Ductile Iron Grooved Fittings and Couplings

www.luyuanguanjian.com

LUYUAN®

SHANDONG LUYUAN FIRE TECHNOLOGY CO.,LTD

Ductile Iron Grooved Fittings and Couplings

LUYUAN, specializing in the manufacturing of grooved piping products,offers high quality products with reasonable price and outstanding service.Our company has been certified to ISO9001:2015, ISO14001:2015, ISO45001:2018. Most of the products have been listed and approved by UL, FM, CE, KC, LR.

History

Mr.Zhang Xun started LUYUAN from his small foundry in May of 2005, manufacturing grooved fittings, agricultural machinery parts. Building the company in the grooved piping products Industry, LUYUAN has grown into a strong manufacturer of the above products, having two sets the world's most advanced shaping system "DISA 3".

Today, LUYUAN exports its products to more than 70 countries all over the world.

Vision

The Corporate Vision is to create sustainable economic, social, and environmental value through our role as a leading manufacturer in the global pipe fittings markets. We strive to be a reliable, innovative, and dynamic business partner that provides the highest quality business solutions and forges strong and long-term relationships with our customers and staff at large, fostering partnerships and open dialogue.

Values

Corporate Values: Integrity, Commitment, Respect, and Accountability, guiding the company's operations and business worldwide in a responsible manner. These values help us to fulfill our purpose and to achieve our vision. They reflect who we are, what we do, and what we expect from ourselves and others.

Certificates

FM APPROVED

Certificate of Compliance

This certificate is issued for the following:

Pipe Fittings, Side Outlet, Rigid, Grooved Couplings, Standard-Flexible, Grooved Couplings, Standard-Rigid, and Grooved Split Flanges-Flexible
(see attached listing)

Prepared for:
Shandong Luyuan Fire Technology Co Ltd
Station of Fang an Sub-District Office
Fangzi District, Weifang City
Shandong Province
China

Manufactured by:
Shandong Luyuan Fire Technology Co Ltd
Station of Fang an Sub-District Office
Fangzi District, Weifang City
Shandong Province
China

FM Approvals Class: 1920

Approval Identification: 0003051073 Date Approved: May 28, 2014
Approval Identification: 0003058271 Date Approved: August 1, 2017
Superseded by: RR215473 Date Approved: September 19, 2018

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

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

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

FM Approvals
Member of the FM Global Group

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CERTIFICATE OF COMPLIANCE

Certificate Number 20180824-EX26539
Report Reference EX26539-20150130
Issue Date 2018-AUGUST-24

Issued to: SHANDONG LUYUAN FIRE TECHNOLOGY CO LTD
STATION OF FANG AN SUB-DISTRICT OFFICE
FANGZI DISTRICT
WEIFANG
SHANDONG 261210 CHINA

This is to certify that representative samples of: FITTINGS, RUBBER GASKETED
Rubber Gasketed fittings for use with cut, rolled or grooved steel pipe.
Rigid Coupling (for use with grooved end pipe or this manufacturer's grooved end fittings): XGQT1
Flexible Coupling (for use with grooved end pipe or this manufacturer's grooved end fittings): XGQT2
Flange Adapter: XGQT9.

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 213, Other Recognized Document for 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 1

CERTIFICATE OF COMPLIANCE

Certificate Number 20180824-EX26538
Report Reference EX26538-20150130
Issue Date 2018-AUGUST-24

Issued to: SHANDONG LUYUAN FIRE TECHNOLOGY CO LTD
STATION OF FANG AN SUB-DISTRICT OFFICE
FANGZI DISTRICT
WEIFANG
SHANDONG 261210 CHINA

This is to certify that representative samples of: FITTINGS, GROOVED AND PLAIN END
Grooved end ductile iron fittings: XGQT01, XGQT02, XGQT03, XGQT13, XGQT14, XGQT07, XGQT07S, XGQT08, XGQT6S, XGQT09

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

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

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

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

Look for the UL Certification Mark on the product.

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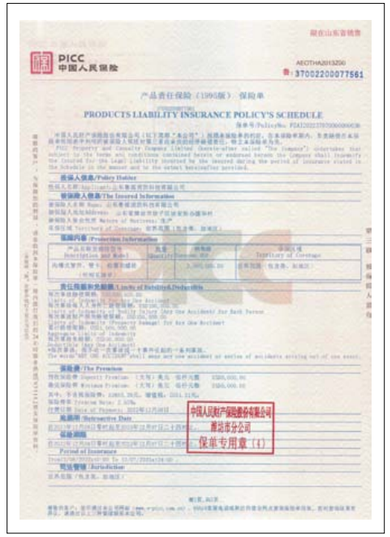
위생안전기준 인증서

1. 인 증 번 호 : KCW-2019-0015
2. 제조 업체명 : Shandong Luyuan Fire Technology Co.,Ltd.
3. 대 표 자 : Xun Zhang
4. 본 사 주 소 : Fangzi District,Weifang, Shandong Province, China.
5. 공장 소재지 : Fangzi District,Weifang, Shandong Province, China.
6. 제 품 명 : 그루브 조인트 커플링
7. 종류, 등급 또는 호칭 : 제2호 참조
8. 용 도 : 일반 수도용 자재

「수도법」 제14조제1항 및 「수도용 자재와 제품의 위생안전기준 인증 등에 관한 규칙」 제8조제1항에 따라 인증서를 발급한 제품입니다.

2019년 01월 17일

한국상하수도협회



PICC 中国人民保险

PRODUCTS LIABILITY INSURANCE POLICY'S SCHEDULE

EURO CERT

CERTIFICATE

SHANDONG LUYUAN FIRE TECHNOLOGY CO., LTD.
Jianhua Village, Fangan Office, Fangzi District, Weifang City, Shandong Province China.

This is to certify that, upon the relevant request of the applicant, EUROCERT as Third Party 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 **grooved casting pipe fittings connections.**

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.

CERTIFICATE OF CONFORMITY
QUALITY MANAGEMENT SYSTEM CERTIFICATION
NO. 10422Q01711R1M

This is to certify that the Quality Management System of
SHANDONG LUYUAN FIRE TECHNOLOGY CO.,LTD.
(Address: Jianhua Village, Fangan Office, Fangzi District, Weifang City, Shandong Province Unity Social Credit Code:91370784779295263G Postal Code:262133)
is in conformity with:
GB/T 19001-2016/ISO 9001:2015
This system is valid to:
* CASTING AND PROCESSING OF GROOVE PIPE CONNECTOR *

Further clarifications regarding the scope of this certificate and the applicability of GB/T 19001-2016/ISO 9001:2015 requirements may be obtained by this body organization. Certificate in the state regulations administrative license, qualification, mandatory product certification received within the validity period, the regular supervision review of the case effectively. This certificate information is available on the official website of the agency and Certification & Accreditation Administration of the People's Republic of China (www.cnca.gov.cn).

Issue date: 09-09-2022 Terms of validity: 09-09-2022 TO 09-08-2025

Representative of the company (Director):

SHANDONG SEATONE INTERNATIONAL CERTIFICATION CO.,LTD

IAF CNAS

CERTIFICATE OF CONFORMITY
OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATION NO. 10422S00924R1M

This is to certify that the Occupational Health And Safety Management System of
SHANDONG LUYUAN FIRE TECHNOLOGY CO.,LTD.
(Address: Jianhua Village, Fangan Office, Fangzi District, Weifang City, Shandong Province Unity Social Credit Code:91370784779295263G Postal Code:262133)
is in conformity with:
GB/T 45001-2020/ISO 45001:2018
This system is valid to:
* CASTING AND PROCESSING OF GROOVE PIPE CONNECTOR AND RELATED OHS MANAGEMENT ACTIVITIES BY SHANDONG LUYUAN FIRE TECHNOLOGY CO.,LTD.LOCATED AT JIANHUA VILLAGE, FANGAN OFFICE, FANGZI DISTRICT, WEIFANG CITY, SHANDONG PROVINCE *

Further clarifications regarding the scope of this certificate and the applicability of GB/T 45001-2020/ISO 45001:2018 requirements may be obtained by this body organization. Certificate in the state regulations administrative license, qualification, mandatory product certification received within the validity period, the regular supervision review of the case effectively. This certificate information is available on the official website of the agency and Certification & Accreditation Administration of the People's Republic of China (www.cnca.gov.cn).

Issue date: 09-09-2022 Terms of validity: 09-09-2022 TO 09-08-2025

Representative of the company (Director):

SEATONE 世通国际认证

CERTIFICATE OF CONFORMITY
ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATION
NO. 10422E0095981M

This is to certify that the Environmental Management System of
SHANDONG LUYUAN FIRE TECHNOLOGY CO.,LTD.
(Address: Jianhua Village, Fangan Office, Fangzi District, Weifang City, Shandong Province Unity Social Credit Code:91370784779295263G Postal Code:262133)
is in conformity with:
GB/T 24001-2016/ISO 14001:2015
This system is valid to:
* CASTING AND PROCESSING OF GROOVE PIPE CONNECTOR AND RELATED EMS MANAGEMENT ACTIVITIES BY SHANDONG LUYUAN FIRE TECHNOLOGY CO.,LTD.LOCATED AT JIANHUA VILLAGE, FANGAN OFFICE, FANGZI DISTRICT, WEIFANG CITY, SHANDONG PROVINCE *

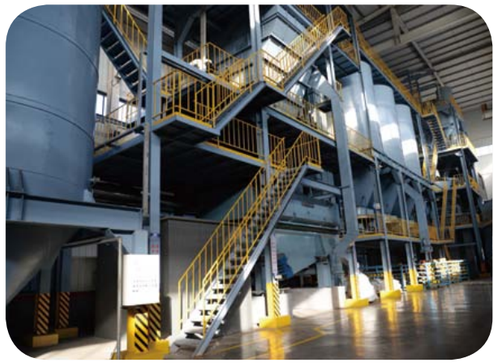
Further clarifications regarding the scope of this certificate and the applicability of GB/T 24001-2016/ISO 14001:2015 requirements may be obtained by this body organization. Certificate in the state regulations administrative license, qualification, mandatory product certification received within the validity period, the regular supervision review of the case effectively. This certificate information is available on the official website of the agency and Certification & Accreditation Administration of the People's Republic of China (www.cnca.gov.cn).

Issue date: 09-09-2022 Terms of validity: 09-09-2022 TO 09-08-2025

Representative of the company (Director):

SEATONE 世通国际认证

Production Flow



Sand Mixing

Modeling

Casting

Shot Blasting

Semi-finished products warehouse

Painting Workshop

Finished Products Warehouse

Testing Laboratory

Product Show

Ductile Iron Grooved Fittings and Couplings

Material: ASTM A536 GRADE: 65–45–12
Size Available: 1"(DN25)– 12"(DN300)
Working Pressure:300PSI–500PSI
Sureface Treatment: Epoxy painted, Dacromet, Electroplated, Hot–dip Galvanized


Rigid Coupling
XGQT1


Flexible Coupling
XGQT2


Reducing Flexible Coupling
XGQT5


Angle Pad Rigid Coupling
XGQT6


Heavy Duty Flexible Coupling
XGQT12


Shouldered Flexible Coupling


Grooved Concentric Reducer
XGQT07


Threaded Concentric Reducer
XGQT07S


Grooved Eccentric Reducer
XGQT17


Tee
XGQT03


Threaded Reducing Tee
XGQT13S


Grooved Reducing Tee
XGQT13


Cross
XGQT14


Grooved Fitting Galvanized


90° Elbow
XGQT01


45° Elbow
XGQT02


22.5° Elbow
XGQT16


11.25° Elbow
XGQT10


Grooved Reducing Cross
XGQT15


Grooved Flange
XGQT8


Adaptor Flange
XGQT08


U–Bolt Mechanical Tee
XGQT3U


Mechanical Tee Threaded Outlet
XGQT3S

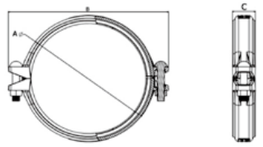

Mechanical Tee Grooved Outlet
XGQT3


Cap
XGQT09


Cap with Concentric Hole
XGQT06S

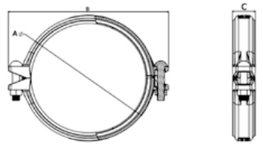

Cap with Eccentric Hole
XGQT05S

XGQT1
Rigid Coupling



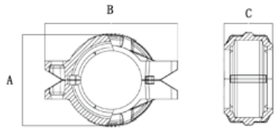
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension A mm/in	Dimension B mm/in	Dimension C mm/in	Bolt/Nut
25 1	33.7 1.327	300 2.07	56 2.205	96 3.780	45 1.772	M10*45
32 1 1/4	42.4 1.669	300 2.07	66 2.598	106 4.173	45 1.772	M10*45
40 1 1/2	48.3 1.9	300 2.07	72 2.835	114 4.488	45 1.772	M10*45
50 2	60.3 2.375	300 2.07	81 3.189	126 4.961	47 1.772	M10*55
65 2 1/2	73 2.875	300 2.07	95 3.740	139 5.472	47 1.772	M10*55
65 3OD	76.1 3	300 2.07	99 3.898	143 5.630	47 1.772	M10*55
80 3	88.9 3.5	300 2.07	112 4.409	157 6.181	48 1.890	M10*55
100 4	114.3 4.5	300 2.07	138 5.433	193 7.598	50 1.969	M12*65
125 5 1/2OD	139.7 5.5	300 2.07	166 6.535	221 8.701	50 1.969	M12*70
125 5	141.3 5.563	300 2.07	169 6.654	222 8.740	50 1.969	M12*70
150 6 1/2 OD	165.1 6.5	300 2.07	193 7.598	250 9.843	51 2.008	M12*70
150 6	168.3 6.625	300 2.07	196 7.717	256 10.079	51 2.008	M12*70
200 8	219.1 8.625	300 2.07	254 10.000	322 12.677	63 2.480	M16*85
250 10	273 10.75	300 2.07	313 12.323	392 15.433	64 2.520	M20*100
300 12	323.9 12.75	300 2.07	366 14.409	445 17.520	66 2.598	M20*110

XGQT2
Flexible Coupling



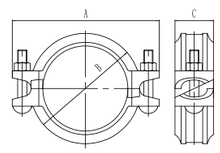
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension A mm/in	Dimension B mm/in	Dimension C mm/in	Bolt/Nut
25 1	33.7 1.327	300 2.07	56 2.205	96 3.780	45 1.772	M10*45
32 1 1/4	42.4 1.669	300 2.07	66 2.598	106 4.173	45 1.772	M10*45
40 1 1/2	48.3 1.9	300 2.07	72 2.835	114 4.488	45 1.772	M10*45
50 2	60.3 2.375	300 2.07	81 3.189	126 4.961	47 1.850	M10*55
65 2 1/2	73 2.875	300 2.07	95 3.740	139 5.472	47 1.850	M10*55
65 3OD	76.1 3	300 2.07	99 3.898	143 5.630	47 1.850	M10*55
80 3	88.9 3.5	300 2.07	112 4.409	157 6.181	48 1.890	M10*55
100 4	114.3 4.5	300 2.07	138 5.433	193 7.598	50 1.969	M12*65
125 5 1/2 OD	139.7 5.5	300 2.07	166 6.535	221 8.701	50 1.969	M12*70
150 6 1/2 OD	165.1 6.5	300 2.07	193 7.598	250 9.843	51 2.008	M12*70
150 6	168.3 6.625	300 2.07	196 7.717	256 10.079	51 2.008	M12*70
200 8	219.1 8.625	300 2.07	254 10.000	322 12.677	63 2.480	M16*85
250 10	273 10.75	300 2.07	313 12.323	392 15.433	64 2.520	M20*100
300 12	323.9 12.75	300 2.07	366 14.409	445 17.520	66 2.598	M20*110

