

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.

Style 07 Zero-flex

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Nominal Pipe Size																		
Pipe Description	1 (33.4)	1-1/4 (42.7)	1-1/2 (48.3)	(57.0)	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)
Schedule 40, Cut Groove	500 (3445) a, b, c, e, f	500 (3445) a, b, c, e, f	500 (3445) a, b, c, e, f		500 (3445) a, b, c, e, f	500 (3445) a, b, c, e, f		500 (3445) a, b, c, d, e, f		500 (3445) a, b, c, d, e, f			500 (3445) a, b, c, e, f			500 (3445) a, b, c, d, e, f	450 (3105) a, b, c, d, e, f	4 (273.0) a, b, c, e, f
Schedule 40, Roll Groove	500 (3445) a, b, c, e, f	500 (3445) a, b, c, e, f	500 (3445) a, b, c, e, f		500 (3445) a, b, c, e, f	500 (3445) a, b, c, e, f		500 (3445) a, b, c, d, e, f		500 (3445) a, b, c, d, e, f			400 (2760) a, b, c, e, f			400 (2760) a, b, c, d, e, f	400 (2760) a, b, c, d, e, f	3 (273.0) a, b, c, e, f
Schedule 30, Cut Groove																	450 (3105) a,b,c,d	4 (273.0) a, b, c, e, f
Schedule 30, Rolled Groove	500 (3445) a, b, c, e, f	500 (3445) a, b, c, e, f	500 (3445) a, b, c, e, f		500 (3445) a, b, c, e, f	500 (3445) a, b, c, e, f		500 (3445) a, b, c, d, e, f		500 (3445) a, b, c, d, e, f			400 (2760) a, b, c, e, f			400 (2760) a, b, c, d, e, f	400 (2760) a, b, c, d, e, f	3 (273.0) a, b, c, e, f
ThinWall Pipes																		
Youngstown Tube, "EZ-Thread"	300 (2070) b, c, e, f	300 (2070) a, b, c, e, f	300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f													
Schedule 10, Rolled Groove	500 (3445) a, b, c, e, f	500 (3445) a, b, c, e, f	500 (3445) a, b, c, e, f		500 (3445) a, b, c, e, f	500 (3445) a, b, c, e, f		500 (3445) a, b, c, d, e, f		500 (3445) a, b, c, d, e, f			400 (2760) a, b, c, e, f			400 (2760) a, b, c, d, e, f		
Lightwall Pipes, Rolled Groove																		
Bullmoose Tube, "EDDY-Flow"			300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f	300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f								
Northwest Tube, "EZ-Flow"										300 (2070) a, b, c, e, f						300 (2070) a, b, c, e, f		
Wheatland Tube, "Mega-Flow"			300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f	300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f						300 (2070) a, b, c, e, f		
Wuppermann Austria GmbH, "WGALWELD7"	300 (2070) a, b, c, e, f	300 (2070) a, b, c, e, f	300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f											

Wuppermann Austria GmbH, "WGALWELD7E"	300 (2070) a, b, c, e, f	300 (2070) a, b, c, e, f	300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f													
Wupperman, "Gal-7"			300 (2070) c		300 (2070) c															
Youngstown Tube, "Fire-Flo"			300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f	300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f		300 (2070) a, b, c, e, f										
Schedule 5 Pipe	175 (1205) a, b, c, e, f	175 (1205) a, b, c, e, f	175 (1205) a, b, c, e, f		175 (1205) a, b, c, e, f															
0.188 in. wall Rolled Groove																			400 (2760) a, b, c, d, e, f	3 (2760) a, e
BS 1387 medium							175 (1205) a, c, e, f		175 (1205) a, c, e, f		175 (1205) a, c, e, f	175 (1205) a, c, e, f		175 (1205) a, c, e, f						
JIS steel pipe																			*200A 400 (2760) a, b, e, f	*2 4 (2760) a, e

Remarks:

- a. Approved for use with Style 77FS gasket.
- b. Approved for use with gasket E (green stripe), H (white stripe), or L (solid red).
- c. Approved for use with VicMax EPDM gaskets.
- d. Available with Type 316 Group 2 ASTM F-593 Stainless Steel Track Head Bolts and Hex Nuts
- e. Available with an orange painted finish
- f. Available with a Hot Dip Galvanized finish per ASTM A153, Class A Specifications

Company Name:	Victaulic Company
Company Address:	4901 Kesslersville Rd, Easton, Pennsylvania 18040, USA
Company Website:	http://victaulic.com
New/Updated Product Listing:	No
Listing Country:	United States of America
Certification Type:	FM Approved

50 115) b, s, f	350 (2415) a, b, e, f
50A 00 760) b, s, f	*300A 400 (2760) a, b, e, f