Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

Unless otherwise noted, these couplings are limited to use with rolled or cut groove-ended pipe, valves and fittings, at a minimum rated working pressure of 175 psi (1205 kPa) and are suitable for aboveground service. Higher rated pressures are noted in the text of the listing. Selection of pipe schedules for use with grooved pipe couplings should be made according to applicable FM Global Property Loss Prevention Data Sheets installation standards. These pipe schedules determine system pressure ratings and may take precedence over the higher rated working pressures listed for some couplings.

Installation must be made according to the manufacturer's instructions and requirements. Where couplings are used to join FM Approved pipe, the pipe manufacturer's installation instructions and requirements must also be observed. Grooves should be made according to ANSI/AWWA C606 (latest edition), "Grooved and Shouldered Joints", unless otherwise specified.

FM Approved grooved pipe couplings joining steel pipe may be used in underground service, subject to the installation restrictions placed upon the pipe and to the coupling manufacturer's recommendations and requirements.

Unless otherwise stated in the listing, these couplings have been evaluated for a maximum ambient temperature of 225°F (107°C), suitable for use in normal warehouse protection. For special applications, temperatures, or environments, the manufacturer's recommendations and requirements are to be followed.

Grooved Couplings, Standard-Flexible

These couplings join pipe, valves or fittings having equal nominal-sized diameters.

Model 7707

	7707 [a]																						
	Nominal Pipe Size, in. (mm)																						
Pipe Description	**1 (33.4)**	**1-1/4 (42.7)**	**1-1/2 (48.3)**	**2 (60.3)**	**2-1/2 (73.1)**	**(76.1)**	**3 (88.9)**	**(108.0)**	**4 (114.3)**	**(133.0)**	**(139.7)**	**5 (141.3)**	**(159.0)**	**(165.1)**	**6 (168.3)**	**8 (219.1)**	**10 (273.0)**	**12 (323.9)**	**14 (355.6)**	**16 (406.4)**	**18 (457.2)**	**20 (508.0)**	**2 (55**
Schedule 40, Cut Groove	N/A	N/A	500 (3443)	500 (3443)	500 (3443)	N/A	500 (3443)	N/A	500 (3443)	N/A	N/A	500 (3443)	N/A	N/A	500 (3443)	500 (3443)	500 (3443)	300 (2070)	175 (1205)	175 (1205)	175 (1205)	175 (1205)	17 (12
Schedule 40, Roll Groove	N/A	N/A	N/A	500 (3443)	500 (3443)	N/A	500 (3443)	N/A	500 (3443)	N/A	N/A	500 (3443)	N/A	N/A	500 (3443)	500 (3443)	500 (3443)	300 (2070)	N/A	N/A	N/A	N/A	N
Schedule 30, Cut Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	500 (3443)	500 (3443)	300 (2070)	175 (1205)	175 (1205)	175 (1205)	175 (1205)	17 (12
Schedule 30, Rolled Groove	N/A	N/A	N/A	450 (3098)	450 (3098)	N/A	450 (3098)	N/A	450 (3098)	N/A	N/A	450 (3098)	N/A	N/A	450 (3098)	450 (3098)	450 (3098)	300 (2070)	N/A	N/A	N/A	N/A	N/
ThinWall Pipes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Allied Tube & Conduit, "XL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Allied Tube & Conduit, "BLT"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Allied Tube & Conduit, "Dyna-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Bull Moose Tube, "EDDY-Thread 40"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Blue Steel, "Rapid-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Wheatland Tube, "Mega-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Wheatland Tube, "GL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Wheatland Tube, "MLT"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
Wheatland Tube, "WLS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
Youngstown Tube, "EZ-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Schedule 10, Rolled Groove	N/A	N/A	N/A	450 (3098)	450 (3098)	N/A	450 (3098)	N/A	450 (3098)	N/A	N/A	450 (3098)	N/A	N/A	450 (3098)	450 (3098)	450 (3098)	300 (2070)	N/A	N/A	N/A	N/A	N
Lightwall Pipes, Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Allied Tube & Conduit, "Dyna-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
BlueSteel, "Fire Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
Bullmoose Tube, "EDDY-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Bullmoose Tube, "EDDYlite"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Northwest Tube, "EZ-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Tex Tube Co., "Tex Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N

2 9.0)	***24 (610.0)***
'5 05)	250 (1720)
/A	N/A
'5 05)	250 (1720)
A	N/A
A	N/A
A	N/A
A	N/A
A	N/A
A	N/A
A	N/A
A	N/A
A	N/A
/A	N/A
/A	N/A
A	N/A
/A	N/A
A	N/A
A	N/A
/A	N/A
A	N/A
A	N/A
/A	N/A

Welded Tube Berkley, "Steady-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Wheatland Tube, "Mega-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Wupperman, "Gal-7"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Yieh Phui Enterprise, State Pipe, "SPS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Youngstown Tube,"Fire-Flo"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Schedule 5 Pipe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
0.188 in. wall Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	450 (3098)	450 (3098)	N/A	N/A	N/A	N/A	N/A	N/
0.250 in. wall Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/
Tai Feng Qiao Metal Products "Flow II"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
"Fire-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
BS 1387 medium or heavy grade	N/A	N/A	N/A	N/A	N/A	500 (3443)	N/A	N/A	N/A	N/A	500 (3443)	N/A	N/A	500 (3443)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Allied Tube & Conduit, "XL-II"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Central "TL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Wheatland Tube, "WST"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
IDOD Systems "Gal-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Bull Moose "Ultra-EDDY"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
Schedule Pipe 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	175 (1205)	17 (12

Remarks:
a. FM Approved when supplied with an EPDM Gasket

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://www.shurjoint.com
New/Updated Product Listing:	Yes
Listing Country:	Taiwan
Certification Type:	FM Approved

A	N/A
A	N/A
A	N/A
A	N/A
A	N/A
/A	N/A
A	N/A
A	N/A
A	N/A
A	N/A
A	N/A
A	N/A
A	N/A
A	N/A
A	N/A
75 05)	250 (1720)

Pipe Fittings

These fittings are suitable for interconnecting piping, valves and other components in both wet and dry automatic sprinkler systems. Installation should be according to applicable sprinkler system fabrication rules. These rules limit the minimum size of sprinkler piping to 1 in., nominal. FM Approved pipe fittings of smaller sizes are intended for use as valve trim, gauge connections, and for other peripheral service. The water flow path of the sprinkler system cannot be designed using smaller sizes than 1 in., nominal. Unless otherwise noted in the listing, these fittings have 175 psi (1205 kPa) rated working pressure.

Threaded connections on fittings can be made to FM Approved threadable thinwall pipe or to Schedule 40 pipe. Refer to the "Steel Pipe" listings for a summary of the various types of FM Approved steel pipe suitable for threading or grooving."

The fittings manufacturer's installation instructions must be observed in all cases. When connections are made to FM Approved pipe, the pipe manufacturer's installation instructions must also be followed.

Unless otherwise stated below, the maximum ambient temperature to which these fittings should be subjected is 225°F (107°C).

Fittings, Side Outlet, Rigid

These fittings allow installation of a perpendicular branch line of reduced size, while joining inline pipes of equal diameters. These fittings bolt over a hole in the run pipe, and allow installation of a perpendicular branch line of reduced size. The maximum branch line size is one pipe size reduced from the run pipe size.

7721, 7722, 723 Saddle-Let, SS-723 Stainless Steel Mechanical Tee, M21, M22, C-7 Outlet Coupling

Product Designation	*Nominal Pipe Size, in.*	*Fitting Description*	*Remarks*	*Max Rated Pressure, psi (kPa)*
7721	2 x 1⁄2, 2 x 3⁄4, 2 x 1, 2 x 1 1⁄4, 2 x 1 1⁄2, 2 1⁄2 x 1⁄2, 2 1⁄2 x 3⁄4, 2 1⁄2 x 1, 2 1⁄2 x 1 1⁄4, 2 1⁄2 x 1 1⁄2, 3 x 1, 3 x 1 1⁄4, 3 x 1 1⁄2, 3 x 2, 4 x 1, 4 x 1 1⁄4, 4 x 1 1⁄2, 4 x 2, 4 x 2 1⁄2, 4 x 3, 5 x 2, 5 x 2 1⁄2, 6 x 1 1⁄4, 6 x 1 1⁄2, 6 x 2, 6 x 2 1⁄2, 6 x 3, 6 x 4, 8 x 2, 8 x 2 1⁄2, 8 x 3, 8 x 4	Mechanical Tee Branch Outlet Female NPT	a	300 (2070)
7722	3 x 1 1⁄2, 3 x 2, 4 x 1 1⁄2, 4 x 2, 4 x 2 1⁄2, 4 x 3, 5 x 2, 5 x 2 1⁄2 6 x 1 1⁄2, 6 x 2, 6 x 2 1⁄2, 6 x 3, 6 x 4, 8 x 2, 8 x 2 1⁄2, 8 x 3, 8 x 4	Mechanical Tee Grooved Outlet	a	300 (2070)
723 Saddle-Let	1 1⁄4 x 1⁄2, 1 1/4 x 3⁄4, 1 1/4 x 1, 1 1⁄2 x 1⁄2, 1 1/2 x 3⁄4, 1 1/2 x 1, 2 x 1⁄2, 2 x 3⁄4, 2 x 1, 2 1⁄2 x 1⁄2, 2 1/2 x 3⁄4, 2 1/2 x 1	Mechanical Branch Outlet Female NPT	a, b	300 (2070)

