

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.

Model XGQT1

Pipe Description	Rated Working Pressures for Model XGQT1 Rigid Coupling by Pipe																				
	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)
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)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)
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)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)
Schedule 30, Cut Groove																	300 (2070)		300 (2070)		300 (2070)
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)	300 (2070)	300 (2070)		300 (2070)		300 (2070)
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)						
0.188" Wall, Rolled Groove																300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)
Schedule 10, Swage Groove												300 (2070)									
Lightwall Pipes, Rolled Groove																					
Lightwall Pipes, Swage Groove																					
Schedule 5 Pipe, Rolled Groove																					
Japanese Standard JIS G3454, Cut Groove																300 (2070)		300 (2070)		300 (2070)	
Japanese Standard JIS G3454, Rolled Groove																300 (2070)		300 (2070)		300 (2070)	
GB/T3091-2008, Cut Groove ^d	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)		300 (2070)		300 (2070)		300 (2070)
GB/T3091-2008, Rolled Groove ^d	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)		300 (2070)		300 (2070)		300 (2070)
GB/T3091-2008, Rolled Groove ^e	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)		300 (2070)		300 (2070)		300 (2070)

Remarks:

- a.) Minimum schedule cut groove pipe to be joined: 6 inch or smaller, Schedule 40; 8 inch or larger, Schedule 30
b.) Minimum schedule rolled groove pipe to be joined: 6 inch or smaller, Schedule 10; 8 or 10 inch - 0.188 inch (5 mm) wall; 12 inch – 0.250 in. wall
c.) All couplings in table above, Approved when supplied with a Grade E EPDM gasket using standard gasket lubricant
d.) FM Approved for use with rolled or cut groove GB/T3091-2008 steel sprinkler pipe with comparable wall thicknesses to Schedule 40 steel sprinkler pipe per ASME B36.10-2004 specifications.
e.) FM Approved for use with rolled groove GB/T3091-2008 steel sprinkler pipe with comparable wall thicknesses to Schedule 10 steel sprinkler pipe per ASME B36.10-2004 specifications.

Company Name:	Shandong Dingliang Fire Technology Co Ltd
Company Address:	Cheliuzhuang Village Jiulong Sub-office, Fangzi District, Weifang 261200, China
Company Website:	http://ding-liang.com
New/Updated Product Listing:	No
Listing Country:	China
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 XGQT2

Pipe Description	Rated Working Pressures for Model XGQT2 Flexible 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)
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)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)
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)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)
Schedule 30, Cut Groove																	300 (2070)		300 (2070)		300 (2070)
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)
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)						
0.188" Wall, Rolled Groove																300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)
Lightwall Pipes, Rolled Groove																					
Schedule 5 Pipe, Rolled Groove																					
Japanese Standard JIS G3454, 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)	
Japanese Standard JIS G3454, 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)	
Chinese Standard GB/T 3091-2008, 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)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)
Chinese Standard GB/T 3091-2008, Rolled Grooved	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)	300 (2070)	300 (2070)	300 (2070)
Chinese Standard GB/T 3091-2008, Rolled Groovee	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)	300 (2070)	300 (2070)	300 (2070)

Remarks:
a.) Minimum schedule cut groove pipe to be joined: 6 inch or smaller, Schedule 40; 8 inch or larger, Schedule 30
b.) Minimum schedule rolled groove pipe to be joined: 6 inch or smaller, Schedule 10; 8 or 10 inch - 0.188 inch (5 mm) wall; 12 inch – 0.250 in. wall
c.) All couplings in table above, Approved when supplied with a Grade E EDPM gasket using standard gasket lubricant
d.) FM Approved for use with rolled groove GB/T3091-2008 steel sprinkler pipe with comparable wall thicknesses to Schedule 40 steel sprinkler pipe per ASME B36.10-2004 specifications
e.) FM Approved for use with rolled groove GB/T3091-2008 steel sprinkler pipe with comparable wall thicknesses to Schedule 10 steel sprinkler pipe per ASME B36.10-2004 specifications

Company Name:	Shandong Dingliang Fire Technology Co Ltd
Company Address:	Cheliuzhuang Village Jiulong Sub-office, Fangzi District, Weifang 261200, China
Company Website:	http://ding-liang.com
New/Updated Product Listing:	No
Listing Country:	China
Certification Type:	FM Approved
Primary Class of Work:	1920-Coupling & Fitting, All Type

VIZA.EX26617

Fittings, Grooved and Plain End

[Page Bottom](#)

Fittings, Grooved and Plain End

[See General Information for Fittings, Grooved and Plain End](#)

SHANDONG DINGLIANG FIRE TECHNOLOGY CO LTD

EX26617

Cheliuzhuang Village Jiulong Sub-office Fangzi District

Weifang, Shandong 261200 CHINA

The following fittings are intended for use with SHANDONG DINGLIANG FIRE TECHNOLOGY CO LTD's (EX26616) listed rubber gasketed fittings.