XGQT11/XGQT12
Heavy Duty Flexible/Rigid Coupling



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension A mm/in	Dimension B mm/in	Dimension C mm/in	Bolt/Nut
50 2	60.3 2.375	500 3.45	86 3.386	125 4.92	46 1.81	M10*55
65 2 1/2	73 2.875	500 3.45	99 3.89	146.00 5.75	47 1.85	M12*65
65 2 1/2	76.1 3	500 3.45	102 4.02	150 5.90	47 1.85	M12*65
80 3	88.9 3.5	500 3.45	115 4.53	164 6.46	47 1.85	M12*65
100 4	114.3 4.5	500 3.45	142 5.59	190 7.48	50 1.97	M12*70
125 5 1/2 OD	139.7 5.5	500 3.45	170 6.69	217 8.54	50 1.97	M12*75
150 6 1/2 OD	165.1 6.5	500 3.45	200 7.87	256 10.00	50 1.97	M14*90
150 6	168.3 6.625	500 3.45	204 8.03	260 10.24	50 1.97	M14*90
200 8	219.1 8.625	500 3.45	266 10.47	340 13.39	60 2.36	M20*110

XGQT6
Angle Pad Rigid Coupling

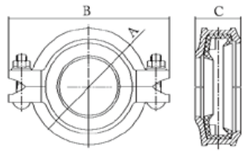


Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension A mm/in	Dimension B mm/in	Dimension C mm/in	Bolt/Nut
32 1 1/4	42.4 1.669	300 2.07	64.5 2.539	106 4.17	45 1.77	M10*55
40 1 1/2	48.3 1.9	300 2.07	70.5 2.776	113.4 4.465	45 1.772	M10*55
50 2	60.3 2.375	300 2.07	83 3.268	126 4.96	48 1.89	M10*55
65 2 1/2	73 2.874	300 2.07	95 3.740	140 5.512	48 1.890	M10*60
65 2 1/2	76.1 3	300 2.07	99 3.898	143 5.630	48 1.890	M10*60
80 3	88.9 3.5	300 2.07	112 4.409	161 6.34	48 1.89	M12*65
100 4	114.3 4.5	300 2.07	139 5.472	198 7.795	51 2.008	M14*75
125 5	139.7 5.5	300 2.07	170 6.693	228 8.98	52 2.05	M14*75
150 6 1/2 OD	165.1 6.5	300 2.07	194 7.638	261 10.276	52 2.047	M16*85
150 6	168.3 6.626	300 2.07	200 7.874	267 10.512	52 2.047	M16*85
200 8	219.1 8.625	300 2.07	258 10.157	332 13.07	62 2.44	M20*100

Shouldered Flexible Coupling

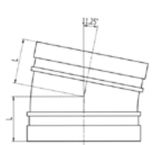
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension A mm/in	Dimension B mm/in	Dimension C mm/in	Bolt/Nut
50 2	60.3 2.375	580 4.0	88	125	46	M12
80 3	88.9 3.5	580 4.0	119	160	49	M12
100 4	114.3 4.5	507.5 3.5	152	190	50	M12
125 5	139.7 6.5	507.5 3.5	186	248	54	M16
150 6	165.1 6.5	507.5 3.5	201	256	50	M16
200 8	219.1 8.625	435 3.0	265	340	60	M20
250 10	273 10.75	362.5 2.5	321	408	62	M22
300 12	323.9 12.75	362.5 2.5	380	463	64	M22

XGQT5
Reducing Flexible Coupling



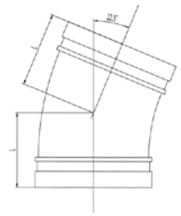
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension A mm/in	Dimension B mm/in	Dimension C mm/in	Bolt/Nut
40 × 32 1 1/2 × 1 1/4	48.3 × 42.4 1.900 × 1.669	300 2.07	73 2.874	112 4.409	48 1.890	M10*55
50 × 32 2 × 1 1/4	60.3 × 42.4 2.375 × 1.669	300 2.07	85 3.346	130 5.118	48 1.890	M10*55
50 × 40 2 × 1 1/2	60.3 × 48.3 2.375 × 1.900	300 2.07	87 3.425	130 5.118	48 1.890	M10*55
65 × 25 2 1/2 × 1	73.0 × 33.7 2.875 × 1.315	300 2.07	98 3.858	140 5.512	45 1.772	M10*55
65 × 40 2 1/2 × 1 1/2	73.0 × 48.3 2.875 × 1.900	300 2.07	100 3.937	142 5.591	48 1.890	M10*60
65 × 50 2 1/2 × 2	73.0 × 60.3 2.875 × .375	300 2.07	100 3.937	142 5.591	48 1.890	M10*60
65 × 40 3OD × 1 1/2	76.1 × 48.3 3.000 × 1.900	300 2.07	102 4.016	147 5.787	48 1.890	M10*60
65 × 50 3OD × 2	76.1 × 60.3 3.000 × 2.375	300 2.07	102 4.016	147 5.787	48 1.890	M10*60
65 × 65 3OD × 2 1/2	76.1 × 73.0 3.000 × 2.875	300 2.07	101 3.976	146 5.748	48 1.890	M10*60
80 × 40 3 × 1 1/2	88.9 × 48.3 3.500 × 1.900	300 2.07	116 4.567	165 6.496	49 1.929	M12*70
80 × 50 3 × 2	88.9 × 60.3 3.500 × 2.375	300 2.07	116 4.567	165 6.496	49 1.929	M12*70
80 × 65 3 × 2 1/2	88.9 × 73.0 3.500 × 2.375	300 2.07	116 4.567	165 6.496	49 1.929	M12*70
80 × 65 3 × 3OD	88.9 × 76.1 3.500 × 3.000	300 2.07	116 4.567	165 6.496	49 1.929	M12*70
100 × 32 4 × 1 1/4	114.3 × 42.4 4.500 × 1.669	300 2.07	146 5.748	200 7.874	52 2.047	M14*75
100 × 40 4 × 1 1/2	114.3 × 48.3 4.500 × 1.900	300 2.07	146 5.748	200 7.874	52 2.047	M14*75
100 × 50 4 × 2	114.3 × 60.3 4.500 × 2.375	300 2.07	146 5.748	200 7.874	52 2.047	M14*75
100 × 65 4 × 2 1/2	114.3 × 73.0 4.500 × 1.327	300 2.07	146 5.748	200 7.874	52 2.047	M14*75
100 × 65 4 × 3OD	114.3 × 76.1 4.500 × 3.000	300 2.07	146 5.748	200 7.874	52 2.047	M14*75
100 × 80 4 × 3	114.3 × 88.9 4.500 × 3.500	300 2.07	146 5.748	200 7.874	52 2.047	M14*75
150 × 100 6 1/2 × 4	165.1 × 114.3 6.500 × 4.500	300 2.07	197 7.756	255 10.039	51 2.008	M16*85
150 × 80 6 × 3	168.3 × 88.9 6.625 × 3.500	300 2.07	200 7.874	259 10.197	52 2.047	M16*85
150 × 100 6 × 4	168.3 × 114.3 6.625 × 4.500	300 2.07	200 7.874	259 10.197	52 2.047	M16*85
150 × 125 6 × 5 1/2OD	168.3 × 141.3 6.625 × 5.500	300 2.07	210 8.268	259 10.197	53 2.087	M16*85
150 × 150 6 × 6 1/2 OD	168.3 × 165.1 6.625 × 6.500	300 2.07	200 7.874	259 10.197	52 2.047	M16*85
200 × 150 8 × 6	219.1 × 168.3 8.625 × 6.625	300 2.07	258 10.157	335 13.189	62 2.441	M20*110

XGQT10
11.25° Elbow



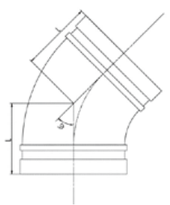
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
65 3OD	76.1 3	300 2.07	38 1.496
80 3	88.9 3.5	300 2.07	38 1.496
100 4	114.3 4.5	300 2.07	45 1.772
125 5 1/2OD	139.7 5.5	300 2.07	51 2.008
150 6 1/2 OD	165.1 6.5	300 2.07	51 2.008
200 8	219.1 8.625	300 2.07	51 2.008

XGQT16
22.5° Elbow



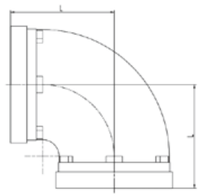
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
32 1 1/4	42.4 1.66	300 2.07	45 1.772
40 1 1/2	48.3 1.9	300 2.07	45 1.772
50 2	60.3 2.375	300 2.07	51 2.008
65 2 1/2	73 2.875	300 2.07	51 2.008
65 3OD	76.1 3	300 2.07	51 2.008
80 3	88.9 3.5	300 2.07	57 2.244
100 4	114.3 4.5	300 2.07	73 2.874
125 5 1/2OD	139.7 5.5	300 2.07	73 2.874
150 6 1/2OD	165.1 6.5	300 2.07	79 3.110
150 6	168.3 6.625	300 2.07	79 3.110
200 8	219.1 8.625	300 2.07	98 3.858

XGQT02
45° Elbow



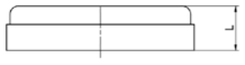
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
25 1	33.7 1.315	300 2.07	44 1.732
32 1 1/4	42.4 1.66	300 2.07	45 1.772
40 1 1/2	48.3 1.9	300 2.07	45 1.772
50 2	60.3 2.375	300 2.07	51 2.008
65 2 1/2	73 2.875	300 2.07	57 2.244
65 3OD	76.1 3	300 2.07	57 2.244
80 3	88.9 3.5	300 2.07	64 2.520
100 4	114.3 4.5	300 2.07	76 2.992
125 5 1/2OD	139.7 5.5	300 2.07	83 3.268
150 6 1/2 OD	165.1 6.5	300 2.07	89 3.504
150 6	168.3 6.625	300 2.07	89 3.504
200 8	219.1 8.625	300 2.07	98 3.858
250 10	273 10.75	300 2.07	92 3.622
300 12	323.9 12.75	300 2.07	125 4.921

XGQT01
90° Elbow



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in	
			Standard	Short
25 1	33.7 1.315	300 2.07	57 2.244	57 2.244
32 1 1/4	42.4 1.66	300 2.07	70 2.756	70 2.756
40 1 1/2	48.3 1.9	300 2.07	70 2.756	60 2.362
50 2	60.3 2.375	300 2.07	83 3.268	70 2.756
65 2 1/2	73 2.875	300 2.07	95 3.740	76 2.992
65 3OD	76.1 3	300 2.07	95 3.740	76 2.992
80 3	88.9 3.5	300 2.07	108 4.252	86 3.386
100 4	114.3 4.5	300 2.07	127 5.000	102 4.016
125 5 1/2OD	139.7 5.5	300 2.07	140 5.512	122 4.803
150 6 1/2 OD	165.1 6.5	300 2.07	165 6.496	139 5.472
150 6	168.3 6.625	300 2.07	165 6.496	140 5.512
200 8	219.1 8.625	300 2.07	197 7.756	163 6.417
250 10	273 10.75	300 2.07	229 9.016	190 7.480
300 12	323.9 12.75	300 2.07	254 10.000	220 8.661

XGQT09
Cap

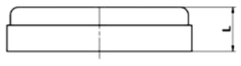


Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
25 1	33.7 1.315	300 2.07	24 0.945
32 1 1/4	42.4 1.66	300 2.07	24 0.945
40 1 1/2	48.3 1.9	300 2.07	24 0.945
50 2	60.3 2.375	300 2.07	24 0.945
65 2 1/2	73 2.875	300 2.07	24 0.945
65 3OD	76.1 3	300 2.07	24 0.945
80 3	88.9 3.5	300 2.07	24 0.945
100 4 1/4 OD	108 4.25	300 2.07	27 1.063
100 4	114.3 4.5	300 2.07	27 1.063
125 5 1/2OD	139.7 5.5	300 2.07	27 1.063
150 6 1/2 OD	165.1 6.5	300 2.07	27 1.063
150 6	168.3 6.625	300 2.07	27 1.063
200 8	219.1 8.625	300 2.07	30 1.181
250 10	273 10.75	300 2.07	32 1.260
300 12	323.9 12.75	300 2.07	32 1.260

XGQT06S
Cap with Concentric Hole

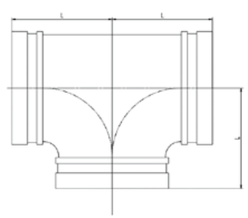
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
50 × 25 2 × 1	60.3 × 33.7 2.375 × 1.315	300 2.07	33 1.299
80 × 15 3 × 1/2	88.9 × 21.3 3.5 × 0.83	300 2.07	24 0.945
100 × 25 4 × 1	114.3 × 33.7 4.5 × 1.315	300 2.07	25 0.984
150 × 25 6 1/2 OD × 1	165.1 × 33.7 6.5 × 1.315	300 2.07	25 0.984

XGQT05S
Cap with Eccentric Hole



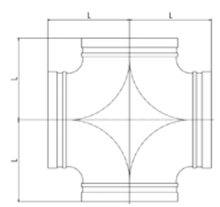
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
65 × 25 2 1/2 × 1	73 × 33.7 2.875 × 1.315	300 2.07	24 0.945
65 × 25 3OD × 1	76.1 × 33.7 3 × 1.315	300 2.07	24 0.945
80 × 25 3 × 1	88.9 × 33.7 3.5 × 1.315	300 2.07	24 0.945
100 × 25 4 × 1	114.3 × 33.7 4.5 × 1.315	300 2.07	25 0.984

XGQT03
Equal Tee



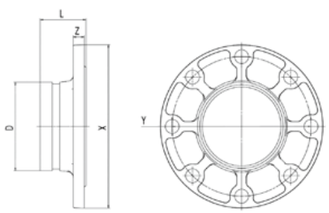
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in	
			Standard	Short
25 1	33.7 1.315	300 2.07	57 2.244	57 2.244
32 $1^1/_4$	42.4 1.66	300 2.07	70 2.756	60 2.362
40 $1^1/_2$	48.3 1.9	300 2.07	70 2.756	60 2.362
50 2	60.3 2.375	300 2.07	83 3.268	70 2.756
65 $2^1/_2$	73 2.875	300 2.07	95 3.740	76 2.992
65 3OD	76.1 3	300 2.07	95 3.740	76 2.992
80 3	88.9 3.5	300 2.07	108 4.252	86 3.386
100 4	114.3 4.5	300 2.07	127 5.000	102 4.016
125 $5^1/_2$OD	139.7 5.5	300 2.07	140 5.512	122 4.803
150 $6^1/_2$ OD	165.1 6.5	300 2.07	165 6.496	140 5.512
150 6	168.3 6.625	300 2.07	165 6.496	140 5.512
200 8	219.1 8.625	300 2.07	197 7.756	163 6.417
250 10	273 10.75	300 2.07	190 7.480	190 7.480
300 12	323.9 12.75	300 2.07	220 8.661	220 8.661