SS-723 Stainless Steel Mechanical Tee	1 1⁄4 x 1⁄2, 1 1⁄4 x 3⁄4, 1 1⁄4 x 1, 1 1⁄2 x 1/2, 1 1⁄2 x 3⁄4, 1 1⁄2 x 1, 2 x 1⁄2, 2 x 3⁄4, 2 x 1	Mechanical Branch Outlet Female NPT	a	300 (2070)
M21	2 x 1⁄2, 2 x 3⁄4, 2 x 1, 2 x 1-1⁄4, 2 x 1-1⁄2, 2-1⁄2 x 1⁄2, 2-1⁄2 x 3⁄4, 2-1⁄2 x 1, 2-1⁄2 x 1-1⁄4, 2-1⁄2 x 1-1⁄2, 3 x 1⁄2, 3 x 3⁄4, 3 x 1, 3 x 1-1⁄4, 3 x 1-1⁄2, 3 x 2, 4 x 1⁄2, 4 x 3⁄4, 4 x 1, 4 x 1-1⁄4, 4 x 1-1⁄2, 4 x 2, 4 x 2-1⁄2, 5 x 2, 5 x 2-1⁄2, 6 x 1-1⁄4, 6 x 1-1⁄2, 6 x 2, 6 x 2-1⁄2, 6-1⁄2 OD x 1-1⁄4, 6-1⁄2 OD x 1-1⁄2, 6-1⁄2 OD x 2, 6-1⁄2 OD x 2-1⁄2	Mechanical Branch Outlet Female NPT Female BSPT (when used with BS EN 10255 pipe)	a, c, d, e, f, g, h, j, k, m	300 (2070)
M22	2 x 1, 2 x 1-1⁄4, 2 x 1-1⁄2, 2-1⁄2 x 1, 2-1⁄2 x 1-1⁄4, 2-1⁄2 x 1-1⁄2, 3 x 1, 3 x 1-1⁄4, 3 x 1-1⁄2, 3 x 2, 4 x 1, 4 x 1-1⁄4, 4 x 1-1⁄2, 4 x 2, 4 x 2-1⁄2, 4 x 3 OD, 5 x 2, 5 x 2-1⁄2, 5 x 3 OD, 6 x 1-1⁄4, 6 x 1-1⁄2, 6 x 2, 6 x 2-1⁄2, 6-1⁄2 OD x 1-1⁄4, 6-1⁄2 OD x 1-1⁄2, 6-1⁄2 OD x 2, 6-1⁄2 OD x 3 OD	Mechanical Tee Grooved Outlet	a, c, d, e, f, g, h, j, k, m	300 (2070)
M21	4 x 3 6 x 3 6 x 4 6-1⁄2 OD x 3, 6-1⁄2 OD x 4	Mechanical Branch Outlet Female NPT Female BSPT (when used with BS EN 10255 pipe)	a, c, d, e, f, g, h, j, k, m	175 (1205)
M22	4 x 3 6 x 3 6 x 4 6-1⁄2 OD x 3, 6-1⁄2 OD x 4	Mechanical Tee Grooved Outlet	a, c, d, e, f, g, h, j, k, m	175 (1205)

a. For use on Schedule 10 or heavier pipe. Clamps over pre-drilled hole in pipe wall.

b. Allied “XL”, “Allied Dyna-Flow”, 1-1⁄4 to 2-1/2 in.
Allied “BLT”, Bull Moose “EDDY-Lite”, Wheatland “WLS”, 1-1/4 to 2 in.

c. Allied "Super-Flo", Allied "Dyna-Flow", 1-1⁄4 to 4 in.

d. Wheatland "Mega-Flow", 1 to 4 in.

e. Wheatland "Mega-Thread", 1 to 2 in.

f. Youngstown "EZ-Thread", 1 to 2 in.

g. Youngstown "Fire-Flo", 1-1⁄2 to 4 in.

h. Bull Moose "EDDY-Flow", 1-1⁄4 to 4 in.

j. Northwest "EZ-Flow", 3 to 6 in.

k. BS EN 10255, 1 to 6 in.

m. EPDM gasket.

Product Designation	*Fitting Description*	*Nominal Pipe Size, in. / Type of Outlet**	*Remarks*	*Max Working Pressure, psi (kPa)*
C-7	Outlet Coupling	2 1⁄2 x 1⁄2 / F 2 1⁄2 x 3⁄4 / F 2 1⁄2 x 1 / F 2 1⁄2 x 1 1⁄4 / M, G 2 1⁄2 x 1 1⁄2 / M, G 3 x 3⁄4, 3 x 1 / F 3 x 1, 3 x 1 1⁄2 / M, G 4 x 3⁄4, 4 x 1 / F 4 x 1 1⁄2, 4 x 2 / M, G 6 x 1, 6 x 1 1⁄2 / F 6 x 1 1⁄2, 6 x 2 / M, G	a, b, c, d, e, g, j, k, l, m, n, p, q, r, t, u	300 (2070)
C-7	Outlet Coupling	1 1⁄2 x 1⁄2 / F 1 1⁄2 x 3⁄4 / F 1 1⁄2 x 1, 2 x 1⁄2 / F 2 x 3⁄4, 2 x 1 / F 2 x 1 / M, G	f, h, s	300 (2070)

*F = Female Threaded.
*M = Male Threaded.
*G = Grooved.

a. Min schedule cut groove pipe: 6 in. or smaller - Schedule 40.
b. Min schedule rolled groove pipe: 6 in. or smaller - Schedule 10.
c. With EPDM gasket (green stripe) Grade E or (purple stripe) Grade A.
d. Allied Tube & Conduit Corp Thinwall Pipe, "BLT" and “Dyna-Thread (1-2”). "XL", "XL-II", "Super- XL" and "Super-40" (1- 3”).
e. Allied Tube & Conduit Corp Lightwall Pipe, "Dyna-Flow" and "Super-Flo" (1- 6”).
f. Allied Tube & Conduit Corp Schedule 5 Pipe, Dyna-Light (1- 2”).
g. Bull Moose Thinwall Pipe ,"EDDY-Lite" and “EDDY-Thread”, (1-2”).
h. Bull Moose Schedule 5 Pipe, "Ultra-EDDY", 1-2 in. sizes.
j. Bull Moose Lightwall Pipe, "EDDY-Flo" (1 ¼ - 4”).
k. BS 1387 pipe, medium and heavy wall and ISO 4200 pipe.
l. Welded Tube-Berkeley LLC Lightwall Pipe, Steady-Flow (1 ¼ - 4”).
m. Welded Tube-Berkeley LLC Thinwall Pipe, Steady-Thread (1 ¼ - 2”).
n. Western International Forest Products Thinwall Pipe, Rapid-Thread and Rapid Thread Light (1-2”).
p. Western International Forest Products Lightwall Pipe, Fire-Flow (1-4”).
q. Wheatland Tube Co. Lightwall pipe, "Mega-Flow" (1-6”).
r. Wheatland Tube Co. Thinwall pipe, "WLS" , "Mega-Thread" , "MLT" "GL" and EZ Thread (1 ¼ - 2”) "SL".
s. Wheatland Tube Co Schedule 5 Pipe, pipe . "WST" (1- 2”).
t. Youngstown Tube Lightwall Pipe, Fire-Flo (1 ½ - 4”).
u. Youngstown Tube Thinwall Pipe, EZ-Thread (1 - 2”).

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://shurjoint.com
New/Updated Product Listing:	No
Listing Country:	Taiwan
Certification Type:	FM Approved
Primary Class of Work:	1920-Coupling & Fitting, All Type

Pipe Fittings

These fittings are suitable for interconnecting piping, valves and other components in both wet and dry automatic sprinkler systems. Installation should be according to applicable sprinkler system fabrication rules. These rules limit the minimum size of sprinkler piping to 1 in., nominal. FM Approved pipe fittings of smaller sizes are intended for use as valve trim, gauge connections, and for other peripheral service. The water flow path of the sprinkler system cannot be designed using smaller sizes than 1 in., nominal. Unless otherwise noted in the listing, these fittings have 175 psi (1205 kPa) rated working pressure.

Threaded connections on fittings can be made to FM Approved threadable thinwall pipe or to Schedule 40 pipe. Refer to the "Steel Pipe" listings for a summary of the various types of FM Approved steel pipe suitable for threading or grooving."

The fittings manufacturer's installation instructions must be observed in all cases. When connections are made to FM Approved pipe, the pipe manufacturer's installation instructions must also be followed.

Unless otherwise stated below, the maximum ambient temperature to which these fittings should be subjected is 225°F (107°C).

Pipe Fittings

Shurjoint Metals Inc, Pipe Fittings

Product Designation	*Fitting Description*	*Nominal Pipe Size, in.*	*Max Working Pressure, psi (kPa)*	*Remarks*
C10	90° Elbow Grooved	2, 2-1/2, 3, 4, 6	200 (1380)	a, b, c
C11	45° Elbow Grooved	2, 2-1/2, 3, 4, 6	200 (1380)	a, b, c
C20	Tee Grooved	2, 2-1/2, 3, 4, 6	200 (1380)	a, b, c
C60	Cap Grooved	2, 2-1/2, 3, 4, 6	200 (1380)	a, b, c

Remarks:
a. Provides a rigid transition between flanged components and a grooved system.
b. ASTM B584 C90500 Copper Material.
c. Manufactured out of ASTM B584 C89836 as an alternate material

Product Designation	*Fitting Description*	*Nominal Pipe Size, in.*	*Max Working Pressure, psi (kPa)*	*Remarks*
899	End-All Fitting	1-1/4 × 1/2, 3/4, 1 1-1/2 × 1/2, 3/4, 1 2 × 1/2, 3/4, 1 2-1/2 × 1/2, 3/4, 1	300 (2070)	-
901	Short Radius 90° Elbow Grooved	2, 2-1/2, 3, 4, 5, 6, 8	300 (2070)	-
903	Short Radius Tee Grooved	2, 2-1/2, 3, 4, 5, 6, 8	300 (2070)	-
7110	90° Elbow Grooved	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8	500 (3447)	-
7110	90° Elbow Grooved	10, 12	300 (2070)	-
7110	90° Elbow Grooved	14, 16, 18, 24	175 (1205)	-

