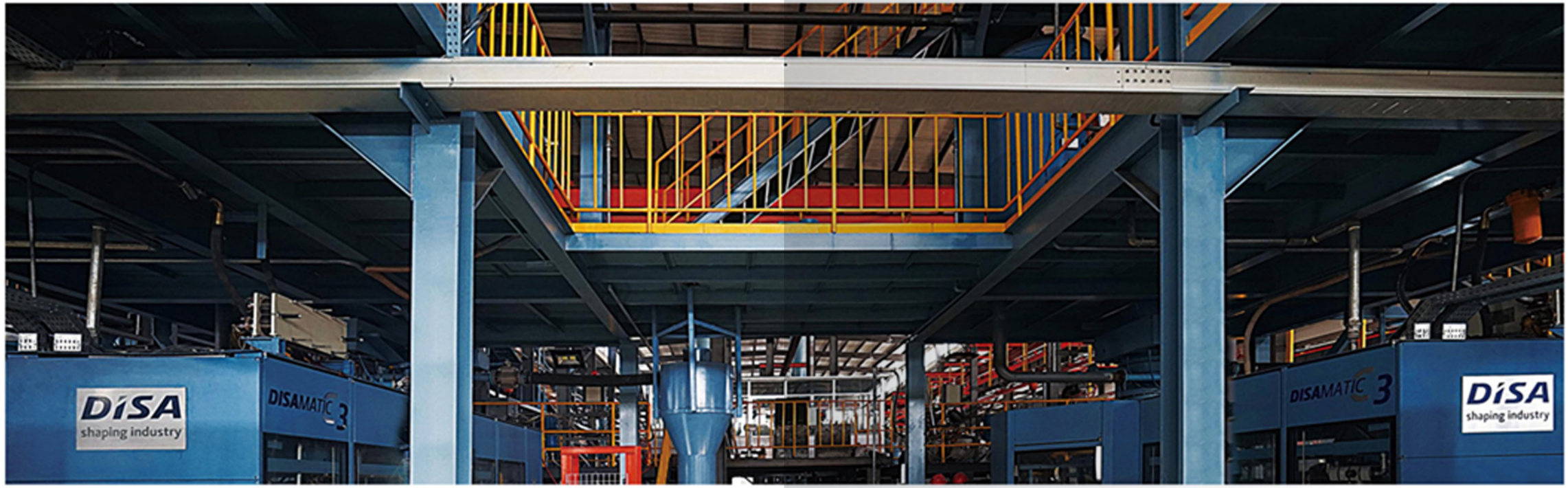


GROOVED COUPLINGS AND FITTINGS HANGERS VALVES

100TONG® 100T®

Weifang 100Tong Casting Co., Ltd.



Company profile

Weifang 100Tong Casting Co Ltd, established in 2002, lies in Weifang City-world kite capital, Shandong Province.
100TONG is specialized in ductile iron grooved fittings and couplings, pipe hangers, valves and coated steel pipes. The company has passed ISO9001 quality system, and grooved products, pipe hangers have been approved by FM, UL, CE.
100TONG has three production bases: Covering 70,000 square meters, about 500 employees ,Weicheng production base has seven producing workshops here: two Casting Workshops, Machining Workshop, Molding Workshop, Polishing Workshop, two Coating & Packing Workshops. All grooved products are produced by the advanced casting tooling of electric furnace melting, auto-casting, and spheroidizing control. There are 6 CNC machines to make mouldings,10 medium frequency furnaces,4 auto-casting lines, more than 30 CNC lathes,2 epoxy & painting lines. The annual production capacity has exceeded 60,000 tons.
Binhai production base, which is built at 2011, covers the ground of 170,000 square meters. We installed two DISA automatic casting lines which are imported from Denmark. At the same time, we installed 6 medium frequency furnaces , 2 epoxy & painting lines, more than 20 CNC lathes here. The annual production capacity can reach 100,000 tons.
Thailand production base, covering about 10000 square meters,was started to be built at 2021. We have one DISA C3 automatic casting line, and 2 sets 4000kgs medium frequency furnaces ,1 epoxy & painting production line here. The Thailand factory has been put into operation since August 23,2023, and we can accept orders of auto parts and ductile iron castings, FM UL grooved fittings and couplings. The annual output can reach 10,000 tons.
100TONG ,as the Shandong well-known brand is enjoying high reputation among the customers for its faith, quality, price and service. Products are on sale all over 300 cities of China, and exported to the United State, Canada, Europe, Middle East, South Africa, Australia, and more than 30 countries and areas.
Service is no limit, unflagging pursuit of excellence. Weifang 100Tong Casting Co.,Ltd will make unremitting pursuit towards future.









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APPROVAL REPORT

PIPE FITTINGS AND RIGID AND FLEXIBLE COUPLINGS IN VARIOUS SIZES WITH INCREASED PRESSURE RATING

Prepared For:

Weifang 100Tong Casting Co., Ltd.
No 1919 Jichang South Rd.
Weicheng District, Weifang 260152
Shangdong, China

Project Identifier: 3037453
Class: 1920
Approval Date: June 30, 2010

Authorized by:
Richard B. Danne, Group Manager, Hydraulics

FM Approvals
1151 Boston-Providence Turnpike
P. O. Box 9102
Norwood, MA 02062



CERTIFICATE OF COMPLIANCE

Certificate Number 20151124-EX15100
Report Reference EX15100-20070806
Issue Date 2015-NOVEMBER-24

Issued to: WEIFANG 100TONG CASTING CO LTD
1919 AIRPORT SOUTH RD
WEICHENG DISTRICT
WEIFANG
SHANDONG 261000 CHINA

This is to certify that representative samples of FITTINGS, GROOVED AND PLAIN END
SEE ADDENDUM PAGE

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

Standard(s) for Safety: UL 213C-Standard for 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.

Page 1 of 5



EURO CERT

CERTIFICATE

Weifang 100Tong Casting Co., Ltd.
No.1919 South Jichang Road, Weicheng District, Weifang City, Shandong Province, P.R.China

This is to certify that, upon the relevant request of the applicant, EUROCERT as Third Part Authority has certified that the above manufacturer implements, operates and maintains a Quality Assurance System in accordance with the Pressure Equipment Directive 2014/68/EU (PED) Annex I, Paragraph 4.3 as Material Manufacturer for the scope of manufacture of Couplings and fittings.

Relevant products covered by this certificate are listed in ANNEX A to this certificate.

The manufacturer is, therefore, authorized to issue certificates of specific product control within the scope of the assessed quality system and in accordance with the Pressure Equipment Directive 2014/68/EU and applied technical specifications.

Possible additional requirements-specific to applied technical specifications to meet PED Annex I are not affected.

The validity of this certificate is subject to a valid certification in accordance with ISO 9001:2015 with a related to production of materials for pressure equipment scope.

This certificate remains valid only when the organization passes the annual surveillance audits.

Check the validity of the Certificate by scanning the QR code at right.
EUROCERT GmbH, Am Gierath 20, 51645 Gummersbach, Germany
T +49 (0)160 52 65 495, +49 (0)163 53 87 C, F +49 (0)1 63 (0)1 08, M eurocert@eurocert.gr

Page 1 of 2



SHANGHAI SAILWAY CERTIFICATION CO.,LTD.

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate Number: SW2Q0242981M

This is to Certify that the Quality Management System of

Weifang 100Tong Casting Co., Ltd.

Organization Code/Unified Social Credit Code: 91370700742414325E

Registration Address:No.1919, South Jichang Road, Weicheng District, Weifang City
Production/Business Address:No.1919, South Jichang Road, Weicheng District, Weifang City, Shandong Prov.

Has been Audited to Conform to the Following Quality Management System Standard:
GB/T19001-2016/ISO9001:2015

for the Scope of Registration:
Design and Production of Grooved Fittings and Couplings, General Fire Valves.

(Issued By)

Date of Issue: Mar 29, 2021
Date of Renewal: Mar 29, 2024
Date of Expiry: Mar 28, 2027

IAF CNAS 中国认可 国际互认 MANAGEMENT SYSTEM CNAS C201-M

A surveillance audit must be carried out every 12 months within the three-year validity period.Also,it is only valid along with the anniversary confirmation. Effectiveness of the certificate:you can search CNCA website: www.cnca.gov.cn,or scanning QR code.



SHANGHAI SAILWAY CERTIFICATION CO.,LTD.

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificate Number: SW24H2032R1M

This is to Certify that the Environmental Management System of

Weifang 100Tong Casting Co., Ltd.

Organization Code/Unified Social Credit Code: 91370700742414325E

Registration Address:No.1919, South Jichang Road, Weicheng District, Weifang City
Production/Business Address:No.1919, South Jichang Road, Weicheng District, Weifang City, Shandong Prov.

Has been Audited to Conform to the Following Environmental Management System Standard:
GB/T24001-2016/ISO14001:2015

for the Scope of Registration:
Design and Production of Grooved Fittings and Couplings, General Fire Valves and Related Management Activities.

(Issued By)

Date of Issue: Mar 29, 2021
Date of Renewal: Mar 28, 2024
Date of Expiry: Mar 28, 2027

A surveillance audit must be carried out every 12 months within the three-year validity period.Also,it is only valid along with the anniversary confirmation. Effectiveness of the certificate:you can search CNCA website: www.cnca.gov.cn,or scanning QR code.



SHANGHAI SAILWAY CERTIFICATION CO.,LTD.

OCCUPATIONAL HEALTH SAFETY MANAGEMENT SYSTEM CERTIFICATE

Certificate Number: SW24S0190R1M

This is to Certify that the Occupational Health & Safety Management System of

Weifang 100Tong Casting Co., Ltd.

Organization Code/Unified Social Credit Code: 91370700742414325E

Registration Address:No.1919, South Jichang Road, Weicheng District, Weifang City
Production/Business Address:No.1919, South Jichang Road, Weicheng District, Weifang City, Shandong Prov.

Has been Audited to Conform to the Following Occupational Health & Safety Management System Standard:
GB/T45001-2020/ISO45001:2018

for the Scope of Registration:
Design and Production of Grooved Fittings and Couplings, General Fire Valves and Related Management Activities.

(Issued By)

Date of Issue: Mar 29, 2021
Date of Renewal: Mar 28, 2024
Date of Expiry: Mar 28, 2027

A surveillance audit must be carried out every 12 months within the three-year validity period.Also,it is only valid along with the anniversary confirmation. Effectiveness of the certificate:you can search CNCA website: www.cnca.gov.cn or scanning QR code.



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APPROVAL REPORT

Project No:	3055853
Class:	1920
Product Type:	Gasketed and Non-Gasketed Pipe Fittings for Use with Aboveground Fire Protection Systems
Product Name:	Various Non-Gasketed Pipe Fittings Model XGQT31 Rigid Coupling Model XGQT32 Flexible Coupling Model XGQT02K Flexible Coupling Model XGQT29 Grooved Split Flange Model XGQT33 Grooved Outlet Mechanical Tee Model XGQT33S Threaded Outlet Mechanical Tee
Name of Report Holder:	Weifang 100Tong Casting Co Ltd
Address of Report Holder:	1919 Jichang South Rd Weicheng District, Weifang City, Shandong 261052 China
Customer ID:	104639

Prepared by
Robert Masinda, E.I.T.
Engineer
Fire Protection

Reviewed by
Claude Bosio
Technical Team Manager
Fire Protection

David B. Fuller
AVP, Manager - Fire Protection

June 6, 2016
Date of Approval

FM Approvals
1151 Boston-Providence Turnpike
PO Box 9102
Norwood, MA 02062



CERTIFICATE OF COMPLIANCE

Certificate Number 20151125-EX15240
Report Reference EX15240-20070806
Issue Date 2015-NOVEMBER-25

Issued to: WEIFANG 100TONG CASTING CO LTD
1919 AIRPORT SOUTH RD
WEICHENG DISTRICT
WEIFANG
SHANDONG 261000 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, 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

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.

Page 1 of 5



WRAS APPROVED MATERIAL

Water Regulations Advisory Scheme Ltd.
Unit 4 Block A,
Wilton Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

Approval Number: 2003516
Test Report: M9180377

31st March 2020

Weifang 100Tong Casting Co. Ltd.
No. 1919, Jichang South Road,
Weicheng District,
Weifang City,
Shandong Province,
China

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920:1 (2000 and/or 2014 "Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water".

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

RUBBERS - ETHYLENE PROPYLENE DIENE MONOMER (EPDM) - COMPONENTS. 5360

"EPDM 1007 70 Gasket: Black coloured, compression moulded EPDM rubber gasket, Shore hardness 70. Tested in radius size 2.1mm. For use with water up to 85°C.

APPROVAL NUMBER: 2003516
APPROVAL HOLDER: WEIFANG 100TONG CASTING CO. LTD.

The Scheme reserves the right to review approval.
Approval 2003516 is valid between March 2020 and March 2025

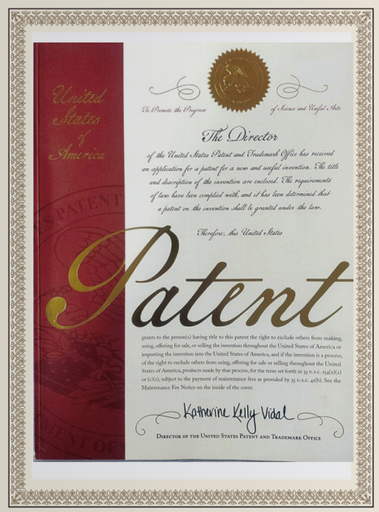
An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed. "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/directory

Yours faithfully

Jason Furnival
Approvals & Enquiries Manager
Water Regulations Advisory Scheme

The Water Regulations Advisory Scheme Ltd Registered in England No. 3668268 Registered office: 66 Lowlands Close, Hazel Grove, Stockport, SK7 5ED
Tel: +44(0)333 207 9020 Fax: +44(0)1189 248 540 Email:info@wras.co.uk website:www.wras.co.uk



United States of America

To Promote the Progress of Science and Useful Arts

The Director

of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

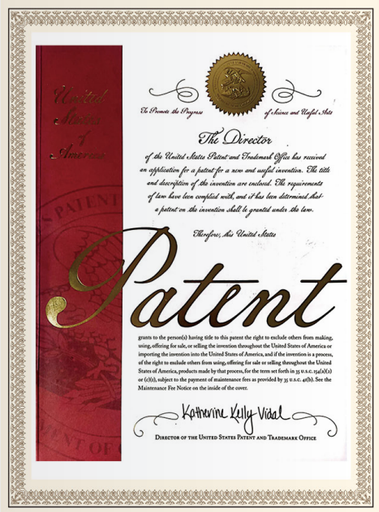
Therefore, the United States

Patent

grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

Katherine Kelly Vidal

Director of the United States Patent and Trademark Office



United States of America

To Promote the Progress of Science and Useful Arts

The Director

of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, the United States

Patent

grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

Katherine Kelly Vidal

Director of the United States Patent and Trademark Office



PICC 中国人民保险

EEZ31A002900 No. 3720025000594728I

People's Insurance Company of China Limited Product Liability Insurance (1995 Edition) Insurance Policy (Electronic Policy)

Policy number: PZA1D0537070000000049

Considering that the policyholder has applied for Product Liability Insurance (1995 Edition) from the insurer and has paid the premium as stipulated in this insurance contract, the insurer agrees to assume the insurance liability according to the provisions of the "Terms and Conditions of Product Liability Insurance (1995 Edition) of People's Insurance Company of China Limited" and the provisions of the additional clauses. This insurance policy is hereby established as proof of coverage.

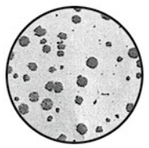
Policy holder information	policyholder name	HUACHUP PIPING PRODUCTS CO., LTD	Unified social credit code/organization code: 91370700337749195R1
	Contact name	Tan Tan	contact number:
	policyholder address	Binhai Economic Development Zone, Weifang, Shandong Province	post code: 261061
Insured Person information	Name of the insured	HUACHUP PIPING PRODUCTS CO., LTD	Unified social credit code/organization code: 91370700337749195R1
	contact name	Tan Tan	contact number:
	Address of the insured	Binhai Economic Development Zone, Weifang, Shandong Province	post code: 261061
Business nature	Other		
coverage area	Worldwide (including the United States and Canada)		
estimated sales	6000000.00 USD		Premium rate: 0.0025, 00 yuan
Guarantee content	According to the "Product Liability Insurance Terms (1995 Edition)": Coverage: Product Liability (1995 Edition) Insurance Amount: USD 4,000,000.00, Each Occurrence Limit: USD 2 000,000.00 Aggregate Limit: USD 2,000,000.00, Each Occurrence Deductible: USD 1,000,000 ,Default Occurrence Deductible Percentage: 20.00%		
Insurance	RMB (in words): Four Hundred and Fifty Thousand Yuan and seven Cent ¥150000.07(yuan (Arbitrary: Total Premium=selling tax) 624328.27 yuan, Total Value Added Tax amount: 25, 671.70 yuan)		
Insure period	A total of 12 months, starting from 00:00 on May 17, 2025, and ending at 24:00 on May 16, 2026.		
Insurance contract dispute resolution	■Lawsuit □Submission Arbitration Commission Arbitration		
Jurisdiction	Worldwide (Including the United States and Canada)		

100TONG grooved fittings are designed and manufactured to comply with ASTM F1548 and ANSI/AWWA C606. Used for grooved mechanical couplings conforming to ASTM F1476. For sizes not specified in these standards, please contact 100TONG for details.

Ductile Iron–housing Material

100TONG ductile iron pipe couplings and fittings material conforming to ASTM A536 Grade 65–45–12, equal to QT450–12 or SAE J434:D4512 or EN1563:EN–GJS–450–10 OR EN GJS–450–15 or JIS G5502:FCD450–10 or SABS 936/937:SG42.

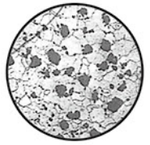
Ductile Iron was first invented in U.S.A and U.K. in the late 1940's.Superior strength was achieved by crystallizing graphite in the shape of nodules. The result was ductile iron that had tensile and yield strength properties that were equal to or greater than some steel castings. This superior strength combined with ductile iron's excellent castability helped to reduce the weight and cost of many components. Because of these advantages and benefits, many components have been converted from gray iron, malleable iron and steel castings to ductile iron over the past 60 years.



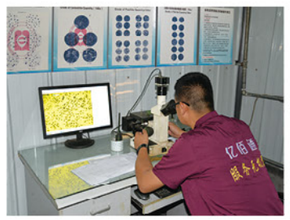
Ductile Iron
Superior tensile strength with good castability



Gray Iron
Excellent castability but 'brittle'–less strength



Malleable Iron
Stronger than gray iron but poor castability







Bolts & Nuts

Carbon steel bolts and nuts Raw materials of bolts and nuts are taken as 35K or 10B21, and its mechanical properties should reach class 8.8 after hot–treatment.



Rubber Gasket Compounds

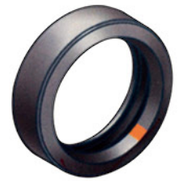
1) EPDM
EPDM is recognized as the most water resistant rubber available today. Good for cold&hot water up to 110℃(230 ˚F),waste water, water with acid, deionized water and seawater. EPDM is not recommended for use with petroleum based oils and fuels, hydrocarbon solvents and aromatic hydrocarbons.

2) Nitrile,NBR
Nitrile and NBR both represent the same copolymer of butadiene and acrylonitrile, which is inherently resistant to hydraulic fluids, lubricating oils, transmission fluids and other non–polar petroleum based products and water less than 65℃(150 ˚F).The higher the acrylonitrile content, the higher the resistance to oils and heat, but the lower elastic characteristics and compression set. NBR displays poor resistance to hot water and steam.

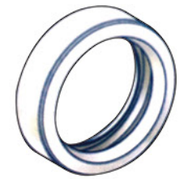
3) Silicone
Silicone compound features high temperature range stability and low temperature flexibility. Recommended for dry heat and air without hydrocarbons up to 177℃(350 ˚F).Silicone compounds are used in many food and medical applications as they do not impart odor or taste. Not recommended for hot water or steam services.



Green Stripe
Grade"E"



Orange Stripe



White Gasket

Gasket Type		XGQT01	XGQT02	XGQT02K	XGQT02B	XGQT31	XGQT32	31A	01Y
Standard		√	√	√		√	√	√	√
Reducing					√				
Endseal									√

100Tong Products Coating and Color

Note:painting or epoxy coating are fit for water system at ordinary temperature if apply on other occasions,please contact 100TONG engineer.



Epoxy Red



Paint Orange



Paint Red



Dacromet/ Galvanized



Epoxy White



Paint Black



91
Quick-Mech 91 Type Rigid Coupling



XGQT01
Rigid Coupling



XGQT01P
Rigid Coupling



92
Quick-Mech 92 Type Flexible Coupling



XGQT02
Flexible Coupling



XGQT02P
Flexible Coupling



XGQT31
Rigid Coupling



XGQT32
Flexible Coupling



XGQT02K
Flexible Coupling



KRJ02
Shouldered Coupling



31A
Angle Pad Coupling



01Y
Heavy Duty Coupling



XGQT35
Quick Rigid Coupling



XGQT02W
Ring Joint Couplings



XGQT01H
Heavy-duty Rigid Coupling



XGQT02H
Heavy-duty Flexible Coupling



XGQT02D
Deep groove clamp



H305
HDPE Coupling



H307
Transition HDPE Coupling



XGQT02B
Reducing Flexible Coupling



101T
Push Lock Coupling



XGQT03U
U-Bolted Mechanical Tee Threaded



XGQT03
Mechanical Tee Grooved



XGQT33
V-Mechanical Tee Grooved



XGQT03S
Mechanical Tee Threaded



XGQT33S
V-Mechanical Tee Threaded



XGQT06L
90° Elbow



XGQT06
90° Elbow



XGQT07
45° Elbow



XGQT09
22.5° Elbow



XGQT10
11.25° Elbow



XGQT06D
Drainage Elbow



XGQT12L
Tee



XGQT12
Tee



XGQT14
Cross



XGQT13
Reducing Tee Grooved



XGQT13S
Reducing Tee Threaded



XGQT16
Grooved Reducer



XGQT16S
Threaded Reducer



XGQT17
Grooved Eccentric Reducer

XGQT18
Flange Adaptor PN16

XGQT18S
Flange Threaded PN16

XGQT28
Flange Adaptor ANSI-Class150

XGQT38
Table E Flange Adaptor

JIS 10K
Flange Adaptor

JIS 20K
Flange Adaptor

XGQT19
Grooved Flange PN16

XGQT29
Grooved Flange ANSI-Class150

XGQT20
Cap

XGQT20S
Threaded Cap

XGQT23
Drain Cap

36
Adapter Nipple

37
Reducing Adapter Nipple

XGQT13
Reducing Tee

XGQT13R
Pitcher Tee

XGQT13F
Pitcher Flange Tee

XGQT21
Hydrant Elbow

22
Adapter Elbow

XGQT31X
Rigid Coupling

XGQT12X
Tee

XGQT06X
90° Elbow

XGQT07X
45° Elbow

Z41X
Flanged Resilient OS&Y Gate Valve

Z45X
Flanged Resiliend NRS Gate Valve

SZ45XC
Flanged Resiliend NRS Gate Valve With Post Flange

SZ45X
Flanged Resilient NRS Gate Valve

D81X
Grooved Butterfly Valve

XD381X
Grooved Butterfly Vavle with Tamper Switch

D381X
Grooved Butterfly Valve with Worm Gear

D71X
Wafer Butterfly Valve

XD371X
Signal to butterfly valve manual

D371X
Wafer Butterfly Valve with Worm Gear

CH01
Clevis hanger

RH01
Ring hanger

PH01
Pear Hanger

RC01
Extension Pipe or Riser Clamp

PC01
Medium Pipe Clamp

QBC01
Q Brace Clamp

SBSA01
Sway Brace Swivel Attachment

TC01
Universal C type Clamp

USBA01
Beam Adaptor

HS01
One Hole Pipe Strap

HS02
Two Hole Pipe Strap

HS03
Two Hole 90° Side Mount trap

HS04
Two Hole Standoff Strap

100TONG product data & technical data are identified by the nominal IPS pipe size in inches or nominal diameter of pipe (DN) in millimeters.
The following chart shows a comparison between typical IPS size and metric sizes.

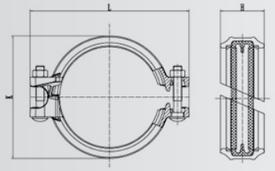
Nominal Size		Outside Diameter (O.D.)								
Inches (Imperial)	DN (Metric.mm)	mm (Actual Pipe O.D.)	DIN mm	BS mm	ISO mm	JIS mm	ANSI mm	GB mm	India IS1239	India IS3589
1/2	15	21.3mm	DN15	DN15	DN15	21.7mm	1/2	DN15	DN15	–
3/4	20	26.7mm	26.9mm	DN20	DN20	27.2mm	3/4	DN20	DN20	–
1	25	33.4mm	33.4mm	DN25	DN25	34.0mm	1	DN25	DN25	–
1 1/4	32	42.2mm	42.4mm	DN32	DN32	42.7mm	1 1/2	DN32	DN32	–
1 1/2	40	48.3mm	DN40	DN40	DN40	48.6mm	1 1/2	DN40	DN40	–
2	50	60.3mm	DN50	DN50	DN50	60.5mm	2	DN50	DN50	–
2 1/2	65	73.1mm	–	–	–	–	2 1/2	–	–	–
		76.1mm BS/ISO	76.1mm	76.1mm	76.1mm	76.3mm	–	76.1mm**	76.1mm**	–
3	80	88.9mm	DN80	DN80	DN80	DN80	3	DN80	DN80	–
3 1/2	90	101.6mm	–	–	–	–	–	–	–	–
4	100	108.0mm China (&old DIN)	DIN133.0 mm	–	–	–	–	108.0mm**	–	–
		114.3mm	DN100	DN100	DN101	DN100	4	DN100	DN100	–
–	127.0mm	127.0mm	–	–	–	–	–	–	–	–
5	125	133.0mm China	–	–	–	–	–	133.0mm**	–	–
		139.7mmBS/So	DN125	139.7mm	139.7mm	139.8mm	–	139.7mm	139.7mm	–
		141.3mm	–	–	–	–	5	–	–	–
–	152.4mm	152.4mm	–	–	–	–	–	–	–	–
6	150	159.0mm China	–	–	–	–	–	159.0mm	–	–
		165.1mmJIS/BS	–	165.1mm	–	165.2mm	–	–	165.1mm	–
		168.3mm	N150	–	DN150	–	6	DN150	–	DN150
–	6	193.7mm	–	–	–	–	–	–	–	193.7mm
–	203.2mm	203.2mm	–	–	–	–	–	–	–	–
8	200	216.3mm JIS	–	–	–	216.3mm	–	–	–	–
		219.1mm	DN200	DN200	DN200	–	8	DN200	DN200	DN200
–	254.0mm	254.0mm	–	–	–	–	–	–	–	–
10	250	267.4mm JIS	–	–	–	267.4mm	–	–	–	–
		273.0mm	DN250	DN250	DN250	–	10	DN250	DN250	DN250
–	304.8mm	304.8mm	–	–	–	–	–	–	–	–
12	300	318.5mm JIS	–	–	–	318.5mm	–	–	–	–
		323.9mm	DN300	DN300	DN300	–	12	–	–	–
14	350	355.6mm	DN350	DN350	DN350	DN350	14	DN350	–	–
		377.0mm China	–	–	–	–	–	377.0mm	–	–
16	400	406.4mm	DN400	DN400	DN400	DN400	16	DN400	–	–
		426.0mm China	–	–	–	–	–	426.0mm	–	–
18	450	457.2mm	DN450	DN450	DN450	DN450	18	DN450	–	–
		480.0mm China	–	–	–	–	–	480.0mm	–	–
20	500	508.0mm	DN500	DN500	DN500	DN500	20	DN500	–	–
		530.0mm China	–	–	–	–	–	530.0mm	–	–
22	550	558.8mm	–	–	–	DN550	22	559.0mm	–	–
		580.0mm China	–	–	–	–	–	580.0mm	–	–
24	600	610.0mm	DN600	DN600	DN600	DN600	24	DN600	–	–
		630.0mm China	–	–	–	–	–	630.0mm	–	–

Important Note:
Nominal designations are used where the actual O.D. of the pipe matches the ANSI size.
Otherwise both the nominal and actual O.D. are listed.
China sizes are listed as actual O.D. in mm.
****China sizes are tubing sizes.**

91
Quick–Mech 91 Type Rigid Coupling







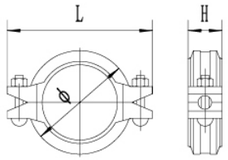
100TONG Model 91 is Ductilelron Grooved Rigid Couplings.91 is designed for use onschedule 10,schedule 30,schedule40,GB/T3091, FF,MF,EF,HF,ISO 4200 D,ISO 4200 E,ISO 4200 F,ISO 4200 G,EN10217–1,EN 10220, and KS D 3507 pipe.Sizes of 91 from 25mm–300mm/1"–12" . Pressure of 91 conform to the list from UL.
The quick coupling is designed based on the speical structure. We don't need to disasseble bolts&nuts,and gaskets during installation. The pipe can be directly inserted into the couplings ,then we just fasten the bolts&nuts, which only takes 1/3 of the time with standard coupling installation. Meanwhile, we don't need to worry about the bolts&nuts missing possibility during installation of standard coupling.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No.–Size mm	Dimensions L mm/in K	L	H	UL	FM
25 1	33.7 1.327	300 2.07	2–M10×55 2–3/8×55	63 2.48	95 3.74	47 1.85	UL	
32 1 1/4	42.4 1.669	300 2.07	2–M10×55 2–3/8×55	72 2.83	104 4.09	47 1.85	UL	
40 1 1/2	48.3 1.900	300 2.07	2–M10×55 2–3/8×55	77 3.03	111 4.37	47 1.85	UL	
50 2	60.3 2.375	300 2.07	2–M10×55 2–3/8×55	91 3.58	123 4.84	47 1.85	UL	
65 2 1/2	73.0 2.875	300 2.07	2–M10×60 2–3/8×60	103 4.06	137 5.39	47 1.85	UL	
65 2 1/2	76.1 3.000	300 2.07	2–M10×60 2–3/8×60	107 4.21	141 5.55	47 1.85	UL	
80 3	88.9 3.500	300 2.07	2–M10×60 2–3/8×60	119 4.69	155 6.10	48.5 1.91	UL	
100 4	108 4.250	300 2.07	2–M12×65 2–1/2×65	144 5.67	178 7.01	51.5 2.03	UL	
100 4	114.3 4.500	300 2.07	2–M12×65 2–1/2×65	149 5.87	185 7.28	51.5 2.03	UL	
125 5	139.7 5.500	300 2.07	2–M12×75 2–1/2×75	177 6.97	214 8.43	52 2.05	UL	
125 5	141.3 5.563	300 2.07	2–M12×75 2–1/2×75	178 7.01	215 8.46	52 2.05	UL	
150 6	159.0 6.250	300 2.07	2–M12×80 2–1/2×80	196 7.72	235 9.25	52.5 2.07	UL	
150 6	165.1 6.500	300 2.07	2–M12×80 2–1/2×80	201 7.91	240 9.45	52.5 2.07	UL	
150 6	168.3 6.625	300 2.07	2–M12×80 2–1/2×80	205 8.07	244 9.61	52.5 2.07	UL	
200 8	216.3 8.516	300 2.07	2–M16×100 2–5/8×100	259 10.20	313 12.32	64 2.52	UL	
200 8	219.1 8.625	300 2.07	2–M16×100 2–5/8×100	264 10.39	316 12.44	64 2.52	UL	
250 10	267.0 10.512	300 2.07	2–M22×155 2–7/8×155	328 12.91	388 15.28	68 2.68	UL	
250 10	273.0 10.748	300 2.07	2–M22×155 2–7/8×155	334 13.15	395 15.55	68 2.68	UL	
300 12	318.4 12.535	300 2.07	2–M22×155 2–7/8×155	381 15.00	444 17.48	68 2.68	UL	
300 12	323.9 12.752	300 2.07	2–M22×155 2–7/8×155	387 15.24	451 17.76	68 2.68	UL	

XGQT01
Rigid Coupling







100TONG Model XGQT01 is Ductile Iron Grooved Rigid Couplings. XGQT01 is designed for use on schedule 10, schedule 30, schedule 40, GB/T3091 and WGalweld 7 pipe. Sizes of XGQT01 from 25mm–300mm/1"–12". Pressure of XGQT01 conform to the list from UL and FM.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in			UL	FM
			No.–Size mm	Φ	L	H		
25 1	33.7 1.327	500 3.45	2–M10×45	57.5 2.264	99 3.898	43.5 1.713	UL	FM
32 1 1/4	42.4 1.669	500 3.45	2–M10×45	66 2.598	106 4.173	44 1.732	UL	FM
40 1 1/2	48.3 1.900	500 3.45	2–M10×45	72 2.835	112.5 4.429	44 1.732	UL	FM
50 2	60.3 2.375	500 3.45	2–M10×55	84 3.307	125 4.921	44 1.732	UL	FM
65 2 1/2	73.0 2.875	500 3.45	2–M10×55	98 3.858	139 5.472	44.5 1.752	UL	FM
65 2 1/2	76.1 3.000	500 3.45	2–M10×55	101 3.976	142 5.591	45 1.772	UL	FM
80 3	88.9 3.500	500 3.45	2–M12×60	115 4.527	164 6.457	45 1.772	UL	FM
100 4	108.0 4.250	500 3.45	2–M12×65	137 5.394	186 7.323	48 1.890	UL	FM
100 4	114.3 4.500	500 3.45	2–M12×65	139 5.472	189 7.441	48.5 1.909	UL	FM
125 5	133.0 5.250	300 2.07	2–M12×75	163 6.417	214 8.425	48 1.890	UL	FM
125 5	139.7 5.500	400 2.75	2–M12×75	166 6.535	217 8.543	48.5 1.909	UL	FM
125 5	141.3 5.563	400 2.75	2–M12×75	168 6.614	219 8.622	48.5 1.909	UL	FM
150 6	159.0 6.250	300 2.07	2–M12×75	190 7.480	241 9.448	48.5 1.909	UL	FM
150 6	165.1 6.500	400 2.75	2–M12×75	192 7.559	243 9.567	49 1.929	UL	FM
150 6	168.3 6.625	400 2.75	2–M12×75	199 7.835	251 9.882	49 1.929	UL	FM
200 8	216.3 8.516	300 2.07	2–M20×120	252 9.921	320 12.598	60 2.362		
200 8	219.1 8.625	300 2.07	2–M16×85	253 9.961	317 12.480	59 2.323	UL	FM
250 10	273 10.748	300 2.07	2–M22×130	321 12.638	400 15.748	63 2.480	UL	FM
300 12	323.9 12.752	300 2.07	2–M22×130	376 14.803	452 17.795	64 2.520	UL	FM

XGQT01P
Rigid Coupling

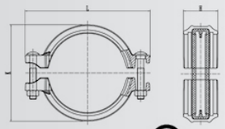


Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in			UL	FM
			No.–Size mm	Φ	L	H		
125 5	139.7 5.500	500 3.45	2–M16×85	169.5 6.673	229 9.016	52 2.047	UL	FM
125 5	141.3 5.563	500 3.45	2–M16×85	170.5 6.713	232 9.134	52 2.047	UL	FM
150 6	165.1 6.50	500 3.45	2–M16×85	195 7.677	256 10.079	52 2.047	UL	FM
150 6	168.3 6.625	500 3.45	2–M16×85	202.5 7.972	263.5 10.374	52 2.047	UL	FM
200 8	219.1 8.625	450 3.10	2–M20×120	256.5 10.098	336 13.228	62 2.441	UL	FM
250 10	273.0 10.750	400 2.76	2–M24×130	326 12.835	410 16.142	65 2.441	UL	FM
300 12	323.9 12.750	400 2.76	2–M24×130	384 15.118	472 18.583	66 2.598	UL	FM