XGQT14
Equal Cross



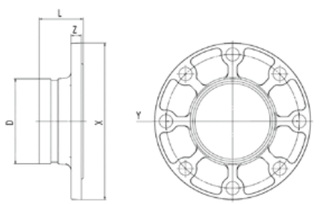
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
32 $1^1/_4$	42.4 1.66	300 2.07	60 2.362
40 $1^1/_2$	48.3 1.9	300 2.07	60 2.362
50 2	60.3 2.375	300 2.07	70 2.756
65 $2^1/_2$	73 2.875	300 2.07	76 2.992
65 3OD	76.1 3	300 2.07	76 2.992
80 3	88.9 3.5	300 2.07	86 3.386
100 4	114.3 4.5	300 2.07	102 4.016
125 $5^1/_2$OD	139.7 5.5	300 2.07	122 4.803
150 $6^1/_2$ OD	165.1 6.5	300 2.07	140 5.512
150 6	168.3 6.625	300 2.07	140 5.512
200 8	219.1 8.625	300 2.07	175 6.890
250 10	273 10.75	300 2.07	215 8.465
300 12	323.9 12.75	300 2.07	245 9646

XGQT08
Adaptor Flange
Class150



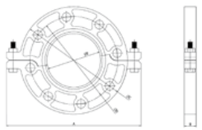
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension				Bolt/Nut
			L	X	Y	Z	
			mm/in	mm/in	mm/in	mm/in	
50 2	60.3 2.375	300 2.07	65 2.559	155 6.102	121 4.764	16 0.630	4–M16
65 $2^1/_2$	73 2.875	300 2.07	65 2.559	180 7.087	140 5.512	16 0.630	4–M16
80 3	88.9 3.5	300 2.07	65 2.559	190 7.480	153 6.024	16 0.630	8–M16
100 4	114.3 4.5	300 2.07	70 2.756	230 9.055	191 7.520	17 0.669	8–M16
125 5	141.3 5.563	300 2.07	70 2.756	257 10.118	216 8.504	18 0.630	8–M16
150 6	168.3 6.625	300 2.07	70 2.756	285 11.220	241 9.488	19 0.748	8–M20
200 8	219.1 8.625	300 2.07	76 2.992	345 13.583	299 11.772	19 0.748	8–M20
250 10	273 10.75	300 2.07	85 3.346	406 15.984	362 14.252	21 0.827	12–M24
300 12	323.9 12.75	300 2.07	90 3.543	485 19.094	432 17.008	25 0.984	12–M24

XGQT08
Adaptor Flange
PN16



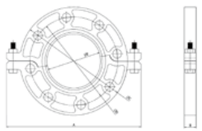
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension				Bolt/Nut
			L	X	Y	Z	
			mm/in	mm/in	mm/in	mm/in	
50 2	60.3 2.375	232 1.6	67 2.638	164 6.457	125 4.921	17 0.669	4–M16
65 $2^1/_2$	73 2.875	232 1.6	65 2.559	184 7.244	145 5.709	17 0.669	4–M16
65 3OD	76.1 3	232 1.6	65 2.559	184 7.244	145 5.709	16 0.630	4–M16
80 3	88.9 3.5	232 1.6	65 2.559	200 7.874	160 6.299	17 0.669	8–M16
100 $4^1/_4$OD	108 4.25	232 1.6	63 2.480	210 8.268	180 7.087	15 0.591	8–M16
100 4	114.3 4.5	232 1.6	70 2.756	219 8.622	180 7.087	17 0.669	8–M16
125 $5^1/_4$OD	133 5.25	232 1.6	70 2.756	250 9.843	210 8.268	18 0.709	8–M16
125 $5^1/_2$OD	139.7 5.5	232 1.6	70 2.756	250 9.843	210 8.268	18 0.709	8–M16
125 5	141.3 5.563	232 1.6	70 2.756	250 9.843	210 8.268	18 0.709	8–M16
150 $6^1/_4$ OD	159 6.25	232 1.6	70 2.756	285 11.220	240 9.449	18 0.709	8–M20
150 $6^1/_2$OD	165.1 6.5	232 1.6	70 2.756	286 11.260	240 9.449	18 0.709	8–M20
150 6	168.3 6.625	232 1.6	70 2.756	285 11.220	240 9.449	18 0.709	8–M20
200 8	219.1 8.625	232 1.6	80 3.150	341 13.425	295 11.614	19 0.748	12–M20
250 10	273 10.75	232 1.6	78 3.071	402 15.827	355 13.976	22 0.866	12–M24
300 12	323.9 12.75	232 1.6	90 3.543	450 17.717	410 16.142	25 0.984	12–M24

XGQT8
Flange Coupling (Grooved Flange)
Class150



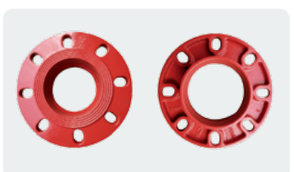
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension A	B	C	D	E	Bolt/Nut
			mm/in	mm/in	mm/in	mm/in	mm/in	
50 2	60.3 2.375	300 2.07	210 8.268	24 0.945	157 6.181	121 4.764	56.8 2.236	4–M16
65 $2^1/_2$	73 2.875	300 2.07	232 9.134	24 0.945	181 7.126	140 5.512	68.5 2.697	4–M16
80 3	88.9 3.5	300 2.07	248 9.764	24 0.945	192 7.559	152 5.984	84.8 3.339	4–M16
100 4	114.3 4.5	300 2.07	284 11.181	25 0.984	231 9.094	191 7.520	109.5 4.311	8–M16
125 5	141.3 5.563	300 2.07	321 12.638	25 0.984	255 10.039	216 8.504	137.2 5.402	8–M20
150 6	168.3 6.625	300 2.07	344 13.543	25 0.984	286 11.260	242 9.528	163.3 6.429	8–M20
200 8	219.1 8.625	300 2.07	404 15.906	30 1.181	342 13.465	298 11.732	214 8.425	8–M20

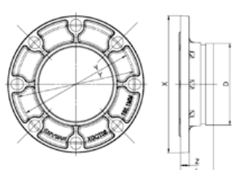
XGQT8
Flange Coupling (Grooved Flange)
PN16



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension A	B	C	D	E	Bolt/Nut
			mm/in	mm/in	mm/in	mm/in	mm/in	
50 2	60.3 2.375	232 1.6	210 8.268	24 0.945	166 6.535	125 4.921	56.8 2.236	4–M16
65 $2^1/_2$	73 2.875	232 1.6	232 9.134	24 0.945	181 7.126	145 5.709	68.5 2.697	4–M16
65 3OD	76.1 3	232 1.6	242 9.528	24 0.945	186 7.323	145 5.709	72 2.835	4–M16
80 3	88.9 3.5	232 1.6	256 10.079	24 0.945	200 7.874	160 6.299	84.8 3.339	8–M16
100 4	114.3 4.5	232 1.6	277 10.906	24 0.945	222 8.740	180 7.087	109.5 4.311	8–M16
125 $5^1/_2$OD	139.7 5.5	232 1.6	300 11.811	24 0.945	252 9.921	210 8.268	135.3 5.327	8–M16
125 5	141.3 5.563	232 1.6	325 12.795	24 0.945	254 10.000	210 8.268	136.7 5.382	8–M16
150 $6^1/_2$OD	165.1 6.5	232 1.6	350 13.780	25 0.984	285 11.220	240 9.449	160.3 6.311	8–M20
150 6	168.3 6.625	232 1.6	350 13.780	25 0.984	287 11.299	240 9.449	163.3 6.429	8–M20
200 8	219.1 8.625	232 1.6	418 16.457	30 1.181	342 13.465	295 11.614	214 8.425	12–M20

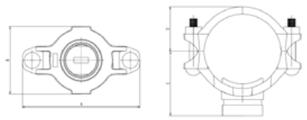
Universal Flange Adapter





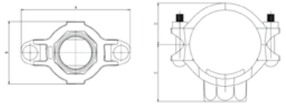
Nominal Size mm in	Pipe O.D mm in	Working Pressure PSI/MPa	L	X	Y: Flange Driling ANSI	PN	JIS	BS	Z	Bolt Size Dia	No.
			mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in
50 2	60.3 2.375	232 1.6	65 2.56	165 6.50	121 4.75	125 4.92	120 4.72	114 4.49	16 0.63	M16 $^5/_8$	4
65 2 1/2	73 2.875	232 1.6	65 2.56	185 7.28	140 5.50	145 5.70	140 5.50	127 5.00	16 0.63	M16 $^5/_8$	4
76.1 mm	76.1 3.000	232 1.6	65 2.56	185 7.28	140 5.50	145 5.70	140 5.50	127 5.00	16 0.63	M16 $^5/_8$	4
80 3	88.9 3.500	232 1.6	65 2.56	200 7.87	152 6.00	160 6.30	150 5.90	146 5.75	16 0.63	M16 $^5/_8$	4/8
100 4	114.3 4.500	232 1.6	70 2.76	225 8.86	191 7.50	180 7.09	175 6.89	178 7.00	16 0.63	M16 $^5/_8$	8
139.7 mm	139.7 5.500	232 1.6	70 2.76	254.00 10.00	216 8.50	210 8.27	210 8.27	210.00 8.27	16 0.63	M16/M20 $^5/_8$ / $^3/_4$	8
125 5	141.3 5.563	232 1.6	70 2.76	254.00 10.00	216 8.50	210 8.27	210 8.27		22 0.87	M16/M20 $^5/_8$ / $^3/_4$	8
165.1 mm	165.1 6.500	232 1.6	70 2.76	275 10.83	241 9.50	240 9.45	240 9.45	235 9.30	18 0.87	M20 $^3/_4$	8
150 6	168.3 6.625	232 1.6	70 2.76	276 10.86	241 9.50	240 9.45	240 9.45		22 0.87	M20 $^3/_4$	8
200 8	219.1 8.625	232 1.6	80 3.15	343 13.50	298 11.75	295 11.61	290 11.42	292 11.50	22 0.87	M20 $^3/_4$	8/12

XGQT3
Mechanical Tee
Grooved Outlet



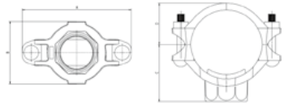
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Hole Dia mm/in +1.6,0/ +0.063,0	Dimension A	B	C	D	Bolt/Nut
				mm/in	mm/in	mm/in	mm/in	
50 × 25 2 × 1	60.3 × 33.7 2.375 × 1.315	300 2.07	38 1.496	114 4.488	69 2.717	58 2.283	38 1.496	10*60
50 × 32 2 × $1^1/_4$	60.3 × 42.4 2.375 × 1.660	300 2.07	46 1.811	114 4.488	77 3.031	66 2.598	38 1.496	10*60
50 × 40 2 × $1^1/_2$	60.3 × 48.3 2.375 × 1.900	300 2.07	46 1.811	114 4.488	77 3.031	60 2.362	38 1.496	10*60
65 × 25 $2^1/_2$ × 1	73.0 × 33.7 2.875 × 1.315	300 2.07	38 1.496	126 4.961	70 2.756	74 2.913	46 1.811	10*65
65 × 32 $2^1/_2$ × $1^1/_4$	73.0 × 42.4 2.875 × 1.660	300 2.07	46 1.811	126 4.961	77 3.031	74 2.913	46 1.811	10*65
65 × 40 $2^1/_2$ × $1^1/_2$	73.0 × 48.3 2.875 × 1.900	300 2.07	46 1.811	127 5.000	78 3.071	74 2.913	46 1.811	10*65
65 × 25 3OD × 1	76.1 × 33.7 3.000 × 1.315	300 2.07	38 1.496	130 5.118	69 2.717	74 2.913	47 1.850	10*65
65 × 32 3OD × $1^1/_4$	76.1 × 42.4 3.000 × 1.660	300 2.07	46 1.811	130 5.118	77 3.031	74 2.913	47 1.850	10*65
65 × 40 3OD × $1^1/_2$	76.1 × 48.3 3.000 × 1.900	300 2.07	46 1.811	130 5.118	77 3.031	74 2.913	47 1.850	10*65
80 × 25 3 × 1	88.9 × 33.7 3.500 × 1.315	300 2.07	38 1.496	147 5.787	73 2.874	74 2.913	54 2.126	12*75
80 × 32 3 × $1^1/_4$	88.9 × 42.4 3.500 × 1.660	300 2.07	51 2.008	147 5.787	87 3.425	82 3.228	54 2.126	12*75
80 × 40 3 × $1^1/_2$	88.9 × 48.3 3.500 × 1.900	300 2.07	51 2.008	147 5.787	87 3.425	82 3.228	54 2.126	12*75
80 × 50 3 × 2	88.9 × 60.3 3.500 × 2.375	300 2.07	64 2.520	147 5.787	100 3.937	82 3.228	54 2.126	12*75
100 × 25 4 × 1	114.3 × 33.7 4.500 × 1.315	300 2.07	38 1.496	177 6.969	73 2.874	96 3.780	67 2.638	12*75
100 × 32 4 × $1^1/_4$	114.3 × 42.4 4.500 × 1.660	300 2.07	51 2.008	177 6.969	87 3.425	96 3.780	67 2.638	12*75
100 × 40 4 × $1^1/_2$	114.3 × 48.3 4.500 × 1.900	300 2.07	51 2.008	177 6.969	87 3.425	96 3.780	67 2.638	12*75
100 × 50 4 × 2	114.3 × 60.3 4.500 × 2.375	300 2.07	64 2.520	177 6.969	102 4.016	96 3.780	67 2.638	12*75
125 × 50 $5^1/_2$OD × 2	139.7 × 60.3 5.500 × 2.375	300 2.07	61 2.402	211 8.307	102 4.016	108 4.252	79 3.110	16*100
125 × 65 $5^1/_2$OD × 3OD	139.7 × 76.1 5.500 × 3.000	300 2.07	81 3.189	211 8.307	110 4.331	108 4.252	79 3.110	16*100
125 × 80 $5^1/_2$OD × 3	139.7 × 88.9 5.500 × 3.500	300 2.07	89 3.504	211 8.307	130 5.118	108 4.252	79 3.110	16*100
150 × 25 $6^1/_2$OD × 1	165.1*33.7 6.500 × 1.315	300 2.07	38 1.496	237 9.331	75 2.953	111 4.370	91 3.583	16*110
150 × 32 $6^1/_2$OD × $1^1/_4$	165.1 × 42.4 6.500 × 1.660	300 2.07	51 2.008	237 9.331	89 3.504	111 4.370	91 3.583	16*110
150 × 40 $6^1/_2$OD × $1^1/_2$	165.1 × 48.3 6.500 × 1.900	300 2.07	51 2.008	237 9.331	89 3.504	111 4.370	91 3.583	16*110
150 × 50 $6^1/_2$OD × 2	165.1 × 60.3 6.500 × 2.375	300 2.07	64 2.520	237 9.331	103 4.055	117 4.606	91 3.583	16*110
150 × 65 $6^1/_2$OD × $2^1/_2$	165.1 × 73.0 6.500 × 2.875	300 2.07	70 2.756	237 9.331	111 4.370	123 4.843	91 3.583	16*110
150 × 65 $6^1/_2$OD × 3OD	165.1 × 76.1 6.500 × 3.000	300 2.07	70 2.756	237 9.331	111 4.370	123 4.843	91 3.583	16*110
150 × 80 $6^1/_2$OD × 3	165.1 × 88.9 6.500 × 3.500	300 2.07	89 3.504	237 9.331	131 5.157	123 4.843	91 3.583	16*110
150 × 100 $6^1/_2$OD × 4	165.1*114.3 6.500 × 4.500	300 2.07	114 4.488	237 9.331	160 6.299	123 4.843	91 3.583	16*110
150 × 25 6 × 1	168.3*33.7 6.500 × 1.315	300 2.07	38 1.496	239 9.409	76 2.992	123 4.843	93 3.661	16*110
150 × 32 6 × $1^1/_4$	168.3 × 42.4 6.625 × 1.660	300 2.07	51 2.008	239 9.409	89 3.504	111 4.370	93 3.661	16*110
150 × 40 6 × $1^1/_2$	168.3 × 48.3 6.625 × 1.900	300 2.07	51 2.008	239 9.409	89 3.504	123 4.843	93 3.661	16*110
150 × 50 6 × 2	168.3 × 60.3 6.625 × 2.375	300 2.07	64 2.520	239 9.409	103 4.055	122 4.803	93 3.661	16*110
150 × 65 6 × $2^1/_2$	168.3 × 73.0 6.625 × 2.875	300 2.07	70 2.756	239 9.409	111 4.370	122 4.803	93 3.661	16*110
150 × 65 6 × 3OD	168.3 × 76.1 6.625 × 3.000	300 2.07	70 2.756	239 9.409	111 4.370	122 4.803	93 3.661	16*110
150 × 80 6 × 3	168.3 × 88.9 6.625 × 3.500	300 2.07	89 3.504	239 9.409	131 5.157	122 4.803	93 3.661	16*110
150 × 100 6 × 4	168.3*114.3 6.625 × 4.500	300 2.07	114 4.488	239 9.409	160 6.299	123 4.843	93 3.661	16*110
200 × 25 8 × 1	219.1*33.7 8.625 × 1.315	300 2.07	38 1.496	305 12.008	77 3.031	150 5.906	121 4.764	16*110
200 × 32 8 × $1^1/_4$	219.1*42.4 8.625 × 1.660	300 2.07	51 2.008	305 12.008	90 3.543	150 5.906	121 4.764	16*110
200 × 40 8 × $1^1/_2$	219.1*48.3 8.625 × 1.900	300 2.07	51 2.008	305 12.008	90 3.543	150 5.906	121 4.764	16*110
200 × 50 8 × 2	219.1*60.3 8.625 × 2.375	300 2.07	64 2.520	305 12.008	105 4.134	150 5.906	121 4.764	16*110
200 × 65 8 × $2^1/_2$	219.1*73 8.625 × 2.875	300 2.07	70 2.756	305 12.008	108 4.252	150 5.906	121 4.764	16*110
200 × 65 8 × 3OD	219.1*76.1 8.625 × 3.000	300 2.07	70 2.756	305 12.008	115 4.528	150 5.906	121 4.764	16*110
200 × 80 8 × 3	219.1*88.9 8.625 × 3.500	300 2.07	89 3.504	305 12.008	132 5.197	150 5.906	121 4.764	16*110
200 × 100 8 × 4	219.1*114.3 8.625 × 4.500	300 2.07	114 4.488	305 12.008	158 6.220	155 6.102	121 4.764	16*110