Grooved end

Model	Type	Size In.	Rated Pressure (psig)
XGQT01	90 degree elbow	1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8, 10, 12	300
XGQT01L	Long Radius 90°Elbow	1, 1-1/4, 1-1/2, 2, 2-1/2, 3OD(76.1mm), 3, 4, 5-1/2OD(139.7mm), 5, 6-1/2OD(165.1mm), 6, 8, 10, 12	300
XGQT01S	90° End-All Elbow (Reducing, Grooved x Threaded)	1-1/4 x 1/2, 3/4, 1; 1-1/2 x 1/2, 3/4, 1; 2 x 1/2, 3/4, 1; 3OD(76.1mm) x 1/2, 3/4, 1; 3 x 3OD(76.1mm); 4 x 2, 3OD(76.1mm), 3	300
XGQT01G	90° Reducing Elbow (Grooved x Grooved)	6-1/2OD(165.1mm) x 4; 6 x 4	300
XGQT02	45 degree elbow	1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8, 10, 12	300
XGQT07	22.5 degree elbow	1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8	300
XGQT08	11.25 degree elbow	1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8	300
XGQT03	Equal tee	1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8, 10, 12	300
XGQT03L	Long Equal Tee	1, 1-1/4, 1-1/2, 2, 2-1/2, 3OD(76.1mm), 3, 4, 5-1/2OD(139.7mm), 5, 6-1/2OD(165.1mm), 6, 8, 10, 12	300
XGQT04	Grooved reducing tee	2 x 1, 1-1/4, 1-1/2; 2-1/2 x 1, 1-1/4, 1-1/2, 2; 3 OD (76.1 mm) x 1, 1-1/4, 1-1/2, 2; 3 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm); 4 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3; 5-1/2 OD (139.7 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4, 5-1/2 OD (139.7 mm); 6 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm); 8 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm), 6; 10 x 6-1/2 OD (165.1 mm), 6, 8; 12 x 6-1/2 OD (165.1 mm), 6, 10	300
XGQT04S	Threaded reducing tee	2 x 1, 1-1/4, 1-1/2; 2-1/2 x 1, 1-1/4, 1-1/2, 2; 3 OD (76.1 mm) x 1, 1-1/4, 1-1/2, 2; 3 x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm); 4 x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3; 5-1/2 OD (139.7 mm) x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm) x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3, 4; 6 x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3, 4	300
XGQT05	Equal cross	1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8, 10, 12	300
XGQT05L	Long Equal Cross	1, 1-1/4, 1-1/2, 2, 2-1/2, 3OD(76.1mm), 3, 4, 5-1/2OD(139.7mm), 5, 6-1/2OD(165.1mm), 6, 8, 10, 12	300