92
Quick–Mech 92 Type Flexible Coupling







100TONG Model 92 is DuctileIron Grooved Flexible Couplings.92 is designed for use onschedule 10,schedule 30,schedule40,GB/T3091, FF,MF,EF,HF,ISO 4200 D,ISO 4200 E,ISO 4200 F,ISO 4200 G,EN10217–1,EN 10220, and KS D 3507 pipe.Sizes of 92 from 25mm–300mm/1"–12". Pressure of 92 conform to the list from UL.
The quick coupling is designed based on the speical structure. We don't need to disasseble bolts&nuts,and gaskets during installation. The pipe can be directly inserted into the couplings ,then we just fasten the bolts&nuts, which only takes 1/3 of the time with standard coupling installation. Meanwhile, we don't need to worry about the bolts&nuts missing possibility during installation of standard coupling.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in			UL	FM
			No.–Size mm	K	L	H		
25 1	33.7 1.327	300 2.07	2–M10×55 2–3/8×55	63 2.48	95 3.74	47 1.85	UL	
32 1 1/4	42.4 1.669	300 2.07	2–M10×55 2–3/8×55	72 2.83	104 4.09	47 1.85	UL	
40 1 1/2	48.3 1.900	300 2.07	2–M10×55 2–3/8×55	77 3.03	111 4.37	47 1.85	UL	
50 2	60.3 2.375	300 2.07	2–M10×55 2–3/8×55	91 3.58	123 4.84	47 1.85	UL	
65 2 1/2	73.0 2.875	300 2.07	2–M10×60 2–3/8×60	103 4.06	137 5.39	47 1.85	UL	
65 2 1/2	76.1 3.000	300 2.07	2–M10×60 2–3/8×60	107 4.21	141 5.55	47 1.85	UL	
80 3	88.9 3.500	300 2.07	2–M10×60 2–3/8×60	119 4.69	155 6.10	48.5 1.91	UL	
100 4	114.3 4.500	300 2.07	2–M12×65 2–1/2×65	149 5.87	185 7.28	51.5 2.03	UL	
125 5	139.7 5.500	300 2.07	2–M12×75 2–1/2×75	177 6.97	214 8.43	52 2.05	UL	
125 5	141.3 5.563	300 2.07	2–M12×75 2–1/2×75	178 7.01	215 8.46	52 2.05	UL	
150 6	165.1 6.500	300 2.07	2–M12×80 2–1/2×80	201 7.91	240 9.45	52.5 2.07	UL	
150 6	168.3 6.625	300 2.07	2–M12×80 2–1/2×80	205 8.07	244 9.61	52.5 2.07	UL	
200 8	219.1 8.625	300 2.07	2–M16×100 2–5/8×100	264 10.39	316 12.44	64 2.52	UL	
250 10	273.0 10.748	300 2.07	2–M22×155 2–7/8×155	334 13.15	395 15.55	68 2.68	UL	
300 12	323.9 12.752	300 2.07	2–M22×155 2–7/8×155	387 15.24	451 17.76	68 2.68	UL	

XGQT02P
Flexible Coupling



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in			UL	FM
			No.–Size mm	Φ	L	H		
125 5	139.7 5.500	500 3.45	2–M16×85	169.5 6.673	229 9.016	52 2.047	UL	FM
125 5	141.3 5.563	500 3.45	2–M16×85	170.5 6.713	232 9.134	52 2.047	UL	FM
150 6	165.1 6.50	500 3.45	2–M16×85	195 7.677	256 10.079	52 2.047	UL	FM
150 6	168.3 6.625	500 3.45	2–M16×85	202.5 7.972	263.5 10.374	52 2.047	UL	FM
200 8	219.1 8.625	450 3.10	2–M20×120	256.5 10.098	336 13.228	62 2.441	UL	FM
250 10	273.0 10.750	400 2.76	2–M24×130	326 12.835	410 16.142	65 2.441	UL	FM
300 12	323.9 12.750	400 2.76	2–M24×130	384 15.118	472 18.583	66 2.598	UL	FM

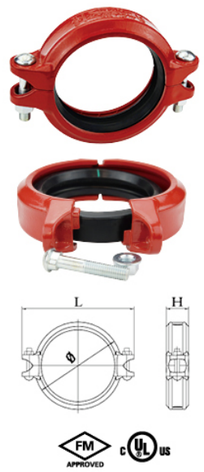
XGQT02
Flexible Coupling



100TONG Model XGQT02 is Ductile Iron Grooved Flexible Couplings. XGQT02 is designed for use on schedule 10, schedule 30, schedule 40, GB/T3091 and WGalweld 7 pipe.Sizes of XGQT02 from 25mm–400mm/1”–16”. Pressure of XGQT02 conform to the list from UL and FM.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in			UL	FM
			No.–Size mm	Φ	L	H		
25 1	33.7 1.327	500 3.45	2–M10×45	58 2.283	98 3.858	43.5 1.713	UL	FM
32 1¼	42.4 1.669	500 3.45	2–M10×45	66 2.598	106 4.173	44 1.732	UL	FM
40 1½	48.3 1.900	500 3.45	2–M10×45	72 2.835	111 4.370	44 1.732	UL	FM
50 2	60.3 2.375	500 3.45	2–M10×55	84 3.307	124 4.882	44 1.732	UL	FM
65 2½	73.0 2.875	500 3.45	2–M10×55	98 3.858	139 5.472	45 1.772	UL	FM
65 2½	76.1 3.000	500 3.45	2–M10×55	101 3.976	142 5.591	45 1.772	UL	FM
80 3	88.9 3.500	500 3.45	2–M12×60	115 4.527	165 6.496	45 1.772	UL	FM
100 4	108.0 4.250	500 3.45	2–M12×65	137 5.393	186 7.323	48 1.890	UL	FM
100 4	114.3 4.500	500 3.45	2–M12×65	139 5.472	189 7.441	48.5 1.909	UL	FM
125 5	133.0 5.250	300 2.07	2–M12×75	163 6.417	214 8.425	48 1.890	UL	FM
125 5	139.7 5.500	400 2.75	2–M12×75	166 6.535	217 8.543	49 1.929	UL	FM
125 5	141.3 5.563	400 2.75	2–M12×75	168 6.614	217 8.543	48.5 1.909	UL	FM
150 6	159.0 6.250	300 2.75	2–M12×75	190 7.480	241 9.488	48.5 1.909	UL	FM
150 6	165.1 6.500	400 2.07	2–M12×75	192 7.560	242 9.527	49 1.929	UL	FM
150 6	168.3 6.625	400 2.75	2–M12×75	199 7.835	249 9.803	49 1.929	UL	FM
200 8	219.1 8.625	300 2.07	2–M16×85	253 9.961	317 12.480	59 2.323	UL	FM
250 10	273 10.748	300 2.07	2–M22×130	321 12.638	398 15.670	63 2.480	UL	FM
300 12	323.9 12.752	300 2.07	2–M22×130	376 14.803	452 17.795	64 2.520	UL	FM

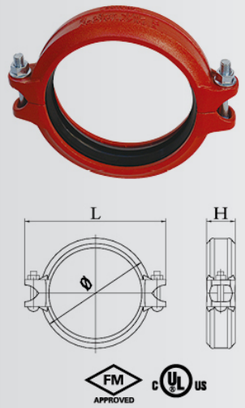
XGQT31
Rigid Coupling



100TONG Model XGQT31 is Ductile Iron Grooved Rigid Couplings.XGQT31 is designed for use on Schedule5, schedule 10, schedule 40, GB/T3091, JIS G3452, WGalweld 5 and WGalweld 7 pipe. Sizes of XGQT31 from 25mm–300mm/1”–12”. Pressure of XGQT31 conform to the list from UL and FM.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in			UL	FM
			No.–Size mm	Φ	L	H		
25 1	33.7 1.327	500 3.45	2–M10×45	58 2.283	101 3.976	44 1.732	UL	FM
32 1¼	42.4 1.669	500 3.45	2–M10×45	67 2.638	107 4.213	44 1.732	UL	FM
40 1½	48.3 1.900	500 3.45	2–M10×45	72 2.835	111 4.370	44 1.732	UL	FM
50 2	60.3 2.375	500 3.45	2–M10×55	85 3.346	125 4.921	44 1.732	UL	FM
65 2½	73.0 2.875	500 3.45	2–M10×55	99 3.898	139 5.472	45 1.772	UL	FM
65 2½	76.1 3.000	500 3.45	2–M10×55	102 4.016	143 5.630	45 1.772	UL	FM
80 3	88.9 3.500	500 3.45	2–M12×60	116 4.567	166 6.535	45 1.772	UL	FM
100 4	108.0 4.250	500 3.45	2–M12×65	138 5.433	188 7.401	48 1.890	UL	FM
100 4	114.3 4.500	500 3.45	2–M12×65	141 5.551	191 7.520	49 1.929	UL	FM
125 5	133.0 5.250	300 2.07	2–M12×75	164 6.457	214 8.425	48 1.890	UL	FM
125 5	139.7 5.500	300 2.07	2–M12×75	167 6.575	219 8.622	49 1.929	UL	FM
125 5	141.3 5.563	300 2.07	2–M12×75	167 6.575	219 8.622	49 1.929	UL	FM
150 6	159.0 6.250	300 2.07	2–M12×75	190 7.480	242 9.528	49 1.929	UL	FM
150 6	165.1 6.500	300 2.07	2–M12×75	192 7.559	246 9.685	50 1.969	UL	FM
150 6	168.3 6.625	300 2.07	2–M12×75	200 7.874	251 9.882	49 1.929	UL	FM
200 8	216.3 8.504	300 2.07	2–M16×85	250 9.843	317 12.480	59 2.323	UL	FM
200 8	219.1 8.625	300 2.07	2–M16×85	253 9.961	320 12.598	59 2.323	UL	FM
250 10	273.0 10.748	300 2.07	2–M22×130	335 13.189	426 16.772	68 2.677	UL	FM
300 12	323.9 12.752	300 2.07	2–M22×130	380 14.96	470 18.504	65 2.559	UL	FM

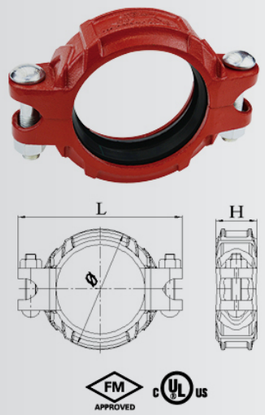
XGQT32
Flexible Coupling



100TONG Model XGQT32 is Ductile Iron Grooved Flexible Couplings. XGQT32 is designed for use on Schedule5, schedule 10, schedule 40, GB/T3091, JIS G3452, WGalweld 5 and WGalweld 7 pipe. Sizes of XGQT32 from 25mm–300mm/1”–12”. Pressure of XGQT32 conform to the list from UL and FM.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions mm/in			UL	FM
			No.–Size mm	Ø	L	H		
25 1	33.7 1.327	500 3.45	2–M10×45	58 2.283	100 3.937	44 1.732	UL	FM
32 1¼	42.4 1.669	500 3.45	2–M10×45	67 2.638	107 4.213	44 1.732	UL	FM
40 1½	48.3 1.900	500 3.45	2–M10×45	72 2.835	111 4.370	44 1.732	UL	FM
50 2	60.3 2.375	500 3.45	2–M10×55	85 3.346	124 4.882	44 1.732	UL	FM
65 2½	73.0 2.875	500 3.45	2–M10×55	99 3.898	138 5.433	45 1.772	UL	FM
65 2½	76.1 3.000	500 3.45	2–M10×55	102 4.016	142 5.591	45 1.772	UL	FM
80 3	88.9 3.500	500 3.45	2–M12×60	116 4.567	165 6.496	45 1.772	UL	FM
100 4	108.0 4.250	500 3.45	2–M12×65	138 5.433	187 7.362	48 1.890	UL	FM
100 4	114.3 4.500	500 3.45	2–M12×65	141 5.551	190 7.480	49 1.929	UL	FM
125 5	133.0 5.250	300 2.07	2–M12×75	164 6.457	213 8.386	48 1.890	UL	FM
125 5	139.7 5.500	300 2.07	2–M12×75	167 6.575	218 8.583	49 1.929	UL	FM
125 5	141.3 5.563	300 2.07	2–M12×75	167 6.575	219 8.622	49 1.929	UL	FM
150 6	159.0 6.250	300 2.07	2–M12×75	190 7.480	240 9.449	49 1.929	UL	FM
150 6	165.1 6.500	300 2.07	2–M12×75	192 7.559	245 9.646	50 1.969	UL	FM
150 6	168.3 6.625	300 2.07	2–M12×75	200 7.874	250 9.843	49 1.929	UL	FM
200 8	216.3 8.504	300 2.07	2–M16×85	250 9.843	316 12.441	59 2.323	UL	FM
200 8	219.1 8.625	300 2.07	2–M16×85	253 9.961	319 12.559	59 2.323	UL	FM
250 10	267.4 10.512	300 2.07	2–M20×120	307 12.087	388 15.276	65 2.559	UL	FM
250 10	273.0 10.748	300 2.07	2–M22×130	317 12.48	401 15.787	63 2.48	UL	FM
300 12	318.5 12.520	300 2.07	2–M22×130	360 14.173	450 17.717	65 2.559	UL	FM
300 12	323.9 12.752	300 2.07	2–M22×130	375 14.764	455 17.913	64 2.52	UL	FM

XGQT02K
Flexible Coupling

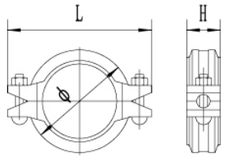


The specific itmes list shall be subject to the public notice of FM and UL website.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in			UL	FM
			No.–Size mm	Φ	L	H		
60.3 2. 375	500 3.45	500 3.45	2–M12×60	87 3.425	132 5.197	45.5 1.791	FM	UL
73 2.875	500 3.45	500 3.45	2–M12×65	103 4.055	147.5 5.807	46 1.811		
76.1 3.000	500 3.45	500 3.45	2–M12×65	105.5 4.153	149.5 5.886	46 1.811		
88.9 3.500	500 3.45	500 3.45	2–M12×75	117 4.606	161 6.339	46 1.811	FM	UL
114. 3 4.500	500 3.45	500 3.45	2–M16×85	145 5.709	203 7.992	51 2.008	FM	UL
139.7 5.500	500 3.45	500 3.45	2–M16×85	173 6.811	230 9.055	51 2.008		
159.0 6.250	500 3.45	500 3.45	2–M16×85	193 7.598	246 9.685	50 1.968		
165.1 6. 50	500 3.45	500 3.45	2–M16×85	199 7.835	262 10.315	52 2.047		
168.3 6.625	500 3.45	500 3.45	2–M20×120	205.5 8.090	270 10.630	54 2.126	FM	UL
216.3 8.516	400 2.76	400 2.76	2–M22×130	258 10.157	335 13.189	63 2.480		
219.1 8.625	400 2.76	400 2.76	2–M22×130	270.5 10.650	355 13.976	64 2.520	FM	UL
267.4 10.527	400 2.76	400 2.76	2–M24×165	320.5 12.618	401 15.787	64 2.520		
273.0 10.750	400 2.76	400 2.76	2–M24×165	329.5 12.972	417 16.417	66 2.598	FM	UL
318.5 12.539	400 2.76	400 2.76	2–M24×165	375.8 14.795	465 18.307	64 2.520		
323.9 12.750	400 2.76	400 2.76	2–M24×165	383 15.079	462 18.189	67 2.638	FM	UL

KRJ02
Shouldered Coupling

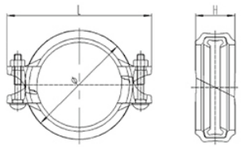




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in		
			No.–Size mm	Φ	L	H
40 1 1/2	48.3 1.900	500 3.45	2–M10×55	81 3.189	117 4.606	47 1.85
50 2	60.3 2.375	500 3.45	2–M12×60	97 3.957	132 5.197	48 1.89
65 2 1/2	76.1 3.000	500 3.45	2–M12×65	108 4.252	153 6.024	46 1.811
80 3	88.9 3.500	500 3.45	2–M12×75	125 4.921	170 6.692	48 1.89
100 4	114.3 4.500	500 3.45	2–M12×75	157 6.181	205 8.070	52 2.047
125 5	139.7 5.500	500 3.45	2–M16×85	184 7.244	241 9.488	52 2.047
150 6	165.1 6.500	500 3.45	2–M16×85	213 8.386	272 10.708	52 2.047
200 8	219.1 8.625	500 3.45	2–M20×100	278 10.945	345 13.583	60 2.362
250 10	273 10.748	500 3.45	2–M22×130	341 13.425	416 16.338	64 2.52
250 10	273 10.748	500 3.45	2–M24×130	344.5 13.563	432 17.008	65 2.559
300 12	323.9 12.752	500 3.45	2–M24×130	391.5 15.413	484 19.055	65 2.559
350 14	355.6 14.000	500 3.45	3–M22×100	428 16.85	504 19.84	75 2.95

31A
Angle Pad Coupling



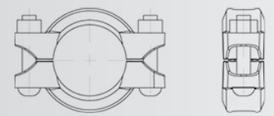


FM APPROVED c UL us

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in			UL	FM
			No.–Size mm	Φ	L	H		
25 1	33.7 1.327	300 2.07	2–M10×45	57.4 2.260	98 3.858	47 1.85	UL	FM
32 1 1/4	42.4 1.669	300 2.07	2–M10×55	65 2.559	106 4.173	47 1.85	UL	FM
40 1 1/2	48.3 1.900	300 2.07	2–M10×55	70.5 2.776	111 4.37	47 1.85	UL	FM
50 2	60.3 2.375	300 2.07	2–M10×60	85 3.346	123.5 4.862	47 1.85	UL	FM
65 2 1/2	73.0 2.875	300 2.07	2–M10×60	99 3.900	137.5 5.413	47 1.85	UL	FM
65 2 1/2	76.1 3.000	300 2.07	2–M10×60	102 4.016	141.5 5.571	47 1.85	UL	FM
80 3	88.9 3.500	300 2.07	2–M12×65	117 4.606	164.5 6.476	47.5 1.87	UL	FM
100 4	108 4.250	300 2.07	2–M12×70	138.5 5.453	186 7.323	52 2.047	UL	FM
100 4	114.3 4.500	300 2.07	2–M12×70	140.5 5.531	188 7.402	52 2.047	UL	FM
125 5	139.7 5.500	300 2.07	2–M12×75	167.5 6.595	219 8.622	52 2.047	UL	FM
125 5	141.3 5.563	300 2.07	2–M12×75	167.5 6.595	219 8.622	52 2.047	UL	FM
150 6	159.0 6.250	300 2.07	2–M12×75	190 7.480	240 9.449	52.5 2.067	UL	FM
150 6	165.1 6.500	300 2.07	2–M12×75	193 7.598	243 9.567	52.5 2.067	UL	FM
150 6	168.3 6.625	300 2.07	2–M12×75	200 7.874	249 9.803	52.5 2.067	UL	FM
200 8	216.3 8.516	300 2.07	2–M16×110	251 9.882	312 12.283	64 2.52	UL	FM
200 8	219.1 8.625	300 2.07	2–M16×110	251 9.882	320 12.598	64 2.52	UL	FM
250 10	267.0 10.512	300 2.07	2–M22×155	307 12.087	392 15.433	66 2.60	UL	FM
250 10	273.0 10.748	300 2.07	2–M22×155	316 12.441	400 15.748	66 2.60	UL	FM
300 12	323.9 12.752	301 2.07	2–M24×165	376.5 14.823	464 18.268	66 2.60	UL	FM

01Y
Heavy Duty Coupling

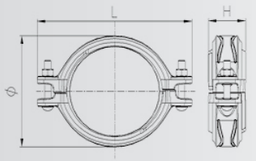




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in		
			No.–Size mm	Φ	L	H
50 2	60.3 2.375	1000 6.90	2–5/8×70	95 3.740	147 5.787	49 1.929
80 3	88.9 3.500	1000 6.90	2–5/8×90	120 4.724	175 6.890	49 1.929
100 4	114.3 4.500	1000 6.90	2–3/4×110	156 6.142	218 8.583	55 2.165
150 6	168.3 6.625	1000 6.90	2–7/8×150	228 8.976	290 11.417	59 2.323
200 8	219.1 8.625	1000 6.90	2–1×165	292 11.496	353 13.898	66 2.598
250 10	273.0 10.748	1000 6.90	2–1×165	316 12.441	405 15.945	68 2.677
300 12	323.9 12.752	1000 6.90	2–1×165	368 14.488	464 18.268	71 2.795

XGQT35
Quick Rigid Coupling

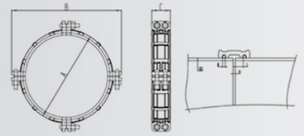




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in			UL	FM
			No.–Size mm	Φ	L	H		
50 2	60.3 2.375	400 2.75	2–M10×65	85.5 3.366	148 5.827	54 2.126	UL	
65 2 1/2	73.0 2.875	400 2.75	2–M10×65	99 3.898	160.5 6.319	54 2.126	UL	
65 2 1/2	76.1 3.000	400 2.75	2–M10×65	101.5 3.996	163.5 6.437	54 2.126	UL	
80 3	88.9 3.500	400 2.75	2–M12×70	115 4.528	184 7.244	54 2.126	UL	
100 4	114.3 4.500	300 2.07	2–M12×80	140 5.512	212 8.346	58 2.283	UL	
125 5	139.7 5.500	300 2.07	2–M12×80	166 6.535	240 9.449	58 2.283	UL	
125 5	141.3 5.563	300 2.07	2–M12×80	167.5 6.594	242 9.528	58 2.283	UL	
150 6	165.1 6.500	300 2.07	2–M12×80	192 7.559	264.5 10.413	58 2.283	UL	
150 6	168.3 6.625	300 2.07	2–M12×80	195.5 7.697	270 10.63	58 2.283	UL	

XGQT02W
Ring Joint Coupligs

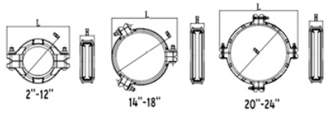




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure MPa	Allow Pine End sep. H(mm)	Deflection from CL		Bolt Size	Maximum overall size			Sealing Size R mm
				Degree	mm/M	No.–Size	A	B	C	
150 6	165.1 6.500	300 2.07	0–6.4	1.2°	0.25 21	4–3/4×108	202 7.953	280 11.024	95 3.74	10 0.394
150 6	168.3 6.625	300 2.07	0–6.4	1.2°	0.25 21	4–3/4×108	206 8.11	283 11.142	95 3.74	10 0.394
350 14	355.6 14.00	300 2.07	0–6.4	1.2°	0.25 21	6–M16×135	405 15.945	490 19.291	99 3.898	8 0.315
400 16	406.4 16.00	300 2.07	0–6.4	0.9°	0.19 16	6–M16×135	455 17.913	540 21.260	99 3.898	8 0.315
450 18	457.2 18.00	300 2.07	0–9.5	1.2°	0.25 21	6–M20×120	508 20.00	605 23.819	105 4.134	8 0.315
500 20	508 20.00	300 2.07	0–9.5	1.08°	0.23 19	8–M22×100	568 22.362	678 26.693	115 4.528	9.5 0.374
600 24	609.6 24.00	300 2.07	0–9.5	0.8°	0.17 14	8–M22×100	672 26.457	782 30.787	125 4.921	12.7 0.50

XGQT01H
Heavy-duty Rigid Coupling

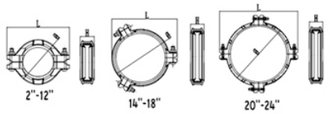




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in			UL	FM
			No.–Size mm	Φ	L	H		
50 2	60.3 2.375	500 3.45	2–M10×55	88.6 3.488	129.5 5.098	46 1.811	UL	
65 $2^1/_2$	76.1 3.000	500 3.45	2–M10×55	107.8 4.244	149 5.866	46 1.811	UL	
80 3	88.9 3.500	500 3.45	2–M12×75	120.8 4.756	171 6.732	46 1.811	UL	
100 4	114.3 4.500	500 3.45	2–M12×75	146 5.748	197 7.756	51 2.008	UL	
125 5	139.7 5.500	450 3.1	2–M16×100	174.8 6.882	234 9.213	51 2.008	UL	
150 6	165.1 6.500	450 3.1	2–M16×100	200.2 7.882	260.5 10.256	53 2.087	UL	
200 8	216.3 8.516	300 2.07	2–M20×120	261.4 10.291	333 13.11	63 2.480	UL	
250 10	267.4 10.528	300 2.07	2–M22×130	318.6 12.543	395 15.551	64 2.52	UL	
300 12	318.5 12.539	300 2.07	2–M22×165	371 14.606	451 17.756	64 2.52	UL	
350 14	355.6 14.00	300 2.07	3–M22×100	406 15.984	461 18.15	75 2.953	UL	
400 16	406.4 16.00	300 2.07	3–M22×100	458.6 18.055	513.8 20.228	75 2.953	UL	
450 18	457.2 18.00	250 1.72	3–M22×100	515 20.276	571 22.48	82 3.228	UL	
500 20	508 20.00	250 1.72	4–M24×130	565 22.244	690 27.165	79 3.11	UL	
600 24	609.6 24	250 1.72	4–M24×130	676 26.614	786.6 30.969	79 3.11	UL	

XGQT02H
Heavy-duty Flexible Coupling

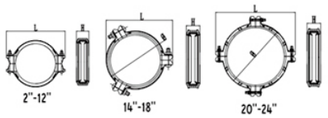




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in			UL	FM
			No.–Size mm	Φ	L	H		
350 14	355.6 14.00	300 2.07	3–M22×100	406 15.984	454 17.874	75 2.953	UL	
400 16	406.4 16.00	250 1.72	3–M22×100	458 18.031	507 19.961	75 2.953	UL	
450 18	457.2 18.00	250 1.72	3–M22×100	507 19.961	535 21.063	82 3.228	UL	
500 20	508 20.00	250 1.72	4–M24×130	564 22.205	663 26.102	79 3.11	UL	
600 24	609.6 24	250 1.72	4–M24×130	672 26.457	774 30.472	79 3.11	UL	

XGQT02D
Deep groove clamp

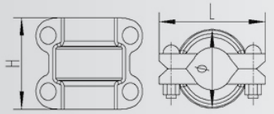




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in			UL	FM
			No.–Size mm	Φ	L	H		
200 8	216.3 8.516	250 1.72	2–M20×120	251.8 9.913	328 12.913	63 2.480	UL	
250 10	267.4 10.528	250 1.72	2–M20×120	309.6 12.189	387 15.236	64.5 2.539	UL	
300 12	318.5 12.539	300 2.07	2–M22×165	361.4 14.228	448 17.638	64.5 2.539	UL	
350 14	355.6 14.00	300 2.07	3–M22×100	411 16.181	458 18.031	75 2.953	UL	
400 16	406.4 16.00	300 2.07	3–M22×100	461 18.15	508 20.00	75 2.953	UL	
450 18	457.2 18.00	250 1.72	3–M24×130	515 20.276	567 22.323	79 3.228	UL	
500 20	508 20.00	250 1.72	4–M24×130	562 22.126	666 26.22	78.5 3.091	UL	

H305
HDPE Coupling

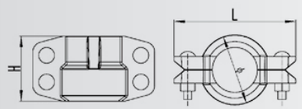




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in		
			No.–Size mm	Φ	L	H
50 2	60.3 2.374	300 2.07	4–M12×60	83 3.268	120 4.724	117 4.606
	63 2.480	300 2.07	4–M10×60	86 3.386	116 4.567	105 4.134
80 3	88.9 3.500	300 2.07	4–M12×75	114 4.488	165 6.496	116 4.567
	110 4.331	300 2.07	4–M12×75	137.5 5.413	180 7.087	110 4.331
100 4	114.3 4.500	300 2.07	4–M12×75	143.5 5.650	201 7.913	146 5.748
	160 6.299	300 2.07	4–M12×75	189 7.441	236 9.291	118 4.646
150 6	168.3 6.626	300 2.07	4–M16×85	199.5 7.854	250 9.843	149 5.866
	200 7.874	300 2.07	4–M16×85	238 9.370	309 12.165	127 5.000
200 8	219.1 8.626	300 2.07	4–M16×85	257.5 10.138	309 12.165	152 5.984
	252 9.921	300 2.07	4–M16×100	288.5 11.358	348 13.701	135 5.315
250 10	273 10.748	300 2.07	4–M20×100	310.5 12.224	386 15.197	164 6.457
	315 12.402	300 2.07	4–M20×120	358.5 14.114	438 17.244	165 6.496
300 12	324 12.752	300 2.07	4–M20×120	367.5 14.469	444 17.480	180 7.087

H307
Transition HDPE Coupling

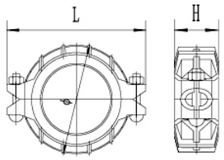




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in		
			No.–Size mm	Φ	L	H
50 2	60.3 2.375	300 2.07	4–M12×60	84 3.07	146 5.748	78 3.071
80 3	88.9 3.5	300 2.07	4–M12×75	112 4.409	174 6.85	79 3.11
	110 4.33	300 2.07	4–M12×75	137.6 5.417	192 7.559	80 3.150
100 4	114 4.5	300 2.07	4–M12×75	142 5.591	208 8.189	95 3.74
	160 6.299	300 2.07	4–M12×75	188 7.402	246 9.685	85 3.346
150 6	168.3 6.626	300 2.07	4–M16×85	198 7.795	280 11.024	96 3.78
200 8	219.1 8.626	300 2.07	4–M16×85	260 10.236	342 13.465	107 4.213
250 10	273 10.748	300 2.07	4–M20×120	314 12.362	424 16.693	128 5.039
300 12	323.9 10.748	300 2.07	4–M20×120	368 14.488	470 18.504	129 5.079

XGQT02B
Reducing Flexible Coupling



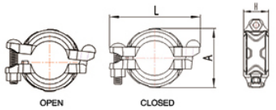


100TONG Model XGQT02B is Ductile Iron Grooved Reducing Flexible Couplings. XGQT02B is designed for use on schedule 10, schedule 40 and GB/T3091 pipe. Sizes of XGQT02B from 50mm–200mm/2" –8". Pressure of XGQT02B conform to the list from UL and FM.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in			UL	FM
			No.–Size mm	Φ	L	H		
40×32 1 1/2×1 1/4	48.3×42.4 1.900×1.669	300 2.07	2–M10×45	73.6 2.899	111 4.37	44 1.732	UL	FM
50×40 2×1 1/2	60.3×48.3 2.375×1.900	300 2.07	2–M10×55	90 3.543	129 5.079	47 1.850	UL	FM
65×40 2 1/2×1 1/2	73.0×48.3 2.874×1.900	300 2.07	2–M10×55	101 3.976	137 5.394	48 1.890	UL	FM
65×50 2 1/2×2	73.0×60.3 2.874×2.375	300 2.07	2–M10×55	101 3.976	137 5.394	48 1.890	UL	FM
65×40 2 1/2×1 1/2	76.1×48.3 2.996× 1.900	300 2.07	2–M10×55	105 4.134	140 5.512	48 1.890	UL	FM
65×50 2 1/2×2	76.1×60.3 2.996×2.375	300 2.07	2–M10×55	105 4.134	140 5.512	48 1.890	UL	FM
65×65 2 1/2×2 1/2	76.1×73.0 2.996×2.874	300 2.07	2–M10×55	100.4 3.953	141 5.551	47 1.85	UL	FM
80×40 3×1 1/2	88.9×48.3 3.500× 1.900	300 2.07	2–M12×65	120 4.724	164 6.457	48 1.890	UL	FM
80×50 3×2	88.9×60.3 3.500×2.375	300 2.07	2–M12×65	120 4.724	164 6.457	48 1.890	UL	FM
80×65 3×2 1/2	88.9×73.0 3.500×2.874	300 2.07	2–M12×65	120 4.724	164 6.457	48 1.890	UL	FM
80×65 3×2 1/2	88.9×76.1 3.500×2.996	300 2.07	2–M12×65	120 4.724	164 6.457	48 1.890	UL	FM
100×40 4×1 1/2	114.3×48.3 4.500×1.900	300 2.07	2–M12×65	150 5.906	195 7.677	49 1.929	UL	FM
100×50 4×2	114.3×60.3 4.500×2.375	300 2.07	2–M12×65	150 5.906	195 7.677	49 1.929	UL	FM
100×65 4×2 1/2	114.3×73 4.500×2.874	300 2.07	2–M12×65	150 5.906	195 7.677	49 1.929	UL	FM
100×65 4×2 1/2	114.3×76.1 4.500×2.996	300 2.07	2–M12×65	150 5.906	195 7.677	49 1.929	UL	FM
100×80 4×3	114.3×88.9 4.500×3.500	300 2.07	2–M12×65	150 5.906	195 7.677	49 1.929	UL	FM
150×100 6×4	165.1×114.3 6.500×4.500	300 2.07	2–M12×75	203 7.992	235 9.252	50 1.969		
150×80 6×3	168.3×88.9 6.625×3.500	300 2.07	2–M12×75	203 7.992	235 9.252	50 1.969	UL	FM
150×100 6×4	168.3×114.3 6.625×4.500	300 2.07	2–M12×75	203 7.992	235 9.252	50 1.969	UL	FM
200×150 8×6	219.1 ×168.3 8.625×6.625	300 2.07	2–M16×110	264 10.394	313 12.323	60 2.362	UL	FM

101T
Push Lock Coupling

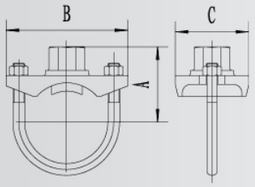




Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Torque Value(N · M)	Dimensions L mm/in			UL	FM
			No.–Size mm		A	L	H		
25 1	33.7 1.32	450 3.1	M10×55	90	57.3	98.6	47.6	UL	FM
32 1 1/4	42.4 1.67	450 3.1	M10×60	90	64	107.5	47.5	UL	FM
40 1	48.3 1.9	450 3.1	M10×60	90	70	114	47.5	UL	FM
50 2	60.3 2.37	365 2.5	M10×65	90	84	128	48	UL	FM
65 2 1/2	73 2.87	365 2.5	M10×70	100	96.4	140.3	48	UL	FM
65 2 1/2	76.1 3	365 2.5	M10×70	100	99.5	143.5	48	UL	FM
80 3	88.9 3.5	365 2.5	M12×80	120	113.5	168	48	UL	FM
100 4	108 4.25	365 2.5	M12×80	140	133	187.5	50	UL	FM
100 4	114.3 4.5	365 2.5	M12×80	140	143	194	50	UL	FM
125 5	133 5.24	365 2.5	M12×85	150	165.5	221	50	UL	FM
125 5	139.7 5.5	365 2.5	M12×85	150	172	228	50	UL	FM
125 5	141.3 5.56	365 2.5	M12×85	150	173.7	229.5	50	UL	FM
150 6	159 6.26	365 2.5	M12×90	150	190	251	51	UL	FM
150 6	165.1 6.5	365 2.5	M12×90	150	198	256	51	UL	FM
150 6	168.3 6.63	365 2.5	M12×90	150	201	259	51	UL	FM