XGQT3S
Mechanical Tee
Threaded Outlet



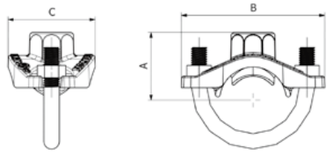
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Hole Dia mm/in +1.6,0/ +0.063,0	Dimension A mm/in	B mm/in	C mm/in	D mm/in	Bolt/Nut
32×25 1 1/4 x1	42.4×33.7 1.669×1.315	300 2.07	30 1.181	99 3.898	57 2.244	50 1.969	28 1.102	10*55
40×25 1 1/2×1	48.3×33.7 1.90×1.315	300 2.07	30 1.181	99.5 3.917	57 2.244	53 2.087	30 1.181	10*55
50×15 2×1/2	60.3×21.3 2.375×0.825	300 2.07	38 1.496	114 4.488	70 2.756	59 2.323	39 1.535	10*60
50×20 2×3/4	60.3×26.9 2.375×1.050	300 2.07	38 1.496	114 4.488	70 2.756	59 2.323	39 1.535	10*60
50×25 2×1	60.3×33.7 2.375×1.315	300 2.07	38 1.496	114 4.488	70 2.756	59 2.323	39 1.535	10*60
50×32 2×1 1/4	60.3×42.4 2.375×1.660	300 2.07	46 1.811	114 4.488	77 3.031	59 2.323	39 1.535	10*60
50×40 2×1 1/2	60.3×48.3 2.375×1.900	300 2.07	46 1.811	114 4.488	77 3.031	59 2.323	39 1.535	10*60
65×15 2 1/2×1/2	73.0×21.3 2.875×0.825	300 2.07	38 1.496	126 4.961	70 2.756	65 2.559	45 1.772	10*65
65×20 2 1/2×3/4	73.0×26.9 2.375×1.050	300 2.07	38 1.496	126 4.961	70 2.756	65 2.559	45 1.772	10*65
65×25 2 1/2×1	73.0×33.7 2.375×1.315	300 2.07	38 1.496	126 4.961	70 2.756	66 2.598	45 1.772	10*65
65×32 2 1/2×1 1/4	73.0×42.4 2.375×1.660	300 2.07	46 1.811	126 4.961	78 3.071	66 2.598	45 1.772	10*65
65×40 2 1/2×48.3	73.0×48.3 2.375×1.900	300 2.07	46 1.811	126 4.961	78 3.071	66 2.598	45 1.772	10*65
65×15 3OD×1/2	76.1×21.3 3.000×0.825	300 2.07	38 1.496	130 5.118	70 2.756	67 2.638	47 1.850	10*65
65×20 3OD×3/4	76.1×26.9 3.000×1.050	300 2.07	38 1.496	130 5.118	70 2.756	67 2.638	47 1.850	10*65
65×25 3OD×1	76.1×33.7 3.000×1.315	300 2.07	38 1.496	130 5.118	70 2.756	67 2.638	47 1.850	10*65
65×32 3OD×1 1/4	76.1×42.4 3.000×1.660	300 2.07	46 1.811	130 5.118	77 3.031	69 2.717	47 1.850	10*65
65×40 3OD×1 1/2	76.1×48.3 3.000×1.900	300 2.07	46 1.811	130 5.118	77 3.031	69 2.717	47 1.850	10*65
80×15 3×1/2	88.9×21.3 3.500×0.825	300 2.07	38 1.496	148 5.827	72 2.835	75 2.953	54 2.126	12*75
80×20 3×3/4	88.9×26.9 3.500×1.050	300 2.07	38 1.496	148 5.827	72 2.835	75 2.953	54 2.126	12*75
80×25 3×1	88.9×33.7 3.500×1.315	300 2.07	38 1.496	148 5.827	72 2.835	75 2.953	54 2.126	12*75
80×32 3×1 1/4	88.9×42.4 3.500×1.660	300 2.07	51 2.008	148 5.827	87 3.425	75 2.953	54 2.126	12*75
80×40 3×1 1/2	88.9×48.3 3.500×1.900	300 2.07	51 2.008	148 5.827	87 3.425	75 2.953	54 2.126	12*75
80×50 3×2	88.9×60.3 3.500×2.375	300 2.07	64 2.520	148 5.827	100 3.937	79 3.110	54 2.126	12*75
100×15 4×1/2	114.3×21.3 4.500×0.825	300 2.07	38 1.496	177 6.969	72 2.835	87 3.425	67 2.638	12*75
100×20 4×3/4	114.3×26.9 4.500×1.050	300 2.07	38 1.496	177 6.969	72 2.835	87 3.425	67 2.638	12*75
100×25 4×1	114.3×33.7 4.500×1.315	300 2.07	38 1.496	177 6.969	72 2.835	87 3.425	67 2.638	12*75
100×32 4×1 1/4	114.3×42.4 4.500×1.660	300 2.07	51 2.008	177 6.969	87 3.425	87 3.425	67 2.638	12*75
100×40 4×1 1/2	114.3×48.3 4.500×1.900	300 2.07	51 2.008	177 6.969	87 3.425	87 3.425	67 2.638	12*75
100×50 4×2	114.3×60.3 4.500×2.375	300 2.07	64 2.520	177 6.969	102 4.016	93 3.661	67 2.638	12*75
100×65 4×2 1/2	114.3×73.0 4.500×2.875	300 2.07	70 2.756	177 6.969	110 4.331	97 3.819	67 2.638	12*75
100×65 4×3OD	114.3×76.1 4.500×3.000	300 2.07	70 2.756	177 6.969	110 4.331	97 3.819	67 2.638	12*75
125×25 5 1/2OD×1	139.7×33.7 5.500×1.315	300 2.07	38 1.496	210 8.268	75 2.953	100 3.937	79 3.110	16*100
125×32 5 1/2OD×1 1/4	139.7×42.4 5.500×1.660	300 2.07	51 2.008	210 8.268	88 3.465	100 3.937	79 3.110	16*100
125×40 5 1/2OD×1 1/2	139.7×48.3 5.500×1.900	300 2.07	51 2.008	210 8.268	88 3.465	100 3.937	79 3.110	16*100
125×50 5 1/2OD×2	139.7×60.3 5.500×2.375	300 2.07	64 2.520	210 8.268	103 4.055	105 4.134	79 3.110	16*100
125×65 5 1/2OD×3OD	139.7×76.1 5.500×3.000	300 2.07	70 2.756	210 8.268	110 4.331	111 4.370	79 3.110	16*100
125×80 5 1/2OD×3	139.7×88.9 5.500×3.500	300 2.07	89 3.504	210 8.268	131 5.157	114 4.488	79 3.110	16*100
150×25 6 1/2OD×1	165.1×33.7 6.500×1.315	300 2.07	38 1.496	236 9.291	75 2.953	112 4.409	91 3.583	16*110
150×32 6 1/2 OD×1 1/4	165.1×42.4 6.500×1.660	300 2.07	51 2.008	236 9.291	89 3.504	112 4.409	91 3.583	16*110
150×40 6 1/2 OD×1 1/2	165.1×48.3 6.500×1.900	300 2.07	51 2.008	236 9.291	89 3.504	112 4.409	91 3.583	16*110

XGQT3S
Mechanical Tee
Threaded Outlet



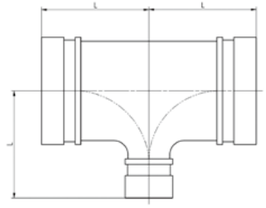
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Hole Dia mm/in +1.6,0/ +0.063,0	Dimension A mm/in	B mm/in	C mm/in	D mm/in	Bolt/Nut
150×50 6 1/2 OD×2	165.1×60.3 6.500×2.375	300 2.07	64 2.520	236 9.291	103 4.055	117 4.606	91 3.583	16*110
150×65 6 1/2 OD×2 1/2	165.1×73.0 6.500×2.875	300 2.07	70 2.756	236 9.291	111 4.370	122 4.803	91 3.583	16*110
150×65 6 1/2 OD×3OD	165.1×76.1 6.500×3.000	300 2.07	70 2.756	236 9.291	111 4.370	122 4.803	91 3.583	16*110
150×80 6 1/2 OD×3	165.1×88.9 6.500×3.500	300 2.07	89 3.504	236 9.291	131 5.157	123 4.843	91 3.583	16*110
150×100 6 1/2 OD×4	165.1*114.3 6.500×5.563	300 2.07	114 4.488	236 9.291	160 6.299	123 4.843	91 3.583	16*110
150×25 6×1	168.3×33.7 6.625×1.315	300 2.07	38 1.496	239 9.409	76 2.992	120 4.724	93 3.661	16*110
150×32 6×1 1/4	168.3×42.4 6.625×1.660	300 2.07	51 2.008	239 9.409	89 3.504	120 4.724	93 3.661	16*110
150×40 6×1 1/2	168.3×48.3 6.625×1.900	300 2.07	51 2.008	239 9.409	89 3.504	120 4.724	93 3.661	16*110
150×50 6×2	168.3×60.3 6.625×2.375	300 2.07	64 2.520	239 9.409	103 4.055	120 4.724	93 3.661	16*110
150×65 6×2 1/2	168.3×73 6.625×2.875	300 2.07	70 2.756	239 9.409	111 4.370	125 4.921	93 3.661	16*110
150×65 6×3OD	168.3×76.1 6.625×3.000	300 2.07	70 2.756	239 9.409	111 4.370	125 4.921	93 3.661	16*110
150×80 6×3	168.3×88.9 6.625×3.500	300 2.07	89 3.504	239 9.409	131 5.157	125 4.921	93 3.661	16*110
150×100 6×4	168.3*114.3 6.625×4.500	300 2.07	114 4.488	239 9.409	160 6.299	125 4.921	93 3.661	16*110
200×25 8×1	219.1*33.7 8.625×1.315	300 2.07	38 1.496	303 11.929	81 3.189	148 5.827	121 4.764	16*110
200×32 8×1 1/4	219.1*42.4 8.625×1.660	300 2.07	51 2.008	303 11.929	93 3.661	148 5.827	121 4.764	16*110
200×40 8×1 1/2	219.1*48.3 8.625×1.900	300 2.07	51 2.008	303 11.929	93 3.661	148 5.827	121 4.764	16*110
200×50 8×2	219.1*60.3 8.625×2.375	300 2.07	64 2.520	303 11.929	110 4.331	148 5.827	121 4.764	16*110
200×65 8×2 1/2	219.1*73 8.625×2.875	300 2.07	70 2.756	303 11.929	118 4.646	155 6.102	121 4.764	16*110
200×65 8×3OD	219.1*76.1 8.625×3.000	300 2.07	70 2.756	303 11.929	118 4.646	155 6.102	121 4.764	16*110
200×80 8×3	219.1*88.9 8.625×3.500	300 2.07	89 3.504	303 11.929	138 5.433	155 6.102	121 4.764	16*110
200×100 8×4	219.1*114.3 8.625×4.500	300 2.07	114 4.488	303 11.929	165 6.496	155 6.102	121 4.764	16*110