XGQT09	Grooved reducing cross	3 x 2; 4 x 2, 2-1/2, 3 OD (76.1 mm), 3; 5-1/2 OD (139.7 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 8 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm), 6	300
XGQT05S	Threaded reducing cross	3 OD (76.1 mm) x 2; 3 x 2, 3 OD (76.1 mm); 4 x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3; 5-1/2 OD (139.7 mm) x 3 OD (76.1 mm), 3; 6-1/2 OD (165.1 mm) x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3, 4; 8 x 3 OD (76.1 mm), 3	300
XGQT06	End cap	1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8, 10, 12	300
XGQT06S	Concentric End Cap With Hole	2, 2-1/2, 3OD(76.1mm), 3, 4, 5-1/2OD(139.7mm), 5, 6-1/2OD(165.1mm), 6, 8 10, 12	300
XGQT06P	Eccentric End Cap With Hole	2, 2-1/2, 3OD(76.1mm), 3, 4, 5-1/2OD(139.7mm), 5, 6-1/2OD(165.1mm), 6, 8 10, 12	300
XGQT07G	Grooved concentric reducer	1-1/4 x 1; 1-1/2 x 1, 1-1/4; 2 x 1, 1-1/4, 1-1/2; 2-1/2 x 1, 1-1/4, 1-1/2, 2; 3 OD (76.1 mm) x 1, 1-1/4, 1-1/2, 2; 3 x 1, 1-1/4, 1-1/2, 2, 2-1/2; 4 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3; 5-1/2 OD (139.7 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm); 6 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4, 5-1/2 OD (139.7 mm); 8 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 6-1/2 OD (165.1 mm), 6	300
XGQT07P	Grooved eccentric reducer	3 x 2; 4 x 2, 2-1/2, 3 OD (76.1 mm), 3; 5-1/2 OD (139.7 mm) x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 6-1/2 OD (165.1 mm) x 2, 2-1/2, 3, 4; 6 x 2, 2-1/2, 3 OD (76.1 mm), 3, 4; 8 x 2, 2-1/2, 3 OD (76.1 mm), 3, 6-1/2 OD (165.1 mm), 6; 10 x 8	300
XGQT07S	Threaded concentric reducer	1-1/4 x 1; 1-1/2 x 1, 1-1/4; 2 x 1/2, 1, 1-1/4, 1-1/2; 2-1/2 x 1-1/4, 1-1/2, 2; 3 OD (76.1 mm) x 1, 1-1/4, 1-1/2, 2; 3 x 1/2, 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm); 4 x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3; 5-1/2 OD (139.7 mm) x 3, 4; 6-1/2 OD (165.1 mm) x 1, 2, 3 OD (76.1 mm), 3, 4; 6 x 1, 2, 2-1/2, 3 OD (76.1 mm), 4; 8 x 3 OD (76.1 mm), 3, 4	300
XGQT10	Flange adapter	2, 2-1/2, 3 OD (76.1 mm), 3, 4; 5-1/2 OD (139.7 mm), 6-1/2 OD (165.1 mm), 6, 8, 10, 12	300
XGQT10A	Class 150 Flange Adapter	2, 2-1/2, 3OD(76.1mm), 3, 4, 5-1/2OD(139.7mm), 5, 6-1/2OD(165.1mm), 6, 8, 10, 12;	300



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VIZM.EX26616
Fittings, Rubber Gasketed

Page Bottom

Fittings, Rubber Gasketed

See General Information for Fittings, Rubber Gasketed

SHANDONG DINGLIANG FIRE TECHNOLOGY CO LTD
Cheliuzhuang Village Jiulong Sub-office Fangzi District
Weifang, Shandong 261200 CHINA

EX26616

Rigid Coupling

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
XGQT1	Rolled	10	1, 1-1/4, 1-1/2, 2, 3, 4, 5, 6, 8, 10	300
XGQT1	Rolled, Cut	40	1, 1-1/4, 1-1/2, 2, 3, 4, 5, 6, 8, 10, 12	300
XGQT1	Cut, Rolled	GB/T3091	3 OD (76.1 mm), 5-1/2 OD (139.7 mm), 6-1/2 OD (165.1 mm)	300

Flexible Coupling

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
XGQT2	Rolled	10	1, 1-1/4, 1-1/2, 2, 3, 4, 5, 6, 8, 10	300
XGQT2	Rolled, Cut	40	1, 1-1/4, 1-1/2, 2, 3, 4, 5, 6, 8, 10, 12	300
XGQT2	Cut, Rolled	GB/T3091	3 OD (76.1 mm), 5-1/2 OD (139.7 mm), 6-1/2 OD (165.1 mm)	300

Angle Pad Coupling

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
XGQT7	Rolled	10	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10	300
XGQT7	Rolled, Cut	40	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	300
XGQT7	Rolled, Cut	T3091	3OD(76.1mm), 4-1/4OD(108.1mm), 5-1/4OD(133mm), 5-1/2OD(139.7mm), 6-1/4OD(159mm), 6-1/2OD(165.1mm);	300

Split Flange

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
XGQT5	Rolled	10	2, 2-1/2, 3, 4, 5, 6, 8, 10	300
XGQT5	Rolled, Cut	40	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	300
XGQT5	Cut, Rolled	GB/T3091	3 OD (76.1 mm), 5-1/2 OD (139.7 mm), 6-1/2 OD (165.1 mm)	300

