°F	\checkmark

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

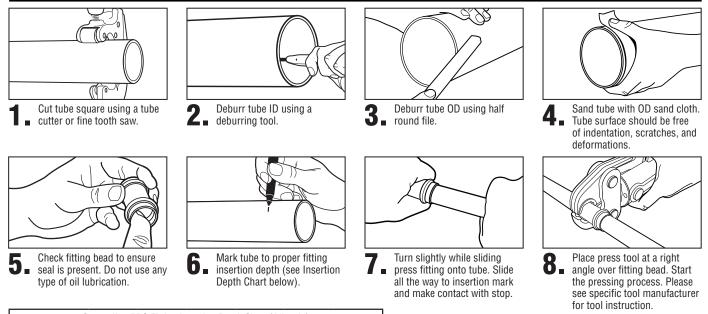
-OR-

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



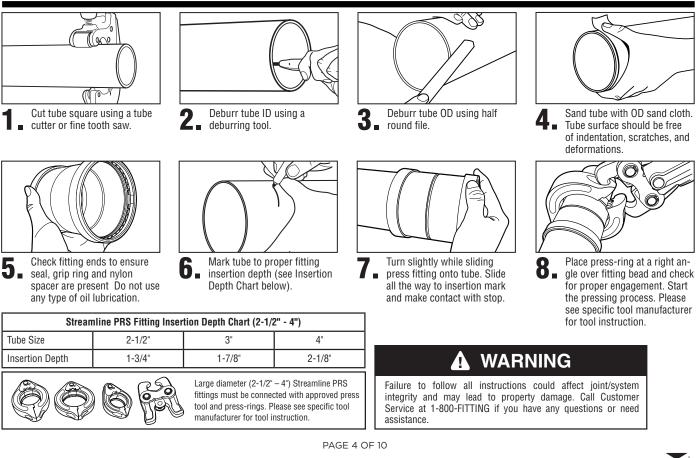


Installation Instructions (1/2" - 2")



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")

Mueller Streamline Co. • 150 Schilling Blvd., Suite 201, Collierville, TN 38017 • 800-348-8464 • www.muellerstreamline.com





ADAPTER • FEMALE • STREET • REDUCING • SMALL 90° ELBOW • MALE • SMALL P x MPT FTG x FPT Item No. Diameter Wgt. Inner Viega No. Item No. Diameter A Wgt. Inner Viega No. PF 01506 1.5 0.78 0.18 PF 01534 1/2" x 3/4' 0.13 1/2 5 1.87 5 79435 PF 01531 3/4" 2.33 1.04 PF 01547 3/4" x 1/2 1.81 0.15 5 79440 0.31 5 PF 01558 2.81 1.31 0.42 1" x 3/4" 1" PF 01564 1.85 0.20 5 5 PF 01593 1-1/4 3 31 1 65 0.73 1 2.01 PF 01631 3.7 1.17 1-1/2 1 PF 01679 2" 4.38 2.62 1.83 1 **ADAPTER • MALE • SMALL** P x MPT ADAPTER • FEMALE • SMALL P x FPT A Wgt. Item No. Diameter Inner Viega No. 0.15 PF 01131 1/21.11 5 79215 Item No. Diameter A Wgt. Inner Viega No. PF 01146 3/4" 1.26 0.23 5 79230 PF 01231 1/2" 0.96 0.15 PF 01163 1.62 0.35 5 79245 5 79300 PF 01246 3/4" 1.10 0.24 79315 PF 01171 1-1/4 1.64 0.53 5 79260 5 PF 01263 1.20 0.35 5 79330 PF 01179 1-1/2 1.65 0.70 79275 1 PF 01271 1-1/4 1.28 0.53 5 79350 PF 01187 2" 1.73 79290 1.17 PF 01279 1-1/2 1.38 0.82 79365 1 PF 01287 2" 1.37 1.12 79370 1 **ADAPTER • MALE • LARGE** P x MPT **ADAPTER • FEMALE • LARGE** P x FPT Item No. Diameter A Z4 Wgt. Inner Viega No. PF 01196 2-1/2" 1.97 1.62 20823 Diameter PF 01199 3" 217 2 23 20828 Item No. A Wgt. Inner Viega No. PF 01296 2-1/2 1.42 1.25 20819 PF 01150 4' 2.40 3.82 20838 PF 01297 3" 1.54 1.85 20829 1 ADAPTER • MALE • REDUCING • SMALL ADAPTER • FEMALE • REDUCING • SMALL P x MPT P x FPT A Wgt. Item No. Diameter Inner Viega No. Item No. Diameter Α Wgt. Inner Viega No. PF 01132 1/2" x 3/8' 0.75 0.08 10 79210 PF 01130 79220 PF 01232 1/2" x 3/8 0.53 0.09 10 79295 1/2" x 3/4' 1.88 0.23 5 PF 01230 1/2" x 3/4' 1.72 0.22 79305 PF 01147 3/4" x 1/2' 1.70 0.20 79225 5 5 PF 01247 PE 01145 3/4" x 1" 79235 3/4" x 1/2' 1 56 0 18 5 79310 1 1 9 0.30 10 PF 01265 PF 01164 79240 1" x 1/2' 0.73 0.29 10 79320 1" x 3/4" 1.85 0.28 5 PF 01264 1" x 3/4' 0.26 PF 01162 1" x 1-1/4 79250 1 69 5 79325 2 31 0.51 5 PF 01261 1" x 1-1/4" 1.16 0 48 10 79335 PF 01172 1-1/4" x 1" 2.15 0.38 5 79255 PF 01272 1-1/4" x 1 1.88 0.38 5 79345 PF 01170 1-1/4" x 1-1/2 2 34 0.65 79265 1 PF 01270 1-1/4" x 1-1/2" 1.28 0.62 1 79355 PF 01180 1-1/2" x 1-1/4" 1 62 0.63 1 79270 PF 01280 1-1/2" x 1-1/4" 1.26 0.38 1 79360 PF 01178 1-1/2" x 2" 1 67 1 00 1 79280 PF 01188 2" x 1-1/2" 1.58 0.92 79285 **ADAPTER • FEMALE • STREET • SMALL** ADAPTER • MALE • STREET • SMALL FTG x FPT FTG x MPT Item No. Wgt. Inner Viega No. Diameter A PF 15310 1.59 0.09 Item No. A Wgt. 1/2 79430 Diameter 5 Inner Viega No. PF 01546 3/4" 1.90 0.15 79445 1.75 0.10 5 PF 01431 79380 1/2 5 PF 01446 79395 PF 01563 0.23 79450 2.02 0.17 1.96 3/4" 5 1" 1 PF 01571 1-1/4 0.32 79465 PF 01463 79405 2.17 1 1" 2.15 0.27 5 PF 01579 2.63 79470 PF 01471 1-1/4 2.44 0.40 79410 1-1/2 0.49 1 1 PF 01587 2" 0.75 79475 PF 01479 2.90 0.59 79415 2.84 1 1-1/2 1 PF 01487 79420 2" 3.15 0.88 1 PF 01434 1/2" x 3/4" 2.05 0.18 79385 5 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

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PF 07007

PF 07009

PF 07011

1/2"

3/4"

1"



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77717

77722

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