XGQT3U
U-Bolts Mechanical Tee



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Hole Dia mm/in +1.6,0/ +0.063,0	Dimension A mm/in	B mm/in	C mm/in	Bolt/Nut
25×15 1×1/2	33.7×21.3 1.33×0.83	300 2.07	30 1.181	39 1.535	84 3.307	49 1.929	10*60
25×20 1×3/4	33.7×26.9 1.33×1.05	300 2.07	30 1.181	42 1.654	84 3.307	49 1.929	10*60
32×15 1 1/4×1/2	42.4×21.3 1.66×0.83	300 2.07	30 1.181	42 1.654	93 3.661	58 2.283	10*68
32×20 1 1/4×3/4	42.4×26.9 1.66×1.05	300 2.07	30 1.181	45 1.772	93 3.661	58 2.283	10*68
32×25 1 1/4×1	42.4×33.7 1.66×1.32	300 2.07	30 1.181	49 1.929	93 3.661	58 2.283	10*68
40×15 1 1/2×1/2	48.3×21.3 1.90×0.83	300 2.07	30 1.181	39 1.535	93 3.661	58 2.283	10*68
40×20 1 1/2×3/4	48.3×26.9 1.90×1.05	300 2.07	30 1.181	42 1.654	93 3.661	58 2.283	10*68
40×25 1 1/2×1	48.3×33.7 1.90×1.32	300 2.07	30 1.181	46 1.811	93 3.661	58 2.283	10*68
50×15 2×1/2	60.3×21.3 2.38×0.83	300 2.07	30 1.181	36 1.417	98 3.858	58 2.283	10*83
50×20 2×3/4	60.3×26.9 2.38×1.05	300 2.07	30 1.181	39 1.535	98 3.858	58 2.283	10*83
50×25 2×1	60.3×33.7 2.38×1.32	300 2.07	30 1.181	43 1.693	98 3.858	58 2.283	10*83
65×15 2 1/2×1/2	73.0×21.3 2.88×0.83	300 2.07	30 1.181	36 1.417	112 4.409	58 2.283	10*96
65×20 2 1/2×3/4	73.0×26.9 2.88×1.05	300 2.07	30 1.181	40 1.575	113 4.449	58 2.283	10*96
65×25 2 1/2×1	73.0×33.7 2.88×1.32	300 2.07	30 1.181	44 1.732	113 4.449	58 2.283	10*96
65×15 3OD×1/2	76.1×21.3 3.0×0.83	300 2.07	30 1.181	36 1.417	113 4.449	58 2.283	10*96
65×20 3OD×3/4	76.1×26.9 3.0×1.05	300 2.07	30 1.181	40 1.575	113 4.449	58 2.283	10*96
65×25 3OD×1	76.1×33.7 3.0×1.32	300 2.07	30 1.181	43 1.693	113 4.449	58 2.283	10*96
80×25 3×1	88.9×33.7 3.50×1.32	300 2.07	30 1.181	43 1.693	126 4.961	59 2.323	10*115

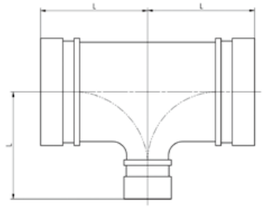
XGQT13
Grooved Reducing Tee



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension n L mm/in
32×25 1¼×1	42.4×33.7 1.660×1.315	300 2.07	60 2.362
40×25 1½×1	48.3×33.7 1.900×1.315	300 2.07	60 2.362
40×32 1½×1¼	48.3×42.4 1.900×1.660	300 2.07	60 2.362
50×25 2×1	60.3×33.7 2.375×1.315	300 2.07	70 2.756
50×32 2×1¼	60.3×42.4 2.375×1.660	300 2.07	70 2.756
50×40 2×1½	60.3×48.3 2.375×1.900	300 2.07	70 2.756
65×25 2½×1	73.0×33.7 2.875×1.315	300 2.07	76 2.992
65×32 2½×1¼	73.0×42.4 2.875×1.660	300 2.07	76 2.992
65×40 2½×1½	73.0×48.3 2.875×1.900	300 2.07	76 2.992
65×50 2½×2	73.0×60.3 2.875×2.375	300 2.07	76 2.992
65×25 3OD×1	76.1×33.7 3.000×1.315	300 2.07	76 2.992
65×32 3OD×1¼	76.1×42.4 3.000×1.660	300 2.07	76 2.992
65×40 3OD×1½	76.1×48.3 3.000×1.900	300 2.07	76 2.992
65×50 3OD×2	76.1×60.3 3.000×2.375	300 2.07	76 2.992
80×25 3×1	88.9×33.7 3.500×1.315	300 2.07	86 3.386
80×32 3×1¼	88.9×42.4 3.500×1.660	300 2.07	86 3.386
80×40 3×1½	88.9×48.3 3.500×1.900	300 2.07	86 3.386
80×50 3×2	88.9×60.3 3.500×2.375	300 2.07	86 3.386
80×65 3×2½	88.9×73.0 3.500×2.875	300 2.07	86 3.386
80×65 3×3OD	88.9×76.1 3.500×3.000	300 2.07	86 3.386
100×25 4¼OD×1	108.0×33.7 4.250×1.315	300 2.07	102 4.016
100×32 4¼OD×1¼	108.0×42.4 4.250×1.660	300 2.07	102 4.016
100×40 4¼OD×1½	108.0×48.3 4.250×1.900	300 2.07	102 4.016
100×50 4¼OD×2	108.0×60.3 4.250×2.375	300 2.07	102 4.016
100×65 4¼OD×2½	108.0×73.0 4.250×2.875	300 2.07	102 4.016
100×65 4¼OD×3OD	108.0×76.1 4.250×3.000	300 2.07	102 4.016
100×80 4¼OD×3	108.0×88.9 4.250×3.500	300 2.07	102 4.016
100×25 4×1	114.3×33.7 4.500×1.315	300 2.07	102 4.016
100×32 4×1¼	114.3×42.4 4.500×1.660	300 2.07	102 4.016
100×40 4×1½	114.3×48.3 4.500×1.900	300 2.07	102 4.016
100×50 4×2	114.3×60.3 4.500×2.375	300 2.07	102 4.016
100×65 4×2½	114.3×73.0 4.500×2.875	300 2.07	102 4.016
100×65 4×3OD	114.3×76.1 4.500×3.000	300 2.07	102 4.016
100×80 4×3	114.3×88.9 4.500×3.500	300 2.07	102 4.016

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension n L mm/in
125×25 5½OD×1	139.7×33.7 5.500×1.315	300 2.07	108 4.252
125×32 5½OD×1¼	139.7×42.4 5.500×1.660	300 2.07	108 4.252
125×40 5½OD×1½	139.7×48.3 5.500×1.900	300 2.07	108 4.252
125×50 5½OD×2	139.7×60.3 5.500×2.375	300 2.07	108 4.252
125×65 5½OD×2½	139.7×73.0 5.500×2.875	300 2.07	108 4.252
125×65 5½OD×3OD	139.7×76.1 5.500×3.000	300 2.07	108 4.252
125×80 5½OD×3	139.7×88.9 5.500×3.500	300 2.07	108 4.252
125×100 5½OD×4¼OD	139.7×108.0 5.500×4.250	300 2.07	108 4.252
125×100 5½OD×4	139.7×114.3 5.500×4.500	300 2.07	108 4.252
125×25 5×1	141.3×33.7 5.563×1.315	300 2.07	108 4.252
125×32 5×1¼	141.3×42.4 5.563×1.660	300 2.07	108 4.252
125×40 5×1½	141.3×48.3 5.563×1.900	300 2.07	108 4.252
125×50 5×2	141.3×60.3 5.563×2.375	300 2.07	108 4.252
125×65 5×2½	141.3×73.0 5.563×2.875	300 2.07	108 4.252
125×65 5×3OD	141.3×76.1 5.563×3.000	300 2.07	108 4.252
125×80 5×3	141.3×88.9 5.563×3.500	300 2.07	108 4.252
125×100 5×4¼ OD	141.3×108.0 5.563×4.250	300 2.07	108 4.252
125×100 5×4	141.3×114.3 5.563×4.500	300 2.07	108 4.252
125×125 5×5¼ OD	141.3×133.0 5.563×5.250	300 2.07	108 4.252
150×25 6½ OD×1	159.0×33.7 6.250×1.315	300 2.07	120 4.724
150×32 6¼ OD×1¼	159.0×42.4 6.250×1.660	300 2.07	120 4.724
150×40 6¼ OD×1½	159.0×48.3 6.250×1.900	300 2.07	120 4.724
150×50 6¼OD×2	159.0×60.3 6.250×2.375	300 2.07	120 4.724
150×65 6¼OD×2½	159.0×73.0 6.250×2.875	300 2.07	120 4.724
150×65 6¼OD×3OD	159.0×76.1 6.250×3.000	300 2.07	120 4.724
150×80 6¼OD×3	159.0×88.9 6.250×3.500	300 2.07	120 4.724
150×100 6¼OD×4¼OD	159.0×108.0 6.250×4.250	300 2.07	120 4.724
150×100 6¼D×4	159.0×114.3 6.250×4.500	300 2.07	120 4.724
150×125 6¼OD×5¼ OD	159.0×133.0 6.250×5.250	300 2.07	120 4.724
150×125 6¼ OD×5½OD	159.0×139.7 6.250×5.500	300 2.07	120 4.724
150×125 6¼OD×5	159.0×141.3 6.250×5.563	300 2.07	120 4.724
150×25 6½OD×1	165.1×33.7 6.500×1.315	300 2.07	140 5.512
150×32 6½OD×1¼	165.1×42.4 6.500×1.660	300 2.07	140 5.512
150×40 6½OD×1½	165.1×48.3 6.500×1.900	300 2.07	140 5.512

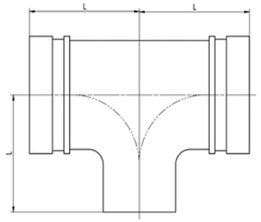
XGQT13
Grooved Reducing Tee



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension n L mm/in
150×50 6½OD×2	165.1×60.3 6.500×2.375	300 2.07	140 5.512
150×65 6½OD×2½	165.1×73.0 6.500×2.875	300 2.07	140 5.512
150×65 6½OD×3OD	165.1×76.1 6.500×3.000	300 2.07	140 5.512
150×80 6½OD×3	165.1×88.9 6.500×3.500	300 2.07	140 5.512
150×100 6½OD×4¼ OD	165.1×108.0 6.500×4.250	300 2.07	140 5.512
150×100 6½OD×4	165.1×114.3 6.500×4.500	300 2.07	140 5.512
150×125 6½OD×5¼ OD	165.1×133.0 6.500×5.250	300 2.07	140 5.512
150×125 6½ OD×5½OD	165.1×139.7 6.500×5.500	300 2.07	140 5.512
150×125 6½OD×5	165.1×141.3 6.500×5.563	300 2.07	140 5.512
150×25 6×1	168.3×33.7 6.625×1.315	300 2.07	140 5.512
150×32 6×1¼	168.3×42.4 6.625×1.660	300 2.07	140 5.512
150×40 6×1½	168.3×48.3 6.625×1.900	300 2.07	140 5.512
150×50 6×2	168.3×60.3 6.625×2.375	300 2.07	140 5.512
150×65 6×2½	168.3×73.0 6.625×2.875	300 2.07	140 5.512
150×65 6×3OD	168.3×76.1 6.625×3.000	300 2.07	140 5.512
150×80 6×3	168.3×88.9 6.625×3.500	300 2.07	140 5.512
150×100 6×4¼OD	168.3×108.0 6.625×4.250	300 2.07	140 5.512
150×100 6×4	168.3×114.3 6.625×4.500	300 2.07	140 5.512
150×125 6×5¼OD	168.3×133.0 6.625×5.250	300 2.07	140 5.512
150×125 6×5½OD	168.3×139.7 6.625×5.500	300 2.07	140 5.512
150×125 6×5	168.3×141.3 6.625×5.563	300 2.07	140 5.512
200×25 8×1	219.1×33.7 8.625×1.315	300 2.07	150 5.906
200×32 8×1¼	219.1×42.4 8.625×1.660	300 2.07	150 5.906
200×40 8×1½	219.1×48.3 8.625×1.900	300 2.07	150 5.906
200×50 8×2	219.1×60.3 8.625×2.375	300 2.07	150 5.906
200×65 8×2½	219.1×73.0 8.625×2.875	300 2.07	150 5.906
200×65 8×3OD	219.1×76.1 8.625×3.000	300 2.07	150 5.906
200×80 8×3	219.1×88.9 8.625×3.500	300 2.07	150 5.906
200×100 8×4¼OD	219.1×108.0 8.625×4.250	300 2.07	150 5.906
200×100 8×4	219.1×114.3 8.625×4.500	300 2.07	150 5.906
200×125 8×5¼OD	219.1×133.0 8.625×5.250	300 2.07	150 5.906
200×125 8×5½OD	219.1×139.7 8.625×5.500	300 2.07	150 5.906
200×125 8×5	219.1×141.3 8.625×5.563	300 2.07	150 5.906
200×150 8×6	219.1×159.0 8.625×6.250	300 2.07	150 5.906

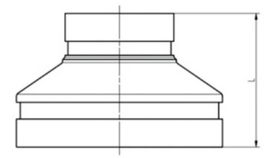
Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension n L mm/in
200×150 8×6½OD	219.1×165.1 8.625×6.500	300 2.07	150 5.906
200×150 8×6	219.1×168.3 8.625×6.625	300 2.07	150 5.906
250×25 10×1	273.0×33.7 10.750×1.315	300 2.07	166 6.535
250×32 10×1¼	273.0×42.4 10.750×1.660	300 2.07	166 6.535
250×40 10×1½	273.0×48.3 10.750×1.900	300 2.07	166 6.535
250×50 10×2	273.0×60.3 10.750×2.375	300 2.07	166 6.535
250×65 10×2½	273.0×73.0 10.750×2.875	300 2.07	166 6.535
250×65 10×3OD	273.0×76.1 10.750×3.000	300 2.07	166 6.535
250×80 10×3	273.0×88.9 10.750×3.500	300 2.07	166 6.535
250×100 10×4¼OD	273.0×108.0 10.750×4.250	300 2.07	166 6.535
250×100 10×4	273.0×114.3 10.750×4.500	300 2.07	166 6.535
250×125 10×5¼OD	273.0×133.0 10.750×5.250	300 2.07	166 6.535
250×125 10×5½OD	273.0×139.7 10.750×5.500	300 2.07	166 6.535
250×125 10×5	273.0×141.3 10.750×5.563	300 2.07	166 6.535
250×150 10×6¼OD	273.0×159.0 10.750×6.250	300 2.07	166 6.535
250×150 10×6½OD	273.0×165.1 10.750×6.500	300 2.07	166 6.535
250×150 10×6	273.0×168.3 10.750×6.625	300 2.07	166 6.535
250×200 10×8	273.0×219.1 10.750×8.625	300 2.07	166 6.535
300×25 12×1	323.9×33.7 12.750×1.315	300 2.07	220 8.661
300×32 12×1¼	323.9×42.4 12.750×1.660	300 2.07	220 8.661
300×40 12×1½	323.9×48.3 12.750×1.900	300 2.07	220 8.661
300×50 12×2	323.9×60.3 12.750×2.375	300 2.07	220 8.661
300×65 12×2½	323.9×73.0 12.750×2.875	300 2.07	220 8.661
300×65 12×3OD	323.9×76.1 12.750×3.000	300 2.07	220 8.661
300×80 12×3	323.9×88.9 12.750×3..500	300 2.07	220 8.661
300×100 12×4¼OD	323.9×108.0 12.750×4.250	300 2.07	220 8.661
300×100 12×4	323.9×114.3 12.750×4.500	300 2.07	220 8.661
300×125 12×5¼OD	323.9×133.0 12.750×5.250	300 2.07	220 8.661
300×125 12×5½OD	323.9×139.7 12.750×5.500	300 2.07	220 8.661
300×125 12×5	323.9×141.3 12.750×5.563	300 2.07	220 8.661
300×150 12×6¼OD	323.9×159.0 12.750×6.250	300 2.07	220 8.661
300×125 12×6½OD	323.9×165.1 12.750×6.500	300 2.07	220 8.661
300×125 12×6	323.9×168.3 12.750×6.625	300 2.07	220 8.661
300×150 12×8	323.9×219.1 12.750×8.625	300 2.07	220 8.661

