

**LEIDE®**

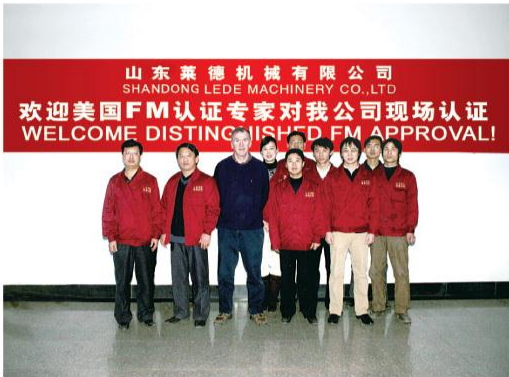
**SHANDONG LEIDE MACHINERY CO.,LTD.**

**FOUNDED IN 1999**

WHERE IS THE PIPE, WHERE IS THE LEIDE GROOVED FITTINGS.

惟有客户的成功，  
才是我的成功。

*We are dedicated to improving our products on Every Detail*



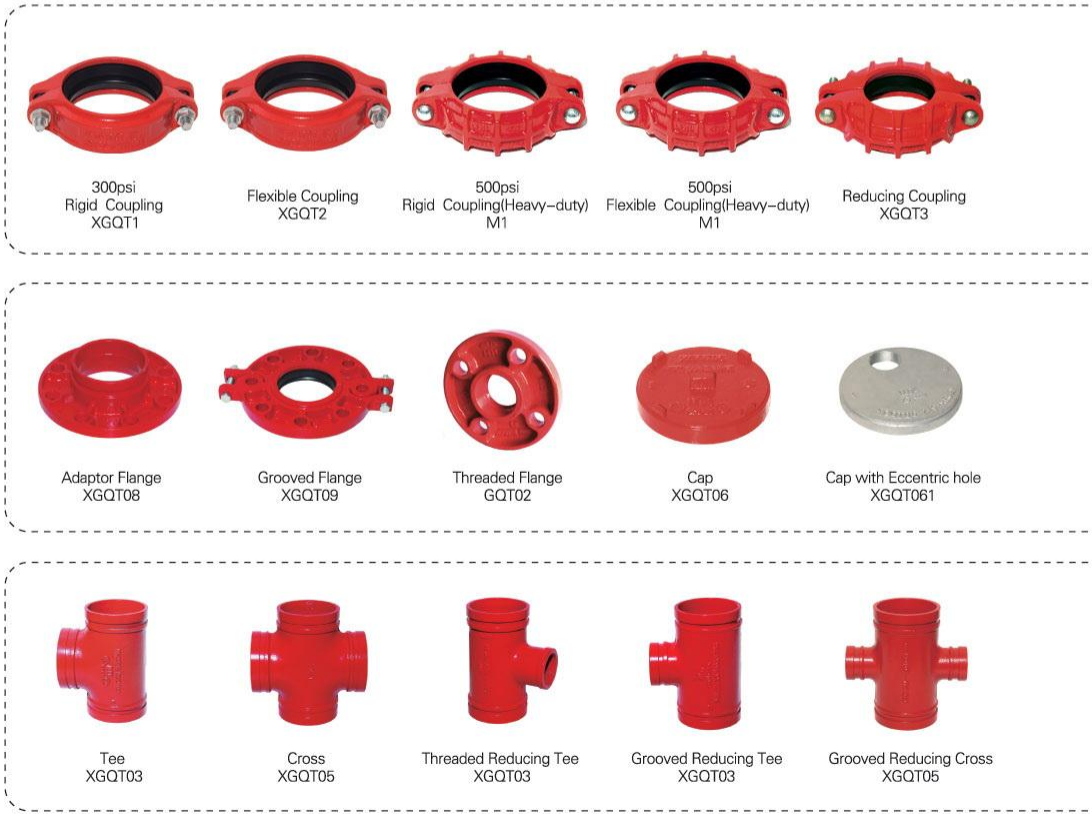
Shandong Lede Machinery Co.,Ltd. was founded in 1999, mainly engages in the production of Ductile Iron Grooved Fittings, the annual production capacity can reach 50,000tons, Now LEDE has been the leading manufacturer in the field of grooved fitting in china.

LEDE is committed to supplying the high price–performance ratio products that follows the international standard for all the customers worldwide.For ductile iron grooved fittings,LEDE has been approved by some international quality assurance agencies like FM and UL.LEDE products are also in accordance with some international Standards such as ANSI,ASTM,DIN,BS etc.in addition,the Mechanical tee and Mechanical cross have got the national designing patent on the apperance.

LEDE owns one big foundry with advanced electric furnaces and disa line,the Machining plant and Surface disposal plant are both pipelining.The mold center keeps developing new products which can satisfy diverse requirements for specifications, structure and characteristics of the products from different customers.

The selling network of LEDE products has spreaded over most countries in the world, Currently the products has been exported to America,Europe,Russia,Canada,Australia, Middle East and some other countires.LEDE products have been applied to many famous constructions. LEDE products are wildly used on various fields as follows:

- Automatic sprinkler system for Fire protection on Commercial,Civil and Municipal constructions like Water supplying,Gas supplying,Heat supplying,Drainage,Airconditioning etc.
- Industrial pipeline system on Shipping,Mine,Oil field,Textile,Power plant,Paper making, Beverage and Steel making etc.
- Pipeline system on Subway station,Railway station,Airport,Seaport,Bridge,Channel etc.





the standard in safety

UL Standard

Model: XGQT013

Version: 2008-05-11

Revised: 2008-05-11

Product Name: PIPE FITTINGS FOR USE IN ABOVEGROUND SPRINKLER SYSTEMS

Manufacturer: SHANDONG LEDE MACHINERY CO., LTD.

Address: 103, 2008 WEST WILKINSON ROAD, WEIFANG CITY, SHANDONG PROVINCE, P. R. CHINA

Project Description: Grooved Elbow and Tee

Type and Model: XGQT013, XGQT014

Date of Approval: 2008-05-11

Signature: Stephen ...

VERIFICATION OF COMPLIANCE

Approval

Product Description: Grooved Elbow and Tee

Type and Model: XGQT013, XGQT014

Date of Approval: 2008-05-11

Signature: ...

Certificate of Compliance

PIPE FITTINGS FOR USE IN ABOVEGROUND SPRINKLER SYSTEMS

This certificate is issued for the following equipment:

Product: Grooved Elbow, 45° and 90°  
Rigid Tee  
Reducing Tee  
Cross  
Grooved Flange Adapters  
Blind Caps  
Concrete-Resistant

Manufacturer: SHANDONG LEDE MACHINERY CO., LTD.  
No. 1008, West Wilkison N. Road  
Weifang City, Shandong  
P. R. China 261057

FM Approvals confirms that the items have been found to comply with the following test standard:  
FM Approvals Standard Class Number: 9303

Project Identifier: 3027706 Date of Approval: September 7, 2007

Signature: Richard B. Duane  
Group Manager, Hydraulics  
FM Approvals

Date: September 12, 2007



### Product Design

The company has strong team for product research and design, all the mold are designed by advanced CAD/CAM computer aided system, based on finite element theory to optimize product structure. Possible defects are fully considered during casting process, to make sure the safety coefficient of the product design is more close to actual production.



### Casting process design

Casting process design is equipped with computer simulation software—Castsoft CAE to simulate the molten iron pouring process to ensure the best technology state and prevent possible casting defects.



### Mold Machining

All the mold are machined by the processing center, which can achieve one fixture with five-face milling technology, to ensure the dimension precision of the products.





Advanced  
Production  
Equipment

All the products are produced with disa line, its not only of powful production capacity but also ensures the products' dimension precision when mass production.



### Structure test of casting material

Mechanical property of the casting material is subject to the chemical composition of the casting material, Only accurate pouring temperature, pouring time and molten iron weight can guarantee the structure property. The company uses advanced test equipment like spectrum analyzer, molten iron analyzer, ultrasonic flaw detector, thermoanalyzer etc. to assure the molten iron of each furnace can reach the standard before pouring.



### Mechanics test

The lab of mechanics property will conduct the test of elongation, yield and compression for all the metal products, like bolts, nuts and casting samples, to make sure every index is eligible.



### Rubber Test

The lab of rubber physical property will conduct the test for rubber on mechanics properties including Shore hardness, elongation rate at break, compression after thermal aging ect, to assure the rubber is eligible.



### Sand Test

The test for sand performance includes ventilation, strength, mud content can supply reasonable sand mixing program to avoid the fluctuation on sand performance and produce casting defects.



### Air Test

The purpose of the air test is to test the seal property of the fittings, due to the gas penetration ability, bad products with sand hole and pin hole will be found during air test. Thus leakage will be avoided.



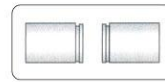
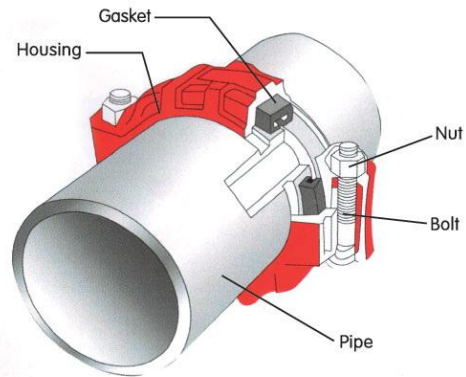
### Product Test

The company owns professional lab to conduct test for hydraulics, higher pressure, bending moment, fire, etc. The picture shows FM engineer is conducting the pressure test.





Pipe  
Preparation



Grooved Pipe



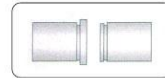
Gasket



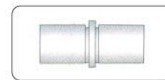
Lubricate the gasket



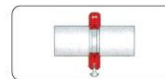
Slide another pipe end



Close another pipe end



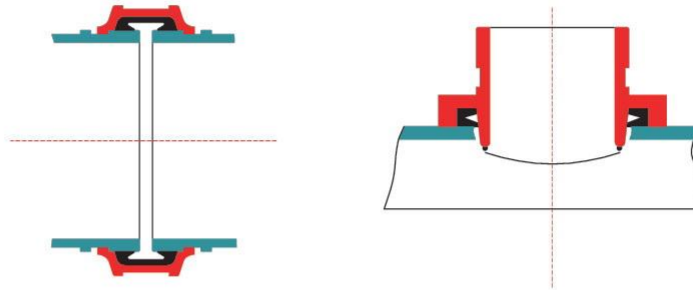
Slide another pipe end into the gasket



Place the housings over the gasket

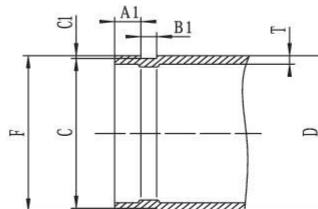


Tighten the bolts and nuts

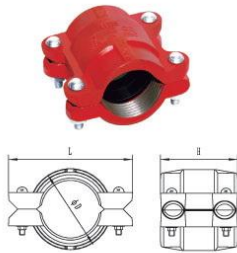


| Nominal | Size | Pipe O.D | A1   | B1   | C1  | C             |              | T   | F     |
|---------|------|----------|------|------|-----|---------------|--------------|-----|-------|
| INCH    | DN   | MM       | MM   | MM   | MM  | BASIC SIZE MM | TOLERANCE MM | MM  | MM    |
| 1"      | 25   | 33.7     | 15.9 | 7.2  | 1.7 | 30.2          | -0.34        | 1.8 | 34.5  |
| 1 1/4"  | 32   | 42.4     | 15.9 | 7.2  | 1.7 | 39            | -0.38        | 1.8 | 43.3  |
| 1 1/2"  | 40   | 48.3     | 15.9 | 7.2  | 1.6 | 45.1          | -0.38        | 1.8 | 49.4  |
| 2"      | 50   | 60.3     | 15.9 | 8.8  | 1.6 | 57.2          | -0.38        | 1.8 | 62.2  |
| 2 1/2"  | 65   | 73       | 15.9 | 8.8  | 1.9 | 69.1          | -0.46        | 2.3 | 75.2  |
| 2 1/2"  | 65   | 76.1     | 15.9 | 8.8  | 1.9 | 72.3          | -0.46        | 2.3 | 77.7  |
| 3"      | 80   | 88.9     | 15.9 | 8.8  | 2   | 84.9          | -0.46        | 2.3 | 90.6  |
| 4"      | 100  | 114.3    | 15.9 | 8.8  | 2.1 | 110.1         | -0.51        | 2.3 | 116.2 |
| 5"      | 125  | 139.7    | 15.9 | 8.8  | 2.1 | 135.5         | -0.51        | 2.9 | 141.7 |
| 5"      | 125  | 141.3    | 15.9 | 8.8  | 2.1 | 137           | -0.51        | 2.9 | 143.5 |
| 6"      | 150  | 165.1    | 15.9 | 8.8  | 2.2 | 160.9         | -0.56        | 2.9 | 167.1 |
| 6"      | 150  | 168.3    | 15.9 | 8.8  | 2.2 | 164           | -0.56        | 2.9 | 170.7 |
| 8"      | 200  | 219.1    | 19.1 | 11.9 | 2.4 | 214.4         | -0.64        | 2.9 | 221.5 |
| 10"     | 250  | 273      | 19.1 | 11.9 | 2.4 | 268.3         | -0.69        | 3.6 | 275.4 |
| 12"     | 300  | 323.9    | 19.1 | 11.9 | 2.8 | 318.3         | -0.69        | 4   | 326.2 |