XGQT03U
U–Bolted Mechanical Tee Threaded



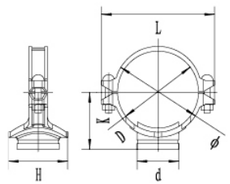


100TONG Model XGQT03U is Ductile Iron U–Bolted Threaded Mechanical Tee. XGQT03U is designed for use on GB/T3091 pipe. Sizes of XGQT03U from 25mm–65mm/1" –2–1/2". Pressure of XGQT03U conform to the list from UL and FM.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	U Bolt Size	Dimensions L mm/in			Hole cuting dimensions	UL	FM
			No.–Size mm	A	B	C			
25×15 1×1/2	33.7×21.3 1.327×0.839	300 2.07	M10×25	43 1.693	76 2.992	43 1.654	24 0.945	UL	FM
25×20 1×3/4	33.7×26.9 1.327×1.059	300 2.07	M10×25	46 1.811	85 3.346	43 1.693	24 0.945	UL	FM
25×25 1×1	33.7×33.7 1.327×1.327	300 2.07	M10×28.5	50 1.969	91 3.582	56 2.205	24 0.945		
32×15 1 1/4×1/2	42.4×21.3 1.669×0.839	300 2.07	M10×28.5	43 1.693	91 3.582	56 2.205	30 1.181		FM
32×15 1 1/4×1/2	42.4×21.3 1.669×0.839	300 2.07	M10×28.5	43 1.693	91 3.582	56 2.205	32 1.26	UL	FM
32/×20 1 1/4×3/4	42.4×26.9 1.669×1.059	300 2.07	M10×28.5	45 1.772	91 3.582	56 2.205	30 1.181		FM
32/×20 1 1/4×3/4	42.4×26.9 1.669×1.059	300 2.07	M10×28.5	45 1.772	91 3.582	56 2.205	32 1.26	UL	FM
32×25 1 1/4×1	42.4×33.7 1.669×1.327	300 2.07	M10×28.5	50 1.969	91 3.582	56 2.205	30 1.181		FM
32×25 1 1/4×1	42.4×33.7 1.669×1.327	300 2.07	M10×28.5	50 1.969	91 3.582	56 2.205	32 1.26	UL	FM
40×15 1 1/2×1/2	48.3×21.3 1.900×0.839	300 2.07	M10×28.5	43 1.693	93 3.661	59 2.323	30 1.181		FM
40×15 1 1/2×1/2	48.3×21.3 1.900×0.839	300 2.07	M10×28.5	43 1.693	93 3.661	59 2.323	32 1.26	UL	FM
40×20 1 1/2×3/4	48.3×26.9 1.900×1.059	300 2.07	M10×28.5	54 2.126	93 3.661	59 2.323	30 1.181		FM
40×20 1 1/2×3/4	48.3×26.9 1.900×1.059	300 2.07	M10×28.5	54 2.126	93 3.661	59 2.323	32 1.26	UL	FM
40×25 1 1/2×1	48.3×33.7 1.900×1.327	300 2.07	M10×28.5	58 2.283	93 3.661	59 2.323	30 1.181		FM
40×25 1 1/2×1	48.3×33.7 1.900×1.327	300 2.07	M10×28.5	58 2.283	93 3.661	59 2.323	32 1.26	UL	FM
50×15 2×1/2	60.3×21.3 2.375×0.839	300 2.07	M10×30	54 2.126	96 3.780	59 2.323	30 1.181		FM
50×15 2×1/2	60.3×21.3 2.375×0.839	300 2.07	M10×30	54 2.126	96 3.780	59 2.323	32 1.26	UL	FM
50×20 2×3/4	60.3×26.9 2.375×1.059	300 2.07	M10×30	56 2.205	96 3.780	59 2.323	30 1.181		FM
50×20 2×3/4	60.3×26.9 2.375×1.059	300 2.07	M10×30	56 2.205	96 3.780	59 2.323	32 1.26	UL	FM
50×25 2×1	60.3×33.7 2.375×1.327	300 2.07	M10×30	66 2.598	96 3.780	59 2.323	30 1.181		FM
50×25 2×1	60.3×33.7 2.375×1.327	300 2.07	M10×30	66 2.598	96 3.780	59 2.323	32 1.26	UL	FM
65×15 2 1/2×1/2	73×21.3 2.874×0.839	300 2.07	M10×30	60 2.362	110 4.331	59 2.323	30 1.181		FM
65×15 2 1/2×1/2	73×21.3 2.874×0.839	300 2.07	M10×30	60 2.362	110 4.331	59 2.323	32 1.26	UL	FM
65×20 2 1/2×3/4	73×26.9 2.874×1.059	300 2.07	M10×30	63 2.480	110 4.331	59 2.323	30 1.181		FM
65×20 2 1/2×3/4	73×26.9 2.874×1.059	300 2.07	M10×30	63 2.480	110 4.331	59 2.323	32 1.26	UL	FM
65×25 2 1/2×1	73×33.7 2.874×1.327	300 2.07	M10×30	70 2.756	110 4.331	59 2.323	30 1.181		FM
65×25 2 1/2×1	73×33.7 2.874×1.327	300 2.07	M10×30	70 2.756	110 4.331	59 2.323	32 1.26	UL	FM
65×32 2 1/2×1 1/4	73×42.4 2.874×1.669	300 2.07	M10×30	64 2.520	110 4.488	74 2.913	51 2.007	UL	
65×15 2 1/2×1/2	76.1×21.3 2.996×0.839	300 2.07	M10×30	61 2.402	110 4.331	59 2.323	30 1.181		FM
65×15 2 1/2×1/2	76.1×21.3 2.996×0.839	300 2.07	M10×30	61 2.402	110 4.331	59 2.323	32 1.26	UL	FM
65×20 2 1/2×3/4	76.1×26.9 2.996×1.059	300 2.07	M10×30	67 2.638	110 4.331	59 2.323	30 1.181		FM
65×20 2 1/2×3/4	76.1×26.9 2.996×1.059	300 2.07	M10×30	67 2.638	110 4.331	59 2.323	32 1.26	UL	FM
65×25 2 1/2×1	76.1×33.7 2.996×1.327	300 2.07	M10×30	74 2.913	110 4.331	59 2.323	30 1.181		FM
65×25 2 1/2×1	76.1×33.7 2.996×1.327	300 2.07	M10×30	74 2.913	110 4.331	59 2.323	32 1.26		FM
65×32 2 1/2×1 1/4	76×42.4 2.996×1.669	300 2.07	M10×30	65 2.559	114.0 4.488	74 2.913	51 2.007	UL	
80×15 3×1/2	88.9×21.3 3.5×0.839	300 2.07	M12×30	68 2.677	131.5 5.177	67.5 2.657	38 1.496	UL	
80×20 3×3/4	88.9×26.9 3.5×1.059	300 2.07	M12×30	69 2.717	131.5 5.177	67.5 2.657	38 1.496	UL	
80×25 3×1	88.9×33.7 3.5×1.327	300 2.07	M12×30	73.5 2.894	131.5 5.177	67.5 2.657	38 1.496	UL	
80×32 3×1 1/4	88.9×42.4 2.878×1.669	300 2.07	M12×30	70 2.756	132 5.197	78 3.071	51 2.007	UL	
100×15 4×1/2	114.3×21.3 4.5×0.839	300 2.07	M12×40	79.5 3.130	154 6.063	70 2.756	38 1.496	UL	
100×20 4×3/4	114.3×26.9 4.5×1.059	300 2.07	M12×40	80.5 3.169	154 6.063	70 2.756	38 1.496	UL	
100×25 4×1	114.3×33.7 4.5×1.327	300 2.07	M12×40	86.5 3.406	154 6.063	70 2.756	38 1.496	UL	
100×32 4×1 1/4	114.3×42.4 4.5×1.669	300 2.07	M12×40	82.5 3.248	154 6.063	78 3.071	51 2.007	UL	

XGQT03
Mechanical Tee Grooved



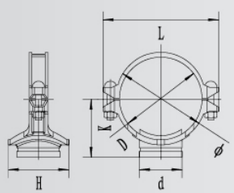


100TONG Model XGQT03 is Ductile Iron Grooved Mechanical Tee.XGQT03 is designed for use on schedule 10, schedule 40 and GB/T3091 pipe. Sizes of XGQT03 from 50mm–250mm/2" –10". Pressure of XGQT03 conform to the list from UL and FM.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	U Bolt Size	Dimensions L mm/in				Hole cuting dimensions	UL	FM
			No.–Size mm	Φ	L	K	H			
50×25 2×1	60.3×33.7 2.375×1.327	300 2.07	2–M10×55	75 2.953	116 4.567	64 2.520	72 2.835	38 1.496	UL	FM
50×32 2×1 1/4	60.3×42.4 2.375×1.669	300 2.07	2–M10×55	75 2.953	116 4.566	65 2.559	72 2.835	46 1.811	UL	FM
50×40 2×1 1/2	60.3×48.3 2.375×1.900	300 2.07	2–M10×55	75 2.953	116 4.566	65 2.559	72 2.835	46 1.811	UL	FM
65×25 2 1/2×1	73×33.7 2.874×1.327	300 2.07	2–M12×60	93 3.661	136 5.354	80 3.150	77 3.031	38 1.496	UL	FM
65×32 2 1/2×1 1/4	73×42.4 2.874×1.669	300 2.07	2–M12×60	93 3.661	136 5.354	80 3.150	83 3.268	46 1.811		
65×40 2 1/2×1 1/2	73×48.3 2.874×1.900	300 2.07	2–M12×60	93 3.661	136 5.354	80 3.150	83 3.268	51 2.007		
65×25 2 1/2×1	76.1×33.7 2.996×1.327	300 2.07	2–M12×60	102 4.016	144 5.669	78 3.071	77 3.031	38 1.496	UL	FM
65×32 2 1/2×1 1/4	76.1×42.4 2.996×1.669	300 2.07	2–M12×60	102 4.016	144 5.669	78 3.071	83 3.267	46 1.811	UL	FM
65×40 2 1/2×1 1/2	76.1×48.3 2.996×1.900	300 2.07	2–M12×60	102 4.016	144 5.669	78 3.071	83 3.267	51 2.007	UL	FM
80×25 3×1	88.9×33.7 3.500×1.327	300 2.07	2–M12×65	114 4.488	152 5.984	83 3.268	77 3.031	38 1.496	UL	FM
80×32 3×1 1/4	88.9×42.4 3.500×1.669	300 2.07	2–M12×65	114 4.488	152 5.984	85 3.346	83 3.268	46 1.811	UL	FM
80×40 3×1 1/2	88.9×48.3 3.500×1.900	300 2.07	2–M12×65	114 4.488	152 5.984	85 3.346	93 3.661	51 2.007	UL	FM
80×50 3×2	88.9×60.3 3.500×2.375	300 2.07	2–M12×65	114 4.488	152 5.984	85 3.346	99 3.898	61 2.402	UL	FM
80×65 3×2 1/2	88.9×73 3.500×2.874	300 2.07	2–M12×65	114 4.488	152 5.984	85 3.346	99 3.898	61 2.402		
80×65 3×2 1/2	88.9×76 3.500×2.996	300 2.07	2–M12×65	114 4.488	152 5.984	85 3.346	99 3.898	61 2.402		
100×25 4×1	114.3×33.7 4.500×1.327	300 2.07	2–M12×65	140 5.512	180 7.087	97 3.819	77 3.031	38 1.496	UL	FM
100×32 4×1 1/4	114.3×42.4 4.500×1.669	300 2.07	2–M12×65	140 5.512	180 7.087	97 3.819	83 3.268	46 1.811	UL	FM
100×40 4×1 1/2	114.3×48.3 4.500×1.900	300 2.07	2–M12×65	140 5.512	180 7.087	98 3.858	92 3.622	51 2.007	UL	FM
100×50 4×2	114.3×60.3 4.500×2.375	300 2.07	2–M12×65	140 5.512	180 7.087	99 3.898	98 3.858	61 2.402	UL	FM
100×65 4×2 1/2	114.3×73 4.500×2.874	300 2.07	2–M12×65	140 5.512	180 7.087	99 3.898	122 4.803	81 3.189	UL	FM
100×65 4×2 1/2	114.3×76.1 4.500×2.996	300 2.07	2–M12×65	140 5.512	180 7.087	99 3.898	122 4.803	81 3.189	UL	FM
100×80 4×3	114.3×88.9 4.500×3.500	300 2.07	2–M12×65	140 5.512	180 7.087	98 3.858	123 4.843	86 3.386	UL	FM
125×25 5×1	139.7×33.7 5.500×1.327	300 2.07	2–M16×75	168 6.614	218 8.582	113 4.448	80.5 3.169	70 2.756	UL	FM
125x32 5x1 1/4	139.7x42.4 5.500x1.669	300 2.07	2–M16×75	168 6.614	218 8.582	123 4.842	84.5 3.326	51 2.007	UL	FM
125x40 5x1 1/2	139.7x48.3 5.500x1.900	300 2.07	2–M16×75	168 6.614	218 8.582	152 5.984	94.5 3.720	70 2.756	UL	FM
125×50 5×2	139.7×60.3 5.500×2.375	300 2.07	2–M16×75	168 6.614	220 8.661	112 4.409	99 3.819	61 2.402	UL	FM
125×65 5×2 1/2	139.7×76.1 5.500×2.996	300 2.07	2–M16×75	168 6.614	220 8.661	112 4.409	122 4.409	81 3.189	UL	FM
125×80 5×3	139.7×88.9 5.500×3.500	300 2.07	2–M16×75	168 6.614	220 8.661	113 4.449	136 5.354	86 3.386		
150×65 6×2 1/2	159.0×76.1 6.260×2.996	300 2.07	2–M16×85	187 7.362	237 9.331	121 4.764	122 4.409	81 3.189		
150×80 6×3	159.0×88.9 6.260×3.500	300 2.07	2–M16×85	187 7.362	237 9.331	121 4.764	136 5.354	86 3.386		
150×100 6×4	159.0×108.0 6.260×4.252	300 2.07	2–M16×85	187 7.362	237 9.331	125 4.921	158 6.220	114 4.488		

XGQT03
Mechanical Tee Grooved





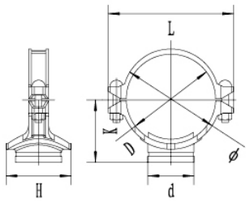
100TONG Model XGQT03 is Ductile Iron Grooved Mechanical Tee.XGQT03 is designed for use on schedule 10, schedule 40 and GB/T3091 pipe. Sizes of XGQT03 from 50mm–250mm/2" –10". Pressure of XGQT03 conform to the list from UL and FM.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	U Bolt Size	Dimensions L mm/in				Hole cuting dimensions	UL	FM
			No.–Size mm	Φ	L	K	H			
150×100 6×4	159.0×114.3 6.260×4.500	300 2.07	2–M16×85	187 7.362	237 9.331	125 4.921	158 6.220	114 4.488		
150×25 6×1	165.1×33.7 6.500×1.327	300 2.07	2–M16×85	194 7.638	246 9.685	121.5 4.783	80.5 3.169	38 1.496	UL	FM
150×32 6×1 1/4	165.1×42.4 6.500×1.669	300 2.07	2–M16×85	194 7.638	246 9.685	121.5 4.783	84.5 3.326	46 1.811	UL	FM
150×40 6×1 1/2	165.1×48.3 6.500×1.900	300 2.07	2–M16×85	194 7.638	246 9.685	121.5 4.783	94.5 3.720	51 2.007	UL	FM
150×50 6×2	165.1×60.3 6.500×2.375	300 2.07	2–M16×85	194 7.638	247 9.724	123 4.842	99 3.898	61 2.402	UL	FM
150×65 6×2 1/2	165.1×76.1 6.500×2.996	300 2.07	2–M16×85	194 7.638	247 9.724	123 4.842	123 4.843	81 3.189	UL	FM
150×80 6×3	165.1×88.9 6.500×3.500	300 2.07	2–M16×85	194 7.638	247 9.724	125 4.921	136 5.354	86 3.386	UL	FM
150×100 6×4	165.1×114.3 6.500×4.500	300 2.07	2–M16×85	194 7.638	247 9.724	125 4.921	158 6.220	114 4.488	UL	FM
150×25 6×1	168.3×33.7 6.625×1.327	300 2.07	2–M16×85	198 7.795	248 9.764	125 4.921	79 3.110	38 1.496	UL	FM
150×32 6×1 1/4	168.3×42.4 6.625×1.669	300 2.07	2–M16×85	198 7.795	248 9.764	125 4.921	84 3.307	46 1.811	UL	FM
150×40 6×1 1/2	168.3×48.3 6.625×1.900	300 2.07	2–M16×85	198 7.795	248 9.764	125 4.921	94 3.701	51 2.007	UL	FM
150×50 6×2	168.3×60.3 6.625×2.375	300 2.07	2–M16×85	198 7.795	248 9.764	125 4.921	99 3.898	61 2.401	UL	FM
150×65 6×2 1/2	168.3×73 6.625×2.874	300 2.07	2–M16×85	198 7.795	248 9.764	128 5.039	122 4.409	81 3.189		
150×65 6×2 1/2	168.3×76.1 6.625×2.996	300 2.07	2–M16×85	198 7.795	248 9.764	128 5.039	122 4.409	81 3.189	UL	FM
150×80 6×3	168.3×88.9 6.625×3.500	300 2.07	2–M16×85	198 7.795	248 9.764	130 5.118	136 5.354	86 3.385	UL	FM
150×100 6×4	168.3×114.3 6.625×4.500	300 2.07	2–M16×85	198 7.795	248 9.764	128 5.039	157 6.181	114 4.488		
200×65 8×2 1/2	216×76.1 8.504×2.996	300 2.07	2–M16×100	247 9.724	301 11.850	152 5.984	129 5.078	81 3.189		
200×80 8×3	216×88.9 8.504×3.500	300 2.07	2–M16×100	247 9.724	301 11.850	152 5.984	135 5.315	86 3.385		
200×100 8×4	216×114 .3 8.504×4.500	300 2.07	2–M16×100	247 9.724	301 11.850	151 5.945	158.5 6.240	114 4.488		
200×150 8×6	216×165 8.504×1.669	300 2.07	2–M16×100	247 9.724	301 11.850	152.5 6.004	208.5 8.208	160 6.299		
200×25 8×1	219.1×33.7 8.652×1.327	300 2.07	2–M16×100	250 9.843	302 11.889	152 5.984	86 3.386	46 1.811	UL	FM
200×32 8×1 1/4	219.1×42.4 8.652×1.669	300 2.07	2–M16×100	250 9.843	302 11.889	152 6.004	86 3.386	46 1.811	UL	FM
200×40 8×1 1/2	219.1×48.3 8.652×1.900	300 2.07	2–M16×100	250 9.843	302 11.889	152 6.004	97 3.819	51 2.007	UL	FM
200×50 8×2	219.1×60.3 8.625×2.375	300 2.07	2–M16×100	250 9.843	302 11.890	152 5.984	99 3.898	61 2.402	UL	FM
200×65 8×2 1/2	219.1×73 8.625×2.874	300 2.07	2–M16×100	250 9.843	302 11.890	152 5.984	130 5.118	81 3.189		
200×65 8×2 1/2	219.1×76.1 8.625×2.996	300 2.07	2–M16×100	250 9.843	302 11.890	152 5.984	130 5.118	81 3.189	UL	FM
200×80 8×3	219.1×88.9 8.625×3.500	300 2.07	2–M16×100	250 9.843	302 11.890	152 5.984	137 5.394	86 3.386	UL	FM
200×100 8×4	219.1×114.3 8.625×4.500	300 2.07	2–M16×100	250 9.843	304 11.969	153 6.024	162 6.378	114 4.488	UL	FM
200×150 8×6	219.1×168.3 8.625×6.625	300 2.07	2–M16×100	250 9.843	304 11.969	158 6.850	210 8.425	160 6.299		
250×100 10×4	267×114 .3 10.512×4.500	300 2.07	2–M22×130	302 11.890	367 11.448	180 7.086	162.5 3.307	114 4.488		
250×65 10×2 1/2	273.0×73 10.748×2.874	300 2.07	2–M22×130	307 12.087	376 14.803	186 7.323	131 5.157	81 3.189		
250×100 10×4	273.0×114.3 10.748×4.500	300 2.07	2–M22×130	307 12.087	376 14.803	186 7.323	161 6.339	114 4.488		

XGQT33

V–Mechanical Tee Grooved





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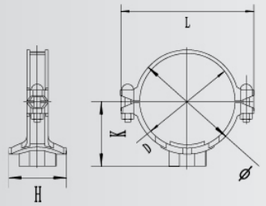
100TONG Model XGQT33 is Ductile Iron Grooved Mechanical Tee. XGQT33 is designed for use on schedule 10 and schedule 40 pipe. Sizes of XGQT33 from 50mm–200mm/2" –8". Pressure of XGQT33 conform to the list from UL and FM.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in				Hole cuting dimensions mm	UL	FM
			No.–Size mm	Φ	L	K	H			
50×25 2×1	60.3×33.7 2.375×1.327	300 2.07	2–M10×55	75 2.953	116 4.567	64 2.520	72 2.835	38 1.496		
50×32 2×1 1/4	60.3×42.4 2.375×1.669	300 2.07	2–M10×55	75 2.953	116 4.567	65 2.559	72 2.835	45 1.772	UL	FM
50×40 2×1 1/2	60.3×48.3 2.375×1.900	300 2.07	2–M10×55	75 2.953	116 4.567	65 2.559	72 2.835	45 1.772	UL	FM
65×32 2 1/2×1 1/4	73×42.4 2.87×1.669	300 2.07	2–M12×60	93 3.661	136 5.354	75 2.295	84 3.307	51 2.007	UL	FM
65×40 2 1/2×1 1/2	73×48.3 2.87×1.900	300 2.07	2–M12×60	93 3.661	136 5.354	75 2.952	84 3.307	51 2.007	UL	FM
65×25 2 1/2×1	76.1×33.7 2.996×1.327	300 2.07	2–M12*60	102 4.016	144 5.669	78 3.071	77 3.031	38 1.496		
65×40 2 1/2×1 1/2	76.1×48.3 2.996×1.900	300 2.07	2–M12*60	102 4.016	144 5.669	78 3.071	83 3.268	51 2.008		
80×25 3×1	88.9×33.7 3.500×1.327	300 2.07	2–M12*65	114 4.488	152 5.984	83 3.268	77 3.031	38 1.496		
80×32 3×1 1/4	88.9×42.4 3.500×1.669	300 2.07	2–M12×65	114 4.488	152 5.984	83 3.267	84 3.307	51 2.007	UL	FM
80×40 3×1 1/2	88.9×48.3 3.500×1.900	300 2.07	2–M12×65	114 4.488	152 5.984	83 3.267	84 3.307	51 2.007	UL	FM
80×50 3×2	88.9×60.3 3.500×2.375	300 2.07	2–M12×65	114 4.488	152 5.984	83 3.267	102 4.015	64 2.519	UL	FM
100×32 4×1 1/4	114.3×42.4 4.500×1.669	300 2.07	2–M12×65	140 5.512	180 7.086	98 3.858	84 3.307	51 2.007	UL	FM
100×40 4×1 1/2	114.3×48.3 4.500×1.900	300 2.07	2–M12×65	140 5.512	180 7.086	98 3.858	84 3.307	51 2.007	UL	FM
100×50 4×2	114.3×60.3 4.500×2.375	300 2.07	2–M12×65	140 5.512	180 7.086	98 3.858	103 4.055	64 2.519	UL	FM
100×65 4×2 1/2	114.3×73 4.500×2.875	300 2.07	2–M12×65	140 5.512	180 7.086	98 3.858	103 4.055	70 2.756	UL	FM
100×65 4×2 1/2	114.3×76.1 4.500×2.996	300 2.07	2–M12×65	140 5.512	180 7.087	99 3.898	122 4.803	70 2.756		
125×40 5×1 1/2	141.3×48.3 5.563×1.900	300 2.07	2–M16×75	168 6.614	220 8.661	104 4.094	95 3.740	51 2.007	UL	FM
125×50 5×2	141.3×60.3 5.563×2.375	300 2.07	2–M16×75	168 6.614	220 8.661	112 4.409	100 3.937	64 2.519	UL	FM
125×65 5×2 1/2	141.3×73 5.563×2.875	300 2.07	2–M16×75	168 6.614	220 8.661	113 4.448	109 4.291	70 2.756	UL	FM
150×50 6×2	165.1×60.3 6.500×2.375	300 2.07	2–M16*85	190 7.480	247 9.724	123 4.843	109 4.291	64 2.520		
150×65 6×2 1/2	165.1×76.1 6.500×2.996	300 2.07	2–M16*85	190 7.480	247 9.724	125 4.921	109 4.291	70 2.756		
150×80 6×3	165.1×88.9 6.500×3.500	300 2.07	2–M16×85	190 7.480	247 9.724	125 4.921	135 5.315	89 3.504		
150×32 6×1 1/4	168.3×42.4 6.625×1.669	300 2.07	2–M16×85	198 7.795	250 9.843	123 4.842	84.5 3.326	51 2.007	UL	FM
150×40 6×1 1/2	168.3×48.3 6.625×1.900	300 2.07	2–M16×85	198 7.795	247 9.724	120 4.724	92 6.622	51 2.007	UL	FM
150×50 6×2	168.3×60.3 6.625×2.375	300 2.07	2–M16×85	198 7.795	250 9.842	125 4.921	108 4.251	64 2.519	UL	FM
150×65 6×2 1/2	168.3×73 6.625×2.875	300 2.07	2–M16×85	198 7.795	250 9.842	125 4.921	108 4.251	70 2.756	UL	FM
200×50 8×2	219.1×60.3 8.625×2.375	300 2.07	2–M16×100	250 9.843	302 11.889	152 5.984	115.5 4.547	70 2.756	UL	FM
200×65 8×2 1/2	219.1×73 8.625×2.875	300 2.07	2–M16×100	250 9.843	310 12.204	152 5.984	116 4.566	70 2.756	UL	FM
200×100 8×4	219.1×114.3 8.625×4.500	300 2.07	2–M16*100	250 9.843	304 11.969	153 6.024	162 6.378	114 4.488		

XGQT03S

Mechanical Tee Threaded





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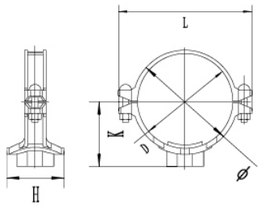
100TONG Model XGQT03S is Ductile Iron Threaded Mechanical Tee. XGQT03S is designed for use on schedule 10, schedule 40 and GB/T 3091 pipe. Sizes of XGQT03S from 40mm–250mm/1–1/2" –10". Pressure of XGQT03S conform to the list from UL and FM.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size	Dimensions L mm/in				Hole cuting dimensions mm/in	UL	FM
			No.–Size mm	Φ	L	K	H			
40×25 1 1/2×1	48.3×33.7 1.900×1.327	300 2.07	2–M10×55	67 2.637	112 4.409	56 2.204	61 2.401	32 1.259	UL	
50×25 2×1	60.3×33.7 2.375×1.327	300 2.07	2–M10×55	75 2.953	116 4.567	57 2.244	72 2.835	38 1.496	UL	FM
50×32 2×1 1/4	60.3×42.4 2.375×1.669	300 2.07	2–M10×55	75 2.953	116 4.567	57 2.244	72 2.835	46 1.811	UL	FM
50×40 2×1 1/2	60.3×48.3 2.375×1.900	300 2.07	2–M10×55	75 2.953	116 4.567	61 2.402	72 2.835	46 1.811	UL	FM
65×15 2 1/2×1/2	76.1×21.3 2.996×0.839	300 2.07	2–M12×60	93 3.661	136 5.354	65 2.559	78 3.071	38 1.496		
65×20 2 1/2×3/4	76.1×26.9 2.996×1.059	300 2.07	2–M12×60	93 3.661	136 5.354	65 2.559	78 3.071	38 1.496		
65×25 2 1/2×1	76.1×33.7 2.996×1.327	300 2.07	2–M12×60	102 4.016	144 5.669	67 2.756	77 3.031	38 1.496	UL	FM
65×32 2 1/2×1 1/4	76.1×42.4 2.996×1.669	300 2.07	2–M12×60	102 4.016	144 5.669	67 2.756	83 3.268	46 1.811	UL	FM
65×40 2 1/2×1 1/4	76.1×48.3 2.996×1.900	300 2.07	2–M12×60	102 4.016	144 5.669	67 2.756	83 3.268	51 2.008	UL	FM
65×40 2 1/2×2	76.1×60.3 2.996×2.375	300 2.07	2–M12×60	102 4.016	144 5.669	72 2.913	83 3.268	51 2.008	UL	
80×25 3×1	88.9×33.7 3.500×1.327	300 2.07	2–M12×65	114 4.488	152 5.984	74 3.228	77 3.031	38 1.496	UL	FM
80×32 3×1 1/4	88.9×42.4 3.500×1.669	300 2.07	2–M12×65	114 4.488	152 5.984	73 2.874	83 3.268	46 1.811	UL	FM
80×40 3×1 1/2	88.9×48.3 3.500×1.900	300 2.07	2–M12×65	114 4.488	152 5.984	73 2.874	92 3.622	51 2.008	UL	FM
80×50 3×2	88.9×60.3 3.500×2.375	300 2.07	2–M12×65	114 4.488	152 5.984	78 3.071	99 3.898	61 2.402	UL	FM
100×25 4×1	108.0×33.7 4.252×1.327	300 2.07	2–M12×65	135 5.315	172 6.772	87 3.425	77 3.031	38 1.496		
100×32 4×1 1/4	108.0×42.4 4.252×1.669	300 2.07	2–M12×65	135 5.315	172 6.772	87 3.425	83 3.268	46 1.811		
100×40 4×1 1/2	108.0×48.3 4.252×1.900	300 2.07	2–M12×65	135 5.315	172 6.772	87 3.425	92 3.622	51 2.008		
100×50 4×2	108.0×60.3 4.252×2.375	300 2.07	2–M12×65	135 5.315	172 6.772	87 3.425	97 3.819	61 2.402		
100×65 4×2 1/2	108.0×76.1 4.252×2.996	300 2.07	2–M12×65	135 5.315	172 6.772	98 3.858	112 4.409	70 2.756		
100×25 4×1	114.3×33.7 4.500×1.327	300 2.07	2–M12×65	140 5.512	180 7.087	93 3.661	77 3.031	38 1.496	UL	FM
100×32 4×1 1/4	114.3×42.4 4.500×1.669	300 2.07	2–M12×65	140 5.512	180 7.087	93 3.661	83 3.268	46 1.811	UL	FM
100×40 4×1 1/2	114.3×48.3 4.500×1.900	300 2.07	2–M12×65	140 5.512	180 7.087	93 3.661	92 3.622	51 2.008	UL	FM
100×50 4×2	114.3×60.3 4.500×2.375	300 2.07	2–M12×65	140 5.512	180 7.087	93 3.661	97 3.819	61 2.402	UL	FM
100×65 4×2 1/2	114.3×73 4.500×2.874	300 2.07	2–M12×65	140 5.512	180 7.087	95 3.740	122 4.803	81 3.189	UL	FM
100×65 4×2 1/2	114.3×76.1 4.500×2.996	300 2.07	2–M12×65	140 5.512	180 7.087	97 3.819	122 4.803	81 3.189	UL	FM
100×80 4×3	114.3×88.9 4.500×3.500	300 2.07	2–M16×75	140 5.512	180 7.087	97 3.819	125 4.921	86 3.386	UL	FM
125×25 5×1	133.0×33.7 5.236×1.327	300 2.07	2–M16×75	160 6.299	204 8.031	100 3.937	77 3.031	38 1.496		
125×32 5×1 1/4	133.0×42.4 5.236×1.669	300 2.07	2–M16×75	160 6.299	204 8.031	100 3.937	83 3.268	46 1.811		
125×40 5×1 1/2	133.0×48.3 5.236×1.900	300 2.07	2–M16×75	160 6.299	204 8.031	100 3.937	92 3.622	51 2.008		
125×50 5×2	133.0×60.3 5.236×2.375	300 2.07	2–M16×75	160 6.299	204 8.031	100 3.937	97 3.819	61 2.402		
125×65 5×2 1/2	133.0×76.1 5.236×2.996	300 2.07	2–M16×75	160 6.299	204 8.031	100 3.937	123 4.843	81 3.189		
125×25 5×1	139.7×33.7 5.500×1.327	300 2.07	2–M16×75	168 6.614	220 8.661	100 3.937	77 3.031	38 1.496	UL	FM
125×32 5×1 1/4	139.7×42.4 5.500×1.669	300 2.07	2–M16×75	168 6.614	220 8.661	100 3.937	83 3.268	46 1.811	UL	FM
125×40 5×1 1/2	139.7×48.3 5.500×1.900	300 2.07	2–M16×75	168 6.614	220 8.661	100 3.937	92 3.622	51 2.008	UL	FM
125×50 5×2	139.7×60.3 5.500×2.375	300 2.07	2–M16×75	168 6.614	220 8.661	103 4.055	99 3.819	61 2.402	UL	FM

XGQT03S

Mechanical Tee Threaded





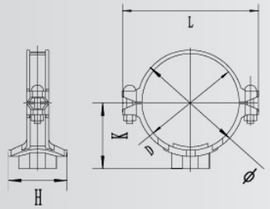
100TONG Model XGQT03S is Ductile Iron Threaded Mechanical Tee. XGQT03S is designed for use on schedule 10, schedule 40 and GB/T 3091 pipe. Sizes of XGQT03S from 40mm–250mm/1-1/2" –10" . Pressure of XGQT03S conform to the list from UL and FM.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No.–Size mm	Dimensions L mm/in Φ	L	K	H	Hole cuting dimensions mm/in	UL	FM
125×65 5×2 1/2	139.7×76.1 5.500×2.996	300 2.07	2–M16×75	168 6.614	220 8.661	103 4.055	122 4.409	81 3.189	UL	FM
125×80 5×3	139.7×88.9 5.500×3.500	300 2.07	2–M16×75	168 6.614	220 8.661	113 4.449	136 5.354	86 3.386	UL	FM
50×25 6×1	159.0×33.7 6.260×1.327	300 2.07	2–M16×85	187 7.362	237 9.331	112 4.409	77 3.031	38 1.496	UL	
150×32 6×1 1/4	159.0×42.4 6.260×1.669	300 2.07	2–M16×85	187 7.362	237 9.331	112 4.409	83 3.268	46 1.811		
150×40 6×1 1/2	159.0×48.3 6.260×1.900	300 2.07	2–M16×85	187 7.362	237 9.331	112 4.409	92 3.622	51 2.008		
150×50 6×2	159.0×60.3 6.260×2.375	300 2.07	2–M16×85	187 7.362	237 9.331	112 4.409	97 3.819	61 2.402		
150×65 6×2 1/2	159.0×76.1 6.260×2.996	300 2.07	2–M16×85	187 7.362	237 9.331	112 4.409	123 4.843	81 3.189		
150×80 6×3	159.0×88.9 6.260×3.500	300 2.07	2–M16×85	187 7.362	237 9.331	121 4.764	136 5.354	86 3.386		
150×25 6×1	165.1×33.7 6.500×1.327	300 2.07	2–M16×85	194 7.638	247 9.724	115 4.528	77 3.031	38 1.496	UL	FM
150×32 6×1 1/4	165.1×42.4 6.500×1.669	300 2.07	2–M16×85	194 7.638	247 9.724	115 4.528	83 3.268	46 1.811	UL	FM
150×40 6×1 1/2	165.1×48.3 6.500×1.900	300 2.07	2–M16×85	194 7.638	247 9.724	115 4.528	92 3.622	51 2.008	UL	FM
150×50 6×2	165.1×60.3 6.500×2.375	300 2.07	2–M16×85	194 7.638	247 9.724	120 4.724	97 3.819	61 2.402	UL	FM
150×65 6×2 1/2	165.1×76.1 6.500×2.996	300 2.07	2–M16×85	194 7.638	247 9.724	125 4.921	123 4.843	81 3.189	UL	FM
150×80 6×3	165.1×88.9 6.500×3.500	300 2.07	2–M16×85	194 7.638	247 9.724	125 4.921	136 5.354	86 3.386	UL	FM
150×100 6×4	165.1×114.3 6.500×4.500	300 2.07	2–M16×85	194 7.638	247 9.724	125 4.921	157 6.181	114 4.488	UL	FM
150×25 6×1	168.3×33.7 6.625×1.327	300 2.07	2–M16×85	198 7.795	247 9.724	123 4.483	77 3.031	38 1.496	UL	FM
150×32 6×1 1/4	168.3×42.4 6.625×1.669	300 2.07	2–M16×85	198 7.795	247 9.724	123 4.483	82 3.228	46 1.811	UL	FM
150×40 6×1 1/2	168.3×48.3 6.625×1.900	300 2.07	2–M16×85	198 7.795	247 9.724	123 4.483	92 3.622	51 2.007	UL	FM
150×50 6×2	168.3×60.3 6.625×2.375	300 2.07	2–M16×85	198 7.795	247 9.724	123 4.483	98 3.858	61 2.401	UL	FM
150×65 6×2 1/2	168.3×76.1 6.625×2.996	300 2.07	2–M16×85	198 7.795	247 9.724	126 4.961	123 4.843	81 3.189	UL	FM
150×80 6×3	168.3×88.9 6.625×3.500	300 2.07	2–M16×85	198 7.795	247 9.724	128 5.039	136 5.354	86 3.385	UL	FM
200×50 8×2	216×60.3 8.504×2.375	300 2.07	2–M16×100	250 9.842	301 11.850	145 5.708	99 3.898	61 2.402		
200×65 8×2 1/2	216×76.1 8.504×2.996	300 2.07	2–M16×100	247 9.724	301 11.850	152 5.984	129 5.078	81 3.189		
200×25 8×1	219.1×33.7 8.625×1.327	300 2.07	2–M16×100	250 9.843	302 11.890	146 5.748	77 3.031	46 1.811	UL	FM
200×32 8×1 1/4	219.1×42.4 8.625×1.669	300 2.07	2–M16×100	250 9.843	302 11.890	146 5.748	83 3.268	46 1.811	UL	FM
200×40 8×1 1/2	219.1×48.3 8.625×1.900	300 2.07	2–M16×100	250 9.843	302 11.890	146 5.748	92 3.622	51 2.008	UL	FM
200×50 8×2	219.1×60.3 8.625×2.375	300 2.07	2–M16×100	250 9.843	302 11.890	146 5.748	97 3.819	61 2.402	UL	FM
200×65 8×2 1/2	219.1×76.1 8.625×2.996	300 2.07	2–M16×100	250 9.843	302 11.890	146 5.748	130 5.118	81 3.189	UL	FM
200×80 8×3	219.1×88.9 8.625×3.500	300 2.07	2–M16×100	250 9.843	302 11.890	151 5.945	137 5.394	86 3.386	UL	FM
250×25 10×1	273.0×33.7 10.748×1.327	300 2.07	2–M22×130	309 9.843	376 12.205	174 5.748	98 3.858	51 2.008		
250×40 10×1 1/2	273.0×48.3 10.748×1.900	300 2.07	2–M22×130	309 9.843	376 12.205	174 5.748	98 3.858	51 2.008		
250×50 10×2	273.0×60.3 10.748×2.375	300 2.07	2–M22×130	309 9.843	376 12.205	184 7.244	100 3.937	61 2.402		
250×65 10×2 1/2	273.0×76.1 10.748×2.996	300 2.07	2–M22×130	309 9.843	376 12.205	184 7.244	133 5.236	81 3.189		

XGQT33S

V–Mechanical Tee Threaded



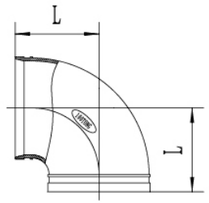


100TONG Model XGQT33S is Ductile Iron Threaded Mechanical Tee. XGQT33S is designed for use on schedule 10 and schedule 40 pipe. Sizes of XGQT33S from 25mm–150mm/1" –6" . Pressure of XGQT33S conform to the list from UL and FM.