XGQT13S
Threaded Reducing Tee



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension n L mm/in
40 × 32 1 1/2 × 1 1/4	48.3 × 42.4 1.900 × 1.660	300 2.07	60 2.362
50 × 25 2 × 1	60.3 × 33.7 2.375 × 1.315	300 2.07	70 2.756
50 × 32 2 × 1 1/4	60.3 × 42.4 2.375 × 1.660	300 2.07	70 2.756
50 × 40 2 × 1 1/2	60.3 × 48.3 2.375 × 1.900	300 2.07	70 2.756
65 × 25 2 1/2 × 1	73.0 × 33.7 2.875 × 1.315	300 2.07	76 2.992
65 × 32 2 1/2 × 1 1/4	73.0 × 42.4 2.875 × 1.660	300 2.07	76 2.992
65 × 40 2 1/2 × 1 1/2	73.0 × 48.3 2.875 × 1.900	300 2.07	76 2.992
65 × 50 2 1/2 × 2	73.0 × 60.3 2.875 × 2.375	300 2.07	76 2.992
65 × 25 3OD × 1	76.1 × 33.7 3.000 × 1.315	300 2.07	76 2.992
65 × 32 3OD × 1 1/4	76.1 × 42.4 3.000 × 1.660	300 2.07	76 2.992
65 × 40 3OD × 1 1/2	76.1 × 48.3 3.000 × 1.900	300 2.07	76 2.992
65 × 50 3OD × 2	76.1 × 60.3 3.000 × 2.375	300 2.07	76 2.992
80 × 25 3 × 1	88.9 × 33.7 3.500 × 1.315	300 2.07	86 3.386
80 × 32 3 × 1 1/4	88.9 × 42.4 3.500 × 1.660	300 2.07	86 3.386
80 × 40 3 × 1 1/2	88.9 × 48.3 3.500 × 1.900	300 2.07	86 3.386
80 × 50 3 × 2	88.9 × 60.3 3.500 × 2.375	300 2.07	86 3.386
80 × 65 3 × 2 1/2	88.9 × 73.0 3.500 × 2.875	300 2.07	86 3.386
80 × 65 3 × 3OD	88.9 × 76.1 3.500 × 3.000	300 2.07	86 3.386
100 × 25 4 1/4 OD × 1	108.0 × 33.7 4.250 × 1.315	300 2.07	102 4.016
100 × 32 4 1/4 OD × 1 1/4	108.0 × 42.4 4.250 × 1.660	300 2.07	102 4.016
100 × 40 4 1/4 OD × 1 1/2	108.0 × 48.3 4.250 × 1.900	300 2.07	102 4.016
100 × 50 4 1/4 OD × 2	108.0 × 60.3 4.250 × 2.375	300 2.07	102 4.016
100 × 65 4 1/4 OD × 2 1/2	108.0 × 73.0 4.250 × 2.875	300 2.07	102 4.016
100 × 65 4 1/4OD × 3OD	108.0 × 76.1 4.250 × 3.000	300 2.07	102 4.016
100 × 80 4 × 3	108.0 × 88.9 4.250 × 3.500	300 2.07	102 4.016
100 × 25 4 × 1	114.3 × 33.7 4.500 × 1.315	300 2.07	102 4.016
100 × 32 4 × 1 1/4	114.3 × 42.4 4.500 × 1.660	300 2.07	102 4.016
100 × 40 4 × 1 1/2	114.3 × 48.3 4.500 × 1.900	300 2.07	102 4.016
100 × 50 4 × 2	114.3 × 60.3 4.500 × 2.375	300 2.07	102 4.016
100 × 65 4 × 2 1/2	114.3 × 73.0 4.500 × 2.875	300 2.07	102 4.016
100 × 65 4 × 3OD	114.3 × 76.1 4.500 × 3.000	300 2.07	102 4.016
100 × 80 4 × 3	114.3 × 88.9 4.500 × 3.500	300 2.07	102 4.016
125 × 25 5 1/2OD × 1	139.7 × 33.7 5.500 × 1.315	300 2.07	108 4.252
125 × 32 5 1/2OD × 1 1/4	139.7 × 42.4 5.500 × 1.660	300 2.07	108 4.252
125 × 40 5 1/2OD × 1 1/2	139.7 × 48.3 5.500 × 1.900	300 2.07	108 4.252
125 × 50 5 1/2OD × 2	139.7 × 60.3 5.500 × 2.375	300 2.07	108 4.252
125 × 65 5 1/2OD × 2 1/2	139.7 × 73.0 5.500 × 2.875	300 2.07	108 4.252
125 × 65 5 1/2OD × 3OD	139.7 × 76.1 5.500 × 3.000	300 2.07	108 4.252
125 × 80 5 1/2OD × 3	139.7 × 88.9 5.500 × 3.500	300 2.07	108 4.252
125 × 100 5 1/2OD × 4	139.7 × 114.3 5.500 × 4.500	300 2.07	108 4.252
150 × 65 6 × 3OD	159.0 × 76.1 6.250 × 3.000	300 2.07	120 4.724
150 × 80 6 1/4OD × 3	159.0 × 88.9 6.250 × 3.500	300 2.07	120 4.724
150 × 100 6 1/4OD × 4	159.0 × 114.3 6.250 × 4.500	300 2.07	120 4.724
150 × 25 6 1/4OD × 1	165.1 × 33.7 6.500 × 1.315	300 2.07	110 4.331
150 × 32 6 1/4OD × 1 1/4	165.1 × 42.4 6.500 × 1.660	300 2.07	110 4.331
150 × 40 6 1/2OD × 1 1/2	165.1 × 48.3 6.500 × 1.900	300 2.07	120 4.724
150 × 50 6 1/2OD × 2	165.1 × 60.3 6.500 × 2.375	300 2.07	110 4.724
150 × 65 6 1/2OD × 2 1/2	165.1 × 73.0 6.500 × 2.875	300 2.07	120 4.724
150 × 65 6 1/2OD×3OD	165.1 × 76.1 6.500 × 3.000	300 2.07	120 4.724
150 × 80 6 1/4OD × 3	165.1 × 88.9 6.500 × 3.500	300 2.07	120 4.724
150 × 100 6 1/4OD × 4	165.1 × 114.3 6.500 × 4.500	300 2.07	120 4.724
150 × 25 6 × 1	168.3 × 33.7 6.625 × 1.315	300 2.07	120 4.724
150 × 32 6 × 1 1/4	168.3 × 42.4 6.625 × 1.660	300 2.07	120 4.724
150 × 40 6 × 1 1/2	168.3 × 48.3 6.625 × 1.900	300 2.07	120 4.724
150 × 50 6 × 2	168.3 × 60.3 6.625 × 2.375	300 2.07	120 4.724
150 × 65 6 × 2 1/2	168.3 × 73.0 6.625 × 2.875	300 2.07	120 4.724
150 × 65 6 × 3OD	168.3 × 76.1 6.625 × 3.000	300 2.07	120 4.724
150 × 80 6 × 3	168.3 × 88.9 6.625 × 3.500	300 2.07	120 4.724
150 × 100 6 × 4	168.3 × 114.3 6.625 × 4.500	300 2.07	120 4.724
200 × 65 8 × 3OD	219.1 × 76.1 8.625 × 3.000	300 2.07	135 5.315
200 × 80 8 × 3	219.1 × 88.9 8.625 × 3.500	300 2.07	135 5.315

XGQT07
Grooved
Concentric Reducer



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension n L mm/in
32 × 25 1 1/4 × 1	42.4 × 33.7 1.660 × 1.315	300 2.07	64 2.520
40 × 25 1 1/2 × 1	48.3 × 33.7 1.900 × 1.315	300 2.07	64 2.520
40 × 32 1 1/2 × 1 1/4	48.3 × 42.4 1.900 × 1.660	300 2.07	64 2.520
50 × 32 2 × 1 1/4	60.3 × 42.4 2.375 × 1.660	300 2.07	64 2.520
50 × 40 2 × 1 1/2	60.3 × 48.3 2.375 × 1.900	300 2.07	64 2.520
65 × 25 2 1/2 × 1	73.0 × 33.7 2.875 × 1.315	300 2.07	64 2.520
65 × 32 2 1/2 × 1 1/4	73.0 × 42.4 2.875 × 1.660	300 2.07	64 2.520
65 × 40 2 1/2 × 1 1/2	73.0 × 48.3 2.875 × 1.900	300 2.07	64 2.520
65 × 50 2 1/2 × 2	73.0 × 60.3 2.875 × 2.375	300 2.07	64 2.520
65 × 25 3OD × 1	76.1 × 33.7 3.000 × 1.315	300 2.07	64 2.520
65 × 32 3OD × 1 1/4	76.1 × 42.4 3.000 × 1.660	300 2.07	64 2.520
65 × 40 3OD × 1 1/2	76.1 × 48.3 3.000 × 1.900	300 2.07	64 2.520
65 × 50 3OD × 2	76.1 × 60.3 3.000 × 2.375	300 2.07	64 2.520
80 × 25 3 × 1	88.9 × 33.7 3.500 × 1.315	300 2.07	64 2.520
80 × 32 3 × 1 1/4	88.9 × 42.4 3.500 × 1.660	300 2.07	64 2.520
80 × 40 3 × 1 1/2	88.9 × 48.3 3.500 × 1.900	300 2.07	64 2.520
80 × 50 3 × 2	88.9 × 60.3 3.500 × 2.375	300 2.07	64 2.520
80 × 65 3 × 2 1/2	88.9 × 73.0 3.500 × 2.875	300 2.07	64 2.520
80 × 65 3 × 3OD	88.9 × 76.1 3.500 × 3.000	300 2.07	64 2.520
100 × 25 4 1/4OD × 1	108.0 × 33.7 4.250 × 1.315	300 2.07	76 2.992
100 × 32 4 1/4OD × 1 1/4	108.0 × 42.4 4.250 × 1.660	300 2.07	76 2.992
100 × 40 4 1/4OD × 1 1/2	108.0 × 48.3 4.250 × 1.900	300 2.07	76 2.992
100 × 50 4 1/4OD × 2	108.0 × 60.3 4.250 × 2.375	300 2.07	76 2.992
100 × 65 4 1/4OD × 2 1/2	108.0 × 73.0 4.250 × 2.875	300 2.07	76 2.992
100 × 65 4 1/4OD × 3OD	108.0 × 76.1 4.250 × 3.000	300 2.07	76 2.992
100 × 80 4 1/4OD × 3	108.0 × 88.9 4.250 × 3.500	300 2.07	76 2.992
100 × 25 4 × 1	114.3 × 33.7 4.500 × 1.315	300 2.07	78 3.071
100 × 32 4 × 1 1/4	114.3 × 42.4 4.500 × 1.660	300 2.07	78 3.071
100 × 40 4 × 1 1/2	114.3 × 48.3 4.500 × 1.900	300 2.07	78 3.071
100 × 50 4 × 2	114.3 × 60.3 4.500 × 2.375	300 2.07	78 3.071
100 × 65 4 × 2 1/2	114.3 × 70.3 4.500 × 2.875	300 2.07	78 3.071
100 × 65 4 × 3OD	114.3 × 76.1 4.500 × 3.000	300 2.07	78 3.071
100 × 80 4 × 3	114.3 × 88.9 4.500 × 3.500	300 2.07	78 3.071
125 × 25 5 1/2OD × 1	139.7 × 33.7 5.500 × 1.315	300 2.07	89 3.504
125 × 32 5 1/2OD × 1 1/4	139.7 × 42.4 5.500 × 1.660	300 2.07	89 3.504
125 × 40 5 1/2OD × 1 1/2	139.7 × 48.3 5.500 × 1.900	300 2.07	89 3.504
125 × 50 5 1/2OD × 2	139.7 × 60.3 5.500 × 2.375	300 2.07	89 3.504
125 × 65 5 1/2OD × 2 1/2	139.7 × 73.0 5.500 × 2.875	300 2.07	89 3.504
125 × 65 5 1/2OD × 3OD	139.7 × 76.1 5.500 × 3.000	300 2.07	89 3.504
125 × 80 5 1/2OD × 3	139.7 × 88.9 5.500 × 3.500	300 2.07	89 3.504
125 × 100 5 1/2OD × 4 1/4OD	139.7 × 108.0 5.500 × 4.250	300 2.07	89 3.504
125 × 100 5 1/2OD × 4	139.7 × 114.3 5.500 × 4.500	300 2.07	89 3.504
125 × 25 5 × 1	141.3 × 33.7 5.563 × 1.315	300 2.07	89 3.504
125 × 32 5 × 1 1/4	141.3 × 42.4 5.563 × 1.660	300 2.07	89 3.504
125 × 40 5 × 1 1/2	141.3 × 48.3 5.563 × 1.900	300 2.07	89 3.504
125 × 50 5 × 2	141.3 × 60.3 5.563 × 2.375	300 2.07	89 3.504
125 × 65 5 × 2 1/2	141.3 × 73.0 5.563 × 2.875	300 2.07	89 3.504
125 × 65 5 × 3OD	141.3 × 76.1 5.563 × 3.000	300 2.07	89 3.504
125 × 80 5 × 3	141.3 × 88.9 5.563 × 3.500	300 2.07	89 3.504
125 × 100 5 × 4 1/4OD	141.3 × 108.0 5.563 × 4.250	300 2.07	89 3.504
125 × 100 5 × 4	141.3 × 114.3 5.563 × 4.500	300 2.07	89 3.504
150 × 25 6 1/4OD × 1	159.0 × 33.7 6.250 × 1.315	300 2.07	102 4.016
150 × 32 6 1/4OD × 1 1/4	159.0 × 42.4 6.250 × 1.660	300 2.07	102 4.016
150 × 40 6 1/4OD × 1 1/2	159.0 × 48.3 6.250 × 1.900	300 2.07	102 4.016
150 × 50 6 1/4OD × 2	159.0 × 60.3 6.250 × 2.375	300 2.07	102 4.016
150 × 65 6 1/4OD × 2 1/2	159.0 × 73.0 6.250 × 2.875	300 2.07	102 4.016
150 × 65 6 1/4OD × 76.1	159.0 × 76.1 6.250 × 3.000	300 2.07	102 4.016
150 × 80 6 1/4OD × 3	159.0 × 88.9 6.250 × 3.500	300 2.07	102 4.016
150 × 100 6 1/4OD × 4 1/4OD	159.0 × 108.0 6.250 × 4.250	300 2.07	102 4.016
150 × 100 6 1/4OD × 4	159.0 × 114.3 6.250 × 4.500	300 2.07	102 4.016
150 × 125 6 1/4D × 5 1/4OD	159.0 × 133.0 6.250 × 5.250	300 2.07	102 4.016
150 × 25 6 1/2OD × 1	165.1 × 33.7 6.500 × 1.315	300 2.07	102 4.016
150 × 32 6 1/2OD × 1 1/4	165.1 × 42.4 6.500 × 1.660	300 2.07	102 4.016
150 × 40 6 1/2OD × 1 1/2	165.1 × 48.3 6.500 × 1.900	300 2.07	102 4.016
150 × 50 6 1/2OD × 2	165.1 × 60.3 6.500 × 2.375	300 2.07	102 4.016
150 × 65 6 1/2OD × 2 1/2	165.1 × 73.0 6.500 × 2.875	300 2.07	102 4.016
150 × 65 6 1/2OD × 3OD	165.1 × 76.1 6.500 × 3.000	300 2.07	102 4.016
150 × 80 6 1/2OD × 3	165.1 × 88.9 6.500 × 3.500	300 2.07	102 4.016