A1 ±0.76      B1 ±0.76  
 Gasket seat      Groove width  
 C Groove diameter      T Minimum thickness(pipe thickness)  
 C1 Groove depth      F Maximum flare



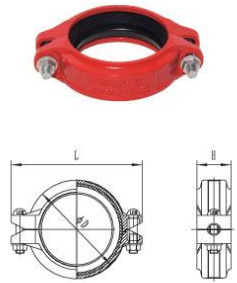
MODEL  
HDPE



HDPE Coupling

| Pipe O.D   |            | Working pressure (Mpa) | Dimensions |      |      | Bolt/Nut No. - size (mm) |
|------------|------------|------------------------|------------|------|------|--------------------------|
| Minimum mm | Maximum mm |                        | Φ D mm     | L mm | H mm |                          |
| 63         | 63.6       | 300PSI                 | 85         | 128  | 105  | 4-3/8x55                 |
| 90         | 90.9       |                        | 110        | 169  | 105  | 4-1/2x75                 |
| 110        | 111.0      |                        | 139        | 181  | 112  | 4-1/2x75                 |
| 160        | 161.5      |                        | 190        | 232  | 147  | 4-5/8x85                 |
| 200        | 201.8      |                        | 236        | 305  | 154  | 4-5/8x85                 |

MODEL  
XGQT

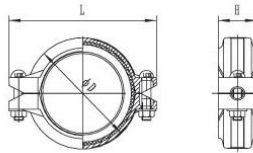


Rigid Coupling

| Nominal Size mm/in | Pipe O.D mm/in | Working pressure (Mpa) | Dimensions |       |                              | Bolt/Nut No. - size (mm)   |
|--------------------|----------------|------------------------|------------|-------|------------------------------|----------------------------|
|                    |                |                        | Φ D mm     | L mm  | H mm                         |                            |
| 25                 | 33.7           | 300PSI                 | 55         | 97    | 45                           | 2-3/8 x 40<br>(2-M10 x 40) |
| 1                  | 1.327          |                        |            |       |                              |                            |
| 32                 | 42.4           |                        | 63.5       | 107.5 | 45                           | 2-3/8 x 50<br>(2-M10 x 50) |
| 1 1/4              | 1.669          |                        |            |       |                              |                            |
| 40                 | 48.3           |                        | 69         | 114   | 45                           | 2-3/8 x 55<br>(2-M10 x 55) |
| 1 1/2              | 1.9            |                        |            |       |                              |                            |
| 50                 | 57.0           |                        | 83.6       | 124   | 46                           | 2-3/8 x 60<br>(2-M10 x 60) |
| 2                  | 2.244          |                        |            |       |                              |                            |
| 50                 | 60.3           |                        | 83.6       | 124   | 46                           | 2-1/2 x 70<br>(2-M12 x 70) |
| 2                  | 2.375          |                        |            |       |                              |                            |
| 65                 | 73             |                        | 95         | 140   | 46                           | 2-1/2 x 70<br>(2-M12 x 70) |
| 2 1/2              | 2.875          |                        |            |       |                              |                            |
| 65                 | 76.1           |                        | 98         | 139   | 46                           | 2-1/2 x 70<br>(2-M12 x 70) |
| 2 1/2              | 3              |                        |            |       |                              |                            |
| 80                 | 88.9           |                        | 114        | 156   | 46                           | 2-1/2 x 70<br>(2-M12 x 70) |
| 3                  | 3.5            |                        |            |       |                              |                            |
| 100                | 108            |                        | 142        | 189   | 50                           | 2-1/2 x 70<br>(2-M12 x 70) |
| 4                  | 4.25           |                        |            |       |                              |                            |
| 100                | 114.3          |                        | 142        | 189   | 50                           | 2-1/2 x 70<br>(2-M12 x 70) |
| 4                  | 4.5            |                        |            |       |                              |                            |
| 125                | 133.0          |                        | 170        | 222   | 50                           | 2-1/2 x 70<br>(2-M12 x 70) |
| 5                  | 5.25           |                        |            |       |                              |                            |
| 125                | 139.7          |                        | 170        | 222   | 50                           | 2-1/2 x 70<br>(2-M12 x 70) |
| 5                  | 5.5            |                        |            |       |                              |                            |
| 125                | 141.3          | 170                    | 222        | 50    | 2-1/2 x 70<br>(2-M12 x 70)   |                            |
| 5                  | 5.563          |                        |            |       |                              |                            |
| 150                | 159.0          | 196                    | 244        | 50    | 2-1/2 x 70<br>(2-M12 x 70)   |                            |
| 6                  | 6.25           |                        |            |       |                              |                            |
| 150                | 165.1          | 196                    | 244        | 50    | 2-1/2 x 70<br>(2-M12 x 70)   |                            |
| 6                  | 6.5            |                        |            |       |                              |                            |
| 150                | 168.3          | 198                    | 251        | 50    | 2-1/2 x 70<br>(2-M12 x 70)   |                            |
| 6                  | 6.625          |                        |            |       |                              |                            |
| 200                | 219.1          | 260                    | 322        | 58    | 2-5/8 x 85<br>(2-M16 x 85)   |                            |
| 8                  | 8.625          |                        |            |       |                              |                            |
| 250                | 273            | 319                    | 393        | 64    | 2-3/4 x 110<br>(2-M20 x 110) |                            |
| 10                 | 10.75          |                        |            |       |                              |                            |
| 300                | 323.9          | 374                    | 453        | 65    | 2-3/4 x 130<br>(2-M20 x 130) |                            |
| 12                 | 12.75          |                        |            |       |                              |                            |



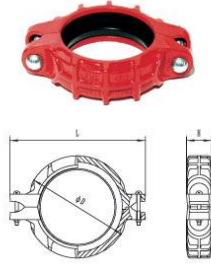
**MODEL  
XGQT2**



**Flexible Coupling**

| Nominal Size mm/in | Pipe O.D mm/in | Working pressure (Mpa) | Dimensions |       |      | Bolt/Nut No.-size (mm)    |
|--------------------|----------------|------------------------|------------|-------|------|---------------------------|
|                    |                |                        | ΦD mm      | L mm  | H mm |                           |
| 25                 | 33.7           |                        | 55         | 97    | 45   | 2-3/8 x 40 (2-M10 x 40)   |
| 1                  | 1.327          |                        |            |       |      |                           |
| 32                 | 42.4           |                        | 63.5       | 107.5 | 45   |                           |
| 1 1/4              | 1.669          |                        |            |       |      |                           |
| 40                 | 48.3           |                        | 69         | 114   | 45   | 2-3/8 x 50 (2-M10 x 50)   |
| 1 1/2              | 1.9            |                        |            |       |      |                           |
| 50                 | 57.0           |                        | 83.6       | 124   | 46   | 2-3/8 x 55 (2-M10 x 55)   |
| 2                  | 2.244          |                        |            |       |      |                           |
| 50                 | 60.3           |                        | 83.6       | 124   | 46   |                           |
| 2                  | 2.375          |                        |            |       |      |                           |
| 65                 | 73             |                        | 95         | 140   | 46   |                           |
| 2 1/2              | 2.875          |                        |            |       |      |                           |
| 65                 | 76.1           |                        | 98         | 139   | 46   | 2-3/8 x 60 (2-M10 x 60)   |
| 2 1/2              | 3              |                        |            |       |      |                           |
| 80                 | 88.9           |                        | 114        | 156   | 46   |                           |
| 3                  | 3.5            |                        |            |       |      |                           |
| 100                | 108            |                        | 142        | 189   | 50   |                           |
| 4                  | 4.25           |                        |            |       |      |                           |
| 100                | 114.3          |                        | 142        | 189   | 50   |                           |
| 4                  | 4.5            | 300PSI                 |            |       |      |                           |
| 125                | 133.0          |                        | 170        | 222   | 50   |                           |
| 5                  | 5.25           |                        |            |       |      |                           |
| 125                | 139.7          |                        | 170        | 222   | 50   |                           |
| 5                  | 5.5            |                        |            |       |      |                           |
| 125                | 141.3          |                        | 170        | 222   | 50   | 2-1/2 x 70 (2-M12 x 70)   |
| 5                  | 5.563          |                        |            |       |      |                           |
| 150                | 159.0          |                        | 196        | 244   | 50   |                           |
| 6                  | 6.25           |                        |            |       |      |                           |
| 150                | 165.1          |                        | 196        | 244   | 50   |                           |
| 6                  | 6.5            |                        |            |       |      |                           |
| 150                | 168.3          |                        | 198        | 251   | 50   |                           |
| 6                  | 6.625          |                        |            |       |      |                           |
| 200                | 219.1          |                        | 260        | 322   | 58   | 2-5/8 x 90 (2-M16 x 90)   |
| 8                  | 8.625          |                        |            |       |      |                           |
| 250                | 273.0          |                        | 319        | 393   | 64   | 2-3/4 x 110 (2-M20 x 110) |
| 10                 | 10.75          |                        |            |       |      |                           |
| 300                | 323.9          |                        | 374        | 453   | 65   | 2-3/4 x 130 (2-M20 x 130) |
| 12                 | 12.75          |                        |            |       |      |                           |
| 350                | 377.0          |                        | 428        | 478.4 | 75   |                           |
| 14                 | 14.843         |                        |            |       |      |                           |
| 400                | 426.0          |                        | 478        | 528.6 | 75   | 3-7/8 x 90 (3-M22 x 90)   |
| 16                 | 16.771         |                        |            |       |      |                           |