7110	90° Elbow Grooved	20	250 (1725)	-
7110LR	1.5D 90° Elbows	2, 2-1/2, 3, 4, 5, 6, 8	300 (2070)	-
7110DR	Drain Elbows	2, 2-1/2, 3, 4, 5, 6	300 (2070)	-
7111	45° Elbow Grooved	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8	500 (3447)	-
7111	45° Elbow Grooved	10, 12	300 (2070)	-
7111	45° Elbow Grooved	14, 16, 18, 24	175 (1205)	-
7111	45° Elbow Grooved	20	250 (1725)	-
7112	22-1/2° Elbow Grooved	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8 139.7, 165.1 mm	300 (2070)	-
7113	11-1/4° Elbow Grooved	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8 139.7, 165.1 mm	300 (2070)	-
7120	Tee Grooved	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8	500 (3447)	-
7120	Tee Grooved	10, 12, 14	300 (2070)	-
7120	Tee Grooved	16	175 (1205)	-
7121	Reducing Tee Grooved	2 × 1-1/2 2-1/2 × 2 3 x 2, 2-1/2 4 × 2, 2-1/2, 3 5 × 2, 3, 4 6 × 2, 2-1/2, 3, 4, 5 8 × 2, 3, 4, 6	300 (2070)	-
7130	45° Laterals Grooved	2, 2-1/2, 3, 4, 5, 6, 8 139.7, 165.1 mm	300 (2070)	-
7135	Cross Grooved	2, 2-1/2, 3, 4, 5, 6	300 (2070)	-
7150	Concentric Reducer Grooved	2 × 1-1/2 2-1/2 × 2 3 × 2, 2-1/2 4 × 2, 2-1/2, 3 5 × 2, 3, 4 6 × 2, 2-1/2, 3, 4, 5 8 × 3, 4, 6 10 × 4, 6, 8 12 × 8, 10 14 × 6, 8, 10, 12	300 (2070)	-
7151	Eccentric Reducer Grooved	2 x 1-1/2 2-1/2 × 2 3 × 2, 2-1/2 4 × 2, 2-1/2, 3 5 × 2, 3, 4 6 × 2, 2-1/2, 3, 4, 5 8 × 3, 4, 6 10 × 4, 6, 8	300 (2070)	-

		12 × 8, 10 14 × 6, 8, 10, 12		
7160	Cap Grooved	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 76.1, 139.7, 165.1 mm	300 (2070)	-
7160H	Cap Grooved	10, 12	300 (2070)	-
7160H	Cap Grooved	14, 16, 18, 24	175 (1205)	-
7170	Adaptor	2-1/2, 3, 4, 5, 6	175 (1205)	-
7181	Universal Reducing Flange	3 × 2 4 × 3 6 × 4	300 (2070)	-
Model 811	90° Elbow Screwed Fittings	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2	300 (2070)	k
Model 813	45° Elbow Screwed Fittings	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2	300 (2070)	k
Model 812	Reducing Elbow Screwed Fittings	3/4 × 1/2 1 × 1/2, 3/4 1-1/4 × 1/2, 3/4, 1 1-1/2 × 3/4, 1, 1-1/4 2 × 3/4, 1, 1-1/2 2-1/2 × 2	300 (2070)	k
Model 814	Tee Screwed Fittings	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2	300 (2070)	k
Model 815	Reducing Tee Screwed Fittings	3/4 × 3/4 × 1/2 1× 1 × 1/2, 3/4 1× 3/4 × 1/2, 3/4, 1 1 × 1/2 × 1 1-1/4 × 1-1/4 × 1/2, 3/4, 1 1-1/4 × 1 × 1/2, 3/4, 1, 1-1/4 1 × 1 × 1-1/4 1-1/2 × 1-1/2 × 1/2, 3/4, 1, 1-1/4 1-1/2 × 1-1/4 × 1/2, 3/4, 1, 1-1/4, 1-1/2 1-1/2 × 1 × 1/2, 3/4, 1, 1-1/2 1 × 1 × 1-1/2 1-1/4 × 1-1/4 × 1-1/2 1-1/4 × 1 × 1-1/2 2 × 2 × 1/2, 3/4, 1, 1-1/4, 1-1/2 2 × 1-1/2 × 1/2, 3/4, 1, 1-1/2, 2 2 × 1-1/4 × 2 2 × 1× 2 1-1/2 × 1-1/2 × 2 1-1/2 × 1-1/4 × 2 2-1/2 × 2 × 3/4 2 × 2 × 2-1/2	300 (2070)	k
Model 816	Reducing Coupling Screwed Fittings	3/4 × 1/2 1 × 1/2, 3/4 1-1/4 × 1 1-1/2 × 1, 1-1/4 2 × 1, 1-1/4, 1-1/2	300 (2070)	k
Model 825	Extension Piece Screwed Fittings	1/2 × 1-1/2 L, 2 L 3/4 × 1-1/2 L, 2 L	300 (2070)	k

Model 817	Cross Screwed Fittings	1, 1-1/4, 1-1/2, 2	300 (2070)	k
Model 817	Cross Screwed Fittings	1-1/4 × 1 1-1/2 × 1 2 × 1	300 (2070)	k
Model 818	Straight Coupling Screwed Fittings	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2	300 (2070)	k
Model 819	Plug Screwed Fittings	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	300 (2070)	k
Model 820	Cap Screwed Fittings	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2	300 (2070)	k
Model 827	Hex. Bushing Screwed Fittings	1 × 1/2, 3/4 1-1/4 × 1/2, 3/4, 1 1-1/2 × 1/2, 3/4, 1, 1-1/4 2 × 1/2, 3/4, 1, 1-1/4, 1-1/2	300 (2070)	k
Model 827	Face Bushing Screwed Fittings	1-1/4 × 1 1-1/2 × 1, 1-1/4 2 × 1-1/4, 1-1/2	300 (2070)	k
Model 830	Brass Seat Union Screwed Fittings	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2	300 (2070)	k
Model 831	Long Street Elbow Screwed Fittings	1 × 1/2 M, 1 M	300 (2070)	k
Model 832	Long Street Tee Screwed Fittings	1 × 1/2 × 1 M 1 × 1 × 1 M	300 (2070)	k

Remarks:
k. Standard threaded pipe fittings conforming to ASTM A-536 (Grade 65-45-12) ductile iron, ANSI B2.1 taper threads according to NPT. Unless otherwise noted in the listing, these fittings are ductile iron.

Product Designation	***Fitting Description***	***Nominal Pipe Size, in. Grooved***	***Nominal Outlet Pipe Size, in. NPT or BSP***	***Max Working Pressure, psi (kPa)***	***Remarks***
Model 850	Sprinkler Hub	2, 2-1/2	1	300 (2070)	k, l, m
Model 850	Sprinkler Hub	76.1	1	300 (2070)	l, m
Model 851	Reducing Sprinkler Hub	2 x 1-1/2, 2-1/2 x 1-1/2, 2-1/2 x 2	1	300 (2070)	k, l, m
Model 851	Reducing Sprinkler Hub	76.1 x 2	1	300 (2070)	l, m
Model 853	Sprinkler End Hub	1-1/2, 2, 2-1/2	1	300 (2070)	k, l, n
Model 853	Sprinkler End Hub	76.1	1	300 (2070)	l, n

Remarks:
k. ANSI B2.1 taper threads according to NPT. Unless otherwise noted in the listing, these fittings are ductile iron.
l. BSP threaded pipe fittings. Unless otherwirse noted in the listing, these fittings are ductile iron.
m. Three outlets
n. Four outlets

Product Designation	***Fitting Description***	***Nominal Pipe Size, in.***	***Max Working Pressure, psi (kPa)***	***Remarks***
C10	90° Elbow Grooved	2, 2-1/2, 3, 4, 6	200 (1380)	j
C11	45° Elbow Grooved	2, 2-1/2, 3, 4, 6	200 (1380)	j
C20	Tee Grooved	2, 2-1/2, 3, 4, 6	200 (1380)	j
C60	Cap Grooved	2, 2-1/2, 3, 4, 6	200 (1380)	j
55	Nipple Adaptor Grooved x Threaded	1-1/2 × 1-1/2 2 × 2	300 (2070)	-
7125	Bullhead Tee Grooved	2 × 2 × 2-1/2 2-1/2 × 2-1/2 × 3, 4 3 × 3 × 4 4 × 4 × 6	300 (2070)	-
7127	Standpipe Tee Grooved	4 × 4 × 2-1/2	300 (2070)	-
7150F	Reducing Socket Adaptor Grooved x Threaded	1-1/2 × 1 2 × 1-1/4, 1-1/2 2-1/2 × 1-1/4, 1-1/2, 2 3 × 1-1/4, 1-1/2, 2 4 × 1-1/2, 2, 2-1/2	300 (2070)	-
7150M	Reducing Nipple Grooved x Threaded	1-1/2 × 1 2 × 1-1/4, 1-1/2 2-1/2 × 1-1/4, 1-1/2, 2 3 × 1-1/4, 1-1/2, 2 4 × 1-1/2, 2, 2-1/2 5 × 1-1/2 6 × 1-1/2, 2, 2-1/2, 4	300 (2070)	-
7160T	Transition Fitting Grooved	2 × 1, 1-1/4 2-1/2 × 1, 1-1/4, 1-1/2 3 × 1, 1-1/4, 1-1/2, 2 4 × 1, 1-1/4, 1-1/2, 2 6 × 1, 1-1/4, 1-1/2, 2	300 (2070)	-
7180	Adaptor Grooved x Flanged	2, 2-1/2, 3, 4, 5, 6, 8	300 (2070)	a, b, c
SS-80	Adaptor Grooved x Flanged	2, 2-1/2, 3, 4, 5, 6, 8	300 (2070)	d, e
SS-10	90° Elbow Grooved	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12, 76.1, 139.7, 165.1, 216.3, 267.4, 318.5 mm	300 (2070)	e

SS-11	45° Elbow Grooved	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12, 76.1, 139.7, 165.1, 216.3, 267.4, 318.5 mm	300 (2070)	e
SS-20	Tee Grooved	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12, 76.1, 139.7, 165.1, 216.3, 267.4, 318.5 mm	300 (2070)	e
SS-60	Cap Grooved	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 76.1, 139.7, 165.1, 216.3, 267.4, 318.5 mm	300 (2070)	e
SS-21	Reducing Tee Grooved	2 x 1-1/2 2-1/2 x 2 3 × 2, 2-1/2, 76.1 mm 4 × 2, 2-1/2, 3, 76.1 mm 6 x 3, 4 76.1 mm x 2 139.7 mm x 3, 4 165.1 mm x 3, 4, 139.7 mm 216.3 mm x 4, 139.7, 165.1 mm 267.4 x 165.1 x 216.3 mm	300 (2070)	e
SS-21F	Reducing Tee Grooved x Threaded (Thread Branch End)	3 × 2 4 × 2	300 (2070)	e
SS-50	Concentric Reducer Grooved	2-1/2 × 2 3 × 2, 2-1/2, 76.1 mm 4 × 2, 2-1/2, 3, 76.1 mm 6 x 3, 4 76.1 mm x 2 139.7 mm x 3, 4 165.1 mm x 3, 4, 139.7 mm 216.3 mm x 4, 139.7, 165.1 mm 267.4 x 165.1, 216.3 318.5 x 216.3, 267.4 mm	300 (2070)	e
SS-50F	Concentric Reducer Grooved x Threaded (with threaded end)	2-1/2 × 2 3×2 4×2	300 (2070)	e

Remarks:
a. Provides a rigid transition between flanged components and a grooved system.
b. Min schedule cut groove pipe to be joined: 8 inches or smaller – Schedule 40.
c. Min schedule rolled groove pipe to be joined: 8 inches or smaller – Schedule 10.
d. EPDM gasket.
e. Stainless steel material.
j. Copper Material.