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No.–Size mm	Dimensions L mm/in Φ	L	K	H	Hole cuting dimensions mm/in	UL	FM
25×15 1×1/2	60.3×21.3 2.375×0.839	300 2.07	2–M10×55	75 2.953	116 4.567	57 2.244	69 2.717	38 1.496	UL	FM
25×20 1×3/4	60.3×26.9 2.375×1.059	300 2.07	2–M10×55	75 2.953	116 4.567	57 2.244	69 2.717	38 1.496	UL	FM
50×25 2×1	60.3×33.7 2.375×1.327	300 2.07	2–M10×55	75 2.953	116 4.567	57 2.244	69 2.717	38 1.496	UL	FM
50×32 2×1 1/4	60.3×42.4 2.375×1.669	300 2.07	2–M10×55	75 2.953	116 4.567	57 2.244	72 2.835	45 1.772	UL	FM
50×40 2×1 1/2	60.3×48.3 2.375×1.900	300 2.07	2–M10×55	75 2.953	116 4.567	62 2.441	72 2.835	45 1.772	UL	FM
65×15 2 1/2×1/2	73×21.3 2.874×0.839	300 2.07	2–M12×60	93 3.661	136 5.354	65 2.559	78 3.071	38 1.496	UL	FM
65×20 2 1/2×3/4	73×26.9 2.874×1.059	300 2.07	2–M12×60	93 3.661	136 5.354	65 2.559	78 3.071	38 1.496	UL	FM
65×25 2 1/2×1	73×33.7 2.874×1.327	300 2.07	2–M12×60	93 3.661	136 5.354	65 2.559	78 3.071	38 1.496	UL	FM
65×32 2 1/2×1 1/4	73×42.4 2.874×1.669	300 2.07	2–M12×60	93 3.661	136 5.354	65 2.559	84 3.307	51 2.008	UL	FM
65×40 2 1/2×1 1/2	73×48.3 2.874×1.900	300 2.07	2–M12×60	93 3.661	136 5.354	60 2.362	83 3.267	51 2.007	UL	FM
65×50 2 1/2×2	73×60.3 2.874×2.375	300 2.07	2–M12×60	93 3.661	136 5.354	78 3.071	85 3.346	51 2.007		
65×32 2 1/2×1 1/4	76.1×42.4 2.996×1.669	300 2.07	2–M12×60	102 4.016	138 5.433	67 2.638	83 3.268	51 2.008		
80×15 3×1/2	88.9×21.3 3.500×0.839	300 2.07	2–M12×65	114 4.488	152 5.984	74 2.913	77 3.031	38 1.496	UL	FM
80×20 3×3/4	88.9×26.9 3.500×1.059	300 2.07	2–M12×65	114 4.488	152 5.984	74 2.913	77 3.031	38 1.496	UL	FM
80×25 3×1	88.9×33.7 3.500×1.327	300 2.07	2–M12×65	114 4.488	152 5.984	74 2.913	77 3.031	38 1.496	UL	FM
80×32 3×1 1/4	88.9×42.4 3.500×1.669	300 2.07	2–M12×65	114 4.488	152 5.984	76 2.992	84 3.307	51 2.007	UL	FM
80×40 3×1 1/2	88.9×48.3 3.500×1.900	300 2.07	2–M12×65	114 4.488	152 5.984	73 2.874	92 3.622	51 2.007	UL	FM
80×50 3×2	88.9×60.3 3.500×2.375	300 2.07	2–M12×65	114 4.488	152 5.984	78 3.070	99 3.897	64 2.519	UL	FM
100×15 4×1/2	114.3×21.3 4.500×0.839	300 2.07	2–M12×65	140 5.512	180 7.086	88 3.465	77 3.031	38 1.496	UL	FM
100×20 4×3/4	114.3×26.9 4.500×1.059	300 2.07	2–M12×65	140 5.512	180 7.086	88 3.465	77 3.031	38 1.496	UL	FM
100×25 4×1	114.3×33.7 4.500×1.327	300 2.07	2–M12×65	140 5.512	180 7.086	88 3.465	77 3.031	38 1.496	UL	FM
100×32 4×1 1/4	114.3×42.4 4.500×1.669	300 2.07	2–M12×65	140 5.512	180 7.086	93 3.661	84 3.307	51 2.007	UL	FM
100×40 4×1 1/2	114.3×48.3 4.500×1.900	300 2.0	2–M12×65	140 5.512	180 7.087	93 3.661	92 3.622	51 2.008	UL	FM
100×50 4×2	114.3×60.3 4.500×2.375	300 2.07	2–M12×65	140 5.512	180 7.086	93 3.661	103 4.055	64 2.519	UL	FM
100×65 4×2 1/2	114.3×73 4.500×2.875	300 2.07	2–M12×65	140 5.512	180 7.087	98 3.858	103 4.055	70 2.756	UL	FM
100*65 4*2 1/2	114.3*76.1 4.500*2.996	300 2.07	2–M12×65	140 5.512	180 7.087	98 3.858	109 4.291	70 2.756		
125*32 5*1 1/4	139.7*42.4 5.500*1.669	300 2.07	2–M16×75	168 6.614	220 8.661	100 3.937	83 3.268	51 2.008		
125*40 5*1 1/2	139.7*48.3 5.500*1.900	300 2.07	2–M16×75	168 6.614	220 8.661	100 3.937	92 3.622	51 2.008		
125*50 5*2	139.7*60.3 5.500*2.375	300 2.07	2–M16×75	168 6.614	220 8.661	103 4.055	108 4.252	64 2.520		
125×25 5×1	141.3×33.7 5.563×1.327	300 2.07	2–M16×75	168 6.614	220 8.661	104 4.094	77 3.031	38 1.496	UL	FM
125×32 5×1 1/4	141.3×42.4 5.563×1.669	300 2.07	2–M16×75	168 6.614	220 8.661	104 4.094	95 3.740	51 2.007	UL	FM
125×40 5×1 1/2	141.3×48.3 5.563×1.900	300 2.07	2–M16×75	168 6.614	220 8.661	104 4.094	95 3.740	51 2.007	UL	FM
125×50 5×2	141.3×60.3 5.563×2.375	300 2.07	2–M16×75	168 6.614	220 8.661	104 4.094	100 3.937	64 2.519	UL	FM
125×65 5×2	141.3×73 5.563×2.875	300 2.07	2–M16×75	168 6.614	220 8.661	112 4.409	123 4.843	70 2.756	UL	FM
150×32 6×1 1/4	165.1×42.4 6.500×1.669	300 2.07	2–M16*85	194 7.638	247 9.724	112 4.409	83 3.268	51 2.008		
150*50 6×2	165.1×60.3 6.500×2.375	300 2.07	2–M16*85	194 7.638	247 9.724	116 4.567	109 4.291	64 2.520		
150*65 6×2 1/2	165.1×76.1 6.500×2.996	300 2.07	2–M16*85	194 7.638	247 9.724	125 4.921	109 4.291	70 2.756		
150×32 6×1 1/4	168.3×42.4 6.625×1.669	300 2.07	2–M16×85	198 7.795	247 9.724	120 4.724	82 3.228	51 2.007	UL	FM
150×40 6×1 1/2	168.3×48.3 6.625×1.900	300 2.07	2–M16×85	198 7.795	247 9.724	120 4.724	92 6.622	51 2.007	UL	FM
150×50 6×2	168.3×60.3 6.625×2.375	300 2.07	2–M16×85	198 7.795	250 9.842	120 4.724	108 4.251	64 2.519	UL	FM
150×65 6×2 1/2	168.3×73 6.625×2.875	300 2.07	2–M16×85	198 7.795	250 9.842	122 4.803	108 4.251	70 2.756	UL	FM
200×100 8×4	219.1×114.3 8.625×4.500	300 2.07	2–M16×100	250 9.843	302 11.889	153 6.023	163 6.417	114 4.488	UL	FM

XGQT06
XGQT06L
90° Elbow





Size DN / in	Pipe O.D. mm / in	Working Pressure PSI / MPa	90°Elbow (Short) L mm / in	UL	FM
25 / 1	33.7 / 1.315	300 / 2.07	57 / 2.244	UL	FM
32 / 1 1/4	42.4 / 1.660	300 / 2.07	60 / 2.362	UL	FM
40 / 1 1/2	48.3 / 1.900	300 / 2.07	60 / 2.362	UL	FM
50 / 2	57.0 / 2.244	300 / 2.07	70 / 2.755		
50 / 2	60.3 / 2.375	300 / 2.07	70 / 2.755	UL	FM
65 / 2 1/2	73.0 / 2.875	300 / 2.07	76 / 2.992	UL	FM
65 / 2 1/2	76.1 / 3.000	300 / 2.07	76 / 2.992	UL	FM
80 / 3	88.9 / 3.500	300 / 2.07	86 / 3.386	UL	FM
100 / 4	108.0 / 4.252	300 / 2.07	102 / 4.016	UL	FM
100 / 4	114.3 / 4.500	300 / 2.07	102 / 4.016	UL	FM
125 / 5	133.0 / 5.250	300 / 2.07	123 / 4.843	UL	FM
125 / 5	139.7 / 5.500	300 / 2.07	123 / 4.843	UL	FM
125 / 5	141.3 / 5.563	300 / 2.07	123 / 4.843	UL	FM
150 / 6	159.0 / 6.260	300 / 2.07	140 / 5.511	UL	FM
150 / 6	165.1 / 6.500	300 / 2.07	140 / 5.511	UL	FM
150 / 6	168.3 / 6.625	300 / 2.07	140 / 5.511	UL	FM
200 / 8	216.3 / 8.516	300 / 2.07	175 / 6.889	UL	FM
200 / 8	219.1 / 8.625	300 / 2.07	175 / 6.889	UL	FM
250 / 10	267.4 / 10.528	300 / 2.07	215 / 8.464		
250 / 10	273.0 / 10.750	300 / 2.07	215 / 8.464	UL	FM
300 / 12	318.5 / 12.539	300 / 2.07	245 / 9.645		
300 / 12	323.9 / 12.750	300 / 2.07	245 / 9.645	UL	FM
350 / 14	377.0 / 14.843	300 / 2.07	280 / 11.024		

Size DN / in	Pipe O.D. mm / in	Working Pressure PSI / MPa	90°Elbow (Long) L mm / in	UL	FM
25 / 1	33.7 / 1.315	300 / 2.07	57 / 2.24		
32 / 1 1/2	42.4 / 1.660	300 / 2.07	70 / 2.755	UL	FM
40 / 1 1/4	48.3 / 1.900	300 / 2.07	70 / 2.755	UL	FM
50 / 2	60.3 / 2.375	300 / 2.07	83 / 3.267	UL	FM
65 / 2 1/2	73.0 / 2.875	300 / 2.07	95 / 3.74	UL	FM
65 / 2 1/2	76.1 / 3.000	300 / 2.07	95 / 3.74	UL	FM
80 / 3	88.9 / 3.500	300 / 2.07	108 / 4.251	UL	FM
100 / 4	108.0 / 4.252	300 / 2.07	127 / 5	UL	FM
100 / 4	114.3 / 4.500	300 / 2.07	127 / 5	UL	FM
125 / 5	139.7 / 5.500	300 / 2.07	140 / 5.511		
125 / 5	141.3 / 5.563	300 / 2.07	140 / 5.511		
150 / 6	165.1 / 6.500	300 / 2.07	165 / 6.496	UL	FM
150 / 6	168.3 / 6.625	300 / 2.07	165 / 6.496	UL	FM
200 / 8	219.1 / 8.625	300 / 2.07	197 / 7.755	UL	FM
250 / 10	273.0 / 10.750	300 / 2.07	229 / 9.015	UL	FM
300 / 12	323.9 / 12.750	300 / 2.07	254 / 10	UL	FM
350 / 14	377.0 / 14.843	300 / 2.07	280 / 11.024		

XGQT07
45° Elbow



Size DN / in	Pipe O.D. mm / in	Working Pressure PSI / MPa	45°Elbow L mm / in	UL	FM
25 / 1	33.7 / 1.315	300 / 2.07	38 / 1.496	UL	FM
32 / 1 1/4	42.4 / 1.660	300 / 2.07	44 / 1.732	UL	FM
40 / 1 1/2	48.3 / 1.900	300 / 2.07	44 / 1.732	UL	FM
50 / 2	60.3 / 2.375	300 / 2.07	51 / 2.007	UL	FM
65 / 2 1/2	73.0 / 2.875	300 / 2.07	57 / 2.244	UL	FM
65 / 2 1/2	76.1 / 3.000	300 / 2.07	57 / 2.244	UL	FM
80 / 3	88.9 / 3.500	300 / 2.07	64 / 2.519	UL	FM
100 / 4	108.0 / 4.252	300 / 2.07	76 / 2.992	UL	FM
100 / 4	114.3 / 4.500	300 / 2.07	76 / 2.992	UL	FM
125 / 5	133.0 / 5.250	300 / 2.07	83 / 3.267	UL	FM

Size DN / in	Pipe O.D. mm / in	Working Pressure PSI / MPa	45°Elbow L mm / in	UL	FM
125 / 5	139.7 / 5.500	300 / 2.07	83 / 3.267	UL	FM
125 / 5	141.3 / 5.563	300 / 2.07	83 / 3.267	UL	FM
150 / 6	159.0 / 6.260	300 / 2.07	89 / 3.503	UL	FM
150 / 6	165.1 / 6.500	300 / 2.07	89 / 3.503	UL	FM
150 / 6	168.3 / 6.625	300 / 2.07	89 / 3.503	UL	FM
200 / 8	216.3 / 8.516	300 / 2.07	108 / 4.251	UL	FM
200 / 8	219.1 / 8.625	300 / 2.07	108 / 4.251	UL	FM
250 / 10	267.4 / 10.528	300 / 2.07	121 / 4.763		
250 / 10	273.0 / 10.750	300 / 2.07	121 / 4.763	UL	FM
300 / 12	323.9 / 12.750	300 / 2.07	133 / 5.236	UL	FM

XGQT09
22.5° Elbow



Size DN / in	Pipe O.D. mm / in	Working Pressure PSI / MPa	22.5° Elbow L mm / in	UL	FM
25 / 1	33.7 / 1.315	300 / 2.07	38.5 / 1.516	UL	FM
32 / 1 1/4	42.4 / 1.660	300 / 2.07	44 / 1.732	UL	FM
40 / 1 1/2	48.3 / 1.900	300 / 2.07	44 / 1.732	UL	FM
50 / 2	60.3 / 2.375	300 / 2.07	48 / 1.89	UL	FM
65 / 2 1/2	73.0 / 2.875	300 / 2.07	51 / 2	UL	FM
65 / 2 1/2	76.1 / 3.000	300 / 2.07	51 / 2	UL	FM
80 / 3	88.9 / 3.500	300 / 2.07	57 / 2.244	UL	FM
100 / 4	108.0 / 4.252	300 / 2.07	73 / 2.874	UL	FM
100 / 4	114.3 / 4.500	300 / 2.07	73 / 2.874	UL	FM

Size DN / in	Pipe O.D. mm / in	Working Pressure PSI / MPa	22.5° Elbow L mm / in	UL	FM
125 / 5	133.0 / 5.250	300 / 2.07	73 / 2.874		FM
125 / 5	139.7 / 5.500	300 / 2.07	73 / 2.874	UL	FM
125 / 5	141.3 / 5.563	300 / 2.07	73 / 2.874	UL	FM
150 / 6	159.0 / 6.260	300 / 2.07	79 / 3.11	UL	FM
150 / 6	165.1 / 6.500	300 / 2.07	79 / 3.11	UL	FM
150 / 6	168.3 / 6.625	300 / 2.07	79 / 3.11	UL	FM
200 / 8	219.1 / 8.625	300 / 2.07	83 / 3.27	UL	FM
250 / 10	273.0 / 10.750	300 / 2.07	111 / 4.37	UL	FM
300 / 12	323.9 / 12.750	300 / 2.07	124 / 4.88	UL	FM

XGQT10
11.25° Elbow



Size DN / in	Pipe O.D. mm / in	Working Pressure PSI / MPa	22.5° Elbow L mm / in	UL	FM
25 / 1	33.7 / 1.315	300 / 2.07	35 / 1.377	UL	FM
32 / 1 1/4	42.4 / 1.660	300 / 2.07	35 / 1.377	UL	FM
40 / 1 1/2	48.3 / 1.900	300 / 2.07	35 / 1.377	UL	FM
50 / 2	60.3 / 2.375	300 / 2.07	35 / 1.377	UL	FM
65 / 2 1/2	73.0 / 2.875	300 / 2.07	38 / 1.496	UL	FM
65 / 2 1/2	76.1 / 3.000	300 / 2.07	38 / 1.496	UL	FM
80 / 3	88.9 / 3.500	300 / 2.07	38 / 1.496	UL	FM
100 / 4	108.0 / 4.252	300 / 2.07	44 / 1.732	UL	FM
100 / 4	114.3 / 4.500	300 / 2.07	48 / 1.889	UL	FM

Size DN / in	Pipe O.D. mm / in	Working Pressure PSI / MPa	22.5° Elbow L mm / in	UL	FM
125 / 5	133.0 / 5.250	300 / 2.07	51 / 2.007		FM
125 / 5	139.7 / 5.500	300 / 2.07	51 / 2.007	UL	FM
125 / 5	141.3 / 5.563	300 / 2.07	51 / 2.007	UL	FM
150 / 6	159.0 / 6.260	300 / 2.07	51 / 2.007	UL	FM
150 / 6	165.1 / 6.500	300 / 2.07	51 / 2.007	UL	FM
150 / 6	168.3 / 6.625	300 / 2.07	51 / 2.007	UL	FM
200 / 8	219.1 / 8.625	300 / 2.07	51 / 2.007	UL	FM
250 / 10	273.0 / 10.750	300 / 2.07	54 / 2.125	UL	FM
300 / 12	323.9 / 12.750	300 / 2.07	57 / 2.244	UL	FM

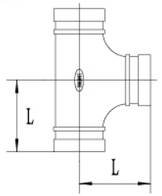
XGQT06D
Drainage Elbow



Nominal Size	Pipe O.D. mm/in	Working Pressure PSI MPa	L mm	A mm	B mm	UL	FM
32 / 1 1/4	42.4 / 1.669	300 / 2.07	70 / 2.755	60 / 2.362	30 / 1.181		
40 / 1 1/2	48.3 / 1.900	300 / 2.07	70 / 2.755	60 / 2.362	33.5 / 1.318		
50 / 2	60.3 / 2.375	300 / 2.07	83 / 3.268	65 / 2.559	37.5 / 1.476	UL	FM
65 / 2 1/2	73.0 / 2.875	300 / 2.07	95 / 3.740	70 / 2.756	43.5 / 1.713	UL	FM
65 / 2 1/2	76.1 / 3.000	300 / 2.07	95 / 3.740	70 / 2.756	45 / 1.771	UL	FM
80 / 3	88.9 / 3.500	300 / 2.07	108 / 4.252	70 / 2.756	53 / 2.087	UL	FM
100 / 4	114.3 / 4.500	300 / 2.07	127 / 5	70 / 2.756	66 / 2.598	UL	FM
125 / 5	139.7 / 5.500	300 / 2.07	140 / 5.511	70 / 2.756	78.5 / 3.090	UL	FM
150 / 6	165.1 / 6.500	300 / 2.07	165 / 6.496	70 / 2.756	91 / 3.852	UL	FM
150 / 6	168.3 / 6.625	300 / 2.07	165 / 6.496	70 / 2.756	92.5 / 3.642	UL	FM
200 / 8	219.1 / 8.625	300 / 2.07	197 / 7.756	70 / 2.756	116 / 4.567	UL	FM

XGQT12
XGQT12L
Tee



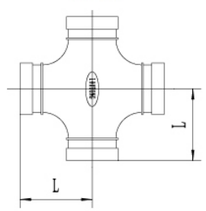


Size DN / in	Pipe O.D. mm / in	Working Pressure PSI / MPa	Tee (Short) L mm / in	UL	FM
25 / 1	33.7 / 1.315	400 / 2.75	57 / 2.244	UL	FM
32 / 1 1/4	42.4 / 1.660	400 / 2.75	60 / 2.362	UL	FM
40 / 1 1/2	48.3 / 1.900	400 / 2.75	60 / 2.362	UL	FM
50 / 2	60.3 / 2.375	400 / 2.75	70 / 2.755	UL	FM
65 / 2 1/2	73.0 / 2.875	400 / 2.75	76 / 2.992	UL	FM
65 / 2 1/2	76.1 / 3.000	400 / 2.75	76 / 2.992	UL	FM
80 / 3	88.9 / 3.500	400 / 2.75	86 / 3.386	UL	FM
100 / 4	108.0 / 4.252	400 / 2.75	102 / 4.016	UL	FM
100 / 4	114.3 / 4.500	400 / 2.75	102 / 4.016	UL	FM
125 / 5	133.0 / 5.250	300 / 2.07	123 / 4.843	UL	FM
125 / 5	139.7 / 5.500	300 / 2.07	123 / 4.843	UL	FM
125 / 5	141.3 / 5.563	300 / 2.07	123 / 4.843	UL	FM
150 / 6	159.0 / 6.260	300 / 2.07	140 / 5.511	UL	FM
150 / 6	165.1 / 6.50	300 / 2.07	140 / 5.511	UL	FM
150 / 6	168.3 / 6.625	300 / 2.07	140 / 5.511	UL	FM
200 / 8	216.3 / 8.516	300 / 2.07	175 / 6.889	UL	FM
200 / 8	219.1 / 8.625	300 / 2.07	175 / 6.889	UL	FM
250 / 10	267.4 / 10.527	300 / 2.07	215 / 8.464		
250 / 10	273.0 / 10.750	300 / 2.07	215 / 8.464	UL	FM
300 / 12	323.9 / 12.750	300 / 2.07	245 / 9.645	UL	FM

Size DN / in	Pipe O.D. mm / in	Working Pressure PSI / MPa	Tee (Long) L mm / in	UL	FM
32 / 1 1/4	42.4 / 1.660	400 / 2.75	70 / 2.755	UL	FM
40 / 1 1/2	48.3 / 1.9	400 / 2.75	70 / 2.755	UL	FM
50 / 2	60.3 / 2.375	400 / 2.75	83 / 3.267	UL	FM
65 / 2 1/2	73.0 / 2.875	400 / 2.75	95 / 3.74	UL	FM
65 / 2 1/2	76.1 / 3.000	400 / 2.75	95 / 3.74	UL	FM
80 / 3	88.9 / 3.500	400 / 2.75	108 / 4.251	UL	FM
100 / 4	108.0 / 4.252	400 / 2.75	127 / 5	UL	FM
100 / 4	114.3 / 4.500	400 / 2.75	127 / 5	UL	FM
125 / 5	139.7 / 5.500	300 / 2.07	140 / 5.511	UL	FM
150 / 6	159.0 / 6.260	300 / 2.07	165 / 6.496	UL	FM
150 / 6	165.1 / 6.50	300 / 2.07	165 / 6.496	UL	FM
150 / 6	168.3 / 6.625	300 / 2.07	165 / 6.496	UL	FM
200 / 8	219.1 / 8.625	300 / 2.07	197 / 7.755	UL	FM
250 / 10	273.0 / 10.750	300 / 2.07	229 / 9.016	UL	FM
300 / 12	323.9 / 12.750	300 / 2.07	254 / 10.000	UL	FM

XGQT14
Cross



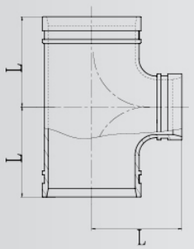


Size DN / in	Pipe O.D. mm / in	Working Pressure PSI / MPa	Cross Standard L mm / in	UL	FM
25 / 1	33.7 / 1.315	400 / 2.75	57 / 2.244	UL	FM
32 / 1 1/4	42.4 / 1.66	400 / 2.75	60 / 2.362	UL	FM
40 / 1 1/2	48.3 / 1.9	400 / 2.75	60 / 2.362	UL	FM
50 / 2	60.3 / 2.375	400 / 2.75	70 / 2.755	UL	FM
65 / 2 1/2	73.0 / 2.875	400 / 2.75	76 / 2.992	UL	FM
65 / 2 1/2	76.1 / 3.000	400 / 2.75	76 / 2.992	UL	FM
80 / 3	88.9 / 3.500	400 / 2.75	86 / 3.386	UL	FM
100 / 4	108.0 / 4.252	400 / 2.75	102 / 4.016	UL	FM
100 / 4	114.3 / 4.500	400 / 2.75	102 / 4.016	UL	FM

Size DN / in	Pipe O.D. mm / in	Working Pressure PSI / MPa	Cross Standard L mm / in	UL	FM
125 / 5	133.0 / 5.250	300 / 2.07	123 / 4.843	UL	FM
125 / 5	139.7 / 5.500	300 / 2.07	123 / 4.843	UL	FM
125 / 5	141.3 / 5.563	300 / 2.07	123 / 4.843	UL	FM
150 / 6	159.0 / 6.260	300 / 2.07	140 / 5.511	UL	FM
150 / 6	165.1 / 6.500	300 / 2.07	140 / 5.511	UL	FM
150 / 6	168.3 / 6.625	300 / 2.07	140 / 5.511	UL	FM
200 / 8	219.1 / 8.625	300 / 2.07	175 / 6.889	UL	FM
250 / 10	273.0 / 10.750	300 / 2.07	215 / 8.464	UL	FM
300 / 12	323.9 / 12.750	300 / 2.07	245 / 9.646	UL	FM

XGQT13
Reducing Tee
Grooved



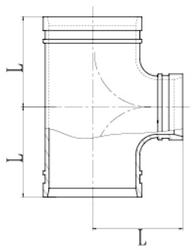


Nominal Size mm/in	Pipe O.D. mm/in Dxd	Working Pressure PSI/ MPa	Dimensions L mm/in	UL	FM
40×32 1 1/2 ×1 1/4	48.3×48.3×42.4 1.900×1.900×1.660	400 2.75	60 2.362		
50×25 2×1	60.3×60.3×33.7 2.375×2.375×1.315	400 2.75	70 2.755	UL	FM
50×32 2×1 1/4	60.3×60.3×42.4 2.375×2.375×1.660	400 2.75	70 2.755	UL	FM
50×40 2×1 1/2	60.3×60.3×48.3 2.375×2.375×1.900	400 2.75	70 2.755	UL	FM
65×25 2 1/2×1	73.0×73.0×33.7 2.875×2.875×1.315	400 2.75	76 2.992	UL	FM
65×32 2 1/2×1 1/4	73.0×73.0×42.4 2.875×2.875×1.660	400 2.75	76 2.992	UL	FM
65×40 2 1/2×1 1/2	73.0×73.0×48.3 2.875×2.875×1.900	400 2.75	76 2.992	UL	FM
65×50 2 1/2×2	73.0×73.0×60.3 2.875×2.875×2.375	400 2.75	76 2.992	UL	FM
65×25 2 1/2×1	76.1×76.1×33.7 3.000×3.000×1.315	400 2.75	76 2.992	UL	FM
65×32 2 1/2×1 1/4	76.1×76.1×42.4 3.000×3.000×1.660	400 2.75	76 2.992	UL	FM
65×40 2 1/2×1 1/2	76.1×76.1×48.3 3.000×3.000×1.900	400 2.75	76 2.992	UL	FM
65×50 2 1/2×2	76.1×76.1×60.3 3.000×3.000×2.375	232 1.6	76 2.992	UL	
80×25 3×1	88.9×88.9×33.7 3.500×3.500×1.315	400 2.75	86 3.386	UL	FM
80×32 3×1 1/4	88.9×88.9×42.4 3.500×3.500×1.660	400 2.75	86 3.386	UL	FM
80×40 3×1 1/2	88.9×88.9×48.3 3.500×3.500×1.900	400 2.75	86 3.386	UL	FM
80×50 3×2	88.9×88.9×60.3 3.500×3.500×2.375	400 2.75	86 3.386	UL	FM
80×65 3×2 1/2	88.9×88.9×73.0 3.500×3.500×2.875	400 2.75	86 3.386	UL	FM
80×65 3×2 1/2	88.9×88.9×76.1 3.500×3.500×3.000	232 1.6	86 3.386	UL	FM
100×50 4×2	108×108×60.3 4.252×4.252×2.375	400 2.75	102 4.016		
100×65 4×2 1/2	108×108×76.1 4.252×4.252×2.875	400 2.75	102 4.016		
100×80 4×3	108×108×88.9 4.252×4.252×3.000	400 2.75	102 4.016		
100×25 4×1	114.3×114.3×33.7 4.500×4.500×1.315	400 2.75	102 4.016	UL	FM
100×32 4×1 1/4	114.3×114.3×42.4 4.500×4.500×1.660	400 2.75	102 4.016	UL	FM
100×40 4×1 1/2	114.3×114.3×48.3 4.500×4.500×1.900	400 2.75	102 4.016	UL	FM
100×50 4×2	114.3×114.3×60.3 4.500×4.500×2.375	400 2.75	102 4.016	UL	FM
100×65 4×2 1/2	114.3×114.3×73.0 4.500×4.500×2.875	400 2.75	102 4.016	UL	FM
100×65 4×2 1/2	114.3×114.3×76.1 4.500×4.500×3.000	400 2.75	102 4.016	UL	FM
100×80 4×3	114.3×114.3×88.9 4.500×4.500×3.500	400 2.75	102 4.016	UL	FM
125×25 5×1	139.7×139.7×33.7 5.500×5.500×1.315	300 2.07	122 4.803	UL	FM
125×32 5×1 1/4	139.7×139.7×42.4 5.500×5.500×1.660	300 2.07	122 4.803	UL	FM
125×40 5×1 1/2	139.7×139.7×48.3 5.500×5.500×1.900	300 2.07	122 4.803	UL	FM
125×50 5×2	139.7×139.7×60.3 5.500×5.500×2.375	300 2.07	122 4.803	UL	FM
125×65 5×2 1/2	139.7×139.7×76.1 5.500×5.500×3.000	300 2.07	122 4.803	UL	FM
125×80 5×3	139.7×139.7×88.9 5.500×5.500×3.500	300 2.07	122 4.803	UL	FM
125×100 5×4	139.7×139.7×114.3 5.500×5.500×4.500	232 1.6	122 4.803		FM
125×50 5×2	141.3×141.3×60.3 5.563×5.563×2.375	300 2.07	122 4.803	UL	
125×65 5×2 1/2	141.3×141.3×73 5.563×5.563×2.875	400 2.75	122 4.803	UL	FM
125×65 5×2 1/2	141.3×141.3×76.1 5.563×5.563×3.000	300 2.07	122 4.803	UL	
125×80 5×3	141.3×141.3×88.9 5.563×5.563×2.375	300 2.07	140 5.512	UL	FM
125×100 5×4	141.3×141.3×114.3 5.563×5.563×4.500	400 2.75	122 4.803	UL	FM
150×60 6×2 1/2	159×159×76.1 6.260×6.260×2.875	300 2.07	140 5.512		
150×80 6×3	159×159×88.9 6.260×6.260×3.000	300 2.07	140 5.512		
150×100 6×4	159×159×108 6.260×6.260×4.252	300 2.07	140 5.512		
150×125 6×4	159×159×114.3 6.260×6.260×4.500	300 2.07	140 5.512		

