

## 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.

### SHURJOINT 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)	22 (559.0)
Schedule 40, Cut Groove			500 (3443)	500 (3443)	500 (3443)	N/A	500 (3443)		500 (3443)			500 (3443)			500 (3443)	500 (3443)	500 (3443)	300 (2070)	175 (1205)	175 (1205)	175 (1205)	175 (1205)	175 (1205)
Schedule 40, Roll Groove				500 (3443)	500 (3443)		500 (3443)		500 (3443)		N/A	500 (3443)			500 (3443)	500 (3443)	500 (3443)	300 (2070)		N/A		N/A	N/A
Schedule 30, Cut Groove															500 (3443)	500 (3443)	300 (2070)	175 (1205)	175 (1205)	175 (1205)	175 (1205)	175 (1205)	
Schedule 30, Rolled Groove				450 (3098)	450 (3098)		450 (3098)		450 (3098)			450 (3098)			450 (3098)	450 (3098)	450 (3098)	300 (2070)		N/A		N/A	
ThinWall Pipes									N/A											N/A		N/A	
Allied Tube & Conduit, "XL"		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		
Allied Tube & Conduit, "Dyna-Thread"																							N/A
Bull Moose Tube, "EDDY-Thread 40"			N/A				N/A	N/A	N/A		N/A							N/A	N/A				
Blue Steel, "Rapid-Thread"											N/A												N/A
Wheatland Tube, "Mega-Thread"																							
Wheatland Tube, "GL"										N/A		N/A											
Wheatland Tube, "MLT"			N/A		N/A									N/A									N/A
Wheatland Tube, "WLS"										N/A										N/A			N/A
Youngstown Tube, "EZ-Thread"	N/A				N/A																		
Schedule 10, Rolled Groove				450 (3098)	450 (3098)		450 (3098)	N/A	450 (3098)			450 (3098)	N/A	N/A	450 (3098)	450 (3098)	450 (3098)	300 (2070)			N/A	N/A	N/A
Lightwall Pipes, Rolled Groove									N/A		N/A	N/A											
Allied Tube & Conduit, "Dyna-Flow"	N/A			N/A		N/A																	
Blue Steel, "Fire Flow"				N/A											N/A								N/A
Bullmoose Tube, "EDDY-Flow"				N/A	N/A							N/A											
Bullmoose Tube, "EDDYlite"					N/A		N/A	N/A									N/A						
Northwest Tube, "EZ-Flow"						N/A		N/A			N/A											N/A	
Tex Tube Co., "Tex Flow"				N/A																	N/A		N/A
Welded Tube Berkley, "Steady-Flow"										N/A				N/A							N/A		

24 (610.0)
250 (1720)
250 (1720)
N/A
N/A

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

**Remark:**  
a. FM Approved when supplied with an EPDM Gasket

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<b>New/Updated Product Listing:</b>	No
<b>Listing Country:</b>	Taiwan
<b>Certification Type:</b>	FM Approved
<b>Class of Work:</b>	1920-Coupling & Fitting, All Type

N/A
250 (1720)