Class 150 Split Flange

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
XGQT5A	Rolled	10	2, 2-1/2, 3, 4, 5, 6, 8, 10	300
XGQT5A	Rolled, Cut	40	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	300
XGQT5A	Rolled, Cut	T3091	3OD(76.1mm), 4-1/4OD(108.1mm), 5-1/4OD(133mm), 5-1/2OD(139.7mm), 6-1/4OD(159mm), 6-1/2OD(165.1mm);	300

Side Outlet/ Mechanical Tee

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
XGQT3G	Grooved	10, 40	2 x 1, 1-1/4, 1-1/2; 2-1/2 x 1, 1-1/4, 1-1/2; 3 x 1, 1-1/4, 1-1/2, 2; 4 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 OD (76.1 mm), 3; 6 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 4; 8 x 2-1/2, 3 OD (76.1 mm), 3, 4, 5-1/2OD(139.7mm), 6-1/2OD(165.1mm), 6;	300
XGQT3G	Grooved	GB/T3091	3 OD (76.1 mm) x 1; 5-1/2 OD (139.7 mm) x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4; 6-1/2 OD (165.1 mm) x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3	300
XGQT3S	Threaded	10, 40	2 x 1/2, 3/4, 1, 1-1/4, 1-1/2; 2-1/2 x 1/2, 3/4, 1, 1-1/4, 1-1/2, 2; 3 x 1/2, 1, 1-1/4, 1-1/2; 4 x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm); 6 x 1, 1-1/4, 1-1/2, 2, 3 OD (76.1 mm), 3; 8 x 2, 3 OD (76.1 mm)	300
XGQT3S	Threaded	GB/T3091	3 OD (76.1 mm) x 1, 1-1/4, 1-1/2, 2; 6-1/2 OD (165.1 mm) x 1-1/4, 1-1/2, 2, 3 OD (76.1 mm)	300
XGQT3U	U-Type Threaded	10, 40	1 x 1/2, 3/4; 1-1/4 x 1/2, 3/4; 1-1/2 x 1/2, 3/4, 1; 2 x 1/2, 3/4, 1; 2-1/2 x 1/2, 3/4, 1	300
XGQT3U	U-Type Threaded	GB/T3091	3 OD (76.1 mm) x 1/2, 1	300

Reducing Coupling

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
XGQT6	Rolled, Cut	40	2 x 1-1/4, 1-1/2 2-1/2 x 1, 1-1/4, 1-1/2, 2 3OD(76.1mm) x 1, 1-1/2, 2 3 x 1, 1-1/2, 2, 2-1/2, 3OD(76.1mm) 4 x 1, 1-1/2, 2, 2-1/2, 3OD(76.1mm), 3 5-1/2OD(139.7mm) x 2, 3OD(76.1mm), 3, 4 5 x 4 6-1/2OD(165.1mm) x 3OD(76.1mm), 3, 4 6 x 2-1/2, 3OD(76.1mm), 3, 4 5-1/2OD(139.7mm), 5 8 x 3OD(76.1mm), 3, 4 5-1/2OD(139.7mm), 6-1/2OD(165.1mm), 6	300
XGQT6	Rolled	10	2 x 1-1/4, 1-1/2 2-1/2 x 1, 1-1/4, 1-1/2, 2 3OD(76.1mm) x 1, 1-1/2, 2 3 x 1, 1-1/2, 2, 2-1/2, 3OD(76.1mm) 4 x 1, 1-1/2, 2, 2-1/2, 3OD(76.1mm), 3 5-1/2OD(139.7mm) x 2, 3OD(76.1mm), 3, 4 5 x 4 6-1/2OD(165.1mm) x 3OD(76.1mm), 3, 4 6 x 2-1/2, 3OD(76.1mm), 3, 4 5-1/2OD(139.7mm), 5 8 x 3OD(76.1mm), 3, 4 5-1/2OD(139.7mm), 6-1/2OD(165.1mm), 6	300

Models XGQT3S and XGQT3U in 1/2 in. (21 mm), 3/4 in. (26 mm) and 1 in nominal outlet sizes are intended for direct connection to sprinklers.

Models XGQT3G & XGQT3S in 1 in. (33.4 mm) and larger normal outlet sizes are intended for connection to system piping.