XGQT13

Reducing Tee Grooved



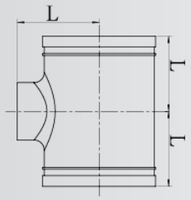


Nominal Size mm/in	Pipe O.D. mm/in Dxd	Working Pressure PSI/MPa	Dimensions L mm/in	UL	FM
150×25 6×1	165.1×165.1×33.7 6.500×6.500×1.315	300 2.07	140 5.511	UL	FM
150×32 6×1 1/4	165.1×165.1×42.4 6.500×6.500×1.660	300 2.07	140 5.511	UL	FM
150×40 6×1 1/2	165.1×165.1×48.3 6.500×6.500×1.900	300 2.07	140 5.511	UL	FM
150×50 6×2	165.1×165.1×60.3 6.500×6.500×2.375	300 2.07	140 5.511	UL	FM
150×65 6×2 1/2	165.1×165.1×76.1 6.500×6.500×3.000	300 2.07	140 5.511	UL	FM
150×80 6×3	165.1×165.1×88.9 6.500×6.500×3.500	300 2.07	140 5.511	UL	FM
150×100 6×4	165.1×165.1×114.3 6.500×6.500×4.500	300 2.07	140 5.511	UL	FM
150×125 6×5	165.1×165.1×139.7 6.500×6.500×5.500	232 1.6	140 5.511		FM
150×25 6×1	168.3×168.3×33.7 6.625×6.625×1.315	300 2.07	140 5.511	UL	FM
150×32 6×1 1/4	168.3×168.3×42.4 6.625×6.625×1.660	300 2.07	140 5.511	UL	FM
150×40 6×1 1/2	168.3×168.3×48.3 6.625×6.625×1.900	300 2.07	140 5.511	UL	FM
150×50 6×2	168.3×168.3×60.3 6.625×6.625×2.375	300 2.07	140 5.511	UL	FM
150×65 6×2 1/2	168.3×168.3×73.0 6.625×6.625×2.875	400 2.75	140 5.511	UL	FM
150×65 6×2 1/2	168.3×168.3×76.1 6.625×6.625×3.000	300 2.07	140 5.511	UL	FM
150×80 6×3	168.3×168.3×88.9 6.625×6.625×3.500	300 2.07	140 5.511	UL	FM
150×100 6×4	168.3×168.3×114.3 6.625×6.625×4.500	300 2.07	140 5.511	UL	FM
150×125 6×5	168.3×168.3×139.7 6.625×6.625×5.500	300 2.07	140 5.511		
200×80 8×3	216.3×216.3×88.9 8.516×8.516×3.000	300 2.07	175 6.890		
200×125 8×5	216.3×216.3×139.7 8.516×8.516×3.500	300 2.07	175 6.890		
200×50 8×2	219.1×219.1×60.3 8.625×8.625×2.375	300 2.07	175 6.889		
200×65 8×2 1/2	219.1×219.1×73 8.625×8.625×2.875	300 2.07	175 6.889	UL	FM
200×65 8×2 1/2	219.3×219.3×76.3 8.625×8.625×3.000	232 1.6	175 6.889	UL	
200×80 8×3	219.1×219.1×88.9 8.625×8.625××3.500	232 1.6	175 6.889	UL	FM
200×100 8×4	219.1×219.1×114.3 8.625×8.625×4.500	300 2.07	175 6.889	UL	FM
200×125 8×5	219.1×219.1×141.3 8.625×8.625×5.563	232 1.6	175 6.889	UL	
200×150 8×6	219.1×219.1×165.1 8.625×8.625×6.500	300 2.07	175 6.889	UL	FM
200×150 8×6	219.1×219.1×168.3 8.625×8.625×6.625	300 2.07	175 6.889	UL	FM
250×80 10×3	267.4×267.4×88.9 10.527×10.527×3.000	300 2.07	215 8.464		
250×100 10×4	267.4×267.4×114.3 10.527×10.527×4.500	300 2.07	215 8.464		
250×150 10×6	267.4×267.4×165.1 10.527×10.527×6.500	300 2.07	215 8.464		
250×200 10×8	267.4×267.4×216.3 10.527×10.527×8.516	300 2.07	215 8.464		
250×100 10×4	273.0×273.0×114.3 10.750×10.750×4.500	300 2.07	215 8.465	UL	
250×125 10×5	273.0×273.0×139.7 10.750×10.750×5.500	300 2.07	215 8.465		
250×150 10×6	273.0×273.0×165.1 10.750×10.750×6.500	300 2.07	215 8.465		
250×150 10×6	273×273×168.3 10.750×10.750×6.625	300 2.07	215 8.465	UL	FM
250×200 10×8	273.0×273.0×219.1 10.750×10.750×8.625	300 2.07	215 8.465	UL	FM
300×100 12×4	323.9×323.9×114.3 12.750×12.750×4.500	300 2.07	245 9.646	UL	FM
300×150 12×6	323.9×323.9×165.1 12.750×12.750×6.500	300 2.07	245 9.646		
300×200 12×8	323.9×323.9×219.1 12.750×12.750×8.625	300 2.07	245 9.646	UL	FM
300×250 12×10	323.9×323.9×273.0 12.750×12.750×10.75	300 2.07	245 9.646	UL	FM

XGQT13S

Reducing Tee Threaded



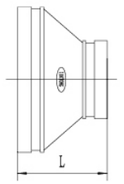


Nominal Size mm/in	Pipe O.D. mm/in Dxd	Working Pressure PSI/MPa	Dimensions L mm/in	UL	FM
32×25 1 1/4×1	42.4×42.4×33.7 1.660×1.660×1.315	232 1.6	60 2.362	UL	
40×25 1 1/2×1	48.3×48.3×33.7 1.900×1.900×1.315	232 1.6	60 2.362	UL	
40×32 1 1/2×1 1/4	48.3×48.3×42.4 1.900×1.900×1.660	232 1.6	60 2.362	UL	
50×25 2×1	60.3×60.3×33.7 2.375×2.375×1.315	300 2.07	70 2.755	UL	FM
50×32 2×1 1/4	60.3×60.3×42.4 2.375×2.375×1.660	300 2.07	70 2.755	UL	FM
50×40 2×1 1/2	60.3×60.3×48.3 2.375×2.375×1.900	300 2.07	70 2.755	UL	FM
65×25 2 1/2×1	73.0×73.0×33.7 2.875×2.875×1.315	400 2.75	76 2.992	UL	FM
65×32 2 1/2×1 1/4	73.0×73.0×42.4 2.875×2.875×1.660	400 2.75	76 2.992	UL	FM
65×40 2 1/2×1 1/2	73.0×73.0×48.3 2.875×2.875×1.900	400 2.75	76 2.992	UL	FM
65×50 2 1/2×2	73.0×73.0×60.3 2.875×2.875×2.375	400 2.75	76 2.992	UL	FM
65×25 2 1/2×1	76.1×76.1×33.7 3.000×3.000×1.315	300 2.07	76 2.992	UL	FM
65×32 2 1/2×1 1/4	76.1×76.1×42.4 3.000×3.000×1.660	300 2.07	76 2.992	UL	FM
65×40 2 1/2×1 1/2	76.1×76.1×48.3 3.000×3.000×1.900	300 2.07	76 2.992	UL	FM
65×50 2 1/2×2	76.1×76.1×60.3 3.000×3.000×2.375	300 2.07	76 2.992	UL	
80×25 3×1	88.9×88.9×33.7 3.500×3.500×1.315	300 2.07	86 3.386	UL	FM
80×32 3×1 1/4	88.9×88.9×42.4 3.500×3.500×1.660	300 2.07	86 3.386	UL	FM
80×40 3×1 1/2	88.9×88.9×48.3 3.500×3.500×1.900	300 2.07	86 3.386	UL	FM
80×50 3×2	88.9×88.9×60.3 3.500×3.500×2.375	300 2.07	86 3.386	UL	FM
80×65 3×2 1/2	88.9×88.9×76.1 3.500×3.500×3.000	232 1.6	86 3.386	UL	
100×50 4×2	108×108×60.3 4.252×4.252×2.375	400 2.75	102 4.016		
100×65 4×2 1/2	108×108×76.1 4.252×4.252×2.875	400 2.75	102 4.016		
100×25 4×1	114.3×114.3×33.7 4.500×4.500×1.315	300 2.07	102 4.016	UL	FM
100×32 4×1 1/4	114.3×114.3×42.4 4.500×4.500×1.660	300 2.07	102 4.016	UL	FM
100×40 4×1 1/2	114.3×114.3×48.3 4.500×4.500×1.900	300 2.07	102 4.016	UL	FM
100×50 4×2	114.3×114.3×60.3 4.500×4.500×2.375	300 2.07	102 4.016	UL	FM
100×65 4×2 1/2	114.3×114.3×73.0 4.500×4.500×2.875	300 2.07	102 4.016		
100×65 4×2 1/2	114.3×114.3×76.1 4.500×4.500×3.000	300 2.07	102 4.016	UL	FM
100×80 4×3	114.3×114.3×88.9 4.500×4.500×3.500	300 2.07	102 4.106	UL	FM
125×25 5×1	139.7×139.7×33.7 5.500×5.500×1.315	300 2.07	122 4.803	UL	FM

Nominal Size mm/in	Pipe O.D. mm/in Dxd	Working Pressure PSI/MPa	Dimensions L mm/in	UL	FM
125×32 5×1 1/4	139.7×139.7×42.4 5.500×5.500×1.660	300 2.07	122 4.803	UL	FM
125×40 5×1 1/2	139.7×139.7×48.3 5.500×5.500×1.900	300 2.07	122 4.803	UL	FM
125×50 5×2	139.7×139.7×60.3 5.500×5.500×2.375	300 2.07	122 4.803	UL	FM
125×65 5×2 1/2	139.7×139.7×76.1 5.500×5.500×3.000	300 2.07	122 4.803	UL	FM
125×80 5×3	139.7×139.7×88.9 5.500×5.500×3.500	300 2.07	122 4.803	UL	FM
125×25 5×1	141.3×141.3×33.7 5.563×5.563×1.315	300 2.07	122 4.803	UL	
125×32 5×1 1/4	141.3×141.3×42.4 5.563×5.563×1.660	300 2.07	122 4.803	UL	
125×40 5×1 1/2	141.3×141.3×48.3 5.563×5.563×1.900	300 2.07	122 4.803	UL	
125×50 5×2	141.3×141.3×60.3 5.563×5.563×2.375	300 2.07	122 4.803	UL	FM
125×65 5×2 1/2	141.3×141.3×76.1 5.563×5.563×3.00	300 2.07	122 4.803	UL	
150×25 6×1	159×159×33.7 6.260×6.260×1.315	400 2.75	140 5.512		
150×25 6×1 1/4	159×159×42.4 6.260×6.260×1.660	400 2.75	140 5.512		
150×25 6×1 1/2	159×159×48.3 6.260×6.260×1.900	400 2.75	140 5.512		
150×25 6×1	165.1×165.1×33.7 6.500×6.500×1.315	300 2.07	140 5.511	UL	FM
150×32 6×1 1/4	165.1×165.1×42.4 6.500×6.500×1.660	300 2.07	140 5.511	UL	FM
150×40 6×1 1/2	165.1×165.1×48.3 6.500×6.500×1.900	300 2.07	140 5.511	UL	FM
150×50 6×2	165.1×165.1×60.3 6.500×6.500×2.375	300 2.07	140 5.511	UL	FM
150×65 6×2 1/2	165.1×165.1×76.1 6.500×6.500×3.000	300 2.07	140 5.511	UL	FM
150×80 6×3	165.1×165.1×88.9 6.500×6.500×3.500	300 2.07	140 5.511	UL	FM
150×100 6×4	165.1×165.1×114.3 6.500×6.500×4.500	300 2.07	140 5.511	UL	FM
150×25 6×1	168.3×168.3×33.7 6.625×6.625×1.315	300 2.07	140 5.511	UL	FM
150×32 6×1 1/4	168.3×168.3×42.4 6.625×6.625×1.660	300 2.07	140 5.511	UL	FM
150×40 6×1 1/2	168.3×168.3×48.3 6.625×6.625×1.900	300 2.07	140 5.511	UL	FM
150×50 6×2	168.3×168.3×60.3 6.625×6.625×2.375	300 2.07	140 5.511	UL	FM
150×65 6×2 1/2	168.3×168.3×76.1 6.625×6.625×3.000	300 2.07	140 5.511	UL	FM
150×80 6×3	168.3×168.3×88.9 6.625×6.625×3.500	300 2.07	140 5.511	UL	FM
150×100 6×4	168.3×168.3×114.3 6.625×6.625×4.500	300 2.07	140 5.511	UL	FM
200×80 8×3	219.1×219.1×88.9 8.625×8.625×3.500	300 2.07	175 6.889		

XGQT16
Grooved Reducer



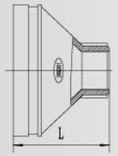


The specific itmes list shall be subject to the public notice of FM and UL website.

Nominal Size mm/in	Pipe O.D. mm/in Dxd	Working Pressure PSI/MPa	Dimensions L mm/in	UL	FM
32×25 1 1/4×1	42.4×33.7 1.669×1.327	400 2.75	64 2.52	UL	FM
40×25 1 1/2×1	48.3×33.7 1.900×1.327	400 2.75	64 2.52	UL	FM
40×32 1 1/2×1 1/4	48.3×42.4 1.900×1.669	400 2.75	64 2.52	UL	FM
50×25 2×1	60.3×33.7 2.375×1.327	400 2.75	64 2.52	UL	FM
50×32 2×1 1/4	60.3×42.4 2.375×1.669	400 2.75	64 2.52	UL	FM
50×40 2×1 1/2	60.3×48.3 2.375×1.900	400 2.75	64 2.52	UL	FM
65×25 2 1/2×1	73×33.7 2.87×1.327	400 2.75	64 2.52		
65×32 2 1/2×1 1/4	73×42.4 2.87×1.669	400 2.75	64 2.52	UL	FM
65×40 2 1/2×1 1/2	73×48.3 2.87×1.900	400 2.75	64 2.52	UL	FM
65×50 2 1/2×2	73×60.3 2.87×2.375	400 2.75	64 2.52	UL	FM
65×25 2 1/2×1	76.1×33.7 2.996×1.327	400 2.75	64 2.52	UL	FM
65×32 2 1/2×1 1/4	76.1×42.4 2.996×1.669	400 2.75	64 2.52	UL	FM
65×40 2 1/2×1 1/2	76.1×48.3 2.996×1.900	400 2.75	64 2.52	UL	FM
65×50 2 1/2×2	76.1×60.3 2.996×2.375	400 2.75	64 2.52	UL	FM
80×32 3×1 1/4	88.9×42.4 3.500×1.669	400 2.75	64 2.52	UL	FM
80×40 3×1 1/2	88.9×48.3 3.500×1.900	400 2.75	64 2.52	UL	FM
80×50 3×2	88.9×60.3 3.500×2.375	400 2.75	64 2.52	UL	FM
80×65 3×2 1/2	88.9×73.0 3.500×2.875	400 2.75	64 2.52	UL	FM
80×65 3×2 1/2	88.9×76.1 3.500×3.000	400 2.75	64 2.52	UL	FM
100×50 4×2	108×60.3 4.252×2.375	400 2.75	76 3.00		
100×65 4×2 1/2	108×76.1 4.252×3.000	400 2.75	76 3.00		
100×80 4×3	108×88.9 4.252×3.500	400 2.75	76 3.00		
100×32 4×1 1/4	114.3×42.4 4.500×1.669	400 2.75	76 3.00	UL	FM
100×40 4×1 1/2	114.3×60.3 4.500×2.375	400 2.75	76 3.00	UL	FM
100×50 4×2	114.3×73.0 4.500×2.875	400 2.75	76 3.00	UL	FM
100×65 4×2 1/2	114.3×76.1 4.500×3.000	400 2.75	76 3.00	UL	FM
100×65 4×2 1/2	114.3×88.9 4.500×3.500	400 2.75	76 3.00	UL	FM
100×80 4×3	133×88.9 5.250×3.500	400 2.75	76 3.00	UL	FM
125×80 5×3	133×108 5.250×4.252	400 2.75	89 3.50		
125×100 5×4	133×114.3 5.250×4.500	400 2.75	89 3.50		
125×32 5×1 1/4	139.7×42.4 5.500×1.669	300 2.07	89 3.50	UL	FM
125×40 5×1 1/2	139.7×48.3 5.500×1.900	300 2.07	89 3.50	UL	FM
125×50 5×2	139.7×60.3 5.500×2.3751	300 2.07	89 3.50	UL	FM
125×65 5×2 1/2	139.7×76.1 5.500×3.000	300 2.07	89 3.50	UL	FM
125×80 5×3	139.7×88.9 5.500×3.500	300 2.07	89 3.50	UL	FM
125×100 5×4	139.7×114.3 5.500×4.500	300 2.07	89 3.50	UL	FM
125×50 5×2	141.3×60.3 5.563×2.375	300 2.07	89 3.50	UL	
125×65 5×2 1/2	141.3×73 5.563×2.874	300 2.07	89 3.50	UL	FM
125×65 5×2 1/2	141.3×76.1 5.563×3.000	300 2.07	89 3.50	UL	
125×80 5×3	141.3×88.9 5.563×3.000	300 2.07	89 3.50	UL	FM
125×100 5×4	141.3×114.3 5.563×4.500	300 2.07	89 3.50	UL	FM
150×65 6×2 1/2	159×76.1 6.260×3.000	300 2.07	102 4.02		
150×80 6×3	159×88.9 6.260×3.500	300 2.07	102 4.02		
150×100 6×4	159×108 6.260×4.252	300 2.07	102 4.02		
150×100 6×4	159×114.3 6.260×4.500	300 2.07	102 4.02		
150×125 6×5	159×133 6.260×5.250	300 2.07	102 4.02		
150×50 6×2	165.1×60.3 6.500×2.375	300 2.07	102 4.02	UL	FM
150×65 6×2 1/2	165.1×76.1 6.500×3.000	300 2.07	102 4.02	UL	FM
150×80 6×3	165.1×88.9 6.500×3.500	300 2.07	102 4.02	UL	FM
150×100 6×4	165.1×114.3 6.500×4.500	300 2.07	102 4.02	UL	FM
150×125 6×5	165.1×139.7 6.500×5.500	300 2.07	102 4.02		FM
150×125 6×5	165.1×141.3 6.500×5.563	300 2.07	102 4.02	UL	
150×50 6×2	168.3×60.3 6.625×2.375	300 2.07	102 4.02	UL	FM
150×65 6×2 1/2	168.3×73 6.625×2.875	300 2.07	102 4.02	UL	FM
150×65 6×2 1/2	168.3×76.1 6.625×3.000	300 2.07	102 4.02	UL	FM
150×80 6×3	168.3×88.9 6.625×3.500	300 2.07	102 4.02	UL	FM
150×100 6×4	168.3×114.3 6.625×4.500	300 2.07	102 4.02	UL	FM
150×125 6×5	168.3×139.7 6.625×5.500	300 2.07	102 4.02	UL	FM
200×150 8×6	216.3×165.1 8.625×6.500	300 2.07	127 5.00		
200×50 8×2	219.1×60.3 8.625×2.375	300 2.07	127 5.00	UL	FM
200×65 8×2 1/2	219.1×73 8.625×2.875	300 2.07	127 5.00	UL	FM
200×65 8×2 1/2	219.1×76.1 8.625×3.000	300 2.07	127 5.00	UL	FM
200×80 8×3	219.1×88.9 8.625×3.500	300 2.07	127 5.00	UL	FM
200×100 8×4	219.1×108 8.625×4.252	300 2.07	127 5.00		
200×100 8×4	219.1×114.3 8.625×4.500	300 2.07	127 5.00	UL	FM
200×125 8×5	219.1×139.7 8.625×5.500	300 2.07	127 5.00	UL	FM
200×125 8×5	219.1×141.3 8.625×5.563	300 2.07	127 5.00	UL	FM
200×150 8×6	219.1×159 8.625×6.260	300 2.07	127 5.00		
200×150 8×6	219.1×165.1 8.625×6.500	300 2.07	127 5.00	UL	FM
200×150 8×6	219.1×168.3 8.625×6.625	300 2.07	127 5.00	UL	FM
250×100 10×4	273.0×114.3 10.75×4.500	300 2.07	152 5.98	UL	FM
250×150 10×6	273.0×159 10.75×6.260	300 2.07	152 5.98		
250×150 10×6	273.0×165.1 10.75×6.500	300 2.07	152 5.98		FM
250×150 10×6	273.0×168.3 10.75×6.625	300 2.07	152 5.98	UL	FM
250×200 10×8	273.0×219.1 10.75×8.625	300 2.07	152 5.98	UL	FM
300×250 12×8	318.5×216.3 12.539×8.516	300 2.07	178 7.00		
300×250 12×10	318.5×267.4 12.539×10.528	300 2.07	178 7.00		
300×100 12×4	323.9×114.3 12.75×4.500	300 2.07	178 7.00		FM
300×125 12×5	323.9×139.7 12.75×5.500	300 2.07	178 7.00		FM
300×150 12×6	323.9×165.1 12.75×6.500	300 2.07	178 7.00		FM
300×150 12×6	323.9×168.3 12.75×6.500	300 2.07	178 7.00	UL	FM
300×200 12×8	323.9×219.1 12.75×8.625	300 2.07	178 7.00	UL	FM
300×250 12×10	323.9×273 12.75×10.75	300 2.07	178 7.00	UL	FM

XGQT16S
Threaded Reducer





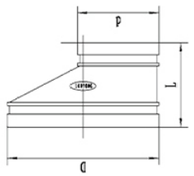
The specific itmes list shall be subject to the public notice of FM and UL website.

Nominal Size mm/in	Pipe O.D mm/in DXd	Working Pressure PSI/MPa	Dimensions L mm/in	UL	FM
40×25 1 1/2×1	48.3×33.7 1.900×1.327	400 2.75	64 2.52	UL	
50×25 2×1	60.3×33.7 2.375×1.327	400 2.75	64 2.52	UL	FM
50×32 2×1 1/4	60.3×42.4 2.375×1.669	400 2.75	64 2.52	UL	FM
50×40 2×1 1/2	60.3×48.3 2.375×1.900	400 2.75	64 2.52	UL	FM
65×25 2 1/2×1	73×33.7 2.87×1.327	400 2.75	64 2.52	UL	FM
65×32 2 1/2×1 1/4	73×42.4 2.87×1.669	400 2.75	64 2.52	UL	FM
65×40 2 1/2×1 1/2	73×48.3 2.87×1.900	400 2.75	64 2.52	UL	FM
65×50 2 1/2×2	73×60.3 2.87×2.375	400 2.75	64 2.52	UL	FM
65×25 2 1/2×1	76.1×33.7 2.996×1.327	400 2.75	64 2.52	UL	FM
65×32 2 1/2×1 1/4	76.1×42.4 2.996×1.669	400 2.75	64 2.52	UL	FM
65×40 2 1/2×1 1/2	76.1×48.3 2.996×1.669	400 2.75	64 2.52	UL	FM
65×50 2 1/2×2	76.1×60.3 2.996×2.375	400 2.75	64 2.52	UL	FM
80×25 3×1	88.9×33.7 3.500×1.327	400 2.75	64 2.52	UL	FM
80×32 3×1 1/4	88.9×42.4 3.500×1.669	400 2.75	64 2.52	UL	FM
80×40 3×1 1/2	88.9×48.3 3.500×1.900	400 2.75	64 2.52	UL	FM
80×50 3×2	88.9×60.3 3.500×2.375	400 2.75	64 2.52	UL	FM
80×65 3×2 1/2	88.9×73.0 3.500×2.875	400 2.75	64 2.52		
80×65 3×2 1/2	88.9×76.1 3.500×3.000	400 2.75	64 2.52	UL	
100×25 4×1	108×33.7 4.252×1.327	400 2.75	76 3.00		
100×32 4×1 1/4	108×42.4 4.252×1.669	400 2.75	76 3.00		
100×50 4×2	108×60.3 4.252×2.375	400 2.75	76 3.00		
100×65 4×2 1/2	108×76.1 4.252×3.000	400 2.75	76 3.00		
100×80 4×3	108×88.9 4.252×3.500	400 2.75	76 3.00		
100×25 4×1	114.3×33.7 4.500×1.327	400 2.75	76 3.00	UL	FM
100×32 4×1 1/4	114.3×42.4 4.500×1.669	400 2.75	76 3.00	UL	FM
100×40 4×1 1/2	114.3×48.3 4.500×1.900	400 2.75	76 3.00	UL	FM
100×50 4×2	114.3×60.3 4.500×2.375	400 2.75	76 3.00	UL	FM
100×65 4×2 1/2	114.3×73.0 4.500×2.875	400 2.75	76 3.00		
100×65 4×2 1/2	114.3×76.1 4.500×3.000	400 2.75	76 3.00	UL	FM
100×80 4×3	114.3×88.9 4.500×3.500	400 2.75	76 3.00	UL	FM
125×65 5×2 1/2	133×76.1 5.250×3.000	400 2.75	89 3.50		
125×80 5×3	133×88.9 5.250×3.500	400 2.75	89 3.50		
125×25 5×1	139.7×33.7 5.500×1.327	300 2.07	89 3.50	UL	FM
125×32 5×1 1/4	139.7×42.4 5.500×1.669	300 2.07	89 3.50	UL	FM
125×40 5×1 1/2	139.7×48.3 5.500×1.900	300 2.07	89 3.50	UL	FM
125×50 5×2	139.7×60.3 5.500×2.375	300 2.07	89 3.50	UL	FM
125×65 5×2 1/2	139.7×76.1 5.500×3.000	300 2.07	89 3.50	UL	FM
125×80 5×3	139.7×88.9 5.500×3.500	300 2.07	89 3.50	UL	FM
125×100 5×4	139.7×114.3 5.500×4.500	300 2.07	89 3.50	UL	FM
150×50 6×2	139.7×60.3 5.500×2.375	300 2.07	89 3.50	UL	FM
150×65 6×2 1/2	139.7×76.1 5.500×3.000	300 2.07	89 3.50	UL	FM
150×80 6×3	139.7×88.9 5.500×3.500	300 2.07	89 3.50	UL	FM
150×100 6×4	139.7×114.3 5.500×4.500	300 2.07	89 3.50	UL	FM
150×25 6×1	159×33.7 6.260×1.327	300 2.07	102 4.02		
150×32 6×1 1/4	159×42.4 6.260×1.669	300 2.07	102 4.02		
150×40 6×1 1/2	159×48.3 6.260×1.900	300 2.07	102 4.02		
150×50 6×2	159×60.3 6.260×2.375	300 2.07	102 4.02		
150×65 6×2 1/2	159×76.1 6.260×3.000	300 2.07	102 4.02		
150×80 6×3	159×88.9 6.260×3.500	300 2.07	102 4.02		
150×25 6×1	165.1×33.7 6.500×1.327	300 2.07	102 4.02	UL	FM
150×32 6×1 1/4	165.1×42.4 6.500×1.669	300 2.07	102 4.02	UL	FM
150×40 6×1 1/2	165.1×48.3 6.500×1.900	300 2.07	102 4.02	UL	FM
150×50 6×2	165.1×60.3 6.500×2.375	300 2.07	102 4.02	UL	FM
150×65 6×2 1/2	165.1×76.1 6.500×3.000	300 2.07	102 4.02	UL	FM
150×100 6×4	165.1×114.3 6.500×4.500	300 2.07	102 4.02	UL	FM
150×80 6×3	165.1×88.9 6.500×3.500	300 2.07	102 4.02	UL	FM
150×25 6×1	168.3×33.7 6.625×1.327	300 2.07	102 4.02	UL	FM
150×32 6×1 1/4	168.3×42.4 6.625×1.669	300 2.07	102 4.02	UL	FM
150×40 6×1 1/2	168.3×48.3 6.625×1.900	300 2.07	102 4.02	UL	FM
150×50 6×2	168.3×60.3 6.625×2.375	300 2.07	102 4.02	UL	FM
150×65 6×2 1/2	168.3×76.1 6.625×3.000	300 2.07	102 4.02	UL	FM
150×80 6×3	168.3×88.9 6.625×3.500	300 2.07	102 4.02	UL	FM
150×100 6×4	168.3×114.3 6.625×4.500	300 2.07	102 4.02	UL	FM
200×25 8×1	219.1×33.7 8.625×1.327	300 2.07	127 5.00	UL	FM
200×32 8×1 1/4	219.1×42.4 8.625×1.669	300 2.07	127 5.00	UL	FM
200×40 8×1 1/2	219.1×48.3 8.625×1.900	300 2.07	127 5.00	UL	FM
200×50 8×2	219.1×60.3 8.625×2.375	300 2.07	127 5.00	UL	FM
200×65 8×2 1/2	219.1×76.1 8.625×3.000	300 2.07	127 5.00	UL	FM
200×80 8×3	219.1×88.9 8.625×3.500	300 2.07	127 5.00	UL	FM
200×100 8×4	219.1×114.3 8.625×4.500	300 2.07	127 5.00	UL	FM
200×25 8×1	219.1×33.7 8.625×1.327	300 2.07	127 5.00	UL	FM

XGQT17

Grooved Eccentric Reducer





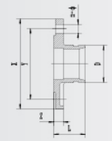
Nominal Size mm/in	Pipe O.D mm/in DXd	Working Pressure PSI/MPa	Dimensions L mm/in	UL	FM
65×50 2½×2	76.1×60.3 3.000×2.375	500 3.45	64 2.52		
80×50 3×2	88.9×60.3 3.500×2.375	500 3.45	64 2.52	UL	FM
80×65 3×2½	88.9×73.0 3.500×2.875	500 3.45	64 2.52	UL	FM
80×65 3×2½	88.9×76.1 3.500×3.000	500 3.45	64 2.52	UL	FM
100×50 4×2	114.3×60.3 4.500×2.375	500 3.45	76 3.00	UL	FM
100×65 4×2½	114.3×73.0 4.500×2.875	500 3.45	76 3.00	UL	FM
100×65 4×2½	114.3×76.1 4.500×3.000	500 3.45	76 3.00	UL	FM
100×80 4×3	114.3×88.9 4.500×3.500	500 3.45	76 3.00	UL	FM
125×65 5×2½	139.7×76.1 5.500×3.000	500 3.45	89 3.50	UL	FM
125×80 5×3	139.7×88.9 5.500×3.500	500 3.45	89 3.50	UL	FM
125×100 5×4	139.7×114.3 5.500×4.500	500 3.45	89 3.50	UL	FM
150×50 6×2	159.0×60.3 6.250×2.375	500 3.45	102 4.02	UL	
150×65 6×2½	159.0×76.1 6.250×3.000	500 3.45	102 4.02	UL	FM
150×80 6×3	159.0×88.9 6.250×3.500	500 3.45	102 4.02	UL	FM
150×100 6×4	159.0×114.3 6.250×4.500	500 3.45	102 4.02	UL	FM
150×100 6×4	159.0×108.0 6.250×4.250	500 3.45	102 4.02	UL	FM
150×65 6×2½	165.1×76.1 6.500×3.000	500 3.45	102 4.02	UL	FM
150×80 6×3	165.1×88.9 6.500×3.500	500 3.45	102 4.02	UL	FM
150×100 6×4	165.1×114.3 6.500×4.500	500 3.45	102 4.02	UL	FM
150×125 6×5	165.1×139.7 6.500×5.500	500 3.45	102 4.02	UL	FM
150×80 6×3	168.3×88.9 6.625×3.500	500 3.45	102 4.02	UL	FM
150×100 6×4	168.3×114.3 6.625×4.500	500 3.45	102 4.02	UL	FM
150×125 6×5	168.3×139.7 6.625×5.500	500 3.45	102 4.02	UL	FM
200×80 8×3	219.1×88.9 8.625×3.500	500 3.45	127 5.00	UL	FM
200×100 8×4	219.1×114.3 8.625×4.500	500 3.45	127 5.00	UL	FM
200×125 8×5	219.1×139.7 8.625×5.500	500 3.45	127 5.00	UL	FM
200×150 8×6	219.1×165.1 8.625×6.500	500 3.45	127 5.00	UL	FM
200×150 8×6	219.1×168.3 8.625×6.625	500 3.45	127 5.00	UL	FM
250×150 10×6	273.0×165.1 10.75×6.500	500 3.45	152 5.98	UL	FM
250×150 10×6	273.0×168.3 10.75×6.625	500 3.45	152 5.98	UL	FM
250×200 10×8	273.0×219.1 10.75×8.625	500 3.45	152 5.98	UL	FM

XGQT18

Flange Adaptor

PN16





Nominal Size mm/in	Pipe O.D. mm/in Dxd	Working Pressure PSI/MPa	Dimensions mm/in L mm/in	X mm/in	Y mm/in	Z mm/in	Bolt Size No.–Size mm	UL	FM
50 2	60.3 2.375	300 2.07	61 2.40	165 6.496	125 4.92	19 0.748	4–M16	UL	FM
65 2½	73.0 2.875	300 2.07	61 2.40	185 7.283	145 5.70	19 0.748	4–M16	UL	FM
65 2½	76.1 3.000	300 2.07	61 2.40	185 7.283	145 5.70	19 0.748	4–M16	UL	FM
80 3	88.9 3.500	300 2.07	61 2.40	200 7.874	160 6.29	19 0.748	8–M16	UL	FM
100 4	108.0 4.250	300 2.07	61 2.40	220 8.661	180 7.08	19 0.748	8–M16	UL	FM
100 4	114.3 4.500	300 2.07	70 2.755	220 8.661	180 7.08	19 0.748	8–M16	UL	FM
125 5	133.0 5.250	300 2.07	61 2.40	250 9.842	210 8.26	19 0.748	8–M16	UL	FM
125 5	139.7 5.500	300 2.07	61 2.40	250 9.842	210 8.26	19 0.748	8–M16	UL	FM
125 5	141.3 5.563	300 2.07	61 2.40	250 9.842	210 8.26	19 0.748	8–M16	UL	FM
150 6	159.0 6.250	300 2.07	70 2.755	285 11.22	240 9.448	19 0.748	8–M20	UL	FM
150 6	165.1 6.500	300 2.07	70 2.755	285 11.22	240 9.448	19 0.748	8–M20	UL	FM
150 6	168.3 6.625	300 2.07	70 2.755	285 11.22	240 9.448	19 0.748	8–M20	UL	FM
200 8	219.1 8.625	300 2.07	76 2.992	340 13.386	295 11.614	20 0.787	12–M20	UL	FM
250 10	273.0 10.750	300 2.07	85 3.346	405 15.944	355 13.97	22 0.866	12–M20	UL	FM
300 12	323.9 12.750	300 2.07	90 3.543	460 18.11	410 16.14	24.5 0.96	12–M20	UL	FM
350 14	377.0 14.843	300 2.07	100 3.937	520 20.47	470 18.50	26 1.02	16–M24	UL	FM

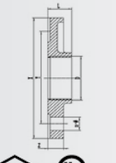
The specific itmes list shall be subject to the public notice of FM and UL website.

XGQT18S

Flange Threaded

PN16





Nominal Size mm/in	Pipe O.D. mm/in Dxd	Working Pressure PSI/MPa	Dimensions mm/in L mm/in	X mm/in	Y mm/in	Z mm/in	Bolt Size No.–Size mm	UL	FM
40 1½	48.3 1.9	300 2.07	34 1.338	150 5.906	110 4.331	19 0.748	4–M16		
50 2	60.3 2.375	300 2.07	34 1.338	165 6.496	125 4.92	19 0.748	4–M16	UL	FM
65 2½	76.1 3.000	300 2.07	34 1.338	185 7.283	145 5.70	19 0.748	4–M16	UL	FM
80 3	88.9 3.500	300 2.07	34 1.338	200 7.874	160 6.29	19 0.748	8–M16	UL	FM
100 4	114.3 4.500	300 2.07	40 1.57	220 8.661	180 7.08	19 0.748	8–M16	UL	FM

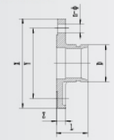
The specific itmes list shall be subject to the public notice of FM and UL website.

