

## CERTIFICATE OF APPROVAL(FM)



**FM  
APPROVED**

**Certificate of Compliance**

This certificate is issued for the following:  
**Pipe Couplings and Fittings for Aboveground Fire Protection Systems**

Model XGQT1	Model XGQT2	Model XGQT1N	Model XGQT1B
Rigid Coupling	Rigid Angle Coupling	Flexible Coupling	Reducing Coupling
Model XGQT08	Model XGQT3	Model XGQT3S	Model XGQT3U
Split Flange	Grooved Mechanical Tee	Threaded Mechanical Tee	U-Bolt Mechanical Tee

**Prepared for:**

Shandong Zhihua Pipe Industry Co., Ltd.  
Zhangji Village, Fangan Subdistrict  
Fangzi District, Weifang City  
Shandong Province 262113  
China

FM Approvals Class: 1920 – “Pipe Couplings and Fittings for Aboveground Fire Protection Systems”  
(November 2007)

Approval Identification: 3060125      Approval Granted: July 15, 2019

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

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



David B. Fuller  
VP, Manager – Fire Protection  
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Norwood, MA 02062 USA



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This certificate is issued for the following:  
**Pipe Fittings for Aboveground Fire Protection Systems**  
(see attached product table)

<b>Prepared for:</b>	<b>Manufactured by:</b>
Shandong Zhihua Pipe Industry Co Ltd Zhang Jia Village, Fang an Subdistrict, Fangzi District , Shandong Province 262113, China	Shandong Zhihua Pipe Industry Co Ltd Zhang Jia Village, Fang an Subdistrict, Fangzi District , Shandong Province 262113, China

FM Approvals Class: 1920

Approval Identification: 0003054850      Date Approved: May 10, 2016  
Superseded by: RR211904      Date Approved: December 6, 2017

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://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.



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## CERTIFICATE OF APPROVAL(FM)



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### Certificate of Compliance

Shandong Zhihua Pipe Industry, Pipe Fittings

Product Designation	Fitting Description	Nominal Pipe Size, in.	Rated Working Pressure, psi (kPa)	Remarks
XGQT01	90° Elbow	33.7, 42.4, 48.3, 60.3, 73.0, 76.1, 88.9, 108, 114.3, 133, 139.7, 159, 165.1, 168.3, 219.1, 273.0, 323.9	300 (2070)	c
XGQT02	45° Elbow	33.7, 42.4, 48.3, 60.3, 73.0, 76.1, 88.9, 108, 114.3, 133, 139.7, 159, 165.1, 168.3, 219.1	300 (2070)	c
XGQT09	22.5° Elbow	114.3, 165.1, 219.1	300 (2070)	c
XGQT19	11.25° Elbow	114.3, 165.1, 219.1	300 (2070)	c
XGQT03	Equal Tee	33.7, 42.4, 48.3, 60.3, 73.0, 76.1, 88.9, 108, 114.3, 133, 139.7, 159, 165.1, 168.3, 219.1, 273.0, 323.9	300 (2070)	c
XGQT04	Reducing Tee (Grooved Outlet)	60.3 x 33.7, 42.4, 48.3 73.0 x 42.4, 48.3, 60.3 76.1 x 48.3, 60.3 88.9 x 48.3, 60.3, 73.0, 76.1		
		114.3 x 60.3, 76.1, 88.9, 108, 114.3 139.7 x 76.1, 88.9, 108, 114.3 159 x 76.1, 88.9, 108, 114.3 168.3 x 60.3, 76.1, 88.9, 108, 114.3 168.3 x 60.3, 73.0, 76.1, 88.9, 108, 114.3 219.1 x 114.3, 139.7, 159, 165.1, 168.3	300 (2070)	c
XGQT04S	Reducing Tee (Threaded Outlet)	60 x 33.7, 42.4, 48.3 73.0 x 42.4, 48.3, 60.3 76.1 x 33.7, 42.4, 48.3, 60.3 88.9 x 33.7, 42.4, 48.3, 60.3, 76.1 108 x 76.1, 88.9		
		114.3 x 33.7, 42.4, 48.3, 60.3, 73.0, 76.1, 88.9 139.7 x 33.7, 42.4, 48.3, 60.3, 76.1, 88.9 159 x 33.7, 42.4, 48.3, 60.3, 76.1, 88.9 168.3 x 33.7, 42.4, 48.3, 60.3, 73.0, 88.9 219.1 x 76.1, 88.9	300 (2070)	b, c
XGQT07	Equal Cross	60.3, 73.0, 76.1, 88.9, 114.3, 139.7, 159, 165.1, 168.3, 219.1	300 (2070)	c
XGQT7	Reducing Cross (Grooved Outlet)	139.7 x 114.3 165.1 x 114.3	300 (2070)	c

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Product Designation	Fitting Description	Nominal Pipe Size, in.	Rated Working Pressure, psi (kPa)	Remarks
XGQT7S	Reducing Cross (Threaded Outlet)	114.3 x 33.7, 42.4, 48.3, 60.3, 76.1, 88.9 139.7 x 42.4, 48.3, 60.3, 76.1, 88.9 165.1 x 33.7, 42.4, 48.3, 60.3, 76.1, 88.9	300 (2070)	b, c
XGQT06	End Cap	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	300 (2070)	c
XGQT5	Concentric Reducer	60.3 x 33.7, 42.4, 48.3 73.0 x 33.7, 42.4, 48.3 76.1 x 33.7, 42.4, 48.3, 60.3 88.9 x 33.7, 42.4, 48.3, 60.3, 73.0, 76.1 108 x 76.1, 88.9		
		114.3 x 60.3, 73.0, 76.1, 88.9 139 x 60.3, 76.1, 88.9, 114.3 159 x 60.3, 76.1, 88.9, 108, 114.3, 133 165.1 x 60.3, 76.1, 88.9, 114.3, 139.7 168.3 x 60.3, 73.0, 76.1, 88.9, 114.3, 139.7 219.1 x 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3	300 (2070)	c
XGQT5S	Concentric Reducer (Threaded Outlet)	60.3 x 33.7, 42.4, 48.3 73.0 x 33.7, 42.4, 48.3, 60.3 76.1 x 33.7, 42.4, 48.3, 60.3 88.9 x 33.7, 42.4, 48.3, 60.3, 73.0, 76.1 108 x 76.1, 88.9		
		114.3 x 33.7, 42.4, 48.3, 60.3, 73.0, 76.1, 88.9 139.7 x 33.7, 42.4, 48.3, 60.3, 73.0, 76.1, 88.9 159 x 33.7, 42.4, 48.3, 60.3, 76.1, 88.9 165.1 x 33.7, 42.4, 48.3, 60.3, 76.1, 88.9 168.3 x 33.7, 42.4, 48.3, 60.3, 76.1, 88.9 219.1 x 33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3	300 (2070)	b, c
XGQT05	Eccentric Reducer	165.1 x 88.9, 114.3 219.1 x 114.3, 139.7, 165.1	300 (2070)	c
XGQT8	Flange Adapter (Grooved Outlet)	60.3, 73.0, 76.1, 88.9, 108, 114.3, 133, 139.7, 159, 165.1, 168.3, 219.1	300 (2070)	a, c

Remarks:  
a. Supplied with Class 125 Flanges  
b. Threads per ANSI B1.20.1 - 1983  
c. Available with Cut Grooves

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