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://shurjoint.com
New/Updated Product Listing:	No
Listing Country:	Taiwan
Certification Type:	FM Approved
Primary Class of Work:	1920-Coupling & Fitting, All Type

Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

Unless otherwise noted, these couplings are limited to use with rolled or cut groove-ended pipe, valves and fittings, at a minimum rated working pressure of 175 psi (1205 kPa) and are suitable for aboveground service. Higher rated pressures are noted in the text of the listing. Selection of pipe schedules for use with grooved pipe couplings should be made according to applicable FM Global Property Loss Prevention Data Sheets installation standards. These pipe schedules determine system pressure ratings and may take precedence over the higher rated working pressures listed for some couplings.

Installation must be made according to the manufacturer's instructions and requirements. Where couplings are used to join FM Approved pipe, the pipe manufacturer's installation instructions and requirements must also be observed. Grooves should be made according to ANSI/AWWA C606 (latest edition), "Grooved and Shouldered Joints", unless otherwise specified.

FM Approved grooved pipe couplings joining steel pipe may be used in underground service, subject to the installation restrictions placed upon the pipe and to the coupling manufacturer's recommendations and requirements.

Unless otherwise stated in the listing, these couplings have been evaluated for a maximum ambient temperature of 225°F (107°C), suitable for use in normal warehouse protection. For special applications, temperatures, or environments, the manufacturer's recommendations and requirements are to be followed.

Grooved Couplings, Standard-Flexible

These couplings join pipe, valves or fittings having equal nominal-sized diameters.

Model SS-8

	SS-8 [a, b]																					
	Nominal Pipe Size																					
Pipe Description	**1 (33.4)**	**1-1/4 (42.7)**	**1-1/2 (48.3)**	**2 (60.3)**	**2-1/2 (73.1)**	**(76.1)**	**3 (88.9)**	**(108.0)**	**4 (114.3)**	**(133.0)**	**(139.7)**	**5 (141.3)**	**(159.0)**	**(165.1)**	**6 (168.3)**	**8 (219.1)**	**10 (273.0)**	**12 (323.9)**	**14 (355.6)**	**16 (406.4)**	**18 (457.2)**	**20 (508.0)**	**24 (610.**
Schedule 40, Cut Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 40, Roll Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 30, Cut Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 30, Rolled Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ThinWall Pipes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "XL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "BLT"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bull Moose Tube, "EDDY-Thread 40"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blue Steel, "Rapid-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "Mega-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "GL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "MLT"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "WLS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Youngstown Tube, "EZ-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 10, Rolled Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lightwall Pipes, Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BlueSteel, "Fire Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDY-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDYlite"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Northwest Tube, "EZ-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tex Tube Co., "Tex Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Welded Tube Berkley, "Steady-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "Mega-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wupperman, "Gal-7"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Yieh Phui Enterprise, State Pipe, "SPS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Youngstown Tube,"Fire-Flo"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 5 Pipe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.188 in. wall Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tai Feng Qiao Metal Products "Flow II"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
"Fire-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BS 1387 medium or heavy grade	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "XL-II"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Central "TL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "WST"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IDOD Systems "Gal-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bull Moose "Ultra-EDDY"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:
a. FM Approved when supplied with an EPDM Gasket
b. Stainless Steel

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://shurjoint.com
New/Updated Product Listing:	No
Listing Country:	Taiwan
Certification Type:	FM Approved
Primary Class of Work:	1920-Coupling & Fitting, All Type

Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

Unless otherwise noted, these couplings are limited to use with rolled or cut groove-ended pipe, valves and fittings, at a minimum rated working pressure of 175 psi (1205 kPa) and are suitable for aboveground service. Higher rated pressures are noted in the text of the listing. Selection of pipe schedules for use with grooved pipe couplings should be made according to applicable FM Global Property Loss Prevention Data Sheets installation standards. These pipe schedules determine system pressure ratings and may take precedence over the higher rated working pressures listed for some couplings.

Installation must be made according to the manufacturer's instructions and requirements. Where couplings are used to join FM Approved pipe, the pipe manufacturer's installation instructions and requirements must also be observed. Grooves should be made according to ANSI/AWWA C606 (latest edition), "Grooved and Shouldered Joints", unless otherwise specified.

FM Approved grooved pipe couplings joining steel pipe may be used in underground service, subject to the installation restrictions placed upon the pipe and to the coupling manufacturer's recommendations and requirements.

Unless otherwise stated in the listing, these couplings have been evaluated for a maximum ambient temperature of 225°F (107°C), suitable for use in normal warehouse protection. For special applications, temperatures, or environments, the manufacturer's recommendations and requirements are to be followed.

Grooved Couplings, Reducing-Flexible

These couplings join pipe, valves or fittings having different nominal pipe diameters.

7706

Product Designation	*Nominal Pipe Size, in.*	*Pipe Ends*	*Remarks*	*Max Working Pressure, psi (kPa)*
7706	2 x 1 1⁄2, 3 OD x 2, 2 1⁄2 x 2, 3 x 2, 3 x 2 1⁄2, 3 x 3 OD, 4 x 2, 4 x 2 1⁄2, 4 x 3 OD, 4 x 3, 5 x 4, 5 1⁄2 OD x 4, 6 1⁄2 OD x 3, 6 x 3, 6 1⁄2 OD x 4, 6 x 4, 8 x 6, 8 x 6 1⁄2 OD	Rolled Groove Cut Groove	a, b, c	300 (2070)

a. Min schedule cut groove pipe to be joined: 8 in. or smaller - Schedule 40.
b. Min schedule Rolled groove pipe to be joined: 8 in. or smaller - Schedule 10.
c. EN 10255 Medium Steel Pipe.

Company Name:	Shurjoint Metals Inc

Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://shurjoint.com
New/Updated Product Listing:	No
Listing Country:	Taiwan
Certification Type:	FM Approved
Primary Class of Work:	1920-Coupling & Fitting, All Type

Indicating Valves, Butterfly or Ball Type

Design features provide a dependable visible indication of the open position even at a distance. If excessive force is applied to the handle, weakness-joints will break so as to preserve correct orientation between indicator and valve position. Valve and indicator parts are so designed that they can be assembled only one way, always to give correct indication. All FM Approved indicating valves turn clockwise to shut. They are small, lightweight, and, because of a resilient seat, are easy to operate. They are not subject to sticking or dropped gates. They are not recommended for throttling service. Unless otherwise noted in the listing, these valves have 175 psi (1205 kPa) rated working pressure.

Model No. SJ-300F

Model Number	*Product Type*	*Nominal Pipe Size in (mm)*	*Rated Working Pressure, psi (kPa)*	*Remarks*
SJ-300F	Butterfly Valve, Grooved Ends	2½, 3, 4, 5, 6 (65, 80, 100, 125, 150)	300 (2070)	a, b, c

Remarks:
a. Available with dual supervisory switches.
b. FM Approved for indoor and outdoor service.
c. FM Approved for aboveground installations only.

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://shurjoint.com
New/Updated Product Listing:	No
Listing Country:	Taiwan
Certification Type:	FM Approved
Primary Class of Work:	1112-Indicating Valves

Pipe Fittings

These fittings are suitable for interconnecting piping, valves and other components in both wet and dry automatic sprinkler systems. Installation should be according to applicable sprinkler system fabrication rules. These rules limit the minimum size of sprinkler piping to 1 in., nominal. FM Approved pipe fittings of smaller sizes are intended for use as valve trim, gauge connections, and for other peripheral service. The water flow path of the sprinkler system cannot be designed using smaller sizes than 1 in., nominal. Unless otherwise noted in the listing, these fittings have 175 psi (1205 kPa) rated working pressure.

Threaded connections on fittings can be made to FM Approved threadable thinwall pipe or to Schedule 40 pipe. Refer to the "Steel Pipe" listings for a summary of the various types of FM Approved steel pipe suitable for threading or grooving."

The fittings manufacturer's installation instructions must be observed in all cases. When connections are made to FM Approved pipe, the pipe manufacturer's installation instructions must also be followed.

Unless otherwise stated below, the maximum ambient temperature to which these fittings should be subjected is 225°F (107°C).

Welded Pipe Outlets

A fitting that covers a hole in the side of a sprinkler pipe that is welded in place by a qualified welder. The largest outlet that may be installed on the run pipe is one size reduced. Rated working pressure is as specified in each listing.

Models 71, 72C, 72R, 74

Product Designation	*Fitting Description*	*Nominal Run Pipe Size, in.*	*Nominal Outlet Pipe Size, in.*	*Max Working Pressure, psi (kPa)*	*Remarks*
71	Welded Pipe Outlet Female Thread	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8	1/2	300 (2070)	a
		1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8	3/4		
		1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8	1		
		1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8	1-1/4		
		2, 2-1/2, 3, 4, 5, 6, 8	1-1/2		
		2-1/2, 3, 4, 5, 6, 8	2		
		3, 4, 5, 6, 8	2-1/2		
		4, 5, 6, 8	3		
		5, 6, 8	4		
72C	Welded Pipe Outlet Cut-Groove	2-1/2, 3, 4, 5, 6, 8	2	300 (2070)	
		3, 4, 5, 6, 8	2-1/2		
		4, 5, 6, 8	3		
		5, 6, 8	4		
		8	6		
		10	8		
72R	Welded Pipe Outlet Rolled Groove	1-1/2, 2, 2-1/2, 3, 4, 5, 8	1-1/4	300 (2070)	a
		2, 2-1/2, 3, 4, 6, 8	1-1/2		
		2-1/2, 3, 4, 5, 6, 8	2		
		3, 4, 5, 6, 8	2-1/2		
		4, 5, 6, 8	3		
		5, 6, 8	4		

74	Welded Pipe Outlet Universal Threaded Outlet	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8	1/2	300 (2070)	a
		1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8	3/4		
		1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8	1		

Remarks:
a . Outlet connection achieved by welding fitting to pipe. Requires precutting of hole in pipe.