XGQT28

Flange Adaptor

ANSI–Class150





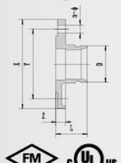
Nominal Size mm/in	Pipe O D mm/in D	Working Pressure PSI/MPa	Dimensions mm/in L mm/in	X mm/in	Y mm/in	Z mm/in	Bolt Size No.–Size mm	UL	FM
50 2	60.3 2.375	300 2.07	65 2.56	152 5.98	120.5 4.744	16 0.629	4–M16	UL	FM
65 2½	73.0 2.875	300 2.07	65 2.56	178 7.00	139.5 5.693	17.5 0.688	4–M16	UL	FM
80 3	88.9 3.500	300 2.07	65 2.56	190 7.48	152.5 6.00	19 0.748	4–M16	UL	FM
100 4	114.3 4.500	300 2.07	70 2.755	229 9.016	190.5 7.5	24 0.96	8–M16	UL	FM
125 5	141.3 5.562	300 2.07	70 2.755	254 10	216 8.503	24 0.96	8–M20	UL	FM
150 6	168.3 6.625	300 2.07	70 2.755	279 10.98	241.5 9.507	25.5 1.10	8–M20	UL	FM
200 8	219.1 8.625	300 2.07	82 3.228	343 13.50	298.5 11.751	28.5 1.112	8–M20	UL	FM
250 10	273.0 10.750	300 2.07	85 3.346	406 15.98	362 14.251	30 1.181	12–M24	UL	FM
300 12	323.9 12.750	300 2.07	90 3.543	483 19.01	432 17.00	32 1.259	12–M24	UL	FM

The specific itmes list shall be subject to the public notice of FM and UL website.

XGQT38

Table E Flange Adaptor



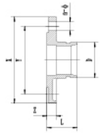


Nominal Size mm/in	Pipe O D mm/in D	Working Pressure PSI/MPa	Dimensions mm/in L mm/in	X mm/in	Y mm/in	Z mm/in	Bolt Size No.–Size mm	UL	FM
50 2	60.3 2.375	365 2.52	65 2.56	152 5.98	114 4.488	13 0.512	4–M16	UL	FM
65 3OD	76.1 2.996	365 2.52	70 2.755	166.5 6.56	128.5 5.059	13 0.512	4–M16	UL	FM
80 3	88.9 3.500	365 2.52	70 2.755	186 7.32	146 5.748	15 0.591	4–M16	UL	FM
100 4	114.3 4.500	365 2.52	70 2.755	216 8.504	179.5 7.063	17.5 0.689	8–M16	UL	FM
150 6–1/2OD	165.1 6.500	365 2.52	70 2.755	280 11.02	236.5 9.307	20 0.787	8–M20	UL	FM
200 8	219.1 8.625	365 2.52	100 3.98	337 13.27	292 11.496	21 0.827	8–M20	UL	FM

The specific itmes list shall be subject to the public notice of FM and UL website.

JIS 10K
Flange Adaptor



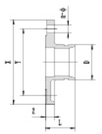


Nominal Size mm/in	Pipe O.D. mm/in Dxd	Working Pressure PSI/MPa	Dimensions mm/in L mm/in	X mm/in	Y mm/in	Z mm/in	Bolt Size No.–Size mm	UL	FM
50 2	60.3 2.375	145 1.0	80 3.15	160 6.23	120 4.72	18 0.71	4–M16		
65 2 1/2	76.1 2.996	145 1.0	85 3.35	180 7.09	140 5.51	20 0.79	4–M16		
80 3	88.9 3.500	145 1.0	85 3.35	190 7.48	150 5.91	20 0.79	8–M16		
100 4	114.3 4.500	145 1.0	90 3.54	213 8.39	175 6.89	20 0.79	8–M16		
125 5	139.7 5.500	145 1.0	95 3.74	254 10.00	210 8.27	22 0.87	8–M20		
150 6	165.1 6.500	145 1.0	100 3.94	284 11.18	240 9.45	24 0.94	8–M20		
200 8	216.3 8.516	145 1.0	115 4.53	334 13.15	290 11.42	24 0.94	12–M20		
250 10	267.4 10.527	145 1.0	120 4.72	402 15.83	355 13.98	24 0.94	12–M22		
300 12	318.5 12.539	145 1.0	120 4.72	447 17.60	400 15.75	24 0.94	16–M22		

The specific itmes list shall be subject to the public notice of FM and UL website.

JIS 20K
Flange Adaptor



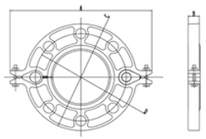


Nominal Size mm/in	Pipe O.D. mm/in Dxd	Working Pressure PSI/MPa	Dimensions mm/in L mm/in	X mm/in	Y mm/in	Z mm/in	Bolt Size No.–Size mm	UL	FM
50 2	60.3 2.375	300 2.0	80 3.15	160 6.23	120 4.72	18 0.71	8–M16		
65 2 1/2	76.1 2.996	300 2.0	85 3.35	180 7.09	140 5.51	20 0.79	8–M16		
80 3	88.9 3.500	300 2.0	85 3.35	205 8.07	160 6.30	22 0.87	8–M20		
100 4	114.3 4.500	300 2.0	90 3.54	228 8.98	185 7.28	24 0.94	8–M20		
125 5	139.7 5.500	300 2.0	95 3.74	274 10.79	225 8.86	26 1.02	8–M22		
150 6	165.1 6.500	300 2.0	100 3.94	310 12.20	260 10.24	28 1.10	12–M22		
200 8	216.3 8.516	300 2.0	115 4.53	354 13.94	305 12.01	30 1.18	12–M22		

The specific itmes list shall be subject to the public notice of FM and UL website.

XGQT19
Grooved Flange
PN16



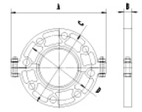


Nominal Size mm/in	Pipe O.D. mm/in	Working Pressure PSI/MPa	Dimensions mm/in A mm/in	B mm/in	C mm/in	D mm/in	Bolt Size No.–Size mm	UL	FM
50 2	60.3 2.375	300 2.07	220 8.661	21 0.827	165 6.496	125 4.921	4–M16	UL	FM
65 2 1/2	73.0 2.875	300 2.07	240 9.449	21 0.827	185 7.283	145 5.709	4–M16	UL	FM
65 2 1/2	76.1 3.000	300 2.07	240 9.449	21 0.827	185 7.283	145 5.709	4–M16	UL	FM
80 3	88.9 3.500	300 2.07	255 10.039	21 0.827	200 7.874	160 6.299	4–M16	UL	FM
100 4	108.0 4.250	300 2.07	280 11.024	22 0.866	220 8.661	180 7.087	8–M16	UL	FM
100 4	114.3 4.500	300 2.07	280 11.024	22 0.866	220 8.661	180 7.087	8–M16	UL	FM
125 5	133.0 5.250	300 2.07	318 12.520	22 0.866	250 9.843	210 8.268	8–M16	UL	FM
125 5	139.7 5.500	300 2.07	318 12.520	22 0.866	250 9.843	210 8.268	8–M16	UL	FM
125 5	141.3 5.563	300 2.07	318 12.520	22 0.866	250 9.843	210 8.268	8–M16	UL	FM
150 6	159.0 6.260	300 2.07	346 13.622	22 0.866	285 11.220	240 9.449	8–M20	UL	FM
150 6	165.1 6.500	300 2.07	346 13.622	22 0.866	285 11.220	240 9.449	8–M20	UL	FM
150 6	168.3 6.625	300 2.07	346 13.622	22 0.866	285 11.220	240 9.449	8–M20	UL	FM
200 8	219.1 8.625	300 2.07	410 16.142	26 1.024	340 13.386	295 11.614	8–M20	UL	FM
250 10	273 10.748	175 1.21	500 19.685	27 1.063	405 15.945	355 13.976	8–M20	UL	FM

The specific itmes list shall be subject to the public notice of FM and UL website.

XGQT29
Grooved Flange
ANSI–Class150





Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimensions mm/in A mm/in	Bmm/in	C mm/in	D mm/in	Bolt Size No.–Size mm	UL	FM
50 2	60.3 2.375	300 2.07	206 8.110	22 0.866	152 5.984	121 4.763	4–M16	UL	FM
65 2½	73.0 2.875	300 2.07	230 9.055	22 0.866	178 7.007	140 5.511	4–M16	UL	FM
80 3	88.9 3.500	300 2.07	242 9.527	24 0.944	191 7.519	152 5.984	4–M16	UL	FM
100 4	114.3 4.500	300 2.07	280 11.023	24 0.944	229 9.015	191 7.519	8–M16	UL	FM
125 5	139.7 5.500	300 2.07	325 12.795	24.5 0.964	254 10	216 8.503	8–M20		
125 5	141.3 5.563	300 2.07	325 12.795	24.5 0.964	254 10	216 8.503	8–M20	UL	FM
150 6	168.3 6.625	300 2.07	345 13.583	24.5 0.964	282 11.102	241.5 9.508	8–M20	UL	FM
200 8	219.1 8.625	300 2.07	414.3 16.311	28 1.102	341.4 13.44	298.5 11.751	8–M20	UL	FM
250 10	273.0 10.75	150 1.04	500 19.685	30 1.181	405 15.945	362 14.252	12–M24	UL	FM

The specific itmes list shall be subject to the public notice of FM and UL website.

XGQT20
Cap



Nominal Size mm/in	Pipe O.D Dxd mm/in	Working Pressure PSI/MPa	Dimensions L mm/in	UL	FM
25 1	33.7 1.315	400 2.75	24.5 0.96	UL	FM
32 1 1/4	42.4 1.660	400 2.75	24.5 0.96	UL	FM
40 1 1/2	48.3 1.900	400 2.75	24.5 0.96	UL	FM
50 2	60.3 2.375	400 2.75	24.5 0.96	UL	FM
65 2 1/2	73.0 2.875	400 2.75	24.5 0.96	UL	FM
65 2 1/2	76.1 3.000	400 2.75	24.5 0.96	UL	FM
80 3	88.9 3.500	400 2.75	24.5 0.96	UL	FM
100 4	108.0 4.252	400 2.75	25 0.99	UL	FM
100 4	114.3 4.500	300 2.07	25 0.99	UL	FM
125 5	133.0 5.250	300 2.07	25 0.99	UL	FM

Nominal Size mm/in	Pipe O.D Dxd mm/in	Working Pressure PSI/MPa	Dimensions L mm/in	UL	FM
125 5	139.7 5.500	300 2.07	25 0.99	UL	FM
125 5	141.3 5.563	300 2.07	25 0.99	UL	FM
150 6	159.0 6.260	300 2.07	25 0.99	UL	FM
150 6	165.1 6.500	300 2.07	25 0.99	UL	FM
150 6	168.3 6.625	300 2.07	25 0.99	UL	FM
200 8	219.1 8.625	300 2.07	30 1.81	UL	FM
250 10	267.4 10.527	300 2.07	32 1.259		
250 10	273.0 10.750	300 2.07	32 1.259	UL	FM
300 12	318.5 12.539	300 2.07	32 1.259		
300 12	323.9 12.752	300 2.07	32 1.259	UL	FM

XGQT20S
Threaded Cap



Nominal Size mm/in	Pipe O.D Dxd mm/in	Working Pressure PSI/MPa	Dimensions L mm/in	UL	FM
100×25 4×1	114.3×33.7 4.500×1.327	500 3.45	25 0.99	UL	FM
150×25 6×1	165.1×33.7 6.500×1.327	500 3.45	25 0.99	UL	FM
150×25 6×1	168.3×33.7 6.625×1.327	500 3.45	25 0.99	UL	FM
200×25 8×1	219.1×33.7 8.625×1.327	500 3.45	30 1.18	UL	FM
250×25 10×1	273×33.7 10.750×1.327	500 3.45	32 1.259	UL	FM

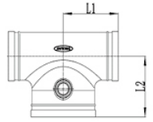
XGQT23
Drain Cap



Nominal Size mm/in	Pipe O.D. mm/in Dxd	Working Pressure PSI/MPa	Dimensions L mm/in	UL	FM
40×25 1 1/2×1	48.3×33.7 1.901×1.327	500 3.45	24.5 0.96		
50×25 2×1	60.3×33.7 2.375×1.327	500 3.45	24.5 0.96	UL	FM
50×15 2×1/2	60.3×21.3 2.375×0.839	500 3.45	24.5 0.96		
50×40 2×1 1/2	60.3×48.3 2.375×1.900	500 3.45	24.5 0.96	UL	FM
65×15 2 1/2×1/2	73×21.3 2.875×0. 839	500 3.45	24.5 0.96		
65×25 2 1/2×1	73.0×33.7 2.875×1.327	500 3.45	24.5 0.96	UL	FM
65×40 2 1/2×1 1/4	76.1×48.3 3.000×1.900	500 3.45	24.5 0.96	UL	FM
60×50 2 1/2×2	76.1×60.3 3.000×2.375	500 3.45	24.5 0.96	UL	FM
80×15 3×1/2	88.9×21.3 3.500×0.839	500 3.45	24.5 0.96		
80×25 3×1	88.9 ×33.7 3.500×1.327	500 3.45	24.5 0.96	UL	FM
80×40 3×1 1/2	88.9 ×48.3 3.500×1.900	500 3.45	24.5 0.96	UL	FM
80×50 3×2	88.9×60.3 3.500×2.375	500 3.45	24.5 0.96	UL	FM
100×15 4×1/2	114.3×21.3 4.500×0.839	500 3.45	25 0.99		
100×25 4×1	114.3×33.7 4.500×1.327	500 3.45	25 0.99	UL	FM
100×40 4×1 1/2	114.3×48.3 4.500×1.902	500 3.45	25 0.99	UL	FM
100×50 4×2	114.3×60.3 4.500×2.375	500 3.45	25 0.99	UL	FM
125×50 5×2	139.7×60.3 5.500×2.375	500 3.45	25 0.99	UL	FM
150×25 6×1	168.3×33.7 6.625×1.327	500 3.45	25 0.99	UL	FM
150×40 6×1 1/2	168.3×48.3 6.625×1.900	500 3.45	25 0.99		
150×50 6×2	168.3×60.3 6.625×2.375	500 3.45	25 0.99	UL	FM
200×50 8×2	219.1×60.3 8.625×2.375	500 3.45	30 1.81	UL	FM

XGQT13
Reducing Tee

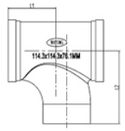




Nominal Size mm/in	Pipe O.D. mm/in D X d	Working Pressur	L1	L2	UL	FM
80×80×100 3×3×4	88.9×88.9×114.3 3.500×3.500×4.500	300 2.07	115 5.512	130 5.512	UL	FM
80×80×150 3×3×6	88.9×88.9×165.1 3.500×3.500×6.500	300 2.07	140 5.512	140 5.512	UL	FM
100×100×150 4×4×6	114.3×114.3×165.1 4.500×4.500×6.500	300 2.07	140 5.512	140 5.512	UL	FM

XGQT13R
Pitcher Tee

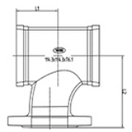




Nominal Size mm/in	Pipe O.D. mm/in D X d	Working Pressur	L1	L2	UL	FM
100×100×65 4×4×2½	114.3×114.3×76.1 4.500×4.500×2.996	300 2.07	96 3.779	134.5 5.295	UL	FM

XGQT13F
Pitcher Flange Tee

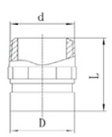




Nominal Size mm/in	Pipe O.D. mm/in D X d	Working Pressur	L1	L2	UL	FM
100×100×65 4×4×2½	114.3×114.3×76.1 4.500×4.500×2.996	300 2.07	91 3.583	136 5.315	UL	FM

36
Adapter Nipple

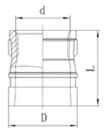




Nominal Size mm/in	Pipe O.D. mm/in Dxd	Working Pressure PSI/MPa	Dimensions L mm/in	UL	FM
40x40 1½x1½	48.3x48.3 1.900x1.900	500 3.45	63 2.48	UL	FM
50x50 2x2	60.3x60.3 2.375x2.375	500 3.45	63 2.48	UL	FM
65x65 2½x2½	73x76.1 2.875x3.000	500 3.45	102 4.02		

37
Reducing Adapter Nipple



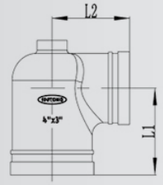


Nominal Size mm/in	Pipe O.D. mm/in Dxd	Working Pressure PSI/MPa	Dimensions L mm/in	UL	FM
40x25 1½x1	48.3x33.7 1.900x1.327	500 3.45	63 2.48	UL	FM
50x40 2x1½	60.3x48.3 2.375x1.900	500 3.45	63 2.48	UL	FM

The specific itmes list shall be subject to the public notice of FM and UL website.

XGQT21
Hydrant Elbow



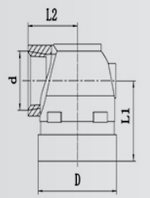


Nominal Size mm/in	Pipe O.D. mm/in D X d	Working Pressur	L1	L2	UL	FM
100×80 4×3	114.3×88.9 4.500×3.500	300 2.07	106 4.173	106 4.173	UL	FM
150×80 6×3	165.1×88.9 6.500×3.500	300 2.07	130.5 5.138	130.5 5.138		FM

The specific itmes list shall be subject to the public notice of FM and UL website.

22
Adapter Elbow



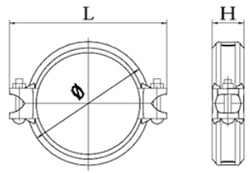


Nominal Size mm/in	Pipe O.D mm/in DXd	Working Pressure PSI/MPa	Dimensions L1 mm/in	Dimensions L2 mm/in	UL	FM
32×15 1¼×½	42.4×21.3 1.669×0.839	500 3.45	45 1.77	30.5 1.20	UL	FM
32×20 1¼×¾	42.4×26.9 1.669×1.059	500 3.45	45 1.77	30.5 1.20	UL	FM
32×25 1¼×1	42.4×33.7 1.669×1.327	500 3.45	48.5 1.91	31.5 1.24	UL	FM
40×15 1½×½	48.3×21.3 1.900×0.839	500 3.45	45 1.77	33.5 1.32	UL	FM
40×20 1½×¾	48.3×26.9 1.900×1.059	500 3.45	45 1.77	33.5 1.32	UL	FM
40×25 1½×1	48.3×33.7 1.900×1.327	500 3.45	48.5 1.91	35.5 1.32	UL	FM
50×15 2×½	60.3×21.3 2.375×0.839	500 3.45	44.5 1.75	40 1.57	UL	FM
50×20 2×¾	60.3×26.9 2.375×1.059	500 3.45	45 1.77	40 1.57	UL	FM
50×25 2×1	60.3×33.7 2.375×1.327	500 3.45	48.5 1.91	41.5 1.63	UL	FM
65×15 2½×½	73×21.3 2.87×0.839	500 3.45	44.5 1.75	44.5 1.75	UL	FM
65×20 2½×¾	73×26.9 2.87×1.059	500 3.45	44.5 1.75	44.5 1.75	UL	FM
65×25 2½×1	73×33.7 2.87×1.327	500 3.45	48.5 1.91	46 1.81	UL	FM

The specific itmes list shall be subject to the public notice of FM and UL website.

XGQT31X
Rigid Coupling



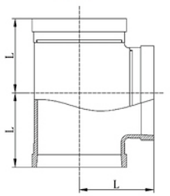


Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No.–Size mm	Dimensions L mm/in Φ	L	H	UL	FM
50 2	60.3 2.375	300 2.07	2–M10×55	82 3.228	123.5 4.862	43.5 1.713	UL	FM
65 2 1/2	73.0 2.857	300 2.07	2–M10×55	95 3.740	136 5.354	43.5 1.713	UL	FM
65 2 1/2	76.1 3.000	300 2.07	2–M10×55	98 3.858	139 5.472	43.5 1.713	UL	FM
80 3	88.9 3.500	300 2.07	2–M10×55	112 4.409	153 6.024	44 1.732	UL	FM
100 4	108.0 4.252	300 2.07	2–M10×60	131 5.157	176 6.929	47 1.850	UL	FM
100 4	114.3 4.500	300 2.07	2–M12×60	138 5.433	185 7.283	47 1.850	UL	FM
125 5	139.7 5.500	300 2.07	2–M12×65	164 6.457	213 8.386	47 1.850	UL	FM
150 6	159.0 6.260	300 2.07	2–M12×70	184 7.244	234 9.213	47.5 1.870	UL	FM
150 6	165.1 6.500	300 2.07	2–M12×70	190 7.480	240 9.449	47.5 1.870	UL	FM
150 6	168.3 6.625	300 2.07	2–M12×70	194 7.638	242 9.528	47.5 1.870	UL	FM
200 8	219.1 8.625	300 2.07	2–M16×85	250 9.843	315 12.402	56 2.205	UL	FM

100TONG Model XGQT31X is DuctileIron Grooved Rigid Couplings. XGQT31X is designed for use on schedule 10,schedule40,GB/T3091, ISO 4200 D,ISO 4200 E,ISO 4200 F,EN10217–1,EN 10220,EN 10220 E and T17395 pipe.Sizes of 91 from 50mm–200mm/2"–8". Pressure of XGQT31X conform to the list from UL and FM.

XGQT12X
Tee

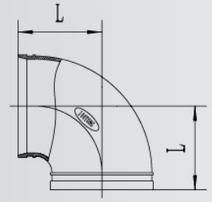




Size DN in	Pipe O.D. mm in	Working Pressure PSI MPa	Tee (Short) L mm in	UL	FM
65 2 1/2	73.0 2.857	300 2.07	70.5 2.776	UL	FM
65 2 1/2	76.1 3.000	300 2.07	70.5 2.776	UL	FM
80 3	88.9 3.500	300 2.07	78 3.071	UL	FM
100 4	108.0 4.252	300 2.07	94 3.701	UL	FM
100 4	114.3 4.500	300 2.07	90 3.543	UL	FM
125 5	139.7 5.500	300 2.07	105 4.134	UL	FM
150 6	159.0 6.260	300 2.07	117 4.606	UL	FM
150 6	165.1 6.500	300 2.07	119 4.685	UL	FM
150 6	168.3 6.625	300 2.07	119 4.685	UL	FM
200 8	219.1 8.625	300 2.07	157 6.181	UL	FM
250 10	273.0 10.750	300 2.07	191 7.520	UL	FM
300 12	323.9 12.75	300 2.07	220 8.661	UL	FM

XGQT06X
90° Elbow

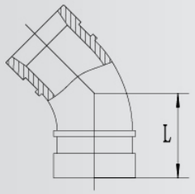




Size DN in	Pipe O.D. mm in	Working Pressure PSI MPa	L mm in	UL	FM
65 2 1/2	73.0 2.857	300 2.07	70.5 2.776	UL	FM
65 2 1/2	76.1 3.000	300 2.07	70.5 2.776	UL	FM
80 3	88.9 3.500	300 2.07	78 3.071	UL	FM
100 4	108.0 4.252	300 2.07	90 3.543	UL	FM
100 4	114.3 4.500	300 2.07	90 3.543	UL	FM
125 5	139.7 5.500	300 2.07	105 4.134	UL	FM
150 6	159.0 6.260	300 2.07	118 4.646	UL	FM
150 6	165.1 6.500	300 2.07	119 4.685	UL	FM
150 6	168.3 6.625	300 2.07	119 4.685	UL	FM
200 8	219.1 8.625	300 2.07	157 6.181	UL	FM
250 10	273.0 10.750	300 2.07	191 7.520	UL	FM
300 12	323.9 12.75	300 2.07	220 8.661	UL	FM

XGQT07X
45° Elbow



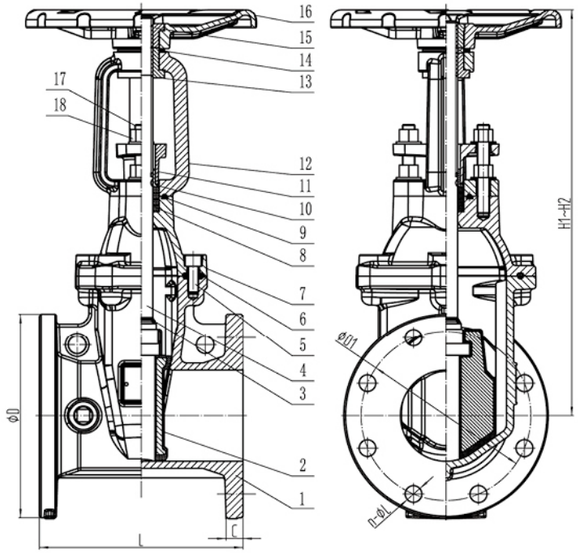


Size DN in	Pipe O.D. mm in	Working Pressure PSI MPa	L mm in	UL	FM
65 2 1/2	73.0 2.857	300 2.07	47 1.850	UL	FM
65 2 1/2	76.1 3.000	300 2.07	47 1.850	UL	FM
80 3	88.9 3.500	300 2.07	48 1.890	UL	FM
100 4	108.0 4.252	300 2.07	55 2.165	UL	FM
100 4	114.3 4.500	300 2.07	55 2.165	UL	FM
150 6	159.0 6.260	300 2.07	75 2.953	UL	FM
150 6	165.1 6.500	300 2.07	66 2.598	UL	FM
150 6	168.3 6.625	300 2.07	66 2.598	UL	FM
200 8	219.1 8.625	300 2.07	85 3.346	UL	FM
250 10	273.0 10.750	300 2.07	100 3.937	UL	FM

Z41X

Flanged Resilient OS&Y Gate Valve





PARAMETER/STANDARD

- Connection Ends：Flange to ASME B16.1 CL 125
- Working Pressure：300PSI
  200PSI and 250PSI available upon request
- Temperature Range：0~80℃
- Coating：Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIALS LIST

Index	Name	Material	Remark
1	Valve Body	ASTM A536 65–45–12	
2	Resilient Wedge Disc	ASTM A536 65–45–12+EPDM	
3	O–rings	EPDM	
4	Stem	Stainless Steel S42000	
5	Bolt	Carbon Steel Zinc Plated	
6	Bonnet Gasket	EPDM	
7	Bonnet	ASTM A536 65–45–12	
8	Packing	EPDM	
9	O–ring	EPDM	
10	Stem Bushing	Brass C83600	
11	Gland	ASTM A536 65–45–12	
12	Yoke	ASTM A536 65–45–12	
13	Stem Nut (Lower)	Bronze C95800	
14	Washer	Brass C83600	
15	Stem Nut (Upper)	Bronze C95800	
16	Handwheel	ASTM A536 65–45–12	
17	Stud	AISI 304	A2–70
18	Gland Nut	AISI 304	A2–70

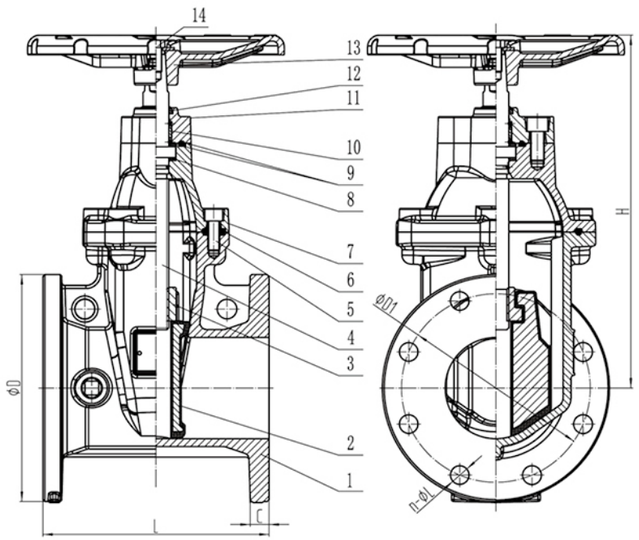
DIMENSION

DN		Dimensions(mm)					
mm	Inch	L	D	D1	C	H1~H2	n–ϕL
50	2"	178	150	121	16		4–ϕ19
65	2–1/2"	190	180	140	17.5	326~384	4–ϕ19
80	3"	203	190	152	19	390~475	4–ϕ19
100	4"	229	230	191	19	458~558	8–ϕ19
125	5"	254	255	216	19	580~717	8–ϕ22.2
150	6"	267	280	241	19	616~779	8–ϕ22.2
200	8"	292	345	299	22.2	780~990	8–ϕ22.2
250	10"	330	405	362	23.8	940~1190	12–ϕ25.4
300	12"	356	485	432	25.4	1073~1374	12–ϕ25.4

Z45X

Flanged Resiliend NRS Gate Valve





PARAMETER/STANDARD

- Connection Ends：Flange to ASME B16.1 CL 125
- Working Pressure：300PSI
  200PSI and 250PSI available upon request
- Temperature Range：0~80℃
- Coating：Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIALS LIST

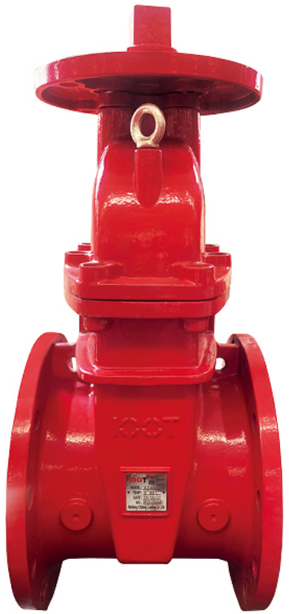
Index	Name	Material	Remark
1	Valve Body	ASTM A536 65–45–12	
2	Resililent Wedge Dise	ASTM A536 65–45–12+EPDM	
3	Stem Nut	Bronze C95800	
4	Stem	Stainless Steel S42000	
5	Bolt	Carbon Steel Zinc Plated	
6	Bonnet Gasket	EPDM	
7	Bonnet	ASTM A536 65–45–12	
8	Stem Washer	Brass C83600	
9	O–ring	EPDM	
10	Axis Guide	Brass C83600	
11	Gland	ASTM A536 65–45–12	
12	Ring Wiper	EPDM	
13	Handwheel	ASTM A536 65–45–12	
14	Bolt	Carbon Steel Zinc Plated	

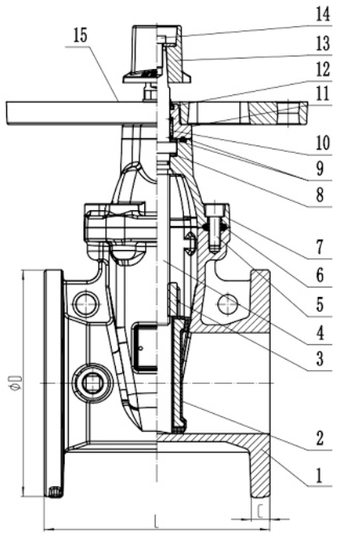
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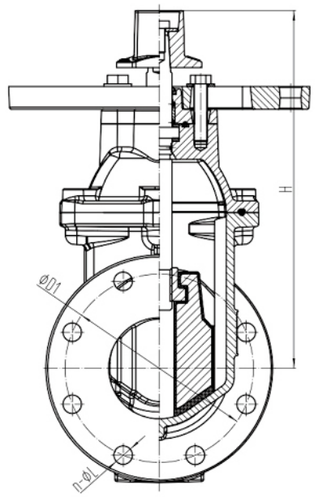
DN		Dimensions(mm)					
mm	Inch	L	D	D1	C	H	n–ϕL
50	2"	178	150	121	16	266	4–ϕ19
65	2–1/2"	190	180	140	17.5	294	4–ϕ19
80	3"	203	190	152	19	316	4–ϕ19
100	4"	229	230	191	19	358	8–ϕ19
125	5"	254	255	216	19	420	8–ϕ22.2
150	6"	267	280	241	19	456	8–ϕ22.2
200	8"	292	345	299	22.2	560	8–ϕ22.2
250	10"	330	405	362	23.8	654	12–ϕ25.4
300	12"	356	485	432	25.4	737	12–ϕ25.4

SZ45XC

Flanged Resiliend NRS Gate Valve With Post Flange







PARAMETER/STANDARD

FM APPROVED

c UL us

- Connection Ends：Flange to ASME B16.1 CL 125
- Working Pressure：300PSI
  200PSI and 250PSI available upon request
- Temperature Range：0~80℃
- Coating：Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIALS LIST

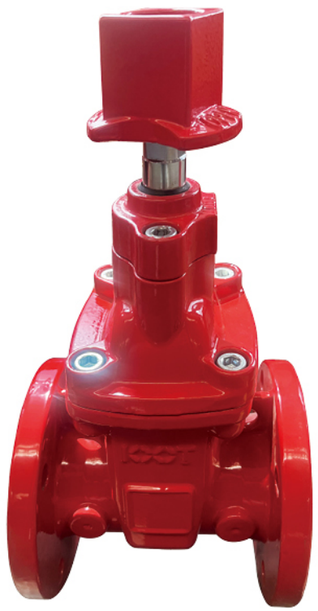
Index	Name	Material	Remark
1	Valve Body	ASTM A536 65-45-12	
2	Resililent Wedge Disc	ASTM A536 65-45-12+EPDM	
3	Stem Nut	Bronze C95800	
4	Stem	Stainless Steel S42000	
5	Bolt	Carbon Steel Zinc Plated	
6	Bonnet Gasket	EPDM	
7	Bonnet	ASTM A536 65-45-12	
8	Stem Washer	Brass C83600	
9	O-ring	EPDM	
10	Axis Guide	Brass C83600	
11	Gland	ASTM A536 65-45-12	
12	Ring Wiper	EPDM	
13	Square Operating Nut	ASTM A536 65-45-12	
14	Bolt	Carbon Steel Zinc Plated	
15	Flat Washer	ASTM A536 65-45-12	

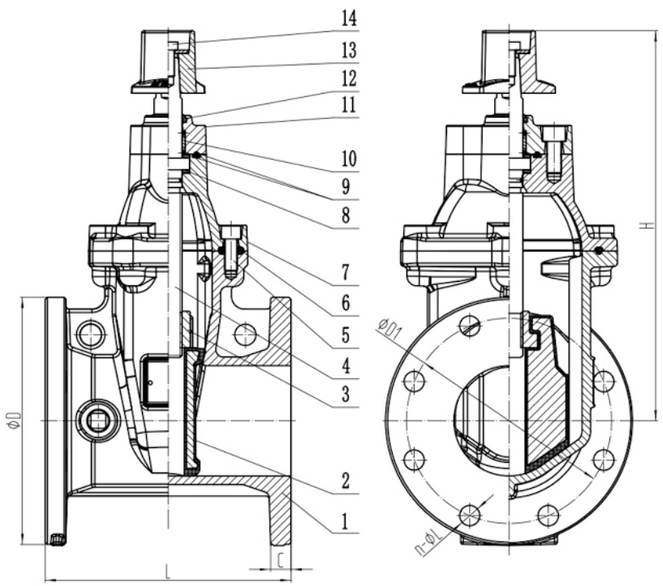
DIMENSION

DN		Dimensions(mm)					
mm	Inch	L	D	D1	C	H	n-ϕL
100	4"	229	230	191	19	363	8-ϕ19
125	5"	254	255	216	19	422	8-ϕ22.2
150	6"	267	280	241	19	458	8-ϕ22.2
200	8"	292	345	299	22.2	559	8-ϕ22.2
250	10"	330	405	362	23.8	650	12-ϕ25.4
300	12"	356	485	432	25.4	733	12-ϕ25.4

SZ45X

Flanged Resilient NRS Gate Valve





PARAMETER/STANDARD

- Connection Ends：Flange to ASME B16.1 CL 125
- Working Pressure：300PSI
  200PSI and 250PSI available upon request
- Temperature Range：0~80℃
- Coating：Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIALS LIST