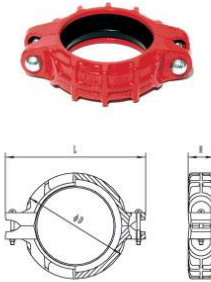
MODEL  
M1



Rigid Coupling(Heavy-duty)

| Nominal Size<br>mm/in | Pipe O.D<br>mm/in | Working pressure<br>(Mpa) | Dimensions |         |         | Bolt/Nut<br>No.-size<br>(mm) |
|-----------------------|-------------------|---------------------------|------------|---------|---------|------------------------------|
|                       |                   |                           | ΦD<br>mm   | L<br>mm | H<br>mm |                              |
| 25                    | 33.7              |                           | 55         | 97      | 45      | 2-3/8 x 40<br>(2-M10 x 40)   |
| 1                     | 1.327             |                           |            |         |         |                              |
| 32                    | 42.4              |                           | 63.5       | 107.5   | 45      |                              |
| 1 1/4                 | 1.669             |                           |            |         |         |                              |
| 40                    | 48.3              |                           | 69         | 114     | 45      | 2-3/8 x 50<br>(2-M10 x 50)   |
| 1 1/2                 | 1.9               |                           |            |         |         |                              |
| 65                    | 76.1              |                           | 101.2      | 144     | 46      |                              |
| 2 1/2                 | 3                 |                           |            |         |         |                              |
| 80                    | 88.9              |                           | 117.4      | 157     | 46      | 2-1/2 x 55<br>(M12 x 55)     |
| 3                     | 3.5               | 500PSI                    |            |         |         |                              |
| 100                   | 108               |                           | 144.4      | 195     | 50      |                              |
| 4                     | 4.25              |                           |            |         |         |                              |
| 100                   | 114.3             |                           | 149.2      | 200     | 50      | 2-1/2 x 75<br>(M12 x 75)     |
| 4                     | 4.5               |                           |            |         |         |                              |
| 150                   | 159               |                           | 203        | 268     | 50      |                              |
| 6                     | 6.25              |                           |            |         |         |                              |
| 150                   | 165.1             |                           | 207        | 273     | 50      | 2-5/8 x 85<br>(M16 x 85)     |
| 6                     | 6.5               |                           |            |         |         |                              |
| 200                   | 219.1             |                           | 276        | 347     | 58      | 2-3/4 x 110<br>(M20 x 110)   |
| 8                     | 8.625             |                           |            |         |         |                              |

MODEL  
M2

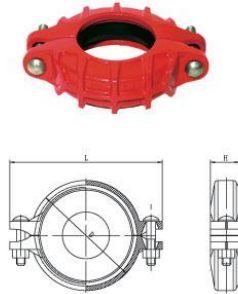


Flexible Coupling(Heavy-duty)

| Nominal Size<br>mm/in | Pipe O.D<br>mm/in | Working pressure<br>(Mpa) | Dimensions |         |         | Bolt/Nut<br>No.-size<br>(mm) |
|-----------------------|-------------------|---------------------------|------------|---------|---------|------------------------------|
|                       |                   |                           | ΦD<br>mm   | L<br>mm | H<br>mm |                              |
| 100                   | 114.3             |                           | 149.2      | 200     | 50      | 2-1/2 x 75<br>(M12 x 75)     |
| 4                     | 4.5               |                           |            |         |         |                              |
| 150                   | 165.1             |                           | 207        | 273     | 50      |                              |
| 6                     | 6.5               | 500PSI                    |            |         |         |                              |
| 150                   | 168.3             |                           | 209.4      | 272     | 50      | 2-5/8 x 85<br>(M16 x 85)     |
| 6                     | 6.625             |                           |            |         |         |                              |
| 200                   | 219.1             |                           | 276        | 347     | 58      | 2-3/4 x 110<br>(M20 x 110)   |
| 8                     | 8.625             |                           |            |         |         |                              |



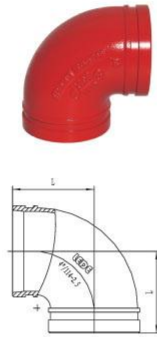
MODEL  
XGQT3



Reducing Flexible Coupling

| Nominal Size mm/in | Pipe O.D mm/in | Working pressure (Mpa) | Dimensions |       |      | Bolt/Nut No.-size (mm)  |
|--------------------|----------------|------------------------|------------|-------|------|-------------------------|
|                    |                |                        | Φ D mm     | L mm  | H mm |                         |
| 50 × 40            | 60.3 × 48.3    | 300PSI                 | 82         | 130   | 46   | 2-3/8 × 60 (M10 × 60)   |
| 2 × 1 1/2          | 2.375 × 1.9    |                        | 82         | 130   | 46   |                         |
| 65 × 25            | 73 × 33.7      |                        | 97         | 151   | 46   |                         |
| 2 1/2 × 1          | 2.875 × 1.327  |                        | 97         | 151   | 46   |                         |
| 65 × 32            | 73 × 42.4      |                        | 97         | 151   | 46   |                         |
| 2 1/2 × 1 1/4      | 2.875 × 1.669  |                        | 97         | 151   | 46   |                         |
| 65 × 40            | 73 × 48.3      |                        | 97         | 151   | 46   |                         |
| 2 1/2 × 1 1/2      | 2.875 × 1.9    |                        | 97         | 151   | 46   |                         |
| 65 × 50            | 73 × 60.3      |                        | 97         | 151   | 46   |                         |
| 2 1/2 × 2          | 2.875 × 2.375  |                        | 97         | 151   | 46   |                         |
| 65 × 50            | 76.1 × 60.3    | 300PSI                 | 107        | 151   | 46   | 2-1/2 × 70 (M12 × 70)   |
| 2 1/2 × 2          | 3 × 2.375      |                        | 107        | 151   | 46   |                         |
| 80 × 40            | 88.9 × 48.3    |                        | 112        | 166.6 | 46   |                         |
| 3 × 1 1/2          | 3.5 × 1.9      |                        | 112        | 166.6 | 46   |                         |
| 80 × 50            | 88.9 × 60.3    |                        | 123.6      | 166.6 | 46   |                         |
| 3 × 2              | 3.5 × 2.375    |                        | 123.6      | 166.6 | 46   |                         |
| 80 × 65            | 88.9 × 73.0    |                        | 123.6      | 166.6 | 46   |                         |
| 3 × 2 1/2          | 3.5 × 2.875    |                        | 123.6      | 166.6 | 46   |                         |
| 80 × 65            | 88.9 × 76.1    |                        | 123.6      | 166.6 | 46   |                         |
| 3 × 2 1/2          | 3.5 × 3        |                        | 123.6      | 166.6 | 46   |                         |
| 100 × 50           | 114.3 × 60.3   | 300PSI                 | 151.2      | 200   | 50   | 2-1/2 × 75 (M12 × 75)   |
| 4 × 2              | 4.5 × 2.375    |                        | 151.2      | 200   | 50   |                         |
| 100 × 65           | 114.3 × 73.0   |                        | 151.2      | 200   | 50   |                         |
| 4 × 2 1/2          | 4.5 × 2.875    |                        | 151.2      | 200   | 50   |                         |
| 100 × 65           | 114.3 × 76.1   |                        | 151.2      | 200   | 50   |                         |
| 4 × 2 1/2          | 4.5 × 3.0      |                        | 151.2      | 200   | 50   |                         |
| 100 × 80           | 114.3 × 88.9   |                        | 151.2      | 200   | 50   |                         |
| 4 × 3              | 4.5 × 3.5      |                        | 151.2      | 200   | 50   |                         |
| 125 × 100          | 141.3 × 114.3  |                        | 167        | 230   | 52   |                         |
| 5 × 4              | 5.563 × 4.5    |                        | 167        | 230   | 52   |                         |
| 150 × 80           | 165.1 × 88.9   | 300PSI                 | 197        | 275   | 52   | 2-5/8 × 85 (M16 × 85)   |
| 6 × 3              | 6.5 × 3.5      |                        | 197        | 275   | 52   |                         |
| 150 × 100          | 165.1 × 114.3  |                        | 197        | 275   | 52   |                         |
| 6 × 4              | 6.5 × 4.5      |                        | 197        | 275   | 52   |                         |
| 150 × 65           | 168.3 × 73     |                        | 199.4      | 275   | 52   |                         |
| 6 × 2 1/2          | 6.525 × 2.875  |                        | 199.4      | 275   | 52   |                         |
| 150 × 80           | 168.3 × 88.9   |                        | 199.4      | 275   | 52   |                         |
| 6 × 3              | 6.525 × 3.5    |                        | 199.4      | 275   | 52   |                         |
| 150 × 100          | 168.3 × 114.3  |                        | 199.4      | 275   | 52   |                         |
| 6 × 4              | 6.525 × 4.5    |                        | 199.4      | 275   | 52   |                         |
| 150 × 100          | 168.3 × 141.3  | 300PSI                 | 199.4      | 275   | 52   | 2-3/4 × 110 (M20 × 110) |
| 6 × 5              | 6.625 × 5.563  |                        | 258        | 336   | 58   |                         |
| 200 × 150          | 219.1 × 168.3  |                        | 258        | 336   | 58   |                         |
| 8 × 6              | 8.625 × 6.525  |                        |            |       |      |                         |

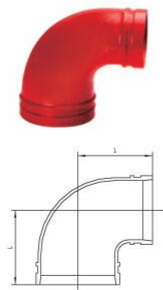
MODEL  
XGQT01



90° Elbow

| Nominal size mm/in | Pipe O.D mm/in | Working Pressure (Mpa) | Dimensions mm/in |     |
|--------------------|----------------|------------------------|------------------|-----|
|                    |                |                        | L(mm)            |     |
| 25                 | 33.7           |                        |                  |     |
| 1                  | 1.327          |                        |                  | 57  |
| 32                 | 42.4           |                        |                  |     |
| 1 1/4              | 1.669          |                        |                  | 70  |
| 40                 | 48.3           |                        |                  |     |
| 1 1/2              | 1.9            |                        |                  | 70  |
| 50                 | 60.3           |                        |                  |     |
| 2                  | 2.375          |                        | 70               | 83  |
| 65                 | 73             |                        |                  |     |
| 2 1/2              | 2.875          |                        | 76               | 95  |
| 65                 | 76.1           |                        |                  |     |
| 2 1/2              | 3              |                        | 76               | 95  |
| 80                 | 88.9           |                        |                  |     |
| 3                  | 3.5            |                        | 85               | 108 |
| 100                | 108            | 300PSI                 |                  |     |
| 54                 | 4.25           |                        | 102              | 127 |
| 100                | 114.3          |                        |                  |     |
| 4                  | 4.5            |                        | 102              | 127 |
| 125                | 133            |                        |                  |     |
| 5                  | 5.25           |                        | 121              |     |
| 125                | 139.7          |                        |                  |     |
| 5                  | 5.5            |                        | 121              | 140 |
| 125                | 141.3          |                        |                  |     |
| 5                  | 5.563          |                        | 121              | 140 |
| 150                | 159            |                        |                  |     |
| 6                  | 6.25           |                        | 130              |     |
| 150                | 165.1          |                        |                  |     |
| 6                  | 6.5            |                        | 130              | 165 |
| 150                | 168.3          |                        |                  |     |
| 6                  | 6.625          |                        | 130              | 165 |
| 200                | 219.1          |                        |                  |     |
| 8                  | 8.625          |                        | 175              | 197 |
| 250                | 273            |                        |                  |     |
| 10                 | 10.75          |                        | 215              |     |

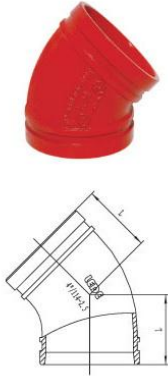
MODEL  
XGQT14



90° Reducing Elbow

| Nominal size mm/in | Pipe O.D mm/in | Working Pressure (Mpa) | Dimensions mm/in |      |
|--------------------|----------------|------------------------|------------------|------|
|                    |                |                        | L(mm)            |      |
| 80 x 65            | 88.9 x 76.1    |                        |                  | 108  |
| 3 x 2 1/2          | 3.5 x 3        |                        |                  | 4.25 |
| 100 x 65           | 114.3 x 76.1   |                        |                  | 127  |
| 4 x 2 1/2          | 4.5 x 3        |                        |                  | 5.00 |
| 100 x 80           | 114.3 x 88.9   | 300PSI                 |                  | 127  |
| 4 x 3              | 4.5 x 3.5      |                        |                  | 5.00 |
| 160 x 100          | 165.1 x 114.3  |                        |                  | 165  |
| 6 x 4              | 6.5 x 4.5      |                        |                  | 6.50 |
| 160 x 100          | 168.3 x 114.3  |                        |                  | 165  |
| 6 x 4              | 6.625 x 4.5    |                        |                  | 6.50 |