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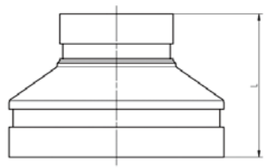
Grooved
Concentric Reducer



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension n L mm/in
150×100 6$^{7}/_{8}$OD×4$^{1}/_{4}$OD	165.1×108.0 6.500×4.250	300 2.07	102 4.016
150×100 6$^{7}/_{8}$OD×4	165.1×114.3 6.500×4.500	300 2.07	102 4.016
150×125 6$^{7}/_{8}$OD×5$^{1}/_{4}$OD	165.1×133.0 6.500×5.250	300 2.07	102 4.016
150×125 6$^{7}/_{8}$OD×5$^{1}/_{2}$OD	165.1×139.7 6.500×5.500	300 2.07	102 4.016
150×125 6$^{7}/_{8}$OD×5	165.1×141.3 6.500×5.563	300 2.07	102 4.016
150×25 6×1	168.3×33.7 6.625×1.315	300 2.07	102 4.016
150×32 6×1$^{1}/_{4}$	168.3×42.4 6.625×1.660	300 2.07	102 4.016
150×40 6×1$^{1}/_{2}$	168.3×48.3 6.625×1.900	300 2.07	102 4.016
150×50 6×2	168.3×60.3 6.625×2.375	300 2.07	102 4.016
150×65 6×2$^{1}/_{2}$	168.3×73.0 6.625×2.875	300 2.07	102 4.016
150×65 6×3OD	168.3×76.1 6.625×3.000	300 2.07	102 4.016
150×80 6×3	168.3×88.9 6.625×3.500	300 2.07	104 4.094
150×100 6×4$^{1}/_{4}$OD	168.3×108.0 6.625×4.25	300 2.07	104 4.094
150×100 6×4	168.3×114.3 6.625×4.500	300 2.07	104 4.094
150×125 6×5$^{1}/_{4}$OD	168.3×133.0 6.625×5.250	300 2.07	104 4.094
150×125 6×5$^{1}/_{2}$OD	168.3×139.7 6.625×5.500	300 2.07	104 4.094
150×125 6×5	168.3×141.3 6.625×5.563	300 2.07	104 4.094
200×65 8×2$^{1}/_{2}$	219.1×73.0 8.625×2.875	300 2.07	127 5.000
200×65 8×3OD	219.1×76.1 8.625×3.000	300 2.07	127 5.000
200×80 8×3	219.1×88.9 8.625×3.500	300 2.07	127 5.000
200×100 8×4$^{1}/_{4}$OD	219.1×108.0 8.625×4.250	300 2.07	127 5.000
200×100 8×4	219.1×114.3 8.625×4.500	300 2.07	127 5.000
200×125 8×5$^{1}/_{4}$OD	219.1×133.0 8.625×5.250	300 2.07	127 5.000
200×125 8×5$^{1}/_{2}$OD	219.1×139.7 8.625×5.500	300 2.07	127 5.000
200×125 8×5	219.1×141.3 8.625×5.563	300 2.07	127 5.000
200×150 8×6$^{1}/_{4}$OD	219.1×159.0 8.625×6.250	300 2.07	127 5.000
200×150 8×6$^{1}/_{2}$OD	219.1×165.1 8.625×6.500	300 2.07	127 5.000
200×150 8×6	219.1×168.3 8.625×6.625	300 2.07	127 5.000
250×125 10×5	273×141.3 10.75×5.563	300 2.07	125 4.921
250×150 10×6	273×168.3 10.75×6.625	300 2.07	152 5.984
250×200 10×8	273×219 10.75×8.625	300 2.07	152 5.984

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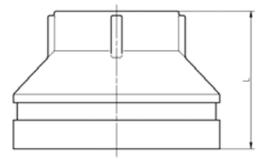

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension n L mm/in
32×25 1$^{1}/_{4}$×1	42.4×33.7 1.660×1.315	300 2.07	64 2.520
40×25 1$^{1}/_{2}$×1	48.3×33.7 1.900×1.315	300 2.07	64 2.520
40×32 1$^{1}/_{2}$×1$^{1}/_{4}$	48.3×42.4 1.900×1.660	300 2.07	64 2.520
50×15 2×$^{1}/_{2}$	60.3×21.3 2.375×0.825	300 2.07	64 2.520
50×20 2×3/4	60.3×26.9 2.375×1.050	300 2.07	64 2.520
50×25 2×1	60.3×33.7 2.375×1.315	300 2.07	64 2.520
50×32 2×1$^{1}/_{4}$	60.3×42.4 2.375×1.660	300 2.07	64 2.520
50×40 2×1$^{1}/_{2}$	60.3×48.3 2.375×1.900	300 2.07	64 2.520
65×15 2$^{1}/_{2}$×$^{1}/_{2}$	73.0×21.3 2.875×0.825	300 2.07	64 2.520
65×20 2$^{1}/_{2}$×3/4	73.0×26.9 2.875×1.050	300 2.07	64 2.520
65×25 2$^{1}/_{2}$×1	73.0×33.7 2.875×1.315	300 2.07	64 2.520
65×32 2$^{1}/_{2}$×1$^{1}/_{4}$	73.0×42.4 2.875×1.660	300 2.07	64 2.520
65×40 2$^{1}/_{2}$×1$^{1}/_{2}$	73.0×48.3 2.875×1.900	300 2.07	64 2.520
65×50 2$^{1}/_{2}$×2	73.0×60.3 2.875×2.375	300 2.07	64 2.520
65×15 3OD×$^{1}/_{2}$	76.1×21.3 3.000×0.825	300 2.07	64 2.520
65×20 3OD×3/4	76.1×26.9 3.000×1.050	300 2.07	64 2.520
65×25 3OD×1	76.1×33.7 3.000×1.315	300 2.07	64 2.520
65×32 3OD×1$^{1}/_{4}$	76.1×42.4 3.000×1.660	300 2.07	64 2.520
65×40 3OD×1$^{1}/_{2}$	76.1×48.3 3.000×1.900	300 2.07	64 2.520
65×50 3OD×2	76.1×60.3 3.000×2.375	300 2.07	64 2.520
80×15 3×$^{1}/_{2}$	88.9×21.3 3.500×0.825	300 2.07	64 2.520
80×20 3×3/4	88.9×26.9 3.500×1.050	300 2.07	64 2.520
80×25 3×1	88.9×33.7 3.500×1.315	300 2.07	64 2.520
80×32 3×1$^{1}/_{4}$	88.9×42.7 3.500×1.660	300 2.07	64 2.520
80×40 3×1$^{1}/_{2}$	88.9×48.3 3.500×1.900	300 2.07	64 2.520
80×50 3×2	88.9×60.3 3.500×2.375	300 2.07	64 2.520
80×65 3×2$^{1}/_{2}$	88.9×73.0 3.500×2.875	300 2.07	64 2.520
80×65 3×3OD	88.9×76.1 3.500×3.000	300 2.07	64 2.520
100×25 4$^{1}/_{4}$OD×1	108.0×33.7 4.250×1.315	300 2.07	76 2.992
100×32 4$^{1}/_{4}$OD×1$^{1}/_{4}$	108.0×42.4 4.250×1.660	300 2.07	76 2.992
100×40 4$^{1}/_{4}$OD×1$^{1}/_{2}$	108.0×48.3 4.250×1.900	300 2.07	76 2.992
100×50 4$^{1}/_{4}$ OD×2	108.0×60.3 4.250×2.375	300 2.07	76 2.992
100×65 4$^{1}/_{4}$OD×2$^{1}/_{2}$	108.0×73.0 4.250×2.875	300 2.07	76 2.992
100×65 4$^{1}/_{4}$OD×3OD	108.0×76.1 4.250×3.000	300 2.07	76 2.992

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension n L mm/in
100×80 4$^{1}/_{4}$OD×3	108.0×88.9 4.250×3.500	300 2.07	76 2.992
100×15 4×$^{1}/_{2}$	114.3×21.3 4.500×0.825	300 2.07	77 3.031
100×20 4×3/4	114.3×26.9 4.500×1.050	300 2.07	77 3.031
100×25 4×1	114.3×33.7 4.500×1.315	300 2.07	77 3.031
100×32 4×1$^{1}/_{4}$	114.3×42.4 4.500×1.660	300 2.07	77 3.031
100×40 4×1$^{1}/_{2}$	114.3×48.3 4.500×1.900	300 2.07	77 3.031
100×50 4×2	114.3×60.3 4.500×2.315	300 2.07	77 3.031
100×65 4×2$^{1}/_{2}$	114.3×73.0 4.500×2.875	300 2.07	77 3.031
100×65 4×3OD	114.3×76.1 4.500×3.000	300 2.07	77 3.031
100×80 4×3	114.3×88.9 4.500×3.500	300 2.07	77 3.031
125×15 5$^{1}/_{4}$OD×$^{1}/_{2}$	133.0×21.3 5.250×0.825	300 2.07	89 3.504
125×20 5$^{1}/_{4}$OD×3/4	133.0×26.9 5.250×1.050	300 2.07	89 3.504
125×25 5$^{1}/_{4}$OD×1	133.0×33.7 5.250×1.315	300 2.07	89 3.504
125×32 5$^{1}/_{4}$OD×1$^{1}/_{4}$	133.0×42.4 5.250×1.660	300 2.07	89 3.504
125×40 5$^{1}/_{4}$OD×1$^{1}/_{2}$	133.0×48.3 5.250×1.900	300 2.07	89 3.504
125×50 5$^{1}/_{4}$OD×2	133.0×60.3 5.250×2.315	300 2.07	89 3.504
125×65 5$^{1}/_{4}$OD×2$^{1}/_{2}$	133.0×73.0 5.250×2.875	300 2.07	89 3.504
125×65 5$^{1}/_{4}$OD×3OD	133.0×76.1 5.250×3.000	300 2.07	89 3.504
125×80 5$^{1}/_{4}$OD×3	133.0×88.9 5.250×3.500	300 2.07	89 3.504
125×100 5$^{1}/_{4}$OD×4	133.0×114.3 5.250×4.500	300 2.07	89 3.504
125×15 5$^{1}/_{2}$OD×$^{1}/_{2}$	139.7×21.3 5.500×0.825	300 2.07	89 3.504
125×20 5$^{1}/_{2}$OD×3/4	139.7×26.9 5.500×1.050	300 2.07	89 3.504
125×25 5$^{1}/_{2}$OD×1	139.7×33.7 5.500×1.315	300 2.07	89 3.504
125×32 5$^{1}/_{2}$OD×1$^{1}/_{4}$	139.7×42.4 5.500×1.660	300 2.07	89 3.504
125×40 5$^{1}/_{2}$OD×1$^{1}/_{2}$	139.7×48.3 5.500×1.900	300 2.07	89 3.504
125×50 5$^{1}/_{2}$OD×2	139.7×60.3 5.500×2.315	300 2.07	89 3.504
125×65 5$^{1}/_{2}$OD×2$^{1}/_{2}$	139.7×73.0 5.500×2.875	300 2.07	89 3.504
125×65 5$^{1}/_{2}$OD×3OD	139.7×76.1 5.500×3.000	300 2.07	89 3.504
125×80 5$^{1}/_{2}$OD×3	139.7×88.9 5.500×3.500	300 2.07	89 3.504
125×100 5$^{1}/_{2}$OD×4	139.7×114.3 5.500×4.500	300 2.07	89 3.504
150×15 6$^{1}/_{4}$OD×$^{1}/_{2}$	159.0×21.3 6.250×0.825	300 2.07	102 4.016
150×20 6$^{1}/_{4}$OD×3/4	159.0×26.9 6.250×1.050	300 2.07	102 4.016
150×25 6$^{1}/_{2}$OD×1	159.0×33.7 6.250×1.315	300 2.07	102 4.016
150×32 6$^{1}/_{4}$OD×1$^{1}/_{4}$	159.0×42.4 6.250×1.660	300 2.07	102 4.016

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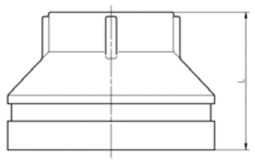
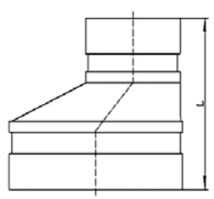
Concentric Reducer



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension n L mm/in
150×40 6"/4OD×1"/2	159.0×48.3 6.250×1.900	300 2.07	102 4.016
150×50 6"/4OD×2	159.0×60.3 6.250×2.315	300 2.07	102 4.016
150×65 6"/4OD×2"/2	159.0×73.0 6.250×2.875	300 2.07	102 4.016
150×65 6"/4OD×3OD	159.0×76.1 6.250×3.000	300 2.07	102 4.016
150×80 6"/4OD×3	159.0×88.9 6.250×3.500	300 2.07	102 4.016
150×100 6"/4OD×4	159.0×114.3 6.250×4.500	300 2.07	102 4.016
150×15 6"/2OD×1"/2	165.1×21.3 6.500×0.825	300 2.07	102 4.016
150×20 6"/2OD×3/4	165.1×26.9 6.500×1.050	300 2.07	102 4.016
150×25 6"/2OD×1	165.1×33.7 6.500×1.315	300 2.07	102 4.016
150×32 6"/2 OD×1"/4	165.1×42.4 6.500×1.660	300 2.07	102 4.016
150×40 6"/2 OD×1"/2	165.1×48.3 6.500×1.900	300 2.07	102 4.016
150×50 6"/2 OD×2	165.1×60.3 6.500×2.315	300 2.07	102 4.016
150×65 6"/2 OD×2"/2	165.1×73.0 6.500×2.875	300 2.07	102 4.016
150×65 6"/2 OD×3OD	165.1×76.1 6.500×3.000	300 2.07	102 4.016
150×80 6"/2 OD×3	165.1×88.9 6.500×3.500	300 2.07	102 4.016
150×100 6"/2 OD×4	165.1×114.3 6.500×4.500	300 2.07	102 4.016
150×15 6×1"/2	168.3×21.3 6.625×0.825	300 2.07	102 4.016

Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension n L mm/in
150×20 6×3/4	168.3×26.9 6.625×1.050	300 2.07	102 4.016
150×25 6×1	168.3×33.7 6.625×1.315	300 2.07	102 4.016
150×32 6×1"/4	168.3×42.4 6.625×1.660	300 2.07	102 4.016
150×40 6×1"/2	168.3×48.3 6.625×1.900	300 2.07	102 4.016
150×50 6×2	168.3×60.3 6.625×2.315	300 2.07	102 4.016
150×65 6×2"/2	168.3×73.0 6.625×2.875	300 2.07	102 4.016
150×65 6×3OD	168.3×76.1 6.625×3.000	300 2.07	102 4.016
150×80 6×3	168.3×88.9 6.625×3.500	300 2.07	102 4.016
150×100 6×4	168.3×114.3 6.625×4.500	300 2.07	102 4.016
200×25 8×1	219.1×33.7 8.625×1.315	300 2.07	127 5.000
200×32 8×1"/4	219.1×42.4 8.625×1.660	300 2.07	127 5.000
200×40 8×1"/2	219.1×48.3 8.625×1.900	300 2.07	127 5.000
200×50 8×2	219.1×60.3 8.625×2.315	300 2.07	127 5.000
200×65 8×2"/2	219.1×73.0 8.625×2.875	300 2.07	127 5.000
200×65 8×3OD	219.1×76.1 8.625×3.000	300 2.07	127 5.000
200×80 8×3	219.1×88.9 8.625×3.500	300 2.07	127 5.000
200×100 8×4	219.1×114.3 8.625×4.500	300 2.07	127 5.000

XGQT17
Grooved
Eccentric Reducer



Nominal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension n L mm/in
80×50 3×2	88.9×60.3 3.500×2.375	300 2.07	64 2.520
80×65 3×2"/2	88.9×76.1 3.500×3.000	300 2.07	64 2.520
100×50 4×2	114.3×60.3 4.500×2.375	300 2.07	76 2.992
100×65 4×2"/2	114.3×73.0 4.500×2.875	300 2.07	76 2.992
100×65 4×2"/2	114.3×76.1 4.500×3.000	300 2.07	76 2.992
100×80 4×3	114.3×88.9 4.500×3.500	300 2.07	76 2.992
150×100 6×4	165.1×114.3 6.500×4.500	300 2.07	102 4.016
150×65 6×2"/2	168.3×76.1 6.625×3.000	300 2.07	102 4.016
150×80 6×3	168.3×88.9 6.625×3.500	300 2.07	102 4.016
150×100 6×4	168.3×114.3 6.625×4.500	300 2.07	102 4.016
200×150 8×6	219.1×165.1 8.625×6.500	300 2.07	127 5.000

Installation Instruction For Rigid & Flexible Coupling

1.Pipe preparation

Check pipe end for proper groove dimensions and to assure that pipe end is free of indentations and projections that would prevent proper sealing.

2.Lubricate gasket

Check gasket to be sure it's compatible for the intended service. Apply thin lubricant to the outside and sealing lips of the gasket.

3.Gasket installation

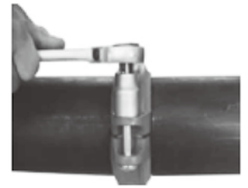
Slip the gasket over one pipe, making sure the gasket lip does not over–hang the pipe end.

4.Alignment

After aligning two pipe ends together, pull the gasket into position, centering between the grooves on each pipe. The gasket should not extend into the groove on either pipe.

5.Housing installation

Romove one bolt&nut and loosen the other nut. Place one housing over the gasket, making sure the housing keys fit into the pipe grooves. Swing the other housing over the gasket and into the grooves on both pipes. Re–insert the bolt and connect two housings.



6.Tighten nuts

Firstly hand tighten nuts and make sure oval neck bolt completely fits into bolt hole. Then securely tighten nuts alternatively and equally to the specified bolt torque by using spanner.

7 a.Assembly completed- Rigid Coupling

For Rigid Coupling, keep the gaps at bolt pads evenly spaced. Gaskets can't be seen visually.

7 b. Assembly completed- Flexible Coupling

For Flexible Coupling, two housings should be iron to iron connected. Gaskets can't be seen visually.

Caution

Proper torquing of bolts is required to obtain specified performance.

– Over torquing the bolts may result in damage to the bolt and / or casting which could result in pipe joint separation.

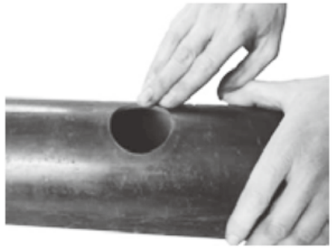
– Under torquing the bolts may result in lower pressure retention capabilities, lower bend load capabilities, joint leakage and pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.

Specified Bolt Torque

ANSI BOLTS

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

Installation Instruction For Threaded & Grooved Mechanical Tee



1.Pipe preparation

Clean the gasket sealing surface within 16mm of the hole and visually inspect the sealing surface for defects that may prevent proper sealing of the gasket. Don't drill the hole on weld line.

2.Remove burrs

If any burrs or slug exists at the pipe hole, please remove them before assembly, to protect the gasket and avoid leakage.

3.Gasket installation

Insert the gasket into outlet housing making sure the tab in the gasket line up with the tab recesses in the housing. Align outlet housing over the pipe hole making sure that the locating collar is in the pipe hole.

4.Alignment

Align the strap around the pipe, inser the bolts and tighten the nuts finger tight.

5.Tighten nuts

Alternatively and evenly tighten the nuts to the specified bolt torque.

6.Assembly completed

There should be even gaps on two sides between upper and lower housings.

Caution
Proper torquing of bolts is required to obtain specified performance. – Over torquing the bolts may result in damage to the bolt and / or casting which could result in pipe joint separation. – Under torquing the bolts may result in lower pressure retention capabilities, lower bend load capabilities, joint leakage and pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.

Specified Bolt Torque		
ANSI BOLTS		
Bolt Size	Specified Bolt Torque	
Inch	Lbs-Ft.	N.m
3/8	30-45	40-60
1/2	80-100	110-135
5/8	100-130	135-175
3/4	——	——
7/8	——	——

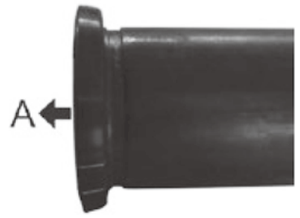
Installation Instruction For Grooved Flange

1.Pipe preparation

Check pipe end for proper groove dimensions and to assure that pipe end is free of indentations and projections that would prevent proper sealing.

2.Lubricate gasket

Check gasket to be sure it's compatible for the intended service. Apply thin lubricant to the outside and sealing lips of the gasket.



3.Gasket installation

Slip the gasket over pipe end, with the gasket opening side towards "A". Make sure the gasket sealing lip is even with pipe end.

4.Housing installation

Romove bolts and nuts, place two housings over the gasket, making sure the housing keys fit into the pipe grooves. Re–insert the bolts and hand tighten the nuts.

5.Tighten nuts

Securely tighten nuts alternatively and equally to the specified bolt torque by using spanner.

6.Connect mating flange

Align flange bolt holes with mating flange (or valve) bolt holes. Insert a standard fiange bolt through bolt hole and hand tighten a nut. Insert another bolt opposite the first and hand tighten a nut. Continue this until all bolt holes are fitted. Tighten nuts evenly to specified bolt torque, so fiange faces remain parallel. Assembly completed.

Caution
Proper torquing of bolts is required to obtain specified performance. – Over torquing the bolts may result in damage to the bolt and / or casting which could result in pipe joint separation. – Under torquing the bolts may result in lower pressure retention capabilities, lower bend load capabilities, joint leakage and pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.

Specified Bolt Torque		
ANSI BOLTS		
Bolt Size	Specified Bolt Torque	
Inch	Lbs-Ft.	N.m
M10	30-45	40-60
M12	80-100	110-135
M16	——	——
M20	——	——
M22	——	——
M24	——	——

GASKET DATA

Gasket	Name	Temperature Range	General Service Recommendations	Color Mark
E	EPDM	-34~+110℃ (-30~+230°F)	Recommended for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL classified in accordance with ANSI/NSF 61 or cold +86°F(+30℃)and hot +180° F (+82℃) potable water service. Not recommended for petroleum service.	Green Strip
D	NBR	-29~+82℃ (-20~+180°F)	Recommended for petroleum products.air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services.	Orange Strip
S	Silicon Rubbor	-40~+177℃ (-40~+350°F)	Recommended for high temperature dry air and some high temperature chemical products.	White

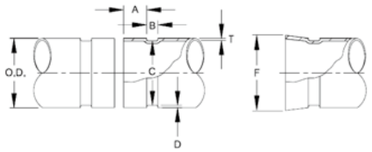
Bolts and Nuts

Raw material of oval neck track bolts and hex nuts are taken as 35# steel, and its mechanical properties reach ISO 898-1 Gr.8.8. The bolts and nuts are electro zinc plated in a silver chromate color. The oval neck track bolts mate into the oval holes in the housing segments to allow for easy tightening using only a single wrench/spanner, safely and firmly.

Bolt dimension	M10	M12	M16	M20	M22
Spanner dimension	15	18	24	30	34

Roll Groove Dimensions

Roll Grooving Machine



Nominal Size mm/in	Pipe OD Basic mm/in	Pipe OD Tolerence mm/in		Gasket seat A ±0.76/±0.03 mm/in	Groove Width B ±0.76/±0.03 mm/in	Groove Dia C Basic mm/in	Groove Dia C Tolerence mm/in	Groove Depth D(ref) mm/in	MaxAllow Flare Dia F mm/in	Min.Allow wall thickness T mm/in
25 1	33.7 1.327	+0.41 +0.016	-0.68 -0.026	15.88 0.625	7.14 0.281	30.23 1.190	-0.38 -0.015	1.60 0.063	34.5 1.358	1.8 0.071
32 1¼	42.4 1.669	+0.50 +0.020	-0.60 -0.023	15.88 0.625	7.14 0.281	38.99 1.535	-0.38 -0.015	1.60 0.063	43.3 1.705	1.8 0.071
40 1½	48.3 1.900	+0.44 +0.017	-0.52 -0.020	15.88 0.625	7.14 0.281	45.09 1.779	-0.38 -0.015	1.60 0.063	49.4 1.945	1.8 0.071
50 2	60.3 2.375	+0.61 +0.024	-0.61 -0.024	15.88 0.625	8.74 0.344	57.15 2.250	-0.38 -0.015	1.60 0.063	62.2 2.449	1.8 0.071
65 2½	73.0 2.875	+0.74 +0.029	-0.74 -0.029	15.88 0.625	8.74 0.344	69.09 2.720	-0.46 -0.018	1.98 0.078	75.2 2.961	2.3 0.091
65 2½	76.1 3.000	+0.76 +0.030	-0.76 -0.030	15.88 0.625	8.74 0.344	72.26 2.845	-0.46 -0.018	1.99 0.078	77.7 3.059	2.3 0.091
80 3	88.9 3.500	+0.89 +0.035	-0.79 -0.031	15.88 0.625	8.74 0.344	84.94 3.344	-0.46 -0.018	1.98 0.078	90.6 3.567	2.3 0.091
100 4	108.0 4.250	+1.07 +0.042	-0.79 -0.031	15.88 0.625	8.74 0.344	103.73 4.084	-0.51 -0.020	2.11 0.083	109.7 4.319	2.3 0.091
100 4	114.3 4.500	+1.14 +0.045	-0.79 -0.031	15.88 0.625	8.74 0.344	110.08 4.334	-0.51 -0.020	2.11 0.083	116.2 4.575	2.3 0.091
125 5	133.0 5.250	+1.32 +0.052	-0.79 -0.031	15.88 0.625	8.74 0.344	129.13 5.084	-0.51 -0.020	2.11 0.083	134.9 5.311	2.9 0.114
125 5	139.7 5.500	+1.40 +0.055	-0.79 -0.031	15.88 0.625	8.74 0.344	135.48 5.334	-0.51 -0.020	2.11 0.083	141.7 5.579	2.9 0.114
125 5	141.3 5.563	+1.42 +0.056	-0.79 -0.031	15.88 0.625	8.74 0.344	137.03 5.395	-0.56 -0.022	2.13 0.084	143.5 5.650	2.9 0.114
150 6	159.0 6.250	+1.60 +0.063	-0.79 -0.031	15.88 0.625	8.74 0.344	154.50 6.083	-0.56 -0.022	2.16 0.085	161.0 6.339	2.9 0.114
150 6	165.1 6.500	+1.60 +0.063	-0.79 -0.031	15.88 0.625	8.74 0.344	160.8 6.330	-0.56 -0.022	2.16 0.085	167.1 6.579	2.9 0.114
150 6	168.3 6.625	+1.60 +0.063	-0.79 -0.031	15.88 0.625	8.74 0.344	163.96 6.455	-0.56 -0.022	2.16 0.085	170.7 6.720	2.9 0.114
200A 8	216.3 8.516	+1.60 +0.063	-0.79 -0.031	19.05 0.750	11.91 0.469	211.60 8.331	-0.64 -0.025	2.35 0.093	219.8 8.653	2.9 0.114
200 8	219.1 8.625	+1.60 +0.063	-0.79 -0.031	19.05 0.750	11.91 0.469	214.40 8.441	-0.64 -0.025	2.34 0.092	221.5 8.720	2.9 0.114
250A 10	267.4 10.528	+1.60 +0.063	-0.79 -0.031	19.05 0.750	11.91 0.469	262.60 10.339	-0.69 -0.027	2.40 0.095	270.9 10.665	3.6 0.142
250 10	273.0 10.750	+1.60 +0.063	-0.79 -0.031	19.05 0.750	11.91 0.469	268.28 10.562	-0.69 -0.027	2.39 0.094	275.4 10.842	3.6 0.142
300A 12	318.5 12.539	+1.60 +0.063	-0.79 -0.031	19.05 0.750	11.91 0.469	312.90 12.319	-0.76 -0.030	2.77 0.109	322.0 12.677	4.0 0.158
300 12	323.9 12.750	+1.60 +0.063	-0.79 -0.031	19.05 0.750	11.91 0.469	318.29 12.531	-0.76 -0.030	2.77 0.109	326.2 12.842	4.0 0.158
350 14	377.0 14.842	+1.60 +0.063	-0.79 -0.031	23.83 0.938	11.91 0.469	371.44 14.623	-0.76 -0.030	2.77 0.109	379.5 14.941	4.5 0.177
400 16	426.0 16.772	+1.60 +0.063	-0.79 -0.031	23.83 0.938	11.91 0.469	420.46 16.553	-0.76 -0.030	2.77 0.109	428.5 16.870	4.5 0.177
500 20	529.0 20.827	+1.60 +0.063	-0.79 -0.031	25.40 1.000	11.91 0.469	523.46 20.608	-0.76 -0.030	2.77 0.109	533.0 20.984	5.0 0.197

LUYUAN®

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