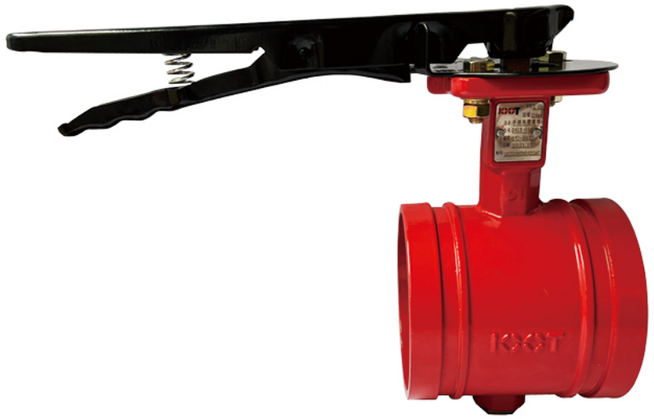
Index	Name	Material	Remark
1	Valve Body	ASTM A536 65-45-12	
2	Resililent Wedge Disc	ASTM A536 65-45-12+EPDM	
3	Stem Nut	Bronze C95800	
4	Stem	Stainless Steel S42000	
5	Bolt	Carbon Steel Zinc Plated	
6	Bonnet Gasket	EPDM	
7	Bonnet	ASTM A536 65-45-12	
8	Stem Washer	Brass C83600	
9	O-ring	EPDM	
10	Axis Guide	Brass C83600	
11	Gland	ASTM A536 65-45-12	
12	Ring Wiper	EPDM	
13	Stem Cap	ASTM A536 65-45-12	
14	Bolt	ASTM A307B	

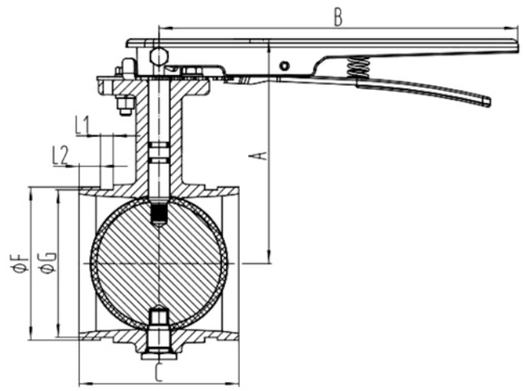
DIMENSION

DN		Dimensions(mm)					
mm	Inch	L	D	D1	C	H	n-ϕL
50	2"	178	150	121	16	274	4-ϕ19
65	2-1/2"	190	180	140	17.5	302	4-ϕ19
80	3"	203	190	152	19	324	4-ϕ19
100	4"	229	230	191	19	363	8-ϕ19
125	5"	254	255	216	19	422	8-ϕ22.2
150	6"	267	280	241	19	458	8-ϕ22.2
200	8"	292	345	299	22.2	559	8-ϕ22.2
250	10"	330	405	362	23.8	650	12-ϕ25.4
300	12"	356	485	432	25.4	733	12-ϕ25.4

D81X

Grooved Butterfly Valve





PARAMETER/STANDARD

- Design Standard：MSS SP-67
- Connection Ends：Groove to AWWA C606
- Working Pressure：363PSI,175PSI,200PSI,250PSI and 300PSI available upon request
- Temperature Range：0~80℃
- Coating：Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIALS LIST

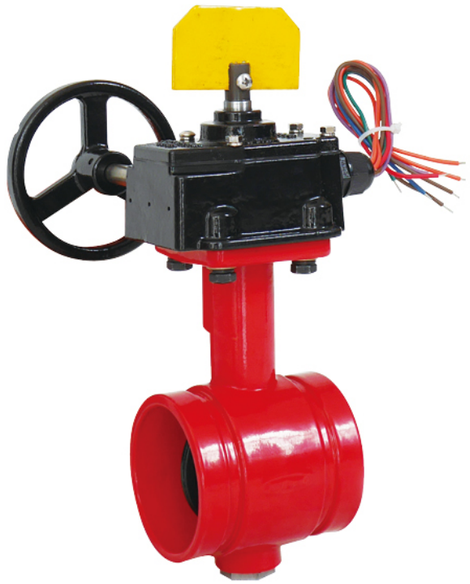
Index	Name	Material	Remark
1	Valve Body	QT450	
2	Bottom Shaft	SS420	
3	Bushing	C83600	
4	Valve Plate	QT450+EPDM	
5	Stem	SS420	
6	Bushing	C83600	
7	O-ring	EPDM/NBR	
8	Bolt	Steel	
9	Handle	Steel	

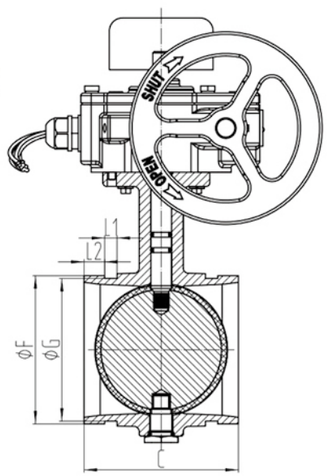
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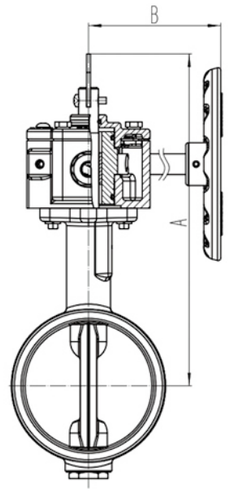
DN		Dimensions(mm)						
mm	inch	A	B	C	F	G	L1	L2
50	2"	143	220	81	60.3	57.15	7.93	15.88
65	2-1/2"	150	220	97	73	69.09	7.93	15.88
76OD	3OD	150	220	97	76.1	72.26	7.93	15.88
80	3"	156	260	97	88.9	84.94	7.93	15.88
108OD	4-1/4OD	164	260	116	108	103.73	9.53	15.88
100	4"	167	260	116	114.3	110.08	9.53	15.88
133OD	5-1/4OD	177	260	147.5	133	129.13	9.53	15.88
140OD	5-1/2OD	181	260	147.5	139.7	135.48	9.53	15.88
125	5"	181	260	147.5	141.3	137.03	9.53	15.88
159OD	6-1/4OD	190	260	147.5	159	154.5	9.53	15.88
165OD	6-1/2OD	193	260	147.5	165.1	160.9	9.53	15.88
150	6"	193	260	147.5	168.3	163.96	9.53	15.88
216OD	#	240	360	134	216.3	211.61	11.1	19.05
200	8"	240	360	134	219.1	214.4	11.1	19.05

XD381X

Grooved Butterfly Vavle with Tamper Switch







REFERENCE/STANDARD

- Design Standard：MSS SP-67
- Connection Ends：Groove to AWWA C606
- Working Pressure：363PSI,175PSI,200PSI,250PSI and 300PSI available upon request
- Temperature Range：0℃ ~80℃
- Coating：Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

Product Overview:

The signal butterfly valve developed by our company is a midline sealing structure, with easy 90° rotary switch, reliable sealing and long service life, which is widely used in water supply and drainage, building fire fighting and other system pipelines.It can be used as regulating and throttling equipment on a variety of noncorrosive gases, liquids, semi-fluids, and solid powder lines and containers.

MATERIALS LIST

Index	Name	Material	Remark
1	Valve Body	QT450	
2	Bottom Shaft	SS420	
3	Bushing	C83600	
4	Valve Plate	QT450+EPDM	
5	Stem	SS420	
6	Bushing	C83600	
7	O-ring	EPDM/NBR	
8	Bolt	Steel	
9	Driving Head	QT450	

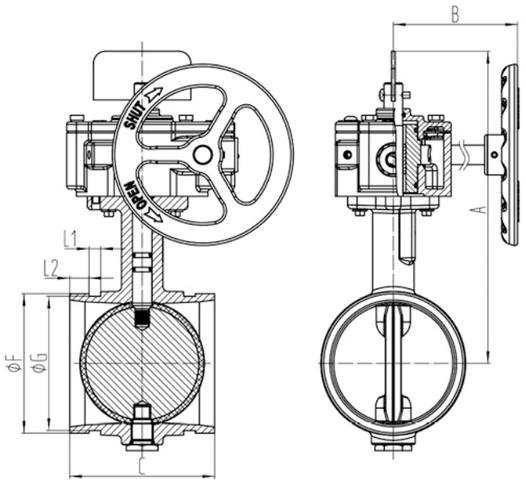
DIMENSION

DN		Dimensions(mm)						
mm	inch	A	B	C	F	G	L1	L2
50	2"	227	125	81	60.3	57.15	7.93	15.88
65	2-1/2"	233	125	97	73	69.09	7.93	15.88
76OD	3OD	233	125	97	76.1	72.26	7.93	15.88
80	3"	238	125	97	88.9	84.94	7.93	15.88
108OD	4-1/4OD	252	166	116	108	103.73	9.53	15.88
100	4"	255	166	116	114.3	110.08	9.53	15.88
133OD	5-1/4OD	266	166	147.5	133	129.13	9.53	15.88
140OD	5-1/2OD	270	166	147.5	139.7	135.48	9.53	15.88
125	5"	270	166	147.5	141.3	137.03	9.53	15.88
159OD	6-1/4OD	278	166	147. 5	159	154.5	9.53	15.88
165OD	6-1/2OD	281	166	147.5	165.1	160.9	9.53	15.88
150	6"	281	166	147. 5	168.3	163.96	9.53	15.88
216OD	#	329	240	134	216.3	211.61	11.1	19.05
200	8"	329	240	134	219.1	214.4	11.1	19.05
267OD	#	378	240	159	267.4	262.6	12. 7	19.05
250	10"	381	240	159	273	268.28	12.7	19.05
318OD	#	401	240	165	318.5	312.9	12.7	19.05
300	12"	404	240	165	323.9	318.29	12.7	19.05

D381X

Grooved Butterfly Valve with Worm Gear





PARAMETER/STANDARD

- Design Standard：MSS SP-67
- Connection Ends：Groove to AWWA C606
- Working Pressure：363PSI,175PSI,200PSI,250PSI and 300PSI available upon request
- Temperature Range：0~80℃
- Coating：Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

MATERIALS LIST

Index	Name	Material	Remark
1	Valve Body	QT450	
2	Bottom Shaft	SS420	
3	Bushing	C83600	
4	Valve Plate	QT450+EPDM	
5	Stem	SS420	
6	Bushing	C83600	
7	O-ring	EPDM/NBR	
8	Bolt	Steel	
9	Driving head	QT450	

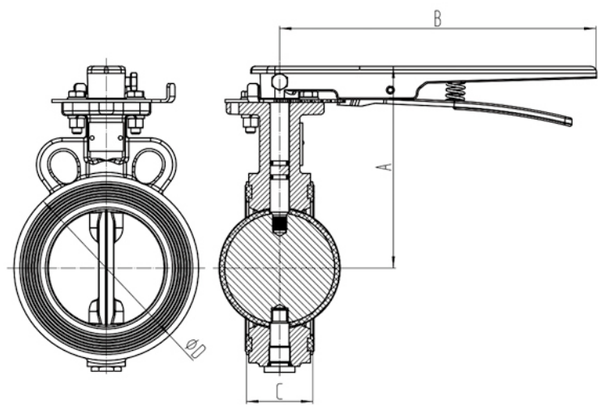
DIMENSION

DN		Dimensions(mm)						
mm	inch	A	B	C	F	G	L1	L2
50	2"	227	125	81	60.3	57.15	7.93	15.88
65	2-1/2"	233	125	97	73	69.09	7.93	15.88
76OD	30D	233	125	97	76.1	72.26	7.93	15.88
80	3"	238	125	97	88.9	84.94	7.93	15.88
108OD	4-1/4OD	252	166	116	108	103.73	9.53	15.88
100	4"	255	166	116	114.3	110.08	9.53	15.88
133OD	5-1/4OD	266	166	147.5	133	129.13	9.53	15.88
140OD	5-1/2OD	270	166	147.5	139.7	135.48	9.53	15.88
125	5"	270	166	147.5	141.3	137.03	9.53	15.88
159OD	6-1/4OD	278	166	147. 5	159	154.5	9.53	15.88
165OD	6-1/2OD	281	166	147.5	165.1	160.9	9.53	15.88
150	6"	281	166	147.5	168.3	163.96	9.53	15.88
216OD	#	329	240	134	216.3	211.61	11.1	19.05
200	8"	329	240	134	219.1	214.4	11.1	19.05
267OD	#	378	240	159	267.4	262.6	12. 7	19.05
250	10"	381	240	159	273	268.28	12.7	19.05
318OD	#	401	240	165	318.5	312.9	12.7	19.05
300	12"	404	240	165	323.9	318.29	12.7	19.05

D71X

Wafer Butterfly Valve





PARAMETER/STANDARD

- Design Standard：MSS SP-67
- Top Flange Standard：ISO 5211
- Working Pressure: 365PSI,300PSI,175PSI,200PSI and 250PSI available upon request
- Temperature Range：0℃ ~80℃
- Coating：Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550
- Flange specification：ASME B16.42 CL150

MATERIALS LIST

Index	Name	Material	Remark
1	Valve Body	QT450	
2	Bottom Shaft	SS420	
3	Bushing	C83600	
4	Valve Plate	QT450+EPDM	
5	Stem	SS420	
6	Bushing	C83600	
7	O-ring	EPDM/NBR	
8	Bolt	Steel	
9	Handle	Steel	

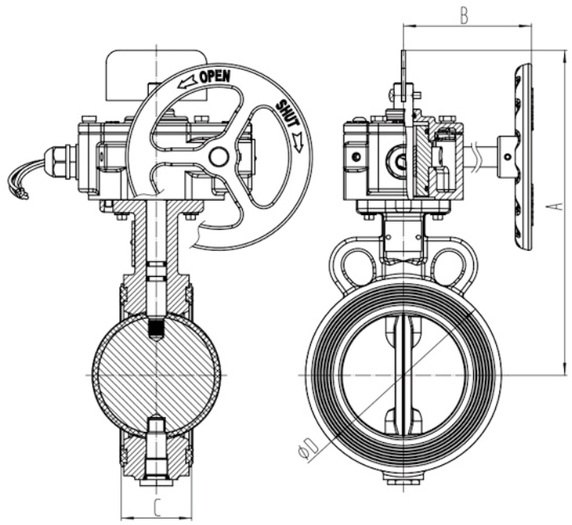
DIMENSION

DN		Dimensions(mm)			
mm	inch	A	B	C	D
50	2"	143	220	43	98
65	2-1/2"	150	220	46	114
80	3"	156	260	46	128
100	4"	127	260	52	156
125	5"	188	260	56	182
150	6"	200	260	56	210
200	8"	247	360	60.5	270

XD371X

Wafer Butterfly Valve with Tapmer Switch





REFERENCE/STANDARD

FM APPROVED

c UL us

- Design Standard：MSS SP-67
- Top Flange Standard：ISO 5211
- Working Pressure: 365PSI,300PSI,175PSI,200PSI and 250PSI available upon request
- Temperature Range：0℃ ~80℃
- Coating：Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550
- Flange specification：ASME B16.42 CL150

Product Overview:

The signal butterfly valve developed by our company is a midline sealing structure, with easy 90° rotary switch, reliable sealing and long service life, which is widely used in water supply and drainage, building fire fighting and other system pipelines.It can be used as regulating and throttling equipment on a variety of noncorrosive gases, liquids, semi-fluids, and solid powder lines and containers.

MATERIALS LIST

Index	Name	Material	Remark
1	Valve Body	QT450	
2	Bottom Shaft	SS420	
3	Bushing	C83600	
4	Valve Plate	QT450+EPDM	
5	Stem	SS420	
6	Bushing	C83600	
7	O-ring	EPDM/NBR	
8	Bolt	Steel	
9	Driving Head	QT450	

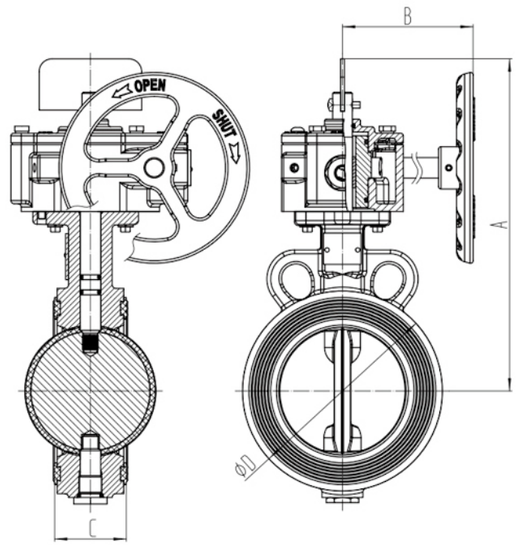
DIMENSION

DN		Dimensions(mm)			
mm	inch	A	B	C	D
50	2"	227	125	43	98
65	2-1/2"	233	125	46	114
80	3"	238	125	46	128
100	4"	255	166	52	156
125	5"	277	166	56	182
150	6"	288	166	56	210
200	8"	336	240	60.5	270
250	10"	381	240	68	320
300	12"	404	240	78	371

D371X

Wafer Butterfly Valve with Worm Gear





REFERENCE/STANDARD

- Design Standard：MSS SP-67
- Top Flange Standard：ISO 5211
- Working Pressure: 365PSI,300PSI,175PSI,200PSI and 250PSI available upon request
- Temperature Range：0℃ ~80℃
- Coating：Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550
- Flange specification：ASME B16.42 CL150

MATERIALS LIST

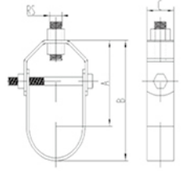
Index	Name	Material	Remark
1	Valve Body	QT450	
2	Bottom Shaft	SS420	
3	Bushing	C83600	
4	Valve Plate	QT450+EPDM	
5	Stem	SS420	
6	Bushing	C83600	
7	O-ring	EPDM/NBR	
8	Bolt	Steel	
9	Driving Head	QT450	

DIMENSION

DN		Dimensions(mm)			
mm	inch	A	B	C	D
50	2"	227	125	43	98
65	2-1/2"	233	125	46	114
80	3"	238	125	46	128
100	4"	255	166	52	156
125	5"	277	166	56	182
150	6"	288	166	56	210
200	8"	336	240	60.5	270
250	10"	381	240	68	320
300	12"	404	240	78	371

CH01
Clevis hanger





part	Nominal Pipe Size		Pipe O.D		RS		A		B		C		Max.Rec		UL	FM
Number	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	lbs	N		
CH01-21	1/2	DN15	0.838	21.3	3/8	M10	$1^{5}/_{8}$	41	$2^{1}/_{8}$	55	$^{7}/_{8}$	22	610	2710	UL	
CH01-26	3/4	DN20	1.051	26.7			$1^{3}/_{4}$	44	$2^{3}/_{8}$	60					UL	FM
CH01-33	1	DN25	1.327	33.7			2	50	$2^{3}/_{4}$	70			730	3240	UL	FM
CH01-42	$1^{1}/_{4}$	DN32	1.669	42.4			$2^{3}/_{8}$	61	$3^{5}/_{16}$	85					UL	FM
CH01-48	$1^{1}/_{2}$	DN40	1.900	48.3			$2^{7}/_{8}$	73	$3^{15}/_{16}$	100					UL	FM
CH01-60	2	DN50	2.245	60.3			$3^{1}/_{4}$	82	$4^{1}/_{2}$	115					UL	FM
CH01-73	$2^{1}/_{2}$	DN65	2.375	73	1/2	M12	$3^{3}/_{4}$	95	$5^{1}/_{3}$	135	$1^{3}/_{16}$	30	1350	6000	UL	FM
CH01-89	3	DN80	3.000	88.9			$4^{1}/_{8}$	105	$6^{1}/_{8}$	155					UL	FM
CH01-114	4	DN100	4.500	114.3	5/8	M16	$5^{1}/_{2}$	140	$7^{7}/_{8}$	200			1430	6360	UL	FM
CH01-141	5	DN125	5.563	141.3			$6^{7}/_{8}$	175	10	250	$1^{9}/_{16}$	40			UL	FM
CH01-168	6	DN150	6.625	168.3	3/4	M20	$7^{1}/_{2}$	190	11	280			1940	8630	UL	FM
CH01-219	8	DN200	8.625	219.1			$8^{1}/_{2}$	215	13	330	2	50	2000	8890	UL	FM
CH01-273	10	DN250	10.748	273			10	255	$15^{3}/_{4}$	400			3600	16000	UL	FM
CH01-324	12	DN300	12.752	323.9			$11^{3}/_{4}$	300	$18^{1}/_{2}$	470			3800	16900	UL	FM

Size Range: $^{1}/_{2}$" through 12"
Material: Carbon steel
Finish: Galvanized. Other finish available upon
Service: Recommended for the suspension of stationary pipe lines.
Approvals: Complies with Federal Specification A-A-1192A (Type 1), WW-H-171-E (Type 1), and MSS SP-58 (Type 1).
Ordering: Specify pipe size, figure number and name.

RH01
Ring hanger



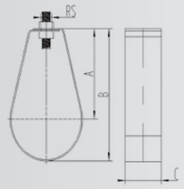


part	Nominal Pipe Size		Pipe O.D		RS		A		B		C		Max.Rec		UL	FM
Number	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	lbs	N		
RH01-21	1/2	DN15	0.838	21.3	3/8	M10	$1^{1}/_{2}$	40	$2^{3}/_{4}$	70	5/8	16	500	2220	UL	
RH01-26	3/4	DN20	1.051	26.7			$1^{3}/_{4}$	45	$3^{1}/_{16}$	78					UL	FM
RH01-33	1	DN25	1.327	33.7			$1^{7}/_{8}$	48	$3^{5}/_{16}$	84					UL	FM
RH01-42	$1^{1}/_{4}$	DN32	1.669	42.4			2	50	$3^{9}/_{16}$	90					UL	FM
RH01-48	$1^{1}/_{2}$	DN40	1.900	48.3			$2^{3}/_{16}$	55	$3^{7}/_{8}$	98					UL	FM
RH01-60	2	DN50	2.245	60.3			$2^{3}/_{8}$	60	$4^{1}/_{4}$	109					UL	FM
RH01-73	$2^{1}/_{2}$	DN65	2.375	73			$3^{1}/_{16}$	78	$5^{3}/_{16}$	132	13/16	20	1000	4440	UL	FM
RH01-89	3	DN80	3.000	88.9			$3^{1}/_{4}$	82	$5^{11}/_{16}$	145					UL	FM
RH01-114	4	DN100	4.500	114.3			4	100	$6^{7}/_{8}$	175					UL	FM
RH01-141	5	DN125	5.563	141.3	1/2	M12	$4^{5}/_{8}$	116	$8^{1}/_{4}$	210			1900	8450	UL	FM
RH01-168	6	DN150	6.625	168.3			$5^{5}/_{16}$	135	$9^{5}/_{8}$	245					UL	FM
RH01-219	8	DN200	8.625	219.1			$7^{1}/_{4}$	183	$12^{3}/_{8}$	315					UL	FM

Size Range: $^{1}/_{2}$" through 8"
Material: Carbon steel
Finish: Galvanized. Other finish available upon request
Service: Recommended for suspension of non-insulated stationary pipe line.Manufactured to use the min. rod size permitted by NFPA for fire sprinkler pipe line
Approvals: Complies with Federal Specification A-A-1192A (Type 10), WW-H-171-E (Type 10),and MSS SP-69 (Type 10).
Ordering: Specify part number

PH01
Pear Hanger





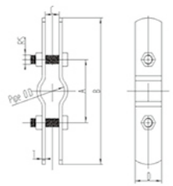
part	Nominal Pipe Size		Pipe O.D		RS		A		B		C		Max.Rec		UL	FM
Number	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	lbs	N		
PH01-21	1/2	DN15	0.838	21.3	3/8	M10	$2^{1}/_{2}$	64	$3^{1}/_{16}$	77	1	25	500	2220	UL	
PH01-26	3/4	DN20	1.051	26.7			$2^{1}/_{2}$	64	$3^{1}/_{8}$	80					UL	FM
PH01-33	1	DN25	1.327	33.7			$2^{3}/_{4}$	70	$3^{9}/_{16}$	90					UL	FM
PH01-42	$1^{1}/_{4}$	DN32	1.669	42.4			$2^{7}/_{8}$	73	$3^{13}/_{16}$	97					UL	FM
PH01-48	$1^{1}/_{2}$	DN40	1.900	48.3			$2^{15}/_{16}$	75	4	101.5					UL	FM
PH01-60	2	DN50	2.245	60.3			$3^{1}/_{8}$	80	$4^{1}/_{2}$	112.5					UL	FM
PH01-73	$2^{1}/_{2}$	DN65	2.375	73	1/2	M12	$3^{9}/_{16}$	91	$5^{1}/_{8}$	130	$1^{1}/_{4}$	32	1000	4400	UL	FM
PH01-89	3	DN80	3.000	88.9			$4^{1}/_{8}$	105	6	152					UL	FM
PH01-114	4	DN100	4.500	114.3			$4^{1}/_{2}$	115	$6^{7}/_{8}$	175					UL	FM
PH01-141	5	DN125	5.563	141.3			$6^{7}/_{8}$	175	$9^{7}/_{8}$	249					UL	FM
PH01-168	6	DN150	6.625	168.3	5/8	M16	$8^{3}/_{4}$	222	$12^{1}/_{4}$	310	$1^{1}/_{2}$	40	1260	5544	UL	FM
PH01-219	8	DN200	8.625	219.1			$9^{13}/_{16}$	250	$14^{1}/_{4}$	363					UL	FM

Size Range: $^{1}/_{2}$" through 8"
Material: Carbon steel
Finish: Galvanized. Other finish available upon request
Service: Recommended for suspension of non-insulated stationary pipe line.Manufactured to use the min. rod size permitted by NFPA for fire sprinkler pipe line.
Approvals: Complies with Federal Specification A-A-1192A (Type 10), WW-H-171-E (Type 10),and MSS SP-69 (Type 10).
Ordering: Specify part number

RC01

Extension Pipe or Riser Clamp





part	Nominal Pipe Size		Pipe O.D		RS		A		B		C		C		Max.Rec		FM
Number	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	lbs	N	
RC01-21	1/2	DN15	0.838	21.3	3/8	M10	3 1/8	80	8 7/8	225	1/2	12	1	25	500	2220	
RC01-26	3/4	DN20	1.051	26.7			3 1/8	80	8 7/8	225							FM
RC01-33	1	DN25	1.327	33.7			3 1/8	80	8 7/8	225							FM
RC01-42	1 1/4	DN32	1.669	42.4			4 3/8	110	10	255							FM
RC01-48	1 1/2	DN40	1.900	48.3			4 1/2	115	10 1/4	260							FM
RC01-60	2	DN50	2.245	60.3	1/2	M12	4 3/8	110	10 1/4	260							FM
RC01-73	2 1/2	DN65	2.375	73			5 3/8	135	11 1/4	285							FM
RC01-89	3	DN80	3.000	88.9			5 1/2	140	11 3/8	290	5/8	16					FM
RC01-114	4	DN100	4.500	114.3			7 1/8	180	13	330							FM
RC01-141	5	DN125	5.563	141.3			8 1/16	205	13 3/4	350			1 9/16	40	1000	4400	FM
RC01-168	6	DN150	6.625	168.3			9 1/16	230	14 3/4	375							FM
RC01-219	8	DN200	8.625	219.1			12	305	18 1/2	470	3/4	18					FM
RC01-273	10	DN250	10.75	273	5/8	M16	14 9/16	370	20 1/4	515			2	50	1260	5544	FM
RC01-324	12	DN300	12.75	323.9			16 3/8	415	22 7/8	580							FM

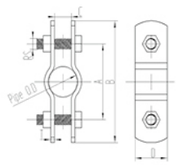
Size Range: 1/2" through 12"
Material: Carbon steel
Finish: Plain, Hot-Dip Galvanized with Zinc Plated Bolts & Nuts,Epoxy Coated or Painted.This product is not
Service: intended for use with hanger rods.
Approvals: Complies with Federal Specification A-A-1192A (Type 10), WW-H-171-E (Type 10),and MSS SP-69 (Type 10).
Ordering: Specify part number

FM APPROVED

PC01

Medium Pipe Clamp





part	Nominal Pipe Size		Pipe O.D		RS		A		B		C		C		Max.Rec		UL	FM
Number	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	lbs	N		
PC01-21	1/2	DN15	0.838	21.3	3/8	M10	2 1/4	56	3 3/8	86	1/2	12	1	25	500	2220	UL	
PC01-26	3/4	DN20	1.051	26.7			2 1/2	65	3 3/4	95							UL	FM
PC01-33	1	DN25	1.327	33.7			2 3/4	70	4	100							UL	FM
PC01-42	1 1/4	DN32	1.669	42.4			3 1/8	80	4 5/16	110							UL	FM
PC01-48	1 1/2	DN40	1.900	48.3			3 1/2	90	4 3/4	120							UL	FM
PC01-60	2	DN50	2.245	60.3	1/2	M12	4 1/8	105	5 1/2	140							UL	FM
PC01-73	2 1/2	DN65	2.375	73			5 5/16	135	6 3/4	170							UL	FM
PC01-89	3	DN80	3.000	88.9			5 11/16	145	7 1/8	180							UL	FM
PC01-114	4	DN100	4.500	114.3			7 1/8	180	8 1/2	215	5/8	16			1000	4400	UL	FM
PC01-141	5	DN125	5.563	141.3			8 1/4	210	9 7/8	250			1 9/16	40			UL	FM
PC01-168	6	DN150	6.625	168.3			9 7/8	250	11 1/2	290							UL	FM
PC01-219	8	DN200	8.625	219.1			12	305	13 3/4	350	3/4	18			1260	5544	UL	FM
PC01-273	10	DN250	10.75	273	5/8	M16	14 3/8	365	17 1/8	435			2	50			UL	FM
PC01-324	12	DN300	12.75	323.9			16 3/8	415	19 1/8	485							UL	FM

Size Range: 1/2" through 12"
Material: Carbon steel
Finish: Plain, Hot-Dip Galvanized with Zinc Plated Bolts & Nuts,Epoxy Coated or Painted.This product is not
Service: intended for use with hanger rods.
Approvals: Complies with Federal Specification A-A-1192A (Type 10), WW-H-171-E (Type 10),and MSS SP-69 (Type 10).
Ordering: Specify part number

FM APPROVED
c UL us

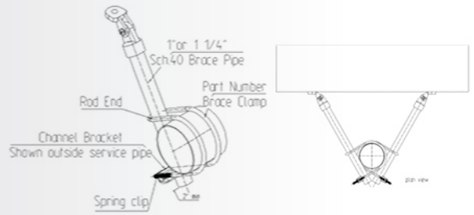
QBC01

Q Brace Clamp



Service Pipe Size	Installation Torque	1" Brace Pipe Weight
1	14	0.82
1 1/4		0.86
1 1/2		0.90
2	16	0.96
2 1/2		1.02
3		1.09
4	17	1.23
5		1.32
6	20	1.49

Size Range: 1" through 6"
Material: Carbon steel
Finish: Galvanized. Other finish available upon request
Service: Designed to rigidly brace and restrain piping systems subjected to lateral seismic loads. May also be installed to brace piping systems subjected to vertical seismic loads. For vertical load capacities.
Ordering: Specify service pipe size, brace pipe size, figure number, finish and description.



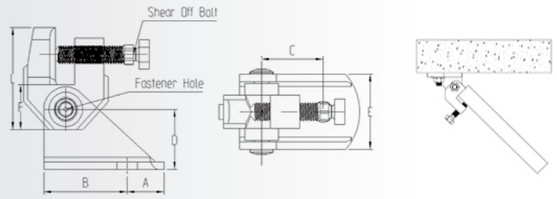
SBSA01

Sway Brace Swivel Attachment

Mounting Bolt	A		B		C		D		E		L	
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
1/2	1	25	2 1/4	57	1 5/8	42	1 3/8	35	2	50	2 11/16	68

Material: Ductile Iron Jaw with Carbon Steel Baseplate and Hardware
Finish: Galvanized. Other finish available upon request
Service: A seismic swivel attachment designed to connect brace pipe to the building structure or to a seismic structural attachment. The Sway Brace Swivel Attachment rigidly braces piping systems subjected to lateral seismic loads.
Ordering: Specify figure number, finish and description.





TC01

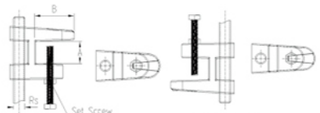
Universal C type Clamp



part Number	Rs In.	A In.	B In.	set Screw In.	Max.Rec(lbs) TOP	Max.Rec(lbs) BOTTOM	UL	FM
TC01–100	3/8	3/4	$1^{1}/_{8}$	3/8	500	250	UL	FM
TC01–120	1/2	3/4	$1^{1}/_{4}$	1/2	950	760	UL	FM
TC01–160	5/8	$1^{3}/_{8}$	$1^{1}/_{4}$	1/2	1300	1080		
CH01–200	3/4	$1^{3}/_{8}$	$1^{1}/_{4}$	1/2	1300	1080		

part Number	Rs mm	A mm	B mm	set Screw mm	Max.Rec(N) TOP	Max.Rec(N) BOTTOM		
TC01–M10	M10	20	29	M10	2220	1110	UL	FM
TC01–M12	M12	20	32	M12	4220	3380	UL	FM
TC01–M16	M16	34	32	M12	5800	4800		
TC01–M20	M20	34	32	M12	5800	4800		

Size Range: 3/8"、1⁄2"、5/8"and3/4"or M10、M12、M16andM20
Material: Ductile iron clamp, hardened steel cup point set screw and lock nut
Finish: Black or Galvanized
Service: Structural attachment to top or bottom of metal beams,purlins,channel or angel iron
Approvals: Complies with Federal Specification A-A-1192A (Type 1), WW-H-171-E (Type 1),and MSS SP-58 (Type 1).
Ordering: Specify part number&finish.



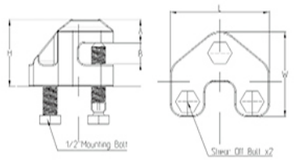
USBA01

Beam Adaptor



Mounting Bolt	L In.	L mm	W In.	W mm	H In.	H mm	A In.	A mm	B In.	B mm
1⁄2	$3^{1}/_{8}$	80	$2^{8}/_{8}$	68	$2^{1}/_{6}$	54	3⁄4	19	$^{11}/_{16}$	17

Service: A seismic structural attachment designed to attach to steel I-beams, flanges, and joists. The Universal Structural Brace Attachment rigidly braces piping systems subjected to horizontal seismic loads. The Universal Structural Brace Attachment may also be installed to rigidly brace piping systems subjected to vertical seismic loads. For vertical load capacities.
Ordering: Specify figure number, finish, and description.