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://shurjoint.com
New/Updated Product Listing:	No
Listing Country:	Taiwan
Certification Type:	FM Approved
Primary Class of Work:	1920-Coupling & Fitting, All Type

Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

Unless otherwise noted, these couplings are limited to use with rolled or cut groove-ended pipe, valves and fittings, at a minimum rated working pressure of 175 psi (1205 kPa) and are suitable for aboveground service. Higher rated pressures are noted in the text of the listing. Selection of pipe schedules for use with grooved pipe couplings should be made according to applicable FM Global Property Loss Prevention Data Sheets installation standards. These pipe schedules determine system pressure ratings and may take precedence over the higher rated working pressures listed for some couplings.

Installation must be made according to the manufacturer's instructions and requirements. Where couplings are used to join FM Approved pipe, the pipe manufacturer's installation instructions and requirements must also be observed. Grooves should be made according to ANSI/AWWA C606 (latest edition), "Grooved and Shouldered Joints", unless otherwise specified.

FM Approved grooved pipe couplings joining steel pipe may be used in underground service, subject to the installation restrictions placed upon the pipe and to the coupling manufacturer's recommendations and requirements.

Unless otherwise stated in the listing, these couplings have been evaluated for a maximum ambient temperature of 225°F (107°C), suitable for use in normal warehouse protection. For special applications, temperatures, or environments, the manufacturer's recommendations and requirements are to be followed.

Grooved Couplings, Standard-Rigid

These couplings join pipe, valves or fittings having equal diameters.

Figure SS-7X

Pipe Description	*Rated Working Pressures for Figure SS-7X Rigid Coupling by Pipe* [a, b, c]																								
	Nominal Pipe Size																								
	1 (33.7)	*1-1/4 (42.7)*	*1-1/2 (48.3)*	*2 (60.3)*	*2-1/2 (73.1)*	*(76.1)*	*3 (88.9)*	*(108)*	*4 (114.3)*	*(133)*	*(139.7)*	*5 (141.3)*	*(159)*	*(165.1)*	*6 (168.3)*	*(216.3)*	*8 (219.1)*	*(267.4)*	*10 (273)*	*(318.5)*	*12 (323.9)*	*(355.6)*	*(406.4)*	*(457.2)*	*(508)*	*(609.6)*
Schedule 80, Cut Groove																									250 (1725)
Schedule 40, Cut Groove																		300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	
Schedule 40, Roll Groove																									
Schedule 30, Cut Groove																									
Schedule 30, Rolled Groove																									
Thinwall Pipes, Rolled Groove																									
Schedule 10, Rolled Groove																									
Schedule 10, Swage Groove																									
Lightwall Pipes, Rolled Groove																									
Lightwall Pipes, Swage Groove																									
Schedule 5 Pipe, Rolled Groove																									

Remarks:
a.) Minimum schedule cut groove Stainless Steel pipe to be joined: 6 inch or smaller, Schedule 40; 8 inch or larger, Schedule 30
b.) Minimum schedule rolled groove Stainless Steel pipe to be joined: 6 inch or smaller, Schedule 10; 8, 10, 12 inch - 0.188 inch (5 mm) wall.
c.) All couplings in table above, Approved when supplied with an EDPM gasket.

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://shurjoint.com
New/Updated Product Listing:	No
Listing Country:	Taiwan
Certification Type:	FM Approved
Primary Class of Work:	1920-Coupling & Fitting, All Type

Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

Unless otherwise noted, these couplings are limited to use with rolled or cut groove-ended pipe, valves and fittings, at a minimum rated working pressure of 175 psi (1205 kPa) and are suitable for aboveground service. Higher rated pressures are noted in the text of the listing. Selection of pipe schedules for use with grooved pipe couplings should be made according to applicable FM Global Property Loss Prevention Data Sheets installation standards. These pipe schedules determine system pressure ratings and may take precedence over the higher rated working pressures listed for some couplings.

Installation must be made according to the manufacturer's instructions and requirements. Where couplings are used to join FM Approved pipe, the pipe manufacturer's installation instructions and requirements must also be observed. Grooves should be made according to ANSI/AWWA C606 (latest edition), "Grooved and Shouldered Joints", unless otherwise specified.

FM Approved grooved pipe couplings joining steel pipe may be used in underground service, subject to the installation restrictions placed upon the pipe and to the coupling manufacturer's recommendations and requirements.

Unless otherwise stated in the listing, these couplings have been evaluated for a maximum ambient temperature of 225°F (107°C), suitable for use in normal warehouse protection. For special applications, temperatures, or environments, the manufacturer's recommendations and requirements are to be followed.

Grooved Split Flanges-Flexible

Split Flanged-These fittings join pipe, valves or fittings having equal diameters.

7041, 7043, SS-41

Product Designation	*Fitting Description*	*Nominal Pipe Size, in.*	*Remarks*	*Max Working Pressure, psi (kPa)*
7041	Split Flange	2, 2 1⁄2, 3, 4, 5, 6, 8	b, c, d	300 (2070)
7041	Split Flange	2, 2 1⁄2, 3, 4	d, e	300 (2070)
7041	Split Flange	2 1⁄2, 4	a, d	175 (1205)
7041	Split Flange	10, 12	d	175 (1205)
7041	Split Flange	14, 16, 24	d	175 (1205)
7043	Split Flange ANSI Class 300	2, 2 1⁄2, 3, 4, 5, 6, 8, 10, 12	d	300 (2070)
SS-41	Split Flange ANSI 125/150	2, 2 1⁄2, 3, 4, 6	d, e	300 (2070)

Remarks:
a. British Standard BS 1387 medium or heavy pipe.
b. Min schedule cut groove pipe to be joined: 8 in. or smaller Schedule 40.
c. Min schedule rolled groove pipe to be joined: 8 in. or smaller Schedule 10.
d. EPDM gasket.
e. Stainless steel material.

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://shurjoint.com
New/Updated Product Listing:	No

Listing Country:	Taiwan
Certification Type:	FM Approved
Primary Class of Work:	1920-Coupling & Fitting, All Type

Single Check Valves

Single check valves are used in fire protection systems to allow waterflow in one direction only. Typical applications are at connections between public water supplies and private fire service systems, at the discharge from fire pumps, at gravity tank connections and at fire service pumper connections.

Valves identified in the listing by a single asterisk (*) have side covers; valves identified by a double asterisk (**) have no removable covers; others have top covers. Clearance must be provided for side-cover valves to permit clapper removal. Valves without covers must be removed from the system for clapper replacement or repair. Unless otherwise noted in the listing, these valves have 175 psi (1205 kPa) rated working pressure.

453U, RCV

Product Designation	*Description*	*Nominal Pipe Size, in.*	*Max Working Pressure, psi (kPa)*	*Remarks*
453U	Dual Plate Check Valve Grooved Ends	3, 4, 6, 8	200 (1380)	a, b
RCV	Swing Check Valve Grooved ends	2 1⁄2, 3, 4, 6	300 (2070)	a

Remarks:
a. Resilient Seat.
b. No removable covers.

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://shurjoint.com
New/Updated Product Listing:	No
Listing Country:	Taiwan
Certification Type:	FM Approved
Primary Class of Work:	1210-Single Check Valves

Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

Unless otherwise noted, these couplings are limited to use with rolled or cut groove-ended pipe, valves and fittings, at a minimum rated working pressure of 175 psi (1205 kPa) and are suitable for aboveground service. Higher rated pressures are noted in the text of the listing. Selection of pipe schedules for use with grooved pipe couplings should be made according to applicable FM Global Property Loss Prevention Data Sheets installation standards. These pipe schedules determine system pressure ratings and may take precedence over the higher rated working pressures listed for some couplings.

Installation must be made according to the manufacturer's instructions and requirements. Where couplings are used to join FM Approved pipe, the pipe manufacturer's installation instructions and requirements must also be observed. Grooves should be made according to ANSI/AWWA C606 (latest edition), "Grooved and Shouldered Joints", unless otherwise specified.

FM Approved grooved pipe couplings joining steel pipe may be used in underground service, subject to the installation restrictions placed upon the pipe and to the coupling manufacturer's recommendations and requirements.

Unless otherwise stated in the listing, these couplings have been evaluated for a maximum ambient temperature of 225°F (107°C), suitable for use in normal warehouse protection. For special applications, temperatures, or environments, the manufacturer's recommendations and requirements are to be followed.

Grooved Couplings, Standard-Rigid

These couplings join pipe, valves or fittings having equal diameters.

