

CERTIFICATE OF APPROVAL(FM)

	<h3>Certificate of Compliance</h3> <p>This certificate is issued for the following:</p> <h4>Pipe Couplings and Fittings for Aboveground Fire Protection Systems</h4>			
	Model XGQT1 Rigid Coupling	Model XGQT2 Rigid Angle Coupling	Model XGQT1N Flexible Coupling	Model XGQT1B Reducing Coupling
Model XGQT08 Split Flange	Model XGQT3 Grooved Mechanical Tee	Model XGQT3S Threaded Mechanical Tee	Model XGQT3U U-Bolt Mechanical Tee	
<p>Prepared for:</p> <p>Shandong Zhihua Pipe Industry Co., Ltd. Zhangjia Village, Fang'an Subdistrict Fangzi District, Weifang City Shandong Province 262113 China</p>				
<p>FM Approvals Class: 1920 – "Pipe Couplings and Fittings for Aboveground Fire Protection Systems" (November 2007)</p>				
<p>Approval Identification: 3060125 Approval Granted: July 15, 2019</p>				
<p>To verify the availability of the Approved product, please refer to www.approvalguide.com</p>				
<p>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.</p>				
 <p>Member of the FM Global Group</p>	<p> David B. Fuller VP, Manager – Fire Protection FM Approvals 1151 Boston-Providence Turnpike Norwood, MA 02062 USA</p>			

	<h3>Certificate of Compliance</h3> <p>This certificate is issued for the following:</p> <h4>Pipe Fittings for Aboveground Fire Protection Systems</h4> <p>(see attached product table)</p>	
	Prepared for: Shandong Zhihua Pipe Industry Co Ltd Zhang Jia Village, Fang'an Subdistrict, Fangzi District, Shandong Province 262113, China	Manufactured by: Shandong Zhihua Pipe Industry Co Ltd Zhang Jia Village, Fang'an Subdistrict, Fangzi District, Shandong Province 262113, China
<p>FM Approvals Class: 1920</p>		
<p>Approval Identification: 0003054850 Date Approved: May 10, 2016 Superseded by: RR211904 Date Approved: December 6, 2017</p>		
<p>To verify the availability of the Approved product, please refer to www.approvalguide.com</p>		
<p>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.</p>		
 <p>Member of the FM Global Group</p>	<p> David B. Fuller VP, Manager of Fire Protection FM Approvals 1151 Boston-Providence Turnpike Norwood, MA 02062 USA</p>	

Page 1 of 3

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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
XGQT9	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, 76.1 108 x 76.1, 88.9 114.3 x 60.3, 73.0, 76.1, 88.9 139.7 x 60.3, 76.1, 88.9, 114.3 159 x 76.1, 88.9, 108, 114.3 165.1 x 60.3, 76.1, 88.9, 114.3, 139.7 168.3 x 60.3, 73.0, 76.1, 88.9, 114.3 219.1 x 114.3, 139.7, 159, 165.1, 168.3	300 (2070)	c
XGQT04S	Reducing Tee (Threaded Outlet)	60.3 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 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, 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

Page 2 of 3



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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, 88.9 133 x 108, 114.3 139.7 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, 76.1, 88.9 108 x 33.7, 42.4, 48.3, 60.3, 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, 88.9 165.1 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

Page 3 of 3

원본대조필



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