HS01

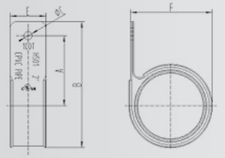
One Hole Pipe Strap



HS01:DIMENSIONS (IN) · WEIGHT (LBS)

CPVC Pipe Size	A In.	B In.	ΦC In.	E In.	F In.	Max. Hanger Spacing(FT.)	Approx Weight/100(1bs)	UL
3/4	$1^{9}/_{16}$	$2^{5}/_{8}$	1/4	$1^{1}/_{8}$	$1^{1}/_{4}$	$5^{1}/_{2}$	8	UL
1	$1^{3}/_{4}$	$2^{15}/_{16}$			$1^{1}/_{2}$	6	9	UL
$1^{1}/_{4}$	$1^{13}/_{16}$	$3^{3}/_{16}$			$1^{7}/_{8}$	$6^{1}/_{2}$	10	UL
$1^{1}/_{2}$	2	$3^{9}/_{16}$			$2^{1}/_{8}$	7	12	UL
2	$2^{3}/_{16}$	4			$2^{5}/_{8}$	8	14	UL

Size Range: 3/4" through 2"
Material: Carbon steel
Finish: Zinc Plated Steel (Hot-Dip Galvanized optional)
Service: Hanger for CPVC pipe in the horizontal position on the side of structural wood beams.
It can also be used as a guide to limit movement of vertical CPVC pipe with the tab in the horizontal position.
Approvals: UL and ULC Listed.
Ordering: Specify part number



HS02

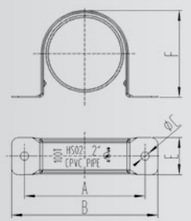
Two Hole Pipe Strap



HS02:DIMENSIONS (IN) · WEIGHT (LBS)

CPVC Pipe Size	A In.	B In.	ΦC In.	E In.	F In.	Max. Hanger Spacing(FT.)	Approx Weight/100(1bs)	UL
3/4	$2^{3}/_{16}$	$2^{15}/_{16}$	1/4	$1^{1}/_{8}$	$1^{1}/_{4}$	$5^{1}/_{2}$	5	UL
1	$2^{7}/_{16}$	$3^{7}/_{32}$			$1^{1}/_{2}$	6	6	UL
$1^{1}/_{4}$	$2^{13}/_{16}$	$3^{9}/_{16}$			$1^{13}/_{16}$	$6^{1}/_{2}$	7	UL
$1^{1}/_{2}$	3	$3^{13}/_{16}$			$2^{1}/_{8}$	7	8	UL
2	$3^{1}/_{2}$	$4^{9}/_{32}$			$2^{9}/_{16}$	8	9	UL

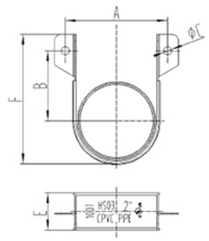
Size Range: 3/4" through 2"
Material: Carbon steel
Finish: Zinc Plated Steel (Hot-Dip Galvanized optional)
Service: Hanger for CPVC pipe in the horizontal position on the bottom and side of structural wood beams, composite beams . It can also be used as a guide to limit movement for pipe in the vertical position. When used on composite wood beams, web thickness must be 3/8" or greater.
Approvals: UL and ULC Listed.
Ordering: Specify part number



HS03

Two Hole 90° Side Mount Strap





HS03:DIMENSIONS (IN) · WEIGHT (LBS)

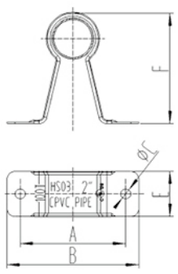
CPVC Pipe Size	A In.	B In.	ΦC In.	E In.	F In.	Max. Hanger Spacing(FT.)	Approx Weight/100(1bs)	UL
3/4	1 25/32	1 1/2	1/4	1 1/8	2 5/8	5 1/2	5	UL
1	2 1/16	1 5/8			2 7/8	6	6	UL
1 1/4	2 13/32	1 3/4			3 1/4	6 1/2	7	UL
1 1/2	2 21/32	1 7/8			3 1/2	7	8	UL
2	3 1/8	2 1/8			3 7/8	8	9	UL

Size Range: 3/4" through 2"
Material: Carbon steel
Finish: Zinc Plated Steel (Hot-Dip Galvanized optional)
Service: Hanger for CPVC pipe in the horizontal position on the bottom of structural wood beams. During installation, adjust hanger mounting flanges such that pipe contacts both mounting surface and hanger, minimizing vertical pipe movement.
Approvals: UL and ULC Listed.
Ordering: Specify part number

HS04

Two Hole Standoff Strap





HS04:DIMENSIONS (IN) · WEIGHT (LBS)

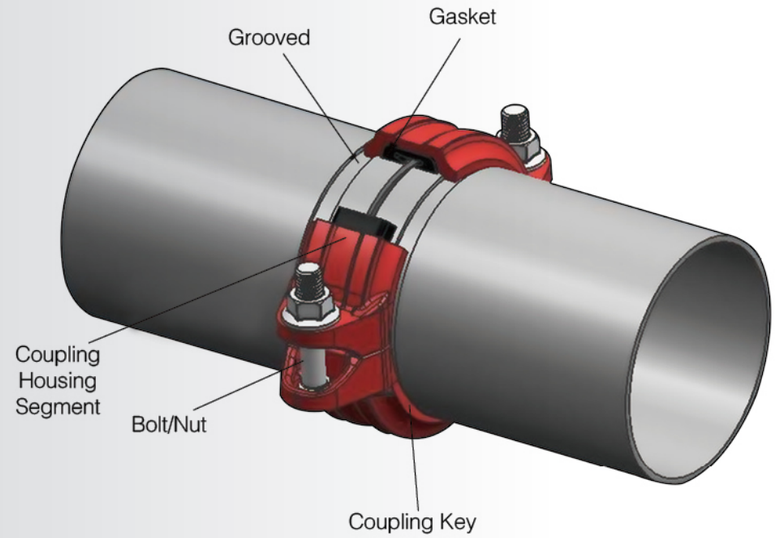
CPVC Pipe Size	A In.	B In.	ΦC In.	E In.	F In.	Max. Hanger Spacing(FT.)	Approx Weight/100(1bs)	UL
3/4	2 5/8	3 1/4	1/4	1 1/8	2 3/4	5 1/2	5	UL
1	2 21/32	3 5/16			3	6	6	UL
1 1/4	3	3 11/16			3 3/8	6 1/2	7	UL
1 1/2	3 5/8	4 1/4			3 5/8	7	8	UL
2	4	4 21/32			4 1/8	8	9	UL

Size Range: 3/4" through 2"
Material: Carbon steel
Finish: Zinc Plated Steel (Hot-Dip Galvanized optional)
Service: Hanger for CPVC pipe in the horizontal position on the bottom of structural wood beams . It can also be used as a guide to limit movement for a pipe in the horizontal/vertical position on the side of structural wood beams, composite wood beams .
Approvals: UL and ULC Listed.
Ordering: Specify part number

Rigid & Flexible Couplings

Grooved mechanical couplings （GMC）are available in both rigid and flexible models. A rigid coupling is used in applications where a rigid joint is desired,similar to that of a traditional flanged，welded ,or threaded connection.To be considered rigid，a coupling would allow less than one degree of deflection or angular movement.

Flexible couplings are designed to accommodate axial displacement,rotation and a minimum one degree of angular movement. Flexible couplings are used in applications that call for curved or deflected layouts or when systems are exposed to outside forces beyond normal static conditions. such as seismic events or where vibration or noise attenuation are a concern.



XGQT02 Flexible Coupling

Grooved couplings become less flexible as the pipe size increases.For sizes in excess of 18"(450mm) couplings are very limited in their angular movement.

Coupling Installation Instructions



1.Before installation,whether the groove meet the standard should be checked and then wipe away the burrs,iron rust, greasy dirt on gasket ring and pipe.



2.Spread a non–petronleun base ,non–toxic lubricant to gasket ring outside and inside.



3.Slip gasket over pipe/fitting end .The lip of the gasket can not overhang the pipe/fitting ends.



4.Secure another grooved steel pipe to this one and cover the gasket ring on pipe end,making sure the gasket ring is at the sealing position of both pipes. the gasket should not be twisted.



5.Make sure coupling has fixed the pipes.



6.Tighten the nuts evenly by alternating sides until the specified torque value are achieved.
For rigid coupling,keep the gaps at bolts pads evenly spaced. Gaskets can't be seen visually.
For flexible coupling,two housings should be iron to iron connected. Gaskets can't be seen visually.
For angle pad coupling,tighten the nuts evenly until an iron to iron contact is achieved.Equal and positive or neutral offsets shall be present at each bolt pad location.

WARNING:
1.It is important to tighten the nuts evenly by alternating sides to prevent gasket pinching.
2.Proper torquing of bolts is required to obtain specified performance.Over torquing may result bolts or cast broken.Pipe joint separation may result in significant property damage and serious injury!

Required Assembly Torques

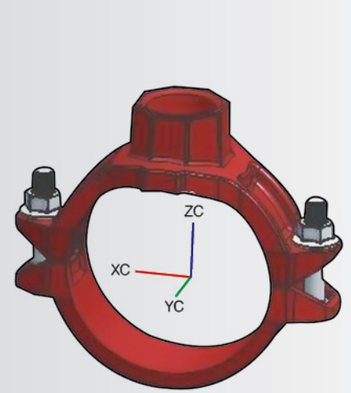
Bolt Size	Required Torque	
Inch	N.M	Lbs–Ft.
3/8	40–60	30–45
1/2	110–135	80–100
5/8	135–175	100–130
3/4	175–245	130–180
7/8	245–325	180–240

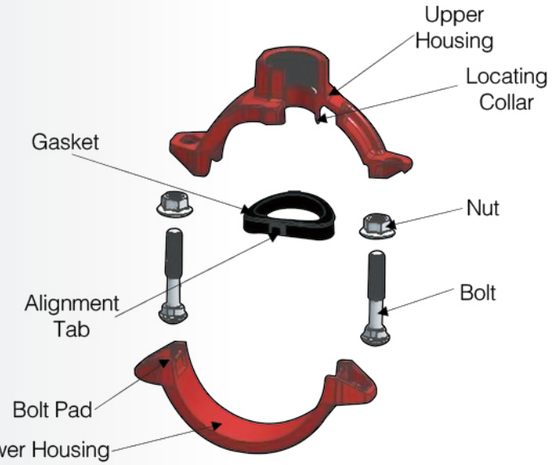
WARNING

1、Read and understand all instructions before attempting to install any piping products.
2、Depressurize and drain the piping system before attempting to install, remove, or adjust any piping products.
3、Wear safety glasses, helmet, and foot protection during installation.
4、Failure to follow these instructions could result in serious personal injury, improper product installation, and/or property damage.

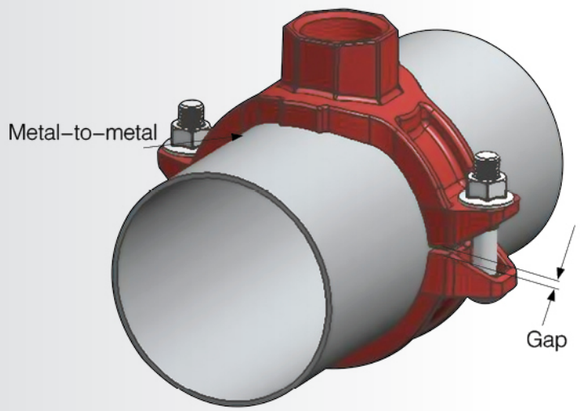
Mechanical Tees

100TONG mechanical tees provide a fast and easy mid–point branch outlet,eliminating the need for welding or the use of multiple fittings.





When bolts are tightened with a proper torque,the outlet housing makes metal to metal contact with the outer surface of the pipe.



It is normal to see bolt pad gaps,though they should be equal on both sides of the mechanical tee.

Mechanical Tee Installation Instructions



1.Make sure the correct hole saw size is being used. Holes must be drilled on the centerline but not on the weld line of the pipe. Ensure that a 5/8inch/16mm area around the hole is clean,wipe away the burrs,iron rust, greasy dirt.



2.Inspect the sealing surface of the gasket to make sure no debris is present.Lubricate the exposed sealing surface of the gasket.



3.Put gasket seal in the Mechanical Tee making sure the tab in the gasket line up with the tab recesses in the house.



4.Install the Mechanical Tee in the hole.



5.Install the bottom piece and Make sure the locating collar engages the outlet hole properly.Check this engagement by rocking the upper (outlet) housing in the hole.



6.Tighten the nuts evenly by alternating sides until the specified torque value are achieved.

WARNING:
1.It is important to tighten the nuts evenly by alternating sides to prevent gasket pinching.
2.Proper torquing of bolts is required to obtain specified performance.Over torquing may result bolts or cast broken.Pipe joint separation may result in significant property damage and serious injury!

Required Assembly Torques

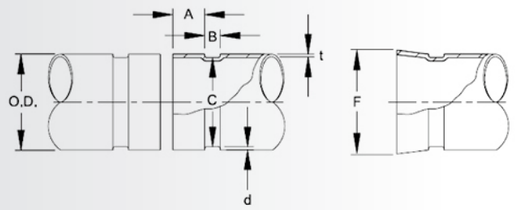
Bolt Size	Required Torque	
Inch	N.M	Lbs–Ft.
3/8	40–60	30–45
1/2	110–135	80–100
5/8	135–175	100–130
3/4	175–245	130–180
7/8	245–325	180–240

WARNING

1、Read and understand all instructions before attempting to install any piping products.
2、Depressurize and drain the piping system before attempting to install, remove, or adjust any piping products.
3、Wear safety glasses, helmet, and foot protection during installation.
4、Failure to follow these instructions could result in serious personal injury, improper product installation, and/or property damage.

Roll Grooving Dimensions for ANSI B36.10, BS 1387 (M) & AS 1074 (M) Pipe

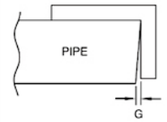
Basic roll groove dimensions conform to ANSI/AWWA C606–06 Table 5 with slightly adjusted tolerances to incorporate international standards including CSA B242, ISO/FDIS 6182–12, VdS 2100–6en and JPF MP–006.



Nominal Size	Pipe O.D. Basic	Pipe O.D. Tolerance		A ±0.030 ±0.76	B ±0.030 ±0.76	C +0.000 +0.00	t Min. Wall	d Groove Depth (ref.)	F Max. Allowed Flare Dia.
in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*
¾ *20*	1.050 *26.7*	+0.010 *+0.25*	-0.010 *-0.25*	0.625 *15.88*	0.281 *7.14*	0.938-0.015 *23.83-0.38*	0.065 *1.65*	0.056 *1.42*	1.15 *29.21*
1 *25*	1.315 *33.4*	+0.013 *+0.33*	-0.013 *-0.33*	0.625 *15.88*	0.281 *7.14*	1.190-0.015 *30.23-0.38*	0.065 *1.65*	0.063 *1.60*	1.43 *36.30*
1¼ *32*	1.660 *42.2*	+0.016 *+0.41*	-0.016 *-0.41*	0.625 *15.88*	0.281 *7.14*	1.535-0.015 *38.99-0.38*	0.065 *1.65*	0.063 *1.60*	1.77 *44.96*
1½ *40*	1.900 *48.3*	+0.019 *+0.48*	-0.019 *-0.48*	0.625 *15.88*	0.281 *7.14*	1.775-0.015 *45.09-0.38*	0.065 *1.65*	0.063 *1.60*	2.01 *51.05*
2 *50*	2.375 *60.3*	+0.024 *+0.61*	-0.024 *-0.61*	0.625 *15.88*	0.344 *8.74*	2.250-0.015 *57.15-0.38*	0.065 *1.65*	0.063 *1.60*	2.48 *62.99*
2½ *65*	2.875 *73.0*	+0.029 *+0.74*	-0.029 *-0.74*	0.625 *15.88*	0.344 *8.74*	2.720-0.018 *69.09-0.46*	0.083 *2.11*	0.078 *1.98*	2.98 *75.69*
76.1	3.000 *76.1*	+0.030 *+0.76*	-0.030 *-0.76*	0.625 *15.88*	0.344 *8.74*	2.844-0.018 *72.24-0.46*	0.090 *2.30*	0.075 *1.93*	3.10 *78.74*
3 *80*	3.500 *88.9*	+0.035 *+0.89*	-0.031 *-0.79*	0.625 *15.88*	0.344 *8.74*	3.344-0.018 *84.94-0.46*	0.083 *2.11*	0.078 *1.98*	3.60 *91.44*
101.6mm	4.000 *101.6*	+0.040 *+1.02*	-0.031 *-0.79*	0.625 *15.88*	0.344 *8.74*	3.834-0.020 *97.38-0.51*	0.083 *2.11*	0.083 *2.11*	4.10 *104.10*
108.0mm	4.250 *108.0*	+0.042 *+1.07*	-0.031 *-0.79*	0.625 *15.88*	0.344 *8.74*	4.084-0.020 *103.73-0.51*	0.083 *2.11*	0.083 *2.11*	4.35 *110.49*
4 *100*	4.500 *114.3*	+0.040 *+1.02*	-0.031 *-0.79*	0.625 *15.88*	0.344 *8.74*	4.334-0.020 *110.08-0.51*	0.083 *2.11*	0.083 *2.11*	4.60 *116.84*
133.0mm	5.250 *133.0*	+0.051 *+1.32*	-0.031 *-0.79*	0.625 *15.88*	0.344 *8.74*	5.084-0.020 *129.13-0.51*	0.109 *2.77*	0.083 *2.11*	5.35 *135.89*
139.7mm	5.500 *139.7*	+0.050 *+1.40*	-0.031 *-0.79*	0.625 *15.88*	0.344 *8.74*	5.333-0.020 *135.46-0.51*	0.109 *2.77*	0.083 *2.11*	5.60 *142.24*
5 *125*	5.563 *141.3*	+0.056 *+1.42*	-0.031 *-0.79*	0.625 *15.88*	0.344 *8.74*	5.395-0.022 *137.03-0.56*	0.109 *2.77*	0.083 *2.11*	5.66 *143.76*
159.0mm	6.250 *159.0*	+0.063 *+1.60*	-0.031 *-0.79*	0.625 *15.88*	0.344 *8.74*	6.084-0.030 *154.53-0.76*	0.109 *2.77*	0.083 *2.11*	6.35 *161.29*
165.1mm	6.500 *165.1*	+0.063 *+1.60*	-0.031 *-0.79*	0.625 *15.88*	0.344 *8.74*	6.334-0.022 *160.88-0.56*	0.109 *2.77*	0.085 *2.16*	6.60 *167.64*
6 *150*	6.625 *168.3*	+0.063 *+1.60*	-0.031 *-0.79*	0.625 *15.88*	0.344 *8.74*	6.455-0.022 *163.96-0.56*	0.109 *2.77*	0.085 *2.16*	6.73 *170.94*
216.3mm	8.516 *216.3*	+0.063 *+1.60*	-0.031 *-0.79*	0.750 *19.05*	0.469 *11.91*	8.331-0.025 *211.61-0.64*	0.109 *2.77*	0.092 *2.34*	8.69 *220.73*
8 *200*	8.625 *219.1*	+0.063 *+1.60*	-0.031 *-0.79*	0.750 *19.05*	0.469 *11.91*	8.441-0.025 *214.40-0.64*	0.109 *2.77*	0.092 *2.34*	8.80 *223.52*
10 *250*	10.750 *273.0*	+0.063 *+1.60*	-0.031 *-0.79*	0.750 *19.05*	0.469 *11.91*	10.562-0.027 *268.27-0.69*	0.134 *3.40*	0.094 *2.39*	10.92 *277.37*

Nominal Size	Pipe O.D. Basic	Tolerance		A ±0.030 ±0.76	B ±0.030 ±0.76	C +0.000 +0.00	t Min. Wall	d Groove Depth (ref.)	F Max. Allowed Flare Dia.
in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*
12 *300*	12.750 *323.9*	+0.063 *+1.60*	-0.031 *-0.79*	0.750 *19.05*	0.469 *11.91*	12.531-0.030 *318.29-0.76*	0.156 *3.96*	0.109 *2.77*	12.92 *328.17*
14 *350*	14.000 *355.6*	+0.063 *+1.60*	-0.031 *-0.79*	0.938 *23.83*	0.469 *11.91*	13.781-0.030 *350.04-0.76*	0.156 *3.96*	0.109 *2.77*	14.10 *358.14*
16 *400*	16.000 *406.4*	+0.063 *+1.60*	-0.031 *-0.79*	0.938 *23.83*	0.469 *11.91*	15.781-0.030 *400.84-0.76*	0.165 *4.19*	0.109 *2.77*	16.10 *408.94*
18 *450*	18.000 *457.2*	+0.063 *+1.60*	-0.031 *-0.79*	1.000 *25.40*	0.469 *11.91*	17.781-0.030 *451.64-0.76*	0.165 *4.19*	0.109 *2.77*	18.16 *461.26*
20 *500*	20.000 *508.0*	+0.063 *+1.60*	-0.031 *-0.79*	1.000 *25.40*	0.469 *11.91*	19.781-0.030 *502.44-0.76*	0.188 *4.78*	0.109 *2.77*	20.16 *512.06*
22 *550*	22.000 *558.8*	+0.063 *+1.60*	-0.031 *-0.79*	1.000 *25.40*	0.469 *11.91*	21.656-0.030 *550.06-0.76*	0.188 *4.78*	0.172 *4.37*	22.20 *563.88*
24 *600*	24.000 *609.6*	+0.063 *+1.60*	-0.031 *-0.79*	1.000 *25.40*	0.500 *12.70*	23.656-0.030 *600.86-0.76*	0.218 *5.54*	0.172 *4.37*	24.20 *614.68*

1. Pipe ends must be square cut. See above table for maximum allowable tolerances from square cut ends

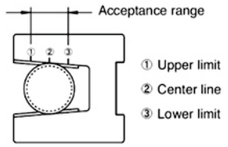


Pipe Size	G (max)
~3½"	0.030" (0.8mm)
4 ~ 6"	0.045" (1.2mm)
8" ~	0.060" (1.6mm)

2. The gasket seating surface `A' shall be free from deep scores, marks, or ridges that would prevent a positive seal.

3. The `C' dimensions are average values. The groove must be of uniform depth around the entire circumference. Use a 100tong groove gage or rule to check the groove diameter.

4. The `t' is the minimum allowable wall thickness that may be roll-grooved.groove gage or rule to check the groove diameter.



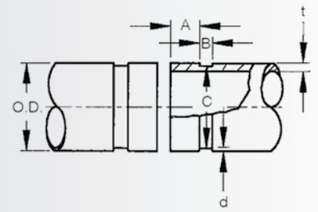
Groove Gage


Groove Rule

5. The `d' is for reference use only. The groove depth shall be determined by the groove diameter `C'.
6. Flare Diameter: The pipe end that may flare when the groove is rolled shall be within this limit when measured at the extreme end of the pipe.

Note:
100tong reserves the right to change specifications, designs and or standard equipment without notice and without incurring any obligations.

Cut Grooving Dimensions for IPS / BS / AS / ISO /JIS / KS PIPE



1	2			3	4	5	6	7
Nominal Size	Pipe O.D. Basic	Tolerance		A ±0.031 ±0.79	B ±0.031 ±0.79	C +0.000 +0.00	Min. Wall t	Groove Depth d (ref.)
in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*
¾ *20*	1.050 *26.7*	+0.010 *+0.25*	-0.010 *-0.25*	0.625 *15.88*	0.313 *7.95*	0.938-0.015 *23.83-0.38*	0.113 *2.87*	0.056 *1.42*
1 *25*	1.315 *33.4*	+0.028 *+0.71*	-0.015 *-0.38*	0.625 *15.88*	0.313 *7.95*	1.190-0.015 *30.23-0.38*	0.133 *3.38*	0.063 *1.60*
1¼ *32*	1.660 *42.2*	+0.029 *+0.74*	-0.016 *-0.41*	0.625 *15.88*	0.313 *7.95*	1.535-0.015 *38.99-0.38*	0.140 *3.56*	0.063 *1.60*
1½ *40*	1.900 *48.3*	+0.019 *+0.48*	-0.019 *-0.48*	0.625 *15.88*	0.313 *7.95*	1.775-0.015 *45.09-0.38*	0.145 *3.68*	0.063 *1.60*
2 *50*	2.375 *60.3*	+0.024 *+0.61*	-0.024 *-0.61*	0.625 *15.88*	0.313 *7.95*	2.250-0.015 *57.15-0.38*	0.154 *3.91*	0.063 *1.60*
2½ *65*	2.875 *73.0*	+0.029 *+0.74*	-0.029 *-0.74*	0.625 *15.88*	0.313 *7.95*	2.720-0.018 *69.09-0.46*	0.188 *4.78*	0.078 *1.98*
76.1 mm	3.000 *76.1*	+0.030 *+0.76*	-0.030 *-0.76*	0.625 *15.88*	0.313 *7.95*	2.845-0.018 *72.26-0.46*	0.188 *4.78*	0.076 *1.93*
3 *80*	3.500 *88.9*	+0.035 *+0.89*	-0.031 *-0.79*	0.625 *15.88*	0.313 *7.95*	3.344-0.018 *84.94-0.46*	0.188 *4.78*	0.078 *1.98*
101.6 mm	4.000 *101.6*	+0.040 *+1.02*	-0.031 *-0.79*	0.625 *15.88*	0.313 *7.95*	3.834-0.020 *97.38-0.51*	0.188 *4.78*	0.078 *1.98*
108.0 mm	4.250 *108.0*	+0.042 *+1.07*	-0.031 *-0.79*	0.625 *15.88*	0.375 *9.53*	4.084-0.020 *103.73-0.51*	0.203 *5.16*	0.083 *2.11*
4 *100*	4.500 *114.3*	+0.045 *+1.14*	-0.031 *-0.79*	0.625 *15.88*	0.375 *9.53*	4.334-0.020 *110.08-0.51*	0.203 *5.16*	0.083 *2.11*
133.0 mm	5.250 *133.0*	+0.052 *+1.32*	-0.031 *-0.79*	0.625 *15.88*	0.375 *9.53*	5.084-0.020 *129.13-0.51*	0.203 *5.16*	0.083 *2.11*
139.7 mm	5.500 *139.7*	+0.056 *+1.42*	-0.031 *-0.79*	0.625 *15.88*	0.375 *9.53*	5.334-0.022 *135.48-0.56*	0.203 *5.16*	0.083 *2.11*
5 *125*	5.563 *141.3*	+0.056 *+1.42*	-0.031 *-0.79*	0.625 *15.88*	0.375 *9.53*	5.395-0.022 *137.03-0.56*	0.203 *5.16*	0.084 *2.13*
159.0 mm	6.250 *159.0*	+0.063 *+1.60*	-0.031 *-0.79*	0.625 *15.88*	0.375 *9.53*	6.084-0.022 *154.53-0.56*	0.219 *5.56*	0.083 *2.11*
165.1 mm	6.500 *165.1*	+0.063 *+1.60*	-0.031 *-0.79*	0.625 *15.88*	0.375 *9.53*	6.330-0.022 *160.78-0.56*	0.219 *5.56*	0.085 *2.16*
6 *150*	6.625 *168.3*	+0.063 *+1.60*	-0.031 *-0.79*	0.625 *15.88*	0.375 *9.53*	6.455-0.022 *163.96-0.56*	0.219 *5.56*	0.085 *2.16*
8 *200*	8.625 *219.1*	+0.063 *+1.60*	-0.031 *-0.79*	0.750 *19.05*	0.438 *11.13*	8.441-0.025 *214.40-0.64*	0.238 *6.05*	0.092 *2.34*
10 *250*	10.750 *273.0*	+0.063 *+1.60*	-0.031 *-0.79*	0.750 *19.05*	0.500 *12.70*	10.562-0.027 *268.27-0.69*	0.250 *6.35*	0.094 *2.39*
12 *300*	12.750 *323.9*	+0.063 *+1.60*	-0.031 *-0.79*	0.750 *19.05*	0.500 *12.70*	12.531-0.030 *318.29-0.76*	0.279 *7.09*	0.109 *2.77*
200 JIS	8.516 *216.3*	+0.063 *+1.60*	-0.031 *-0.79*	0.750 *19.05*	0.438 *11.13*	8.331-0.022 *211.61-0.56*	0.238 *6.05*	0.092 *2.34*
250 JIS	10.528 *267.4*	+0.063 *+1.60*	-0.031 *-0.79*	0.750 *19.05*	0.500 *12.70*	10.339-0.027 *262.60-0.69*	0.250 *6.35*	0.094 *2.39*

1		2		3	4	5	6	7
Nominal Size	Basic	Pipe O.D. Tolerance		A ±0.031 ±0.79	B ±0.031 ±0.79	C +0.000 +0.00	Min. Wall t	Groove Depth d (ref.)
in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm
300 JIS	12.539 318.5	+0.063 +1.60	-0.031 -0.79	0.750 19.05	0.500 12.70	12.319-0.030 312.90-0.76	0.279 7.09	0.109 2.77
14 350	14.000 355.6	+0.063 +1.60	-0.031 -0.79	0.938 23.83	0.500 12.70	13.781-0.030 350.04-0.76	0.281 7.14	0.109 2.77
16 400	16.000 406.4	+0.063 +1.60	-0.031 -0.79	0.938 23.83	0.500 12.70	15.781-0.030 400.84-0.76	0.312 7.92	0.109 2.77
18 450	18.000 457.2	+0.063 +1.60	-0.031 -0.79	1.000 25.40	0.500 12.70	17.781-0.030 451.64-0.76	0.312 7.92	0.109 2.77
20 500	20.000 508.0	+0.063 +1.60	-0.031 -0.79	1.000 25.40	0.500 12.70	19.781-0.030 502.44-0.76	0.312 7.92	0.109 2.77
22 550	22.000 558.8	+0.063 +1.60	-0.031 -0.79	1.000 25.40	0.563 14.30	21.656-0.030 550.06-0.76	0.375 9.53	0.172 4.37
24 600	24.000 609.6	+0.063 +1.60	-0.031 -0.79	1.000 25.40	0.562 14.27	23.656-0.030 600.86-0.76	0.375 9.53	0.172 4.37

Pipe O.D. (Column 2):

Maximum allowable tolerances from square of ends is 0.03” for sizes up to 3–1/2”; 0.045” for 4” thru 6”, and 0.060” for sizes 8” and above.

Gasket Seating Surface (Column 3):

The gasket seating surface shall be free from deep scores, marks, or ridges that would prevent a positive seal.

Groove Width (Column 4):

Groove width is to be measured between vertical flanks of the groove side walls.

Groove Diameter (Column 5):

The “C” diameters are average values. The groove must be of uniform depth around the entire pipe circumference.

Minimum Wall Thickness (Column 6):

The “t” is the minimum allowable wall thickness that may be cut–grooved.

Groove Depth (Column 7):

The “d” is for reference use only. The groove dimension shall be determined by the groove diameter “C”.

Note:

100tong reserves the right to change specifications, designs and or standard equipment without notice and without incurring any obliga– tions.

101T Push Lock Coupling Installation Instructions

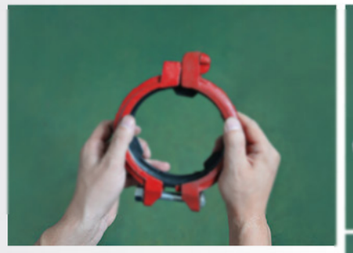


Step 1.

Inspect exterior groove and ends of the pipe to verify all burrs, loose debris, dirt, chips, paint and any other foreign material such as grease are removed. Pipe end sealing surfaces must be free from sharp edges, projections, indentations, and/or other defects.

NOTE:

A silicone based lubricant is recommended. To prevent deterioration of the gasket material a petroleum lubricant should not be used on Grade “A” “EPDM”.



Step 2.

Do not remove the nut from the bolt.Open the coupling by extending the coupling segments out to the extent allowed by the bolt and nut.

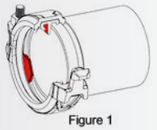


Figure 1



Figure 2



Step 3.

As shown in the picture, apply lubricant evenly around the rubber ring exposed on the shell.
The surface of the rubber ring at the groove shown in Figure 2 should also be evenly coated with lubricant.



Step 4.

Push the gasket/coupling onto one end of the pipe until the positioning–plate of the gasket is in contact with the end of the pipe (See Figure 1 red highlights is positioning–plat).
The pipe end should not cross through the positioning–plate of gasket.(See Figure 2).



Step 5.

Slide the other pipe end into the gasket/coupling ensuring that it makes contact with the positioning–plate of the gasket.
Both pipes should be aligned vertically and horizontally.
Verify that the housing is over the gasket and that the housing keys are aligned with the pipe grooves.



Step 6.

Tighten nut to the recommended bolt torque, see sheet 1.
Visually inspect the coupling to ensure that the housing keys are engaged into the pipe grooves.

NOTE:

Bolt–torque information is supplied as a guideline in sheet 1 and may be used when setting the torque on power impact wrenches. Refer to the manufacturer’s instructions for settings.
Bolt lengths require the use of deep or extra–deep–well sockets.

Caution:

Removal of the nut from the bolt may result in the coupling segments separating at the hinges and the coupling disengaging from the pipe. Use caution to avoid equipment damage and/or personal injury.
Do not leave coupling unattended on a single pipe end as it may disengage from the pipe.Failure to do so may result in equipment damage and/or personal injury.

Required Assembly Torques

Product Size	Required Torque	
Inch	Max N.m	Max Ft-Lbs
1 "	90	66
1-1/4 "	90	66
1-1/2 "	90	66
2 "	90	66
2-1/2 "	100	73
76.1	100	73
3 "	120	88
108	140	103
4 "	140	103
133	150	110
139.7	150	110
5 "	150	110
159	150	110
165.1	150	110
6 "	150	110

Note:

When the pipe clamp bolt pad is metal to metal or the gap between the two pieces of the pipe clamp is less than 1.5mm, no greater torque is required.

WARNING

1、Read and understand all instructions before atternpting to install any piping products.

2、Depressurize and drain the piping system before attempting to install, remove, or adjust any piping products.

3、Wear safety glasses, hardhat, and foot protection during installation.

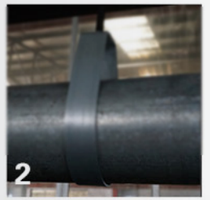
4、Fallure to follow these instructions could result in serious personal injury. improper product installation, and/or property damage.

Hanger Installation Instruction of 100Tong

Pear Hanger(1,2) Clevis Hanger(3,4) Cup Nut Hanger(5,6) Ring Hanger(7,8)



1.Disassemble the hanger before installation. (PH01)



2.Use the hanger clamp the pipe,as this picture shows.Insert the bolt,the bolt must over through the nut. (PH01)



3.Disassemble the hanger before installation.Use the hanger clamp the pipe,as this picture shows.(CH01)



4.Use the bolt lock the hanger.Insert the bolt,the bolt must over through the nut. (CH01)



5.Disassemble the hanger before installation.Use the hanger clamp the pipe,as this picture shows.(CL01)



6.Use the nut lock the hanger.Insert the bolt,the bolt must over through the nut.(CL01)



7.Disassemble the hanger before installation.Use the hanger clamp the pipe,as this picture shows.(RH01)



8.Use the nut lock the hanger.Insert the bolt,the bolt must over through the nut.(RH01)

WARNING:

The hanger specification must fit the pipe O.D. The bolts must over through the nuts.Choose the right amounts of hangers that can strong enough to hold the pipe.Adjust the bolt to proper altitude.

If you need more information,Please contact us.

Hanger Installation Instruction of 100Tong

Pipe Clamp(1,2) Universal C–type Clamp(3,4,5,6)



1.Fix the clamp to a proper level.



2.Tighten the nuts with the right torque (torque specifications as following blank)



3.Install the C–type Clamp properly on H steel or other fixed hanging beam.



4.Adjust the bolt to the required torque value then fasten the lock nut.



5.Use the nut lock the bolt.



6.Insert the threaded rod. The rod must reach the bottom of the clamp.

WARNING:

Over torque might break the clamp body and damage the bolt,that may cause hanging object fassing and injury.

Recomdation:

use under roof installations with bar joist type constructions ,or for attachment to the top of bottom flange of structural shapes wiere the vertical hanger rod is required to be offset from the edge of the flange and where the thickness of joist of flange does not exceed 1 1/4″ .

C–type Clamp Torque Specifications

Rod Size A	Torque Value	Max Loads	
		Top	Bottom
M10(3/8)	60	500	250
M12(1/2)	125	950	760

Pipe Clamp Torque Specifications

Nominal Size	Bolts	Torque(N.M)
DN15	M10(3/8)	21
DN20		
DN25		
DN32		
DN40		
DN50		32
DN65	M12(1/2)	
DN80		
DN100		46
DN125		
DN150		
DN200	M16(5/8)	100
DN250		
DN300		

NOTES

If you need more information,please contact us.

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