K-9

	K-9 [a, b]																			
	Nominal Pipe Size																			
Pipe Description	**1 (33.4)**	**1-1/4 (42.7)**	**1-1/2 (48.3)**	**2 (60.3)**	**2-1/2 (73.1)**	**(76.1)**	**3 (88.9)**	**(108.0)**	**4 (114.3)**	**(133.0)**	**(139.7)**	**5 (141.3)**	**(159.0)**	**(165.1)**	**6 (168.3)**	**8 (219.1)**	**10 (273.0)**	**12 (323.9)**	**14 (355.6)**	**16 (406.4)**
Schedule 40, Cut Groove	N/A	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	300 (2070)	N/A	N/A	N/A	N/A
Schedule 40, Roll Groove	N/A	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	300 (2070)	N/A	N/A	N/A	N/A
Schedule 30, Cut Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A
Schedule 30, Rolled Groove	N/A	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	300 (2070)	N/A	N/A	N/A	N/A
ThinWall Pipes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "XL"	N/A	175 (1205)	175 (1205)	175 (1205)	175 (1205)	N/A	175 (1205)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "BLT"	N/A	175 (1205)	175 (1205)	175 (1205)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Thread"	N/A	175 (1205)	175 (1205)	175 (1205)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bull Moose Tube, "EDDY-Thread 40"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blue Steel, "Rapid-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "Mega-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "GL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "MLT"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "WLS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Youngstown Tube, "EZ-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 10, Rolled Groove	N/A	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	300 (2070)	N/A	N/A	N/A	N/A
Lightwall Pipes, Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Flow"	N/A	300(2070)	300(2070)	300(2070)	300(2070)	N/A	300(2070)	N/A	300(2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BlueSteel, "Fire Flow"	N/A	175 (1205)	175 (1205)	N/A	N/A	N/A	N/A	N/A	175 (1205)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDY-Flow"	N/A	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDYlite"	N/A	175 (1205)	175 (1205)	175 (1205)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Northwest Tube, "EZ-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tex Tube Co., "Tex Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

18 (457.2)	20 (508.0)	24 (610.0)
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Welded Tube Berkley, "Steady-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "Mega-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wupperman, "Gal-7"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Yieh Phui Enterprise, State Pipe, "SPS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Youngstown Tube,"Fire-Flo"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 5 Pipe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.188 in. wall Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A
Tai Feng Qiao Metal Products "Flow II"	N/A	N/A	300 (2070)	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
"Fire-Thread"	N/A	N/A	300 (2070)	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BS 1387 medium or heavy grade	N/A	175 (1205)	175 (1205)	175 (1205)	N/A	300 (2070)	175 (1205)	N/A	175 (1205)	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "XL-II"	N/A	175 (1205)	175 (1205)	175 (1205)	175 (1205)	N/A	175 (1205)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "WST"	N/A	175 (1205)	175 (1205)	175 (1205)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IDOD Systems "Gal-5"	N/A	175 (1205)	175 (1205)	175 (1205)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bull Moose "Ultra-EDDY"	N/A	175 (1205)	175 (1205)	175 (1205)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Super 40"	N/A	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Super-XL"	N/A	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:
a. FM Approved when supplied with an EPDM Gasket
b. For installation where greater rigidity of pipe system is required. Not for use as flexible joints in locations subject to earthquake.

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://www.shurjoint.com
New/Updated Product Listing:	Yes
Listing Country:	Taiwan
Certification Type:	FM Approved

N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

Unless otherwise noted, these couplings are limited to use with rolled or cut groove-ended pipe, valves and fittings, at a minimum rated working pressure of 175 psi (1205 kPa) and are suitable for aboveground service. Higher rated pressures are noted in the text of the listing. Selection of pipe schedules for use with grooved pipe couplings should be made according to applicable FM Global Property Loss Prevention Data Sheets installation standards. These pipe schedules determine system pressure ratings and may take precedence over the higher rated working pressures listed for some couplings.

Installation must be made according to the manufacturer's instructions and requirements. Where couplings are used to join FM Approved pipe, the pipe manufacturer's installation instructions and requirements must also be observed. Grooves should be made according to ANSI/AWWA C606 (latest edition), "Grooved and Shouldered Joints", unless otherwise specified.

FM Approved grooved pipe couplings joining steel pipe may be used in underground service, subject to the installation restrictions placed upon the pipe and to the coupling manufacturer's recommendations and requirements.

Unless otherwise stated in the listing, these couplings have been evaluated for a maximum ambient temperature of 225°F (107°C), suitable for use in normal warehouse protection. For special applications, temperatures, or environments, the manufacturer's recommendations and requirements are to be followed.

Grooved Couplings, Standard-Rigid

These couplings join pipe, valves or fittings having equal diameters.

K-9H

	K-9H [a]																						
	Nominal Pipe Size																						
Pipe Description	**1 (33.4)**	**1-1/4 (42.7)**	**1-1/2 (48.3)**	**2 (60.3)**	**2-1/2 (73.1)**	**(76.1)**	**3 (88.9)**	**(108.0)**	**4 (114.3)**	**(133.0)**	**(139.7)**	**5 (141.3)**	**(159.0)**	**(165.1)**	**6 (168.3)**	**8 (219.1)**	**10 (273.0)**	**12 (323.9)**	**14 (355.6)**	**16 (406.4)**	**18 (457.2)**	**20 (508.0)**	**24 (610.0)**
Schedule 40, Cut Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 40, Roll Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 30, Cut Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 30, Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ThinWall Pipes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "XL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "BLT"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bull Moose Tube, "EDDY-Thread 40"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blue Steel, "Rapid-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "Mega-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "GL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "MLT"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "WLS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Youngstown Tube, "EZ-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 10, Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lightwall Pipes, Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BlueSteel, "Fire Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDY-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDYlite"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Northwest Tube, "EZ-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tex Tube Co., "Tex Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Welded Tube Berkley, "Steady-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "Mega-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wupperman, "Gal-7"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Yieh Phui Enterprise, State Pipe, "SPS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Youngstown Tube,"Fire-Flo"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 5 Pipe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.188 in. wall Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tai Feng Qiao Metal Products "Flow II"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
"Fire-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BS 1387 medium or heavy grade	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "XL-II"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Central "TL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "WST"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IDOD Systems "Gal-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bull Moose "Ultra-EDDY"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:
a. FM Approved when supplied with an EPDM Gasket

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://www.shurjoint.com
New/Updated Product Listing:	Yes
Listing Country:	Taiwan
Certification Type:	FM Approved

Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

Unless otherwise noted, these couplings are limited to use with rolled or cut groove-ended pipe, valves and fittings, at a minimum rated working pressure of 175 psi (1205 kPa) and are suitable for aboveground service. Higher rated pressures are noted in the text of the listing. Selection of pipe schedules for use with grooved pipe couplings should be made according to applicable FM Global Property Loss Prevention Data Sheets installation standards. These pipe schedules determine system pressure ratings and may take precedence over the higher rated working pressures listed for some couplings.

Installation must be made according to the manufacturer's instructions and requirements. Where couplings are used to join FM Approved pipe, the pipe manufacturer's installation instructions and requirements must also be observed. Grooves should be made according to ANSI/AWWA C606 (latest edition), "Grooved and Shouldered Joints", unless otherwise specified.

FM Approved grooved pipe couplings joining steel pipe may be used in underground service, subject to the installation restrictions placed upon the pipe and to the coupling manufacturer's recommendations and requirements.

Unless otherwise stated in the listing, these couplings have been evaluated for a maximum ambient temperature of 225°F (107°C), suitable for use in normal warehouse protection. For special applications, temperatures, or environments, the manufacturer's recommendations and requirements are to be followed.

Grooved Couplings, Standard-Rigid

These couplings join pipe, valves or fittings having equal diameters.

7771

	7771 a, b																						
	Nominal Pipe Size, in. (mm)																						
Pipe Description	**1 (33.4)**	**1-1/4 (42.7)**	**1-1/2 (48.3)**	**2 (60.3)**	**2-1/2 (73.1)**	**(76.1)**	**3 (88.9)**	**(108.0)**	**4 (114.3)**	**(133.0)**	**(139.7)**	**5 (141.3)**	**(159.0)**	**(165.1)**	**6 (168.3)**	**8 (219.1)**	**10 (273.0)**	**12 (323.9)**	**14 (355.6)**	**16 (406.4)**	**18 (457.2)**	**20 (508.0)**	**22 (559.0**
Schedule 40, Cut Groove	—	—	500 (3443)	300 (2070)	300 (2070)	—	300 (2070)	—	300 (2070)	—	—	300 (2070)	—	—	300 (2070)	300 (2070)	200 (1375)	300 (2070)	175 (1205)	175 (1205)	175 (1205)	175 (1205)	175 (1205)
Schedule 40, Roll Groove	—	—	500 (3443)	300 (2070)	300 (2070)	—	300 (2070)	—	300 (2070)	—	—	300 (2070)	—	—	300 (2070)	300 (2070)	200 (1375)	300 (2070)	—	—	—	—	—
Schedule 30, Cut Groove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	300 (2070)	200 (1375)	300 (2070)	175 (1205)	175 (1205)	175 (1205)	175 (1205)	175 (1205)
Schedule 30, Rolled Groove	—	—	500 (3443)	300 (2070)	300 (2070)	—	300 (2070)	—	300 (2070)	—	—	300 (2070)	—	—	300 (2070)	300 (2070)	200 (1375)	300 (2070)	—	—	—	—	—
ThinWall Pipes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Allied Tube & Conduit, "XL"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Allied Tube & Conduit, "BLT"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Allied Tube & Conduit, "Dyna-Thread"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bull Moose Tube, "EDDY-Thread 40"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Blue Steel, "Rapid-Thread"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wheatland Tube, "Mega-Thread"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wheatland Tube, "GL"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wheatland Tube, "MLT"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wheatland Tube, "WLS"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Youngstown *Tube, "EZ-Thread"*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Schedule 10, Rolled Groove	—	—	500 (3443)	300 (2070)	300 (2070)	—	300 (2070)	—	300 (2070)	—	—	300 (2070)	—	—	300 (2070)	300 (2070)	—	—	—	—	—	—	—
Lightwall Pipes, Rolled Groove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Allied Tube & Conduit, "Dyna-Flow"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BlueSteel, "Fire Flow"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bullmoose Tube, "EDDY-Flow"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bullmoose Tube, "EDDYlite"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Northwest Tube, "EZ-Flow"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tex Tube Co., "Tex Flow"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Welded Tube Berkley, "Steady-Flow"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wheatland Tube, "Mega-Flow"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wupperman, "Gal-7"	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—		—	—
Yieh Phui Enterprise, State Pipe, "SPS"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Youngstown Tube,"Fire-Flo"	—	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—
Schedule 5 Pipe	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—
0.188 in. wall Rolled Groove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	300 (2070)	200 (1375)	300 (2070)	—	—	—	—	—	—
Tai Feng Qiao Metal Products "Flow II"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
"Fire-Thread"	—	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—		—	—		
BS 1387 medium or heavy grade	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Allied Tube & Conduit, "XL-II"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Central "TL"	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wheatland Tube, "WST"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—
IDOD Systems "Gal-5"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bull Moose "Ultra-EDDY"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Schedule 20 Pipe	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	200 (1375)	—	—	—	—	—	175 (1205

Remarks:
a. FM Approved when supplied with an EPDM Gasket
b. For installation where greater rigidity of pipe system is required. Not for use as flexible joints in locations subject to earthquake.
c. Stainless Steel

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://www.shurjoint.com
New/Updated Product Listing:	Yes
Listing Country:	Taiwan
Certification Type:	FM Approved

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)	175 (1205)

Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

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Grooved Couplings, Standard-Rigid

These couplings join pipe, valves or fittings having equal diameters.