MODEL  
XGQT011



45° Elbow

| Nominal size mm/in | Pipe O.D mm/in | Working Pressure (Mpa) | Dimensions (mm) |     |    |
|--------------------|----------------|------------------------|-----------------|-----|----|
|                    |                |                        | L (mm)          |     |    |
| 25                 | 33.7           | 300PSI                 |                 | 45  |    |
| 1                  | 1.327          |                        |                 |     |    |
| 32                 | 42.4           |                        |                 | 45  |    |
| 1 1/4              | 1.669          |                        |                 |     |    |
| 40                 | 48.3           |                        |                 | 45  |    |
| 1 1/2              | 1.9            |                        |                 |     |    |
| 50                 | 60.3           |                        |                 | 55  |    |
| 2                  | 2.375          |                        |                 |     |    |
| 65                 | 73             |                        |                 | 60  |    |
| 2 1/2              | 2.875          |                        |                 |     |    |
| 65                 | 76.1           |                        |                 | 48  | 60 |
| 2 1/2              | 3              |                        |                 |     |    |
| 80                 | 88.9           |                        |                 | 53  | 65 |
| 3                  | 3.5            |                        |                 |     |    |
| 100                | 108            |                        |                 | 60  | 80 |
| 4                  | 4.25           |                        |                 |     |    |
| 100                | 114.3          |                        |                 | 60  | 80 |
| 4                  | 4.5            |                        |                 |     |    |
| 125                | 133            |                        |                 | 68  | 90 |
| 5                  | 5.25           |                        |                 |     |    |
| 125                | 139.7          |                        | 68              | 90  |    |
| 5                  | 5.5            |                        |                 |     |    |
| 125                | 141.3          |                        | 68              | 90  |    |
| 5                  | 5.563          |                        |                 |     |    |
| 150                | 159            |                        | 75.5            | 95  |    |
| 6                  | 6.25           |                        |                 |     |    |
| 150                | 165.1          |                        | 75.5            | 95  |    |
| 6                  | 6.5            |                        |                 |     |    |
| 150                | 168.3          |                        | 75.5            | 95  |    |
| 6                  | 6.625          |                        |                 |     |    |
| 200                | 219.1          |                        | 95              | 108 |    |
| 8                  | 8.625          |                        |                 |     |    |
| 250                | 273            |                        | 112             |     |    |
| 10                 | 10.75          |                        |                 |     |    |



MODEL  
XGQT012



22.5° Elbow

| Nominal size mm/in | Pipe O.D mm/in | Working Pressure (Mpa) | Dimensions (mm) |
|--------------------|----------------|------------------------|-----------------|
|                    |                |                        | L (mm)          |
| 50                 | 60.3           | 300PSI                 | 46              |
| 2                  | 2.375          |                        |                 |
| 80                 | 88.9           |                        | 54              |
| 3                  | 3.5            |                        |                 |
| 100                | 114.3          |                        | 45              |
| 4                  | 4.5            |                        |                 |
| 125                | 139.7          |                        | 70              |
| 5                  | 5.5            |                        |                 |
| 150                | 165.1          | 65                     |                 |
| 6                  | 6.5            |                        |                 |
| 200                | 219.1          | 80                     |                 |
| 8                  | 8.625          |                        |                 |

MODEL  
XGQT013

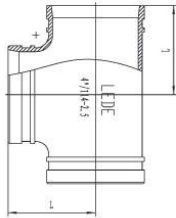


11.25° Elbow

| Nominal size mm/in | Pipe O.D mm/in | Working Pressure (Mpa) | Dimensions (mm) |
|--------------------|----------------|------------------------|-----------------|
|                    |                |                        | L (mm)          |
| 50                 | 60.3           | 300PSI                 | 35              |
| 2                  | 2.375          |                        |                 |
| 80                 | 88.9           |                        | 36              |
| 3                  | 3.5            |                        |                 |
| 100                | 114.3          |                        | 61              |
| 4                  | 4.5            |                        |                 |
| 125                | 139.7          |                        | 48              |
| 5                  | 5.5            |                        |                 |
| 150                | 165.1          | 71                     |                 |
| 6                  | 6.5            |                        |                 |
| 200                | 219.1          | 50                     |                 |
| 8                  | 8.625          |                        |                 |



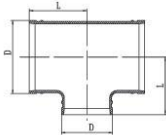
MODEL  
XGQT03



Grooved Tee

| Nominal size<br>mm/in | Pipe O.D mm/in | Working<br>Pressure<br>(Mpa) | Dimensions(mm) |     |
|-----------------------|----------------|------------------------------|----------------|-----|
|                       |                |                              | L(mm)          |     |
| 25                    | 33.7           |                              |                | 57  |
| 1                     | 1.327          |                              |                |     |
| 32                    | 42.4           |                              |                | 70  |
| 1 1/4                 | 1.669          |                              |                |     |
| 40                    | 48.3           |                              |                | 70  |
| 1 1/2                 | 1.9            |                              |                |     |
| 50                    | 60.3           |                              | 70             | 84  |
| 2                     | 2.375          |                              |                |     |
| 65                    | 73             |                              | 76             | 101 |
| 2 1/2                 | 2.875          |                              |                |     |
| 65                    | 76.1           |                              | 76             | 101 |
| 2 1/2                 | 3              |                              |                |     |
| 80                    | 88.9           |                              | 85             | 108 |
| 3                     | 3.5            |                              |                |     |
| 100                   | 108            |                              | 102            |     |
| 4                     | 4.25           | 300PSI                       |                |     |
| 100                   | 114.3          |                              | 102            | 127 |
| 4                     | 4.5            |                              |                |     |
| 125                   | 133            |                              | 121            |     |
| 5                     | 5.25           |                              |                |     |
| 125                   | 139.7          |                              | 121            | 140 |
| 5                     | 5.5            |                              |                |     |
| 125                   | 141.3          |                              | 121            | 140 |
| 5                     | 5.563          |                              |                |     |
| 150                   | 159            |                              | 130            |     |
| 6                     | 6.25           |                              |                |     |
| 150                   | 165.1          |                              | 130            | 165 |
| 6                     | 6.5            |                              |                |     |
| 150                   | 168.3          |                              | 130            | 165 |
| 6                     | 6.625          |                              |                |     |
| 200                   | 219.1          |                              | 175            | 197 |
| 8                     | 8.625          |                              |                |     |
| 250                   | 273            |                              | 215            |     |
| 10                    | 10.75          |                              |                |     |
| 300                   | 323.9          |                              | 245            |     |
| 12                    | 12.75          |                              |                |     |

MODEL  
XGQT03

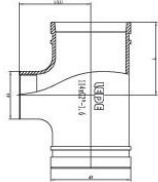


Grooved Reducing Tee

| Nominal size mm/in | Pipe O.D mm/in | Working pressure (Mpa) | Dimensions |      |      | Nominal size mm/in | Pipe O.D mm/in | Working pressure (Mpa) | Dimensions |      |      |
|--------------------|----------------|------------------------|------------|------|------|--------------------|----------------|------------------------|------------|------|------|
|                    |                |                        | L mm       | D mm | d mm |                    |                |                        | L mm       | D mm | d mm |
| 50 x 40            | 60.3 x 48.3    |                        | 70         | 60   | 48   | 6 x 4              | 6.5 x 4.5      |                        | 130        | 166  | 114  |
| 2 x 1 1/2          | 2.375 x 1.9    |                        |            |      |      | 150 x 125          | 165.1 x 139.7  |                        |            |      |      |
| 65 x 40            | 73 x 48.3      |                        | 102        | 73   | 48   | 6 x 5              | 6.5 x 5.5      |                        | 130        | 166  | 140  |
| 2 1/2 x 1 1/2      | 2.875 x 1.9    |                        |            |      |      | 150 x 125          | 165.1 x 141.3  |                        |            |      |      |
| 65 x 50            | 73 x 60.3      |                        | 76         | 73   | 60   | 6 x 5              | 6.5 x 5.563    |                        | 130        | 166  | 141  |
| 2 1/2 x 2          | 2.875 x 2.375  |                        |            |      |      | 150 x 65           | 168.3 x 76.1   |                        |            |      |      |
| 65 x 50            | 76.1 x 60.3    |                        | 76         | 76   | 60   | 6 x 2 1/2          | 6.625 x 3      |                        | 130        | 168  | 76   |
| 2 1/2 x 2          | 3 x 2.375      |                        |            |      |      | 150 x 80           | 168.3 x 88.9   |                        |            |      |      |
| 80 x 40            | 88.9 x 48.3    |                        | 86         | 89   | 48   | 6 x 3              | 6.625 x 3.5    |                        | 130        | 168  | 89   |
| 3 x 1 1/2          | 3.5 x 1.9      |                        |            |      |      | 150 x 125          | 168.3 x 139.7  |                        |            |      |      |
| 80 x 50            | 88.9 x 60.3    |                        | 86         | 89   | 60   | 6 x 5              | 6.625 x 5.5    |                        | 130        | 168  | 140  |
| 3 x 2              | 3.5 x 2.375    |                        |            |      |      | 150 x 125          | 168.3 x 141.3  |                        |            |      |      |
| 80 x 65            | 88.9 x 73.0    |                        | 86         | 89   | 73   | 6 x 5              | 6.625 x 5.563  |                        | 130        | 168  | 141  |
| 3 x 2 1/2          | 3.5 x 2.875    |                        |            |      |      | 200 x 65           | 219.1 x 76.1   |                        |            |      |      |
| 80 x 65            | 88.9 x 76.1    |                        | 86         | 89   | 76   | 8 x 2 1/2          | 8.625 x 3      |                        | 174        | 219  | 76   |
| 3 x 2 1/2          | 3.5 x 3        |                        |            |      |      | 200 x 80           | 219.1 x 88.9   |                        |            |      |      |
| 100 x 65           | 108 x 76.1     |                        | 102        | 108  | 76   | 8 x 3              | 8.625 x 3.5    |                        | 174        | 219  | 89   |
| 4 x 2 1/2          | 4.25 x 3       |                        |            |      |      | 200 x 100          | 219.1 x 108    |                        |            |      |      |
| 100 x 80           | 108 x 88.9     |                        | 102        | 108  | 89   | 8 x 4              | 8.625 x 4.25   |                        | 174        | 219  | 108  |
| 4 x 3              | 4.25 x 3.5     |                        |            |      |      | 200 x 100          | 219.1 x 114.3  |                        |            |      |      |
| 100 x 65           | 114.3 x 73.0   |                        | 102        | 114  | 73   | 8 x 4              | 8.625 x 4.5    |                        | 174        | 219  | 114  |
| 4 x 2 1/2          | 4.5 x 2.875    |                        |            |      |      | 200 x 125          | 219.1 x 133    |                        |            |      |      |
| 100 x 65           | 114.3 x 76.1   |                        | 102        | 114  | 76   | 8 x 5              | 8.625 x 5.25   |                        | 174        | 219  | 133  |
| 4 x 2 1/2          | 4.5 x 3        | 300PSI                 |            |      |      | 200 x 125          | 219.1 x 139.7  | 300PSI                 |            |      |      |
| 100 x 80           | 114.3 x 88.9   |                        | 102        | 114  | 89   | 8 x 5              | 8.625 x 5.5    |                        | 174        | 219  | 140  |
| 4 x 3              | 4.5 x 3.5      |                        |            |      |      | 200 x 150          | 219.1 x 159    |                        |            |      |      |
| 125 x 50           | 139.7 x 60.3   |                        | 121        | 140  | 60   | 8 x 6              | 8.625 x 6.25   |                        | 174        | 219  | 159  |
| 5 x 2              | 5.5 x 2.375    |                        |            |      |      | 200 x 150          | 219.1 x 165.1  |                        |            |      |      |
| 125 x 65           | 139.7 x 73.0   |                        | 121        | 140  | 73   | 8 x 6              | 8.625 x 6.5    |                        | 174        | 219  | 165  |
| 5 x 2 1/2          | 5.5 x 2.875    |                        |            |      |      | 250 x 100          | 273 x 108      |                        |            |      |      |
| 125 x 65           | 139.7 x 76.1   |                        | 121        | 140  | 76   | 10 x 4             | 10.75 x 4.25   |                        | 215        | 273  | 108  |
| 5 x 2 1/2          | 5.5 x 3        |                        |            |      |      | 250 x 100          | 273 x 114.3    |                        |            |      |      |
| 125 x 80           | 139.7 x 88.9   |                        | 121        | 140  | 89   | 10 x 4             | 10.75 x 4.5    |                        | 215        | 273  | 114  |
| 5 x 3              | 5.5 x 3.5      |                        |            |      |      | 250 x 125          | 273 x 133      |                        |            |      |      |
| 125 x 100          | 139.7 x 108    |                        | 121        | 140  | 108  | 10 x 5             | 10.75 x 5.25   |                        | 215        | 273  | 133  |
| 5 x 4              | 5.5 x 4.25     |                        |            |      |      | 250 x 125          | 273 x 139.7    |                        |            |      |      |
| 125 x 100          | 139.7 x 114.3  |                        | 121        | 140  | 114  | 10 x 5             | 10.75 x 5.5    |                        | 215        | 273  | 140  |
| 5 x 4              | 5.5 x 4.5      |                        |            |      |      | 250 x 150          | 273 x 159      |                        |            |      |      |
| 150 x 65           | 159 x 76.1     |                        | 130        | 159  | 76   | 10 x 6             | 10.75 x 6.25   |                        | 215        | 273  | 159  |
| 6 x 2 1/2          | 6.25 x 3       |                        |            |      |      | 250 x 150          | 273 x 165.1    |                        |            |      |      |
| 150 x 80           | 159 x 88.9     |                        | 130        | 159  | 89   | 10 x 6             | 10.75 x 6.5    |                        | 215        | 273  | 165  |
| 6 x 3              | 6.25 x 3.5     |                        |            |      |      | 250 x 200          | 273 x 219.1    |                        |            |      |      |
| 150 x 125          | 159 x 133      |                        | 130        | 159  | 133  | 10 x 8             | 10.75 x 8.625  |                        | 215        | 273  | 219  |
| 6 x 5              | 6.25 x 5.25    |                        |            |      |      | 300 x 150          | 323.9 x 159    |                        |            |      |      |
| 150 x 125          | 159 x 139.7    |                        | 130        | 159  | 140  | 12 x 6             | 12.75 x 6.25   |                        | 245        | 325  | 159  |
| 6 x 5              | 6.25 x 5.5     |                        |            |      |      | 300 x 150          | 323.9 x 165.1  |                        |            |      |      |
| 150 x 50           | 165.1 x 60.3   |                        | 130        | 165  | 60   | 12 x 6             | 12.75 x 6.5    |                        | 245        | 325  | 165  |
| 6 x 2              | 6.5 x 2.375    |                        |            |      |      | 300 x 200          | 323.9 x 219.1  |                        |            |      |      |
| 150 x 65           | 165.1 x 76.1   |                        | 130        | 165  | 76   | 12 x 8             | 12.75 x 8.625  |                        | 245        | 325  | 219  |
| 6 x 2 1/2          | 6.5 x 3        |                        |            |      |      | 300 x 250          | 323.9 x 273    |                        |            |      |      |
| 150 x 80           | 165.1 x 88.9   |                        | 130        | 165  | 89   | 12 x 10            | 12.75 x 10.75  |                        | 245        | 325  | 273  |
| 6 x 3              | 6.5 x 3.5      |                        |            |      |      | 350 x 200          | 377.0 x 219.1  |                        |            |      |      |
| 150 x 100          | 165.1 x 114.3  |                        | 130        | 165  | 114  | 14 x 8             | 14.843 x 8.625 |                        | 305        | 377  | 219  |