10 refers to Schedule 10 steel pipe in accordance with NFPA 13

40 refers to Schedule 40 steel pipe in accordance with NFPA 13

GB/T 3091 refers to steel pipe manufactured in accordance with GB/T 3091-2008



Trademark and/or Tradename:

Last Updated on 2017-04-06

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CERTIFICATE OF COMPLIANCE

Certificate Number 20160630-EX26616
Report Reference EX26616-20160630
Issue Date 2016-JUNE-30

Issued to: Shandong Dingliang Fire Technology Co Ltd
Cheliuzhuang Village Jiulong Sub-office Fangzi District
Weifang, Shandong 261200 CHINA

**This is to certify that
representative samples of**

FITTINGS, RUBBER GASKETED
Rigid Coupling, Model: XGQT1
Angle Pad Coupling XGQT7
Flexible Coupling, Model: XGQT2
Reducing Flexible Coupling XGQT6
Split Flange, Model: XGQT5
Class 150 Split Flange: XGQT5A
Side Outlet/ Mechanical Tee, Model: XGQT3G, XGQT3S
U-Bolt Mechanical Tee, Model: XGQT3U

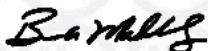
Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 213, Rubber Gasketed Fittings for Fire-Protection
Service
ULC/ORD C213, Rubber Gasketed Fittings for Fire-
Protection Service

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

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Bruce Mahrenholz, Director North American Certification Program
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CERTIFICATE OF COMPLIANCE

Certificate Number 20160630-EX26617
Report Reference EX26617-20160630
Issue Date 2015-JULY-28

Issued to: SHANDONG DINGLIANG FIRE TECHNOLOGY CO LTD
North Side of Weigao Road, Yujia Village, Fangan Sub-
district, Fangzi District
Weifang
Shandong 261200 CHINA

**This is to certify that
representative samples of**

FITTINGS, GROOVED AND PLAIN END
Grooved end ductile iron fittings for use with SHANDONG
DINGLIANG FIRE TECHNOLOGY CO LTD'S (EX26616)
Listed rubber gasketed fittings for sizes and working
pressures as shown in report.

Models XGQT01, XGQT01L, XGQT01S, XGQT01G,
XGQT02, XGQT07, XGQT08, XGQT03, XGQT03L,
XGQT04, XGQT04S, XGQT05, XGQT05L, XGQT09,
XGQT05S, XGQT06, XGQT06S, XGQT06P, XGQT07G,
XGQT07P, XGQT07S, XGQT10, XGQT10A

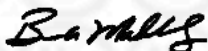
Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 213C, Grooved and Plain End Fittings
ULC/ORD 213, Rubber Gasketed Fittings for Fire-
Protection Service

Additional Information: See the UL Online Certifications Directory at
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CERTIFICATE OF COMPLIANCE

Certificate Number 20150728-EX26616
Report Reference EX26616-20150728
Issue Date 2015-JULY-28

Issued to: SHANDONG DINGLIANG CASTING (FOUNDRY
INDUTRY) COMPANY LTD
North Side of Weigao Road, Yujia Village, Fangan Sub-
district, Fangzi District, Weifang
Shandong 261200 CHINA

This is to certify that
representative samples of

FITTINGS, RUBBER GASKETED
Rigid Coupling, Model: XGQT1
Flexible Coupling, Model: XGQT2
Split Flange, Model: XGQT5

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 213, Rubber Gasketed Fittings for Fire-Protection
Service
ULC/ORD C213, Rubber Gasketed Fittings for Fire-
Protection Service

Additional Information: See the UL Online Certifications Directory at
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B. Mahesh

Bruce Mahesh, Director North American Certification Program
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CERTIFICATE OF COMPLIANCE

Certificate Number 20150728-EX26617
Report Reference EX26617-20150728
Issue Date 2015-JULY-28

Issued to: SHANDONG DINGLIANG CASTING (FOUNDRY
INDSUTRY) COMPANY LTD
North Side of Weigao Road, Yujia Village, Fangan Sub-
district, Fangzi District
Weifang
Shandong 261200 CHINA

This is to certify that
representative samples of

FITTINGS, GROOVED AND PLAIN END
Grooved end ductile iron fittings for use with SHANDONG
DINGLIANG CASTING (FOUNDRY INSDUTRY)
COMPANY LTD'S (EX26616) Listed rubber gasketed
fittings for sizes and working pressures as shown in report.