R20

	R20 [a]																						
	Nominal Pipe Size																						
Pipe Description	**1 (33.4)**	**1-1/4 (42.7)**	**1-1/2 (48.3)**	**2 (60.3)**	**2-1/2 (73.1)**	**(76.1)**	**3 (88.9)**	**(108.0)**	**4 (114.3)**	**(133.0)**	**(139.7)**	**5 (141.3)**	**(159.0)**	**(165.1)**	**6 (168.3)**	**8 (219.1)**	**10 (273.0)**	**12 (323.9)**	**14 (355.6)**	**16 (406.4)**	**18 (457.2)**	**20 (508.0)**	**24 (610.**
Schedule 40, Cut Groove	N/A	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 40, Roll Groove	N/A	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 30, Cut Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 30, Rolled Groove	N/A	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ThinWall Pipes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "XL"	N/A	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "BLT"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bull Moose Tube, "EDDY-Thread 40"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blue Steel, "Rapid-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "Mega-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "GL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "MLT"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "WLS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Youngstown Tube, "EZ-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 10, Rolled Groove	N/A	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lightwall Pipes, Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Flow"	N/A	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BlueSteel, "Fire Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDY-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDYlite"	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Northwest Tube, "EZ-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tex Tube Co., "Tex Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Welded Tube Berkley, "Steady-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "Mega-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wupperman, "Gal-7"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Yieh Phui Enterprise, State Pipe, "SPS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Youngstown Tube,"Fire-Flo"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 5 Pipe	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.188 in. wall Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tai Feng Qiao Metal Products "Flow II"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
"Fire-Thread"	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BS 1387 medium or heavy grade	N/A	N/A	N/A	300 (2070)	N/A	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "XL-II"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Central "TL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "WST"	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IDOD Systems "Gal-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bull Moose "Ultra-EDDY"	N/A	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Super-Flo"	N/A	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Super 40"	N/A	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Super-XL"	N/A	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:
a. FM Approved when supplied with an EPDM Gasket

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://www.shurjoint.com
New/Updated Product Listing:	Yes
Listing Country:	Taiwan
Certification Type:	FM Approved

Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

Unless otherwise noted, these couplings are limited to use with rolled or cut groove-ended pipe, valves and fittings, at a minimum rated working pressure of 175 psi (1205 kPa) and are suitable for aboveground service. Higher rated pressures are noted in the text of the listing. Selection of pipe schedules for use with grooved pipe couplings should be made according to applicable FM Global Property Loss Prevention Data Sheets installation standards. These pipe schedules determine system pressure ratings and may take precedence over the higher rated working pressures listed for some couplings.

Installation must be made according to the manufacturer's instructions and requirements. Where couplings are used to join FM Approved pipe, the pipe manufacturer's installation instructions and requirements must also be observed. Grooves should be made according to ANSI/AWWA C606 (latest edition), "Grooved and Shouldered Joints", unless otherwise specified.

FM Approved grooved pipe couplings joining steel pipe may be used in underground service, subject to the installation restrictions placed upon the pipe and to the coupling manufacturer's recommendations and requirements.

Unless otherwise stated in the listing, these couplings have been evaluated for a maximum ambient temperature of 225°F (107°C), suitable for use in normal warehouse protection. For special applications, temperatures, or environments, the manufacturer's recommendations and requirements are to be followed.

Grooved Couplings, Standard-Rigid

These couplings join pipe, valves or fittings having equal diameters.

Figure SS-7

Pipe Description	Rated Working Pressures for Figure SS-7 Rigid Coupling by Pipe [a, b, c]																
	Nominal Pipe Size																
	1 (33.7)	1-1/4 (42.7)	1-1/2 (48.3)	2 (60.3)	2-1/2 (73.1)	(76.1)	3 (88.9)	(108)	4 (114.3)	(133)	(139.7)	5 (141.3)	(159)	(165.1)	6 (168.3)	(216.3)	8 (219
Schedule 40, Cut Groove		300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)		300 (2070)	300 (2070)		300 (2070)	300 (2070)	300 (2070)	30 (207
Schedule 40, Roll Groove		300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)		300 (2070)		300 (2070)	300 (2070)		300 (2070)	300 (2070)	300 (2070)	30 (207
Schedule 30, Cut Groove																	
Schedule 30, Rolled Groove		300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	30 (207
Thinwall Pipes, Rolled Groove																	
Schedule 10, Rolled Groove		300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	
Lightwall Pipes, Rolled Groove																	
Schedule 5 Pipe, Rolled Groove																	
0.188 in. wall Rolled Groove																	30 (207

Remarks:
a.) Minimum schedule cut groove Stainless Steel pipe to be joined: 6 inch or smaller, Schedule 40; 8 inch or larger, Schedule 30
b.) Minimum schedule rolled groove Stainless Steel pipe to be joined: 6 inch or smaller, Schedule 10; 8, 10, 12 inch - 0.188 inch (5 mm) wall
c.) All couplings in table above, Approved when supplied with an EDPM gasket

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://www.shurjoint.com
New/Updated Product Listing:	Yes
Listing Country:	Taiwan
Certification Type:	FM Approved

Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

Unless otherwise noted, these couplings are limited to use with rolled or cut groove-ended pipe, valves and fittings, at a minimum rated working pressure of 175 psi (1205 kPa) and are suitable for aboveground service. Higher rated pressures are noted in the text of the listing. Selection of pipe schedules for use with grooved pipe couplings should be made according to applicable FM Global Property Loss Prevention Data Sheets installation standards. These pipe schedules determine system pressure ratings and may take precedence over the higher rated working pressures listed for some couplings.

Installation must be made according to the manufacturer's instructions and requirements. Where couplings are used to join FM Approved pipe, the pipe manufacturer's installation instructions and requirements must also be observed. Grooves should be made according to ANSI/AWWA C606 (latest edition), "Grooved and Shouldered Joints", unless otherwise specified.

FM Approved grooved pipe couplings joining steel pipe may be used in underground service, subject to the installation restrictions placed upon the pipe and to the coupling manufacturer's recommendations and requirements.

Unless otherwise stated in the listing, these couplings have been evaluated for a maximum ambient temperature of 225°F (107°C), suitable for use in normal warehouse protection. For special applications, temperatures, or environments, the manufacturer's recommendations and requirements are to be followed.

Grooved Couplings, Standard-Rigid

These couplings join pipe, valves or fittings having equal diameters.

Z05

	Z05 a															
	Nominal Pipe Size															
Pipe Description	***1 (33.4)***	***1-1/4 (42.7)***	***1-1/2 (48.3)***	***2 (60.3)***	***2-1/2 (73.1)***	***(76.1)***	***3 (88.9)***	***(108.0)***	***4 (114.3)***	***(133.0)***	***(139.7)***	***5 (141.3)***	***(159.0)***	***(165.1)***	***6 (168.3)***	***8 (219.1)***
Schedule 40, Cut Groove	N/A	350 (2410)	350 (2410)	350 (2410)	350 (2410)	N/A	350 (2410)	N/A	350 (2410)	N/A	N/A	350 (2410)	N/A	N/A	350 (2410)	350 (2410)
Schedule 40, Roll Groove	N/A	350 (2410)	350 (2410)	350 (2410)	350 (2410)	N/A	350 (2410)	N/A	350 (2410)	N/A	N/A	350 (2410)	N/A	N/A	350 (2410)	350 (2410)
Schedule 30, Cut Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	350 (2410)
Schedule 30, Rolled Groove	N/A	350 (2410)	350 (2410)	350 (2410)	350 (2410)	N/A	350 (2410)	N/A	350 (2410)	N/A	N/A	350 (2410)	N/A	N/A	350 (2410)	350 (2410)
ThinWall Pipes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "XL"	N/A	350 (2410)	350 (2410)	350 (2410)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 10, Rolled Groove	N/A	350 (2410)	350 (2410)	350 (2410)	350 (2410)	N/A	350 (2410)	N/A	350 (2410)	N/A	N/A	350 (2410)	N/A	N/A	350 (2410)	350 (2410)
Lightwall Pipes, Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Flow"	N/A	N/A	N/A	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDY-Flow"	N/A	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "Mega-Flow"	N/A	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wupperman, "Gal-7"	N/A	N/A	175 (1205)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 5 Pipe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wuppermann Wgalweld 5	N/A	N/A	175 (1205)	N/A	N/A	N/A	175 (1205)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.188 in. wall Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	350 (2410)
BS 1387 medium or heavy grade	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

10 (273.0)	***12 (323.9)***
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A

Remarks:
a. FM Approved when supplied with an EPDM Gasket

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://www.shurjoint.com
New/Updated Product Listing:	Yes
Listing Country:	Taiwan
Certification Type:	FM Approved

Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

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FM Approved grooved pipe couplings joining steel pipe may be used in underground service, subject to the installation restrictions placed upon the pipe and to the coupling manufacturer's recommendations and requirements.

Unless otherwise stated in the listing, these couplings have been evaluated for a maximum ambient temperature of 225°F (107°C), suitable for use in normal warehouse protection. For special applications, temperatures, or environments, the manufacturer's recommendations and requirements are to be followed.

Grooved Couplings, Standard-Rigid

These couplings join pipe, valves or fittings having equal diameters.