MODEL  
XGQT03

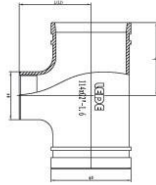


Threaded Reducing Tee

| Nominal Size mm/in | Pipe O.D mm/in  | Working pressure (Mpa) | Dimensions            |      |      |     |     |
|--------------------|-----------------|------------------------|-----------------------|------|------|-----|-----|
|                    |                 |                        | L(L1) <sup>①</sup> mm | D mm | d mm |     |     |
| 50 x 25            | 60.3 x Rc1      |                        |                       | 70   | 60   | 40  |     |
| 2 x 1              | 2.375 x 1.327   |                        |                       |      |      |     |     |
| 50 x 32            | 60.3 x Rc1 1/4  |                        |                       | 70   | 60   | 52  |     |
| 2 x 1 1/4          | 2.375 x 1.669   |                        |                       |      |      |     |     |
| 50 x 40            | 60.3 x Rc1 1/2  |                        |                       | 70   | 60   | 58  |     |
| 2 x 1 1/2          | 2.375 x 1.9     |                        |                       |      |      |     |     |
| 65 x 25            | 73.0 x Rc1      |                        |                       | 76   | 73   | 40  |     |
| 2 1/2 x 1          | 2.875 x 1.327   |                        |                       |      |      |     |     |
| 65 x 32            | 73.0 x Rc1 1/4  |                        |                       | 76   | 73   | 52  |     |
| 2 1/2 x 1 1/4      | 2.875 x 1.669   |                        |                       |      |      |     |     |
| 65 x 40            | 73 x Rc1 1/2    |                        |                       | 76   | 73   | 58  |     |
| 2 1/2 x 1 1/2      | 2.875 x 1.9     |                        |                       |      |      |     |     |
| 65 x 25            | 76.1 x Rc1      |                        |                       | 76   | 76   | 40  |     |
| 2 1/2 x 1          | 3 x 1.327       |                        |                       |      |      |     |     |
| 65 x 32            | 76.1 x Rc1 1/4  |                        |                       | 76   | 76   | 52  |     |
| 2 1/2 x 1 1/4      | 3 x 1.669       |                        |                       |      |      |     |     |
| 65 x 40            | 76.1 x Rc1 1/2  |                        |                       | 76   | 76   | 58  |     |
| 2 1/2 x 1 1/2      | 3 x 1.9         |                        |                       |      |      |     |     |
| 65 x 50            | 76.1 x Rc2      |                        |                       | 76   | 76   | 68  |     |
| 2 1/2 x 2          | 3 x 2.375       |                        |                       |      |      |     |     |
| 80 x 25            | 88.9 x Rc1      |                        |                       | 86   | 89   | 40  |     |
| 3 x 1              | 3.5 x 1.327     |                        |                       |      |      |     |     |
| 80 x 32            | 88.9 x Rc1 1/4  |                        |                       | 86   | 89   | 52  |     |
| 3 x 1 1/4          | 3.5 x 1.669     |                        |                       |      |      |     |     |
| 80 x 40            | 88.9 x Rc1 1/2  |                        |                       | 86   | 89   | 56  |     |
| 3 x 1 1/2          | 3.5 x 1.9       |                        |                       |      |      |     |     |
| 80 x 50            | 88.9 x Rc2      |                        |                       | 86   | 89   | 68  |     |
| 3 x 2              | 3.5 x 2.375     |                        |                       |      |      |     |     |
| 80 x 65            | 88.9 x Rc2 1/2  |                        |                       | 86   | 89   | 86  |     |
| 3 x 2 1/2          | 3.5 x 3         |                        |                       |      |      |     |     |
| 100 x 50           | 108.0 x Rc2     | 300PSI                 |                       | 102  | 108  | 68  |     |
| 4 x 2              | 4.25 x 2.375    |                        |                       |      |      |     |     |
| 100 x 65           | 108.0 x Rc2 1/2 |                        |                       | 102  | 108  | 86  |     |
| 4 x 2 1/2          | 4.25 x 3        |                        |                       |      |      |     |     |
| 100 x 80           | 108 x Rc3       |                        |                       | 102  | 108  | 99  |     |
| 4 x 3              | 4.25 x 3.5      |                        |                       |      |      |     |     |
| 100 x 25           | 114.3 x Rc1     |                        | 90                    | 98*  | 114  | 40  |     |
| 4 x 1              | 4.5 x 1.327     |                        |                       |      |      |     |     |
| 100 x 32           | 114.3 x Rc1 1/4 |                        | 90                    | 98*  | 114  | 52  |     |
| 4 x 1 1/4          | 4.5 x 1.669     |                        |                       |      |      |     |     |
| 100 x 40           | 114.3 x Rc1 1/2 |                        | 90                    | 98*  | 114  | 58  |     |
| 4 x 1 1/2          | 4.5 x 1.9       |                        |                       |      |      |     |     |
| 100 x 50           | 114.3 x Rc2     |                        | 90                    | 98*  | 114  | 70  |     |
| 4 x 2              | 4.5 x 2.375     |                        |                       |      |      |     |     |
| 100 x 65           | 114.3 x Rc2 1/2 |                        | 90                    | 98*  | 114  | 86  |     |
| 4 x 2 1/2          | 4.5 x 3         |                        |                       |      |      |     |     |
| 100 x 80           | 114.3 x Rc3     |                        | 90                    | 98*  | 114  | 89  |     |
| 4 x 3              | 4.5 x 3.5       |                        |                       |      |      |     |     |
| 125 x 50           | 139.7 x Rc2     |                        |                       | 105  | 140  | 70  |     |
| 5 x 2              | 5.5 x 2.375     |                        |                       |      |      |     |     |
| 125 x 65           | 139.7 x Rc2 1/2 |                        |                       | 105  | 140  | 86  |     |
| 5 x 2 1/2          | 5.5 x 3         |                        |                       |      |      |     |     |
| 125 x 80           | 139.7 x Rc3     |                        |                       | 105  | 140  | 99  |     |
| 5 x 3              | 5.5 x 3.5       |                        |                       |      |      |     |     |
| 125 x 100          | 139.7 x Rc4     |                        |                       |      | 121  | 140 | 124 |
| 5 x 4              | 5.5 x 4.5       |                        |                       |      |      |     |     |
| 150 x 50           | 159.0 x Rc2     |                        |                       | 140  | 159  | 70  |     |
| 6 x 2              | 6.25 x 2.375    |                        |                       |      |      |     |     |
| 150 x 65           | 159.0 x Rc2 1/2 |                        |                       | 140  | 159  | 86  |     |
| 6 x 2 1/2          | 6.25 x 3        |                        |                       |      |      |     |     |
| 150 x 25           | 165.1 x Rc1     |                        |                       | 140  | 165  | 40  |     |
| 6 x 1              | 6.5 x 1.327     |                        |                       |      |      |     |     |
| 150 x 32           | 165.1 x Rc1 1/4 |                        |                       | 140  | 165  | 52  |     |
| 6 x 1 1/4          | 6.5 x 1.669     |                        |                       |      |      |     |     |
| 150 x 40           | 165.1 x Rc1 1/2 |                        |                       |      | 165  | 58  |     |
| 6 x 1 1/2          | 6.5 x 1.9       |                        | 110                   | 120* |      |     |     |
| 150 x 50           | 165.1 x Rc2     |                        |                       |      | 165  | 70  |     |
| 6 x 2              | 6.5 x 2.375     |                        | 110                   | 120* |      |     |     |