Models XGQT01, XGQT02, XGQT07, XGQT08, XGQT03,
XGQT04, XGQT04S, XGQT05, XGQT09, XGQT05S,
XGQT06, XGQT07G, XGQT07P, XGQT07S, XGQT10

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 213C, Grooved and Plain End Fittings
ULC/ORD 213, Rubber Gasketed Fittings for Fire-
Protection Service

Additional Information: See the UL Online Certifications Directory at
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Certificate of Compliance

This certificate is issued for the following:

Gasketed Pipe Fittings for Use with Aboveground Sprinkler Systems

Model XGQT1 Rigid Coupling

Model XGQT3 Grooved Outlet Mechanical Tee

Model XGQT3S Threaded Outlet Mechanical Tee

Prepared for:

The Middle of WeiJiao Road,
Fangzi District, Weifang City,
Shandong Province, 261200
China

Manufactured at:

The Middle of WeiJiao Road,
Fangzi District, Weifang City,
Shandong Province, 261200
China

FM Approvals Class: 1920 – “Pipe Couplings and Fittings for Aboveground Fire Protection Systems”

Approval Identification: 3053397

Approval Granted: July 16, 2015

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in black ink, appearing to read 'D.B. Fuller', written over a horizontal line.

David B. Fuller
AVP - Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062



Member of the FM Global Group



Certificate of Compliance

This certificate is issued for the following:

Gasketed Pipe Fittings for Use with Aboveground Fire Protection Systems

Model XGQT1
Rigid Coupling

Model XGQT2
Flexible Coupling

Model XGQT6
Reducing Coupling

Model XGQT7
Rigid Bevel Coupling

Model XGQT5
Grooved Split Flange

Model XGQT5A
Grooved Split Flange

Model XGQT3S
Threaded Outlet Mechanical Tee

For Use with Schedule 10, Schedule 30, Schedule 40, JIS G3454 and GB/T3091
Aboveground Steel Sprinkler Pipe

Prepared for:

Shandong Dingliang Fire Technology Co Ltd
Cheliuzhuang Village, Jiulong Sub-Office
Fangzi District, Weifang 261200
China

Manufactured at:

Shandong Dingliang Fire Technology Co Ltd
Cheliuzhuang Village, Jiulong Sub-Office
Fangzi District, Weifang 261200
China

FM Approvals Class: 1920 – “Pipe Couplings and Fittings for Aboveground Fire Protection Systems”

Approval Identification: 3058330

Approval Granted: February 24, 2017

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

David B. Fuller
AVP, Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062 USA



Member of the FM Global Group



Certificate of Compliance

This certificate is issued for the following:

Non-Gasketed Pipe Fittings for Use with Aboveground Fire Protection Systems

Model XGQT01
90 Degree Elbow

Model XGQT01S
Reducing Elbow
90 Degree

Model XGQT03
Equal Tee

Model XGQT02
45 Degree Elbow

Model XGQT07
22-1/2 Degree
Elbow

Model XGQT08
11-1/4 Degree
Elbow

Model XGQT01
Long Radius 90 Degree Elbow

Model XGQT03L
Long Radius Equal
Tee

Prepared for:

Shandong Dingliang Fire Technology Co Ltd
Cheliuzhuang Village, Jiulong Sub-Office
Fangzi District, Weifang 261200
China

Manufactured at:

Shandong Dingliang Fire Technology Co Ltd
Cheliuzhuang Village, Jiulong Sub-Office
Fangzi District, Weifang 261200
China

FM Approvals Class: 1920 – “Pipe Couplings and Fittings for Aboveground Fire Protection Systems”

Approval Identification: 3058330

Approval Granted: February 24, 2017

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David B. Fuller
AVP, Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062 USA



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Certificate of Compliance

This certificate is issued for the following:

Non-Gasketed Pipe Fittings for Use with Aboveground Fire Protection Systems

Model XGQT05
Equal Cross

Model XGQT05L
Long Radius
Equal Cross

Model XGQT06
End Cap

Model XGQT06S
Concentric Drain
End Cap

Model XGQT06P
Eccentric Drain
End Cap

Model XGQT07G
Concentric Reducer

Model XGQT07S
Threaded Outlet
Concentric Reducer

Model XGQT10A
Grooved Outlet
Flange Adapter

Prepared for:

Shandong Dingliang Fire Technology Co Ltd
Cheliuzhuang Village, Jiulong Sub-Office
Fangzi District, Weifang 261200
China

Manufactured at:

Shandong Dingliang Fire Technology Co Ltd
Cheliuzhuang Village, Jiulong Sub-Office
Fangzi District, Weifang 261200
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FM Approvals Class: 1920 – “Pipe Couplings and Fittings for Aboveground Fire Protection Systems”

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