



Certificate of Compliance

This certificate is issued for the following:

Non-Gasketed Pipe Fittings for Aboveground Fire Protection Systems

Model XGQT01 90 Degree Grooved Elbow	Model XGQT02 45 Degree Grooved Elbow	Model XGQT09 22.5 Degree Grooved Elbow	Model XGQT9 11.25 Degree Grooved Elbow
Model XGQT03 Equal Tee	Model XGQT04 Grooved Reducing Tee	Model XGQT04S Threaded Reducing Tee	Model XGQT07 Equal Cross
Model XGQT7 Grooved Reducing Cross	Model XGQT7S Threaded Reducing Cross	XGQT06 Grooved End Cap	XGQT8 Grooved Outlet Flange Adapter
Model XGQT5 Grooved Outlet Concentric Reducer	Model XGQT5S Threaded Outlet Concentric Reducer	Model XGQT8S Grooved Outlet Eccentric Reducer	

Prepared for:

Weifang Zhihua Economical Trade Co., Ltd
Zhang Jia Village, Fang an Subdistrict
Fangzi District
Weifang City, Shandong Province 262113
China

Manufactured at:

Weifang Zhihua Economical Trade Co., Ltd
Zhang Jia Village, Fang an Subdistrict
Fangzi District
Weifang City, Shandong Province 262113
China

FM Approvals Class: 1920 - "Pipe Couplings and Fittings for Aboveground Fire Protection Systems"

Approval Identification: 3054850

Approval Granted: May 10, 2016

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

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 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



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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, 73.0, 76.1 108 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

CERTIFICATE OF COMPLIANCE

Certificate Number 20160914-EX26867
Report Reference EX26867-20150831
Issue Date 2016-SEPTEMBER-14

Issued to: Shandong Zhihua Pipe Industry Co Ltd
Zhang Jia Village, Fang An Subdistrict, Fang Zi District
Weifang
Shandong 262113 CHINA

This is to certify that
representative samples of FITTINGS, RUBBER GASKETED
See Addendum Page

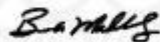
Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

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

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

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahlenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at <http://ul.com/about/certifications/>



CERTIFICATE OF COMPLIANCE

Certificate Number 20160914-EX26750
Report Reference EX26750-20150831
Issue Date 2016-SEPTEMBER-14

Issued to: Shandong Zhihua Pipe Industry Co Ltd
Zhang Jia Village, Fang An Subdistrict, Fang Zi District
Weifang
Shandong 262113 CHINA

This is to certify that
representative samples of FITTINGS, GROOVED AND PLAIN END
See Addendum Pages

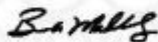
Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

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
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahesholtz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at <http://ul.com/about/locations/>





Certificate of Approval

Certificate No.: 10116Q16732R1M

Awarded to

Shandong Pipe Industry Co., Ltd.

Organization Code Certificate No.: 913707047973297692
Add.: ZHANGJIA, FANAN STREET, FANGZI DISTRICT, WEIFANG CITY. Zip code: 262113

Beijing ZhongLianTianRun Certification Center (ZLTR) certify that the
Quality Management System of the above organization has been assessed and found to be
in accordance with the requirements of the standard:
ISO9001: 2008

SCOPE OF CERTIFICATION/REGISTRATION
Production of grooved pipe fittings in the range of CCC

This certificate is made valid when used with certification scopes and the requirements of applicable laws and regulations. These requirements include, but are not limited to, administrative permits, scopes of qualifications, and CCC requirements.

Subject to operation conditions in requirements conformity with Quality Management System,

This Certificate is valid for a period of three years only,

Date from: Aug 24th, 2016 To: Sep 14th, 2018

Initial Date Of Certificate Issued: Sep 9th, 2013

Date of Trade: Aug 24th, 2016

The effectiveness of this Certificate shall be Validated by periodic surveillance audit
of ZLTR for maintenance.

**This certificate using the term to Aug 15th, 2017, please Aug 15th, 2017
to supervision or overdue certification audit, through the audit, the certificate invalid.**
Information of this certificate can be found on the official website of Beijing Zhonglian Tianrun Certification center
(<http://www.zltr.com.cn>)



Beijing ZhongLiantianrun Certification Center

Room 2603, 22nd Floor, 2nd Unit, Block 1, No. 4 Yard, Qiyang Road, Chaoyang District, Beijing, P.R. China 100102

Information of this certificate can be found on the official website of Certification and Accreditation Administration of the People's Republic of China (<http://www.cca.gov.cn>)



质量管理体系认证证书

证书号: 10116Q16732R1M

授 予

山东之华管业有限公司

组织机构代码证号: 913707047973297692

地址: 潍坊市坊子区坊安街办张家村 邮编: 262113

北京中联天润认证中心 (ZLTR) 证明
上述组织的质量管理体系已经评审并符合
ISO9001:2008 质量管理体系标准适用条款的要求

认证/注册范围

CCC 范围内沟槽管件的生产

本证书认证范围与其涉及有效的法律法规的要求一并使用,
该要求包含但不局限于行政许可, 资质范围及 CCC 要求等。
在证书持有者的管理体系持续符合质量管理体系标准要求的运行条件下, 认证有效期为三年,
自 2016 年 08 月 24 日至 2018 年 09 月 14 日

初次颁证日期: 2013 年 09 月 09 日

换证日期: 2016 年 08 月 24 日

本证书的有效性需经中联天润通过定期的监督审核确认保持。
本张证书使用期限至 2017 年 08 月 15 日, 请于 2017 年 08 月 15 日前
进行监督或再认证审核, 逾期未通过审核, 本张证书作废。

本证书信息可在中心网站 (<http://www.zltr.com.cn>) 查询



北京中联天润认证中心

中国·北京·朝阳区启阳路 4 号院 1 号楼 22 层 2 单元 2603 100102

本证书可在国家认证认可监督管理委员会官方网站 (<http://www.cna.gov.cn>) 查询

ISO 9001

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