① Note: \* means L1 size, others are L size

MODEL  
XGQT03

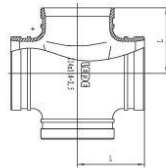


Threaded Reducing Tee

| Nominal Size<br>mm/in | Pipe O.D<br>mm/in | Working<br>pressure<br>(Mpa) | Dimensions         |      |     |     |  |  |     |     |    |
|-----------------------|-------------------|------------------------------|--------------------|------|-----|-----|--|--|-----|-----|----|
|                       |                   |                              | L(L1) <sup>①</sup> |      | D   | d   |  |  |     |     |    |
|                       |                   |                              | mm                 |      |     |     |  |  |     |     |    |
| 150 × 65              | 165.1 × Rc2 1/2   | 300PSI                       | 110                | 120* | 165 | 86  |  |  |     |     |    |
| 6 × 2 1/2             | 6.5 × 3           |                              |                    |      |     |     |  |  |     |     |    |
| 150 × 80              | 165.1 × Rc3       |                              | 110                | 120* | 165 | 99  |  |  |     |     |    |
| 6 × 3                 | 6.5 × 3.5         |                              |                    |      |     |     |  |  |     |     |    |
| 150 × 100             | 165.1 × Rc4       |                              | 110                | 120* | 165 | 124 |  |  |     |     |    |
| 6 × 4                 | 6.5 × 4.5         |                              |                    |      |     |     |  |  |     |     |    |
| 200 × 50              | 219.1 × Rc2       | 300PSI                       |                    | 174  | 219 | 70  |  |  |     |     |    |
| 8 × 2                 | 8.625 × 2.375     |                              |                    |      |     |     |  |  |     |     |    |
| 200 × 50              | 219.1 × Rc2 1/2   |                              |                    |      |     |     |  |  | 174 | 219 | 86 |
| 8 × 2 1/2             | 8.625 × 3         |                              |                    |      |     |     |  |  |     |     |    |
| 200 × 80              | 219.1 × Rc3       |                              |                    |      |     |     |  |  | 174 | 219 | 99 |
| 8 × 3                 | 8.625 × 3.5       |                              |                    |      |     |     |  |  |     |     |    |
| 200 × 100             | 219.1 × Rc4       |                              |                    | 174  | 219 | 124 |  |  |     |     |    |
| 8 × 4                 | 8.625 × 4.5       |                              |                    |      |     |     |  |  |     |     |    |

① Note: \* means L1 size, others are L size

MODEL  
XGQT05

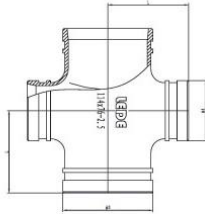


Cross

| Nominal size<br>mm/in | Pipe O.D mm/in | Working Pressure<br>(Mpa) | Dimensions(mm) |
|-----------------------|----------------|---------------------------|----------------|
|                       |                |                           | L(mm)          |
| 50                    | 60.3           | 300PSI                    | 70             |
| 2                     | 2.375          |                           | 70             |
| 65                    | 73             |                           | 76             |
| 2 1/2                 | 2.875          |                           | 76             |
| 65                    | 76.1           |                           | 76             |
| 2 1/2                 | 3              |                           | 86             |
| 80                    | 88.9           |                           | 86             |
| 3                     | 3.5            |                           | 102            |
| 100                   | 108            |                           | 102            |
| 4                     | 4.25           |                           | 102            |
| 100                   | 114.3          |                           | 102            |
| 4                     | 4.5            |                           | 121            |
| 125                   | 133            |                           | 121            |
| 5                     | 5.25           |                           | 121            |
| 125                   | 139.7          |                           | 140            |
| 5                     | 5.5            |                           | 140            |
| 150                   | 159            |                           | 140            |
| 6                     | 6.25           |                           | 165            |
| 150                   | 165.1          |                           | 165            |
| 6                     | 6.5            |                           | 174            |
| 150                   | 168.3          | 174                       |                |
| 6                     | 6.625          | 174                       |                |
| 200                   | 219.1          | 174                       |                |
| 8                     | 8.625          | 174                       |                |



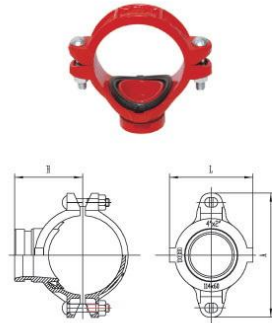
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XGQT05



Grooved Reducing Cross

| Nominal size mm/in | Pipe O.D mm/in | Working Pressure ( Mpa ) | Dimensions |      |      |
|--------------------|----------------|--------------------------|------------|------|------|
|                    |                |                          | L mm       | D mm | d mm |
| 65 x 50            | 76.1 x 60.3    |                          | 76         | 76   | 60   |
| 2 1/2 x 2          | 3 x 2.375      |                          |            |      |      |
| 80 x 50            | 88.9 x 60.3    |                          | 86         | 89   | 60   |
| 3 x 2              | 3.5 x 2.375    |                          |            |      |      |
| 80 x 65            | 88.9 x 76.1    |                          | 86         | 89   | 76   |
| 3 x 2 1/2          | 3.5 x 3        |                          |            |      |      |
| 100 x 50           | 108 x 60.3     |                          | 102        | 108  | 60   |
| 4 x 2              | 4.25 x 2.375   |                          |            |      |      |
| 100 x 65           | 108 x 76.1     |                          | 102        | 108  | 76   |
| 4 x 2 1/2          | 4.25 x 3       |                          |            |      |      |
| 100 x 50           | 114.3 x 60.3   | 102                      | 114        | 60   |      |
| 4 x 2              | 4.5 x 2.375    |                          |            |      |      |
| 100 x 65           | 114.3 x 76.1   | 102                      | 114        | 76   |      |
| 4 x 2 1/2          | 4.5 x 3        |                          |            |      |      |
| 100 x 80           | 114.3 x 88.9   | 102                      | 114        | 89   |      |
| 4 x 3              | 4.5 x 3.5      |                          |            |      |      |
| 125 x 65           | 133 x 76.1     | 121                      | 133        | 76   |      |
| 5 x 2 1/2          | 5.25 x 3       |                          |            |      |      |
| 125 x 80           | 133 x 88.9     | 121                      | 133        | 89   |      |
| 5 x 3              | 5.25 x 3.5     |                          |            |      |      |
| 125 x 100          | 133 x 108      | 121                      | 133        | 108  |      |
| 5 x 4              | 5.25 x 4.25    |                          |            |      |      |
| 125 x 100          | 133 x 114.3    | 121                      | 133        | 114  |      |
| 5 x 4              | 5.25 x 4.5     |                          |            |      |      |
| 125 x 65           | 139.7 x 76.1   | 121                      | 140        | 76   |      |
| 5 x 2 1/2          | 5.5 x 3        |                          |            |      |      |
| 125 x 80           | 139.7 x 88.9   | 121                      | 140        | 89   |      |
| 5 x 3              | 5.5 x 3.5      |                          |            |      |      |
| 125 x 100          | 139.7 x 108    | 121                      | 140        | 108  |      |
| 5 x 4              | 5.5 x 4.25     |                          |            |      |      |
| 125 x 100          | 139.7 x 114.3  | 121                      | 140        | 114  |      |
| 5 x 4              | 5.5 x 4.5      |                          |            |      |      |
| 150 x 65           | 159 x 76.1     | 140                      | 159        | 76   |      |
| 6 x 2 1/2          | 6.25 x 3       |                          |            |      |      |
| 150 x 80           | 159 x 88.9     | 140                      | 159        | 89   |      |
| 6 x 3              | 6.25 x 3.5     |                          |            |      |      |
| 150 x 100          | 159 x 108      | 140                      | 159        | 108  |      |
| 6 x 4              | 6.25 x 4.25    |                          |            |      |      |
| 150 x 100          | 159 x 114.3    | 140                      | 159        | 114  |      |
| 6 x 4              | 6.25 x 4.5     |                          |            |      |      |
| 150 x 125          | 159 x 133      | 140                      | 159        | 133  |      |
| 6 x 5              | 6.25 x 5.25    |                          |            |      |      |
| 150 x 125          | 159 x 139.7    | 140                      | 159        | 140  |      |
| 6 x 5              | 6.25 x 5.5     |                          |            |      |      |
| 150 x 50           | 165.1 x 60.3   | 140                      | 165        | 60   |      |
| 6 x 2              | 6.5 x 2.375    |                          |            |      |      |
| 150 x 65           | 165.1 x 76.1   | 140                      | 165        | 76   |      |
| 6 x 2 1/2          | 6.5 x 3        |                          |            |      |      |
| 150 x 80           | 165.1 x 88.9   | 140                      | 165        | 89   |      |
| 6 x 3              | 6.5 x 3.5      |                          |            |      |      |
| 150 x 100          | 165.1 x 108    | 140                      | 165        | 108  |      |
| 6 x 4              | 6.5 x 4.25     |                          |            |      |      |
| 150 x 100          | 165.1 x 114.3  | 140                      | 165        | 114  |      |
| 6 x 4              | 6.5 x 4.5      |                          |            |      |      |
| 150 x 125          | 165.1 x 133    | 140                      | 165        | 133  |      |
| 6 x 5              | 6.5 x 5.25     |                          |            |      |      |
| 150 x 125          | 165.1 x 139.7  | 140                      | 165        | 140  |      |
| 6 x 5              | 6.5 x 5.5      |                          |            |      |      |
| 200 x 65           | 219.1 x 76.1   | 174                      | 219        | 76   |      |
| 8 x 2 1/2          | 8.625 x 3      |                          |            |      |      |
| 200 x 80           | 219.1 x 88.9   | 174                      | 219        | 89   |      |
| 8 x 3              | 8.625 x 3.5    |                          |            |      |      |
| 200 x 100          | 219.1 x 108    | 174                      | 219        | 108  |      |
| 8 x 4              | 8.625 x 4.25   |                          |            |      |      |
| 200 x 100          | 219.1 x 114.3  | 174                      | 219        | 114  |      |
| 8 x 4              | 8.625 x 4.5    |                          |            |      |      |
| 200 x 125          | 219.1 x 133    | 174                      | 219        | 133  |      |
| 8 x 5              | 8.625 x 5.25   |                          |            |      |      |
| 200 x 125          | 219.1 x 139.7  | 174                      | 219        | 140  |      |
| 8 x 5              | 8.625 x 5.5    |                          |            |      |      |
| 200 x 150          | 219.1 x 159    | 174                      | 219        | 159  |      |
| 8 x 6              | 8.625 x 6.25   |                          |            |      |      |
| 200 x 150          | 219.1 x 165.1  | 174                      | 219        | 165  |      |
| 8 x 6              | 8.625 x 6.5    |                          |            |      |      |