Z07

	Z07 [a]																						
	Nominal Pipe Size																						
Pipe Description	**1 (33.4)**	**1-1/4 (42.7)**	**1-1/2 (48.3)**	**2 (60.3)**	**2-1/2 (73.1)**	**(76.1)**	**3 (88.9)**	**(108.0)**	**4 (114.3)**	**(133.0)**	**(139.7)**	**5 (141.3)**	**(159.0)**	**(165.1)**	**6 (168.3)**	**8 (219.1)**	**10 (273.0)**	**12 (323.9)**	**14 (355.6)**	**16 (406.4)**	**18 (457.2)**	**20 (508.0)**	**24 (610.**
Schedule 40, Cut Groove	N/A	500 (3443)	500 (3443)	500 (3443)	500 (3443)	N/A	500 (3443)	N/A	500 (3443)	N/A	N/A	400 (2760)	N/A	N/A	400 (2760)	400 (2760)	350 (2410)	350 (2410)	N/A	N/A	N/A	N/A	N/A
Schedule 40, Roll Groove	N/A	500 (3443)	500 (3443)	500 (3443)	500 (3443)	N/A	500 (3443)	N/A	500 (3443)	N/A	N/A	400 (2760)	N/A	N/A	400 (2760)	400 (2760)	350 (2410)	350 (2410)	N/A	N/A	N/A	N/A	N/A
Schedule 30, Cut Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	400 (2760)	350 (2410)	350 (2410)	N/A	N/A	N/A	N/A	N/A
Schedule 30, Rolled Groove	N/A	500 (3443)	500 (3443)	500 (3443)	500 (3443)	N/A	500 (3443)	N/A	500 (3443)	N/A	N/A	400 (2760)	N/A	N/A	400 (2760)	400 (2760)	350 (2410)	350 (2410)	N/A	N/A	N/A	N/A	N/A
ThinWall Pipes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "XL"	N/A	350 (2410)	350 (2410)	350 (2410)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "BLT"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bull Moose Tube, "EDDY-Thread 40"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blue Steel, "Rapid-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "Mega-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "GL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "MLT"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "WLS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Youngstown Tube, "EZ-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 10, Rolled Groove	N/A	500 (3443)	500 (3443)	500 (3443)	500 (3443)	N/A	500 (3443)	N/A	500 (3443)	N/A	N/A	400 (2760)	N/A	N/A	400 (2760)	400 (2760)	350 (2410)	350 (2410)	N/A	N/A	N/A	N/A	N/A
Lightwall Pipes, Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BlueSteel, "Fire Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDY-Flow"	N/A	350 (2410)	350 (2410)	350 (2410)	350 (2410)	N/A	350 (2410)	N/A	350 (2410)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDYlite"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Northwest Tube, "EZ-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tex Tube Co., "Tex Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Welded Tube Berkley, "Steady-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "Mega-Flow"	N/A	350 (2410)	350 (2410)	350 (2410)	350 (2410)	N/A	350 (2410)	N/A	350 (2410)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wupperman, "Gal-7"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Yieh Phui Enterprise, State Pipe, "SPS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Youngstown Tube,"Fire-Flo"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 5 Pipe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.188 in. wall Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	400 (2760)	350 (2410)	350 (2410)	N/A	N/A	N/A	N/A	N/A
Tai Feng Qiao Metal Products "Flow II"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
"Fire-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BS 1387 medium or heavy grade	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "XL-II"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Central "TL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "WST"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IDOD Systems "Gal-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bull Moose "Ultra-EDDY"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:
a. FM Approved when supplied with an EPDM Gasket

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://www.shurjoint.com
New/Updated Product Listing:	Yes
Listing Country:	Taiwan
Certification Type:	FM Approved

Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

Unless otherwise noted, these couplings are limited to use with rolled or cut groove-ended pipe, valves and fittings, at a minimum rated working pressure of 175 psi (1205 kPa) and are suitable for aboveground service. Higher rated pressures are noted in the text of the listing. Selection of pipe schedules for use with grooved pipe couplings should be made according to applicable FM Global Property Loss Prevention Data Sheets installation standards. These pipe schedules determine system pressure ratings and may take precedence over the higher rated working pressures listed for some couplings.

Installation must be made according to the manufacturer's instructions and requirements. Where couplings are used to join FM Approved pipe, the pipe manufacturer's installation instructions and requirements must also be observed. Grooves should be made according to ANSI/AWWA C606 (latest edition), "Grooved and Shouldered Joints", unless otherwise specified.

FM Approved grooved pipe couplings joining steel pipe may be used in underground service, subject to the installation restrictions placed upon the pipe and to the coupling manufacturer's recommendations and requirements.

Unless otherwise stated in the listing, these couplings have been evaluated for a maximum ambient temperature of 225°F (107°C), suitable for use in normal warehouse protection. For special applications, temperatures, or environments, the manufacturer's recommendations and requirements are to be followed.

Grooved Couplings, Standard-Flexible

These couplings join pipe, valves or fittings having equal nominal-sized diameters.

Model 7705

	7705 a															
	Nominal Pipe Size, in. (mm)															
Pipe Description	***1 (33.4)***	***1-1/4 (42.7)***	***1-1/2 (48.3)***	***2 (60.3)***	***2-1/2 (73.1)***	***(76.1)***	***3 (88.9)***	***(108.0)***	***4 (114.3)***	***(133.0)***	***(139.7)***	***5 (141.3)***	***(159.0)***	***(165.1)***	***6 (168.3)***	***8 (219.1)***
Schedule 40, Cut Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	300 (2070)
Schedule 40, Roll Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	300 (2070)
Schedule 30, Cut Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	300 (2070)
Schedule 30, Rolled Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	300 (2070)
ThinWall Pipes																
Allied Tube & Conduit, "XL"	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "BLT"	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Thread"	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 10, Rolled Groove	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A	300 (2070)	300 (2070)
Lightwall Pipes, Rolled Groove																
Allied Tube & Conduit, "Dyna-Flow"	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BlueSteel, "Fire Flow"	N/A	175 (1205)	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDY-Flow"	N/A	N/A	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDYlite"	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wupperman, "Gal-7"	175 (1205)	175 (1205)	175 (1205)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 5 Pipe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

10 (273.0)	***12 (323.9)***
250 (1720)	250 (1720)
175 (1205)	175 (1205)
250 (1720)	250 (1720)
175 (1205)	175 (1205)
N/A	N/A
N/A	N/A
N/A	N/A
175 (1205)	175 (1205)
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A

Wuppermann Wgalweld 5	175 (1205)	175 (1205)	175 (1205)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.188 in. wall Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	300 (2070)
0.250 in. wall Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
"Fire-Thread"	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BS 1387 medium or heavy grade	N/A	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	300 (2070)	N/A	N/A	300 (2070)	N/A	N/A
Allied Tube & Conduit, "XL-II"	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "WST"	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bull Moose "Ultra-EDDY"	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Super-XL"	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Super 40"	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	N/A	300 (2070)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:
a. FM Approved when supplied with an EPDM Gasket

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://www.shurjoint.com
New/Updated Product Listing:	Yes
Listing Country:	Taiwan
Certification Type:	FM Approved

N/A	N/A
175 (1205)	N/A
N/A	175 (1205)
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A

Grooved Couplings or Fittings

Grooved couplings are used to join pipe and fittings in both wet and dry sprinkler systems. Unless otherwise noted, these couplings are intended to provide some flexibility in piping systems. Typical applications are in sprinkler risers, in feed mains passing through walls from one building area to another, in locations subject to earthquakes, in the discharge line from aboveground pump suction tanks, in new connections to existing feed mains and in air or water fire service lines subject to excessive vibration or difficult alignment.

Unless otherwise noted, these couplings are limited to use with rolled or cut groove-ended pipe, valves and fittings, at a minimum rated working pressure of 175 psi (1205 kPa) and are suitable for aboveground service. Higher rated pressures are noted in the text of the listing. Selection of pipe schedules for use with grooved pipe couplings should be made according to applicable FM Global Property Loss Prevention Data Sheets installation standards. These pipe schedules determine system pressure ratings and may take precedence over the higher rated working pressures listed for some couplings.

Installation must be made according to the manufacturer's instructions and requirements. Where couplings are used to join FM Approved pipe, the pipe manufacturer's installation instructions and requirements must also be observed. Grooves should be made according to ANSI/AWWA C606 (latest edition), "Grooved and Shouldered Joints", unless otherwise specified.

FM Approved grooved pipe couplings joining steel pipe may be used in underground service, subject to the installation restrictions placed upon the pipe and to the coupling manufacturer's recommendations and requirements.

Unless otherwise stated in the listing, these couplings have been evaluated for a maximum ambient temperature of 225°F (107°C), suitable for use in normal warehouse protection. For special applications, temperatures, or environments, the manufacturer's recommendations and requirements are to be followed.

Grooved Couplings, Standard-Flexible

These couplings join pipe, valves or fittings having equal nominal-sized diameters.

Model 7705H

	7705H [a]																						
	Nominal Pipe Size, in. (mm)																						
Pipe Description	**1 (33.4)**	**1-1/4 (42.7)**	**1-1/2 (48.3)**	**2 (60.3)**	**2-1/2 (73.1)**	**(76.1)**	**3 (88.9)**	**(108.0)**	**4 (114.3)**	**(133.0)**	**(139.7)**	**5 (141.3)**	**(159.0)**	**(165.1)**	**6| (168.3)**	**8 (219.1)**	**10 (273.0)**	**12 (323.9)**	**14 (355.6)**	**16 (406.4)**	**18 (457.2)**	**20 (508.0)**	**22 (559.0)**
Schedule 40, Cut Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	450 (3098)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 40, Roll Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	450 (3098)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 30, Cut Groove,	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	450 (3098)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 30, Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	450 (3098)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ThinWall Pipes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "XL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "BLT"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bull Moose Tube, "EDDY-Thread 40"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blue Steel, "Rapid-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "Mega-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "GL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "MLT"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "WLS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Youngstown Tube, "EZ-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 10, Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lightwall Pipes, Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "Dyna-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BlueSteel, "Fire Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDY-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bullmoose Tube, "EDDYlite"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Northwest Tube, "EZ-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tex Tube Co., "Tex Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	24 (610.0)
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
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	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A
	N/A

Welded Tube Berkley, "Steady-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "Mega-Flow"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wupperman, "Gal-7"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Yieh Phui Enterprise, State Pipe, "SPS"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Youngstown Tube,"Fire-Flo"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule 5 Pipe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.188 in. wall Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	450 (3098)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.250 in. wall Rolled Groove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tai Feng Qiao Metal Products "Flow II"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
"Fire-Thread"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BS 1387 medium or heavy grade	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Allied Tube & Conduit, "XL-II"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Central "TL"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wheatland Tube, "WST"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IDOD Systems "Gal-5"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bull Moose "Ultra-EDDY"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks:
a. FM Approved when supplied with an EPDM Gasket

Company Name:	Shurjoint Metals Inc
Company Address:	No. 295, Sec. 3 Wantan Road, Wantan Pingtung, Taiwan (R.O. C) 913
Company Website:	http://www.shurjoint.com
New/Updated Product Listing:	Yes
Listing Country:	Taiwan
Certification Type:	FM Approved

N/A
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