MODEL  
XGQT04

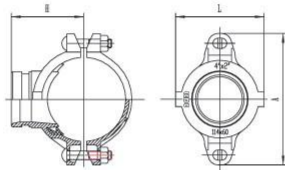


Grooved Mechanical Tee

| Nominal Size<br>mm/in | Pipe O.D<br>mm/in | Working pressure<br>(Mpa) | Dimensions |         |         | Bolt/Nut<br>No.,-size<br>(mm) | Hole<br>Dimension<br>(mm) |
|-----------------------|-------------------|---------------------------|------------|---------|---------|-------------------------------|---------------------------|
|                       |                   |                           | A<br>mm    | L<br>mm | H<br>mm |                               |                           |
| 50 x 32               | 60.3 x 42.4       |                           | 120        | 83      | 70      |                               | φ 46                      |
| 2 x 1/4               | 2.375 x 1.669     |                           |            |         |         | 2-3/8 x 50<br>(2-M10 x 50)    |                           |
| 50 x 40               | 60.3 x 48.3       |                           | 120        | 83      | 70      |                               | φ 46                      |
| 2 x 1/2               | 2.375 x 1.9       |                           |            |         |         |                               |                           |
| 65 x 32               | 76.1 x 42.4       |                           | 139        | 83      | 73      |                               | φ 46                      |
| 2 1/2 x 1/4           | 3 x 1.669         |                           |            |         |         |                               |                           |
| 65 x 40               | 76.1 x 48.3       |                           | 139        | 90      | 75      |                               | φ 53                      |
| 2 1/2 x 1/2           | 3 x 1.9           |                           |            |         |         |                               |                           |
| 80 x 32               | 88.9 x 42.4       |                           | 155        | 83      | 82      | 2-3/8 x 60<br>(2-M10 x 60)    | φ 46                      |
| 3 x 1/4               | 3.5 x 1.669       |                           |            |         |         |                               |                           |
| 80 x 40               | 88.9 x 48.3       |                           | 155        | 87      | 82      |                               | φ 53                      |
| 3 x 1/2               | 3.5 x 1.9         |                           |            |         |         |                               |                           |
| 80 x 50               | 88.9 x 60.3       |                           | 152        | 100     | 82      |                               | φ 64                      |
| 3 x 2                 | 3.5 x 2.375       |                           |            |         |         |                               |                           |
| 100 x 25              | 114.3 x 33.7      |                           | 181        | 72      | 95.5    |                               | φ 38                      |
| 4 x 1                 | 4.5 x 1.327       |                           |            |         |         |                               |                           |
| 100 x 32              | 114.3 x 42.4      |                           | 181        | 83      | 95.5    |                               | φ 46                      |
| 4 x 1/4               | 4.5 x 1.669       |                           |            |         |         |                               |                           |
| 100 x 40              | 114.3 x 48.3      |                           | 181        | 90      | 95.5    |                               | φ 53                      |
| 4 x 1/2               | 4.5 x 1.9         |                           |            |         |         |                               |                           |
| 100 x 50              | 114.3 x 60.3      | 300PSI                    | 181        | 100     | 95.5    | 2-1/2 x 70<br>(2-M12 x 70)    | φ 64                      |
| 4 x 2                 | 4.5 x 2.375       |                           |            |         |         |                               |                           |
| 100 x 65              | 114.3 x 73        |                           | 181        | 117     | 95.5    |                               | φ 80                      |
| 4 x 2 1/2             | 4.5 x 2.875       |                           |            |         |         |                               |                           |
| 100 x 65              | 114.3 x 76.1      |                           | 181        | 117     | 95.5    |                               | φ 80                      |
| 4 x 2 1/2             | 4.5 x 3           |                           |            |         |         |                               |                           |
| 100 x 80              | 114.3 x 88.9      |                           | 181        | 129     | 95.5    |                               | φ 92                      |
| 4 x 3                 | 4.5 x 3.5         |                           |            |         |         |                               |                           |
| 125 x 40              | 139.7 x 48.3      |                           | 212        | 90      | 109     |                               | φ 53                      |
| 5 x 1/2               | 5.5 x 1.9         |                           |            |         |         |                               |                           |
| 125 x 50              | 139.7 x 60.3      |                           | 212        | 100     | 109     |                               | φ 64                      |
| 5 x 2                 | 5.5 x 2.375       |                           |            |         |         |                               |                           |
| 125 x 65              | 139.7 x 76.1      |                           | 212        | 117     | 109     |                               | φ 80                      |
| 5 x 2 1/2             | 5.5 x 3           |                           |            |         |         |                               |                           |
| 125 x 80              | 139.7 x 88.9      |                           | 212        | 129     | 109     |                               | φ 92                      |
| 5 x 3                 | 5.5 x 3.5         |                           |            |         |         |                               |                           |
| 125 x 100             | 139.7 x 114.3     |                           | 219        | 154     | 113     | 2-1/2 x 75<br>(2-M12 x 75)    | φ 111                     |
| 5 x 4                 | 5.5 x 4.5         |                           |            |         |         |                               |                           |
| 125 x 40              | 141.3 x 48.3      |                           | 212        | 90      | 109     |                               | φ 53                      |
| 5 x 1/2               | 5.563 x 1.9       |                           |            |         |         |                               |                           |
| 125 x 50              | 141.3 x 60.3      |                           | 212        | 100     | 109     |                               | φ 64                      |
| 5 x 2                 | 5.563 x 2.375     |                           |            |         |         |                               |                           |
| 125 x 65              | 141.3 x 76.1      |                           | 212        | 117     | 109     |                               | φ 80                      |
| 5 x 2 1/2             | 5.563 x 3         |                           |            |         |         |                               |                           |
| 125 x 80              | 141.3 x 88.9      |                           | 212        | 129     | 109     |                               | φ 92                      |
| 5 x 3                 | 5.563 x 3.5       |                           |            |         |         |                               |                           |



MODEL XGQT04

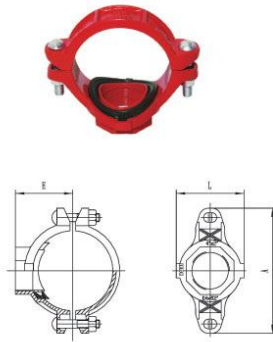


Grooved Mechanical Tee

| Nominal Size<br>mm/in | Pipe O.D<br>mm/in | Working pressure<br>(Mpa) | Dimensions |         |         | Bolt/Nut<br>No.-size<br>(mm) | Hole<br>Dimension<br>(mm) |
|-----------------------|-------------------|---------------------------|------------|---------|---------|------------------------------|---------------------------|
|                       |                   |                           | A<br>mm    | L<br>mm | H<br>mm |                              |                           |
| 125 x 100             | 141.3 x 114.3     |                           | 219        | 154     | 113     | 2-12 x 75<br>(2-M12 x 75)    | φ 111                     |
| 5 x 4                 | 5.563 x 4.5       |                           |            |         |         |                              |                           |
| 150 x 50              | 159 x 60.3        |                           | 233        | 100     | 118     |                              | φ 64                      |
| 6 x 2                 | 6.25 x 2.375      |                           |            |         |         |                              |                           |
| 150 x 65              | 159 x 76.1        |                           | 233        | 117     | 118     |                              | φ 80                      |
| 6 x 2 1/2             | 6.25 x 3          |                           |            |         |         |                              |                           |
| 150 x 80              | 159 x 88.9        |                           | 233        | 129     | 118     |                              | φ 92                      |
| 6 x 3                 | 6.25 x 3.5        |                           |            |         |         |                              |                           |
| 150 x 100             | 159.0 x 108.0     |                           | 233        | 143     | 119.5   |                              | φ 104                     |
| 6 x 4                 | 6.25 x 4.25       |                           |            |         |         |                              |                           |
| 150 x 100             | 159.0 x 114.3     |                           | 233        | 153     | 119.5   |                              | φ 111                     |
| 6 x 4                 | 6.25 x 4.5        |                           |            |         |         |                              |                           |
| 150 x 50              | 165.1 x 60.3      |                           | 239        | 100     | 121     | 2-9/16 x 75<br>(2-M14 x 75)  | φ 64                      |
| 6 x 2                 | 6.5 x 2.375       |                           |            |         |         |                              |                           |
| 150 x 65              | 165.1 x 73.0      |                           | 239        | 117     | 121     |                              | φ 80                      |
| 6 x 2 1/2             | 6.5 x 2.875       |                           |            |         |         |                              |                           |
| 150 x 65              | 165.1 x 76.1      |                           | 239        | 117     | 121     |                              | φ 80                      |
| 6 x 2 1/2             | 6.5 x 3           |                           |            |         |         |                              |                           |
| 150 x 80              | 165.1 x 88.9      |                           | 239        | 129     | 121     |                              | φ 92                      |
| 6 x 3                 | 6.5 x 3.5         |                           |            |         |         |                              |                           |
| 150 x 100             | 165.1 x 108       | 300PSI                    | 239        | 143     | 122     |                              | φ 104                     |
| 6 x 4                 | 6.5 x 4.25        |                           |            |         |         |                              |                           |
| 150 x 100             | 165.1 x 114.3     |                           | 239        | 153     | 122.5   |                              | φ 111                     |
| 6 x 4                 | 6.5 x 4.5         |                           |            |         |         |                              |                           |
| 150 x 50              | 168.3 x 60.3      |                           | 239        | 100     | 121     |                              | φ 64                      |
| 6 x 2                 | 6.625 x 2.375     |                           |            |         |         |                              |                           |
| 150 x 65              | 168.3 x 76.1      |                           | 239        | 117     | 121     | 2-9/16 x 85<br>(2-M14 x 85)  | φ 80                      |
| 6 x 2 1/2             | 6.625 x 3         |                           |            |         |         |                              |                           |
| 150 x 80              | 168.3 x 88.9      |                           | 239        | 129     | 121     |                              | φ 92                      |
| 6 x 3                 | 6.625 x 3.5       |                           |            |         |         |                              |                           |
| 150 x 100             | 168.3 x 114.3     |                           | 239        | 153     | 122.5   |                              | φ 111                     |
| 6 x 4                 | 6.625 x 4.5       |                           |            |         |         |                              |                           |
| 200 x 50              | 219.1 x 60.3      |                           | 311        | 100     | 147.5   |                              | φ 64                      |
| 8 x 2                 | 8.625 x 2.375     |                           |            |         |         |                              |                           |
| 200 x 65              | 219.1 x 76.1      |                           | 311        | 117     | 147.5   |                              | φ 80                      |
| 8 x 2 1/2             | 8.625 x 3         |                           |            |         |         |                              |                           |
| 200 x 80              | 219.1 x 88.9      |                           | 311        | 129     | 147.5   | 2-5/8 x 85<br>(2-M16 x 85)   | φ 92                      |
| 8 x 3                 | 8.625 x 3.5       |                           |            |         |         |                              |                           |
| 200 x 100             | 219.1 x 108       |                           | 311        | 143     | 148.5   |                              | φ 104                     |
| 8 x 4                 | 8.625 x 4.25      |                           |            |         |         |                              |                           |
| 200 x 100             | 219.1 x 114.3     |                           | 311        | 153     | 149     |                              | φ 111                     |
| 8 x 4                 | 8.625 x 4.5       |                           |            |         |         |                              |                           |
| 250 x 100             | 273 x 114.3       |                           | 379        | 147     | 177     |                              | φ 104                     |
| 10 x 4                | 10.75 x 4.5       |                           |            |         |         | 2-3/4 x 90<br>(2-M20 x 90)   |                           |
| 250 x 150             | 273 x 165.1       |                           | 379        | 197.6   | 178     |                              | φ 155                     |
| 10 x 6                | 10.75 x 6.5       |                           |            |         |         |                              |                           |



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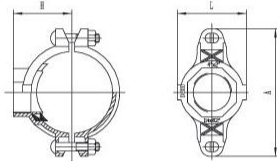


Threaded Mechanical Tee

| Nominal Size mm/in | Pipe O.D mm/in   | Working pressure (Mpa) | Dimensions |      |      | Bolt/Nut No.-size (mm)     | Hole Dimension (mm)+1 |
|--------------------|------------------|------------------------|------------|------|------|----------------------------|-----------------------|
|                    |                  |                        | A mm       | L mm | H mm |                            |                       |
| 50 x 15            | 60.3 x Rc 1/2    |                        | 110        | 64   | 50   |                            | φ 30                  |
| 2 x 1/2            | 2.375 x 0.825    |                        |            |      |      |                            |                       |
| 50 x 20            | 60.3 x Rc 3/4    |                        | 112        | 64   | 50   |                            | φ 30                  |
| 2 x 3/4            | 2.375 x 1.06     |                        |            |      |      |                            |                       |
| 50 x 25            | 60.3 x Rc 1      |                        | 120        | 72   | 50   | 2-3/8 x 50<br>(2-M10 x 50) | φ 38                  |
| 2 x 1              | 2.375 x 1.327    |                        |            |      |      |                            |                       |
| 50 x 32            | 60.3 x Rc 1 1/4  |                        | 120        | 83   | 55   |                            | φ 46                  |
| 2 x 1 1/4          | 2.375 x 1.669    |                        |            |      |      |                            |                       |
| 50 x 40            | 60.3 x Rc 1 1/2  |                        | 120        | 83   | 63   |                            | φ 46                  |
| 2 x 1 1/2          | 2.375 x 1.9      |                        |            |      |      |                            |                       |
| 65 x 25            | 73.0 x Rc 1      |                        | 139        | 76   | 60   |                            | φ 38                  |
| 2 1/2 x 1          | 2.875 x 1.327    |                        |            |      |      |                            |                       |
| 65 x 32            | 73.0 x Rc 1 1/4  |                        | 139        | 83   | 60   |                            | φ 46                  |
| 2 1/2 x 1 1/4      | 2.875 x 1.669    |                        |            |      |      |                            |                       |
| 65 x 40            | 73.0 x Rc 1 1/2  |                        | 139        | 90   | 60   |                            | φ 53                  |
| 2 1/2 x 1 1/2      | 2.875 x 1.9      |                        |            |      |      |                            |                       |
| 65 x 15            | 76.1 x Rc 1/2    |                        | 139        | 54   | 58   |                            | φ 30                  |
| 2 1/2 x 1/2        | 3 x 0.825        |                        |            |      |      |                            |                       |
| 65 x 20            | 76.1 x Rc 3/4    |                        | 139        | 54   | 58   |                            | φ 30                  |
| 2 1/2 x 3/4        | 3 x 1.05         |                        |            |      |      |                            |                       |
| 65 x 25            | 76.1 x Rc 1      |                        | 139        | 76   | 60   |                            | φ 38                  |
| 2 1/2 x 1          | 3 x 1.327        |                        |            |      |      |                            |                       |
| 65 x 32            | 76.1 x Rc 1 1/4  |                        | 139        | 83   | 60   |                            | φ 46                  |
| 2 1/2 x 1 1/4      | 3 x 1.669        |                        |            |      |      |                            |                       |
| 65 x 40            | 76.1 x Rc 1 1/2  |                        | 139        | 90   | 60   | 2-3/8 x 60<br>(2-M10 x 60) | φ 53                  |
| 2 1/2 x 1 1/2      | 3 x 1.9          |                        |            |      |      |                            |                       |
| 80 x 15            | 88.9 x Rc 1/2    | 300PSI                 | 155        | 59   | 66.5 |                            | φ 30                  |
| 3 x 1/2            | 3.5 x 0.825      |                        |            |      |      |                            |                       |
| 80 x 20            | 88.9 x Rc 3/4    |                        | 155        | 59   | 66.5 |                            | φ 30                  |
| 3 x 3/4            | 3.5 x 1.05       |                        |            |      |      |                            |                       |
| 80 x 25            | 88.9 x Rc 1      |                        | 155        | 76   | 66.5 |                            | φ 38                  |
| 3 x 1              | 3.5 x 1.327      |                        |            |      |      |                            |                       |
| 80 x 32            | 88.9 x Rc 1 1/4  |                        | 155        | 83   | 66.5 |                            | φ 46                  |
| 3 x 1 1/4          | 3.5 x 1.669      |                        |            |      |      |                            |                       |
| 80 x 40            | 88.9 x Rc 1 1/2  |                        | 155        | 90   | 66.5 |                            | φ 53                  |
| 3 x 1 1/2          | 3.5 x 1.9        |                        |            |      |      |                            |                       |
| 80 x 50            | 88.9 x Rc 2      |                        | 152        | 98   | 66.5 |                            | φ 64                  |
| 3 x 2              | 3.5 x 2.375      |                        |            |      |      |                            |                       |
| 100 x 25           | 108.0 x Rc 1     |                        | 167        | 76   | 76   |                            | φ 38                  |
| 4 x 1              | 4.250 x 1.327    |                        |            |      |      |                            |                       |
| 100 x 32           | 108.0 x Rc 1 1/2 |                        | 167        | 83   | 76   |                            | φ 46                  |
| 4 x 1 1/2          | 4.25 x 1.669     |                        |            |      |      |                            |                       |
| 100 x 40           | 108.0 x Rc 1 1/2 |                        | 167        | 90   | 76   |                            | φ 53                  |
| 4 x 1 1/2          | 4.25 x 1.9       |                        |            |      |      |                            |                       |
| 100 x 50           | 108.0 x Rc 2     |                        | 167        | 100  | 78   |                            | φ 64                  |
| 4 x 2              | 4.25 x 2.375     |                        |            |      |      |                            |                       |
| 100 x 65           | 108.0 x Rc 2 1/2 |                        | 167        | 117  | 83   | 2-1/2 x 70<br>(2-M12 x 70) | φ 80                  |
| 4 x 2 1/2          | 4.25 x 3         |                        |            |      |      |                            |                       |
| 100 x 25           | 114.3 x Rc 1     |                        | 181        | 76   | 83   |                            | φ 38                  |
| 4 x 1              | 4.5 x 1.327      |                        |            |      |      |                            |                       |
| 100 x 32           | 114.3 x Rc 1 1/2 |                        | 181        | 83   | 83   |                            | φ 46                  |
| 4 x 1 1/2          | 4.5 x 1.669      |                        |            |      |      |                            |                       |
| 100 x 40           | 114.3 x Rc 1 1/2 |                        | 181        | 90   | 83   |                            | φ 53                  |
| 4 x 1 1/2          | 4.5 x 1.9        |                        |            |      |      |                            |                       |
| 100 x 50           | 114.3 x Rc 2     |                        | 181        | 100  | 83   |                            | φ 64                  |
| 4 x 2              | 4.5 x 2.375      |                        |            |      |      |                            |                       |



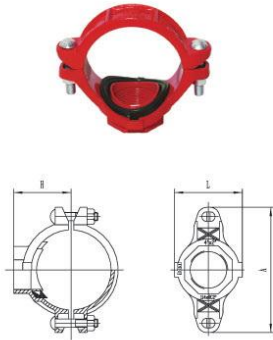
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Threaded Mechanical Tee

| Nominal Size mm/in | Pipe O.D mm/in  | Working pressure (Mpa) | Dimensions |      |       | Bolt/Nut No.-size (mm)   | Hole Dimension (mm)+1 |
|--------------------|-----------------|------------------------|------------|------|-------|--------------------------|-----------------------|
|                    |                 |                        | A mm       | L mm | H mm  |                          |                       |
| 100 × 65           | 114.3 × Rc2 1/2 |                        | 181        | 117  | 83    |                          | φ 80                  |
| 4 × 2 1/2          | 4.5 × 3         |                        |            |      |       | 2-1/2 × 70 (2-M12 × 70)  |                       |
| 100 × 80           | 114.3 × Rc3     |                        | 181        | 129  | 83    |                          | φ 92                  |
| 4 × 3              | 4.5 × 3.5       |                        |            |      |       |                          |                       |
| 125 × 25           | 133.0 × Rc1     |                        | 205        | 76   | 89    |                          | φ 38                  |
| 5 × 1              | 5.250 × 1.327   |                        |            |      |       |                          |                       |
| 125 × 32           | 133.0 × Rc1 1/4 |                        | 205        | 83   | 89    |                          | φ 46                  |
| 5 × 1 1/4          | 5.25 × 1.669    |                        |            |      |       |                          |                       |
| 125 × 40           | 133.0 × Rc1 1/2 |                        | 205        | 90   | 89    |                          | φ 53                  |
| 5 × 1 1/2          | 5.25 × 1.9      |                        |            |      |       |                          |                       |
| 125 × 50           | 133.0 × Rc2     |                        | 205        | 100  | 89    |                          | φ 64                  |
| 5 × 2              | 5.25 × 2.375    |                        |            |      |       |                          |                       |
| 125 × 65           | 133.0 × Rc2 1/2 |                        | 205        | 117  | 92    |                          | φ 80                  |
| 5 × 2 1/2          | 5.25 × 3        |                        |            |      |       |                          |                       |
| 125 × 25           | 139.7 × Rc1     |                        | 212        | 76   | 93    |                          | φ 38                  |
| 5 × 1              | 5.5 × 1.327     |                        |            |      |       |                          |                       |
| 125 × 32           | 139.7 × Rc1 1/4 |                        | 212        | 83   | 93    |                          | φ 46                  |
| 5 × 1 1/4          | 5.5 × 1.669     |                        |            |      |       |                          |                       |
| 125 × 40           | 139.7 × Rc1 1/2 |                        | 212        | 90   | 93    |                          | φ 53                  |
| 5 × 1 1/2          | 5.5 × 1.9       |                        |            |      |       |                          |                       |
| 125 × 50           | 139.7 × Rc2     |                        | 212        | 100  | 93    | 2-1/2 × 75 (2-M12 × 75)  | φ 64                  |
| 5 × 2              | 5.5 × 2.375     |                        |            |      |       |                          |                       |
| 125 × 65           | 139.7 × Rc2 1/2 |                        | 212        | 117  | 93    |                          | φ 80                  |
| 5 × 2 1/2          | 5.5 × 3         |                        |            |      |       |                          |                       |
| 125 × 80           | 139.7 × Rc3     |                        | 212        | 129  | 95    |                          | φ 92                  |
| 5 × 3              | 5.5 × 3.5       |                        |            |      |       |                          |                       |
| 125 × 25           | 141.3 × Rc1     | 300PSI                 | 212        | 76   | 93    |                          | φ 38                  |
| 5 × 1              | 5.563 × 1.327   |                        |            |      |       |                          |                       |
| 125 × 32           | 141.3 × Rc1 1/4 |                        | 212        | 83   | 93    |                          | φ 46                  |
| 5 × 1 1/4          | 5.563 × 1.669   |                        |            |      |       |                          |                       |
| 125 × 40           | 141.3 × Rc1 1/2 |                        | 212        | 90   | 93    |                          | φ 53                  |
| 5 × 1 1/2          | 5.563 × 1.9     |                        |            |      |       |                          |                       |
| 125 × 50           | 141.3 × Rc2     |                        | 212        | 100  | 93    |                          | φ 64                  |
| 5 × 2              | 5.563 × 2.375   |                        |            |      |       |                          |                       |
| 125 × 65           | 141.3 × Rc2 1/2 |                        | 212        | 117  | 93    |                          | φ 80                  |
| 5 × 2 1/2          | 5.563 × 3       |                        |            |      |       |                          |                       |
| 125 × 80           | 141.3 × Rc3     |                        | 212        | 129  | 95    |                          | φ 92                  |
| 5 × 3              | 5.563 × 3.5     |                        |            |      |       |                          |                       |
| 150 × 25           | 159 × Rc1       |                        | 233        | 76   | 101.5 |                          | φ 38                  |
| 6 × 1              | 6.250 × 1.327   |                        |            |      |       |                          |                       |
| 150 × 32           | 159.0 × Rc1 1/4 |                        | 233        | 83   | 101.5 |                          | φ 46                  |
| 6 × 1 1/4          | 6.250 × 1.669   |                        |            |      |       |                          |                       |
| 150 × 40           | 159.0 × Rc1 1/2 |                        | 233        | 90   | 101.5 |                          | φ 53                  |
| 6 × 1 1/2          | 6.250 × 1.9     |                        |            |      |       |                          |                       |
| 150 × 50           | 159.0 × Rc2     |                        | 233        | 100  | 101.5 |                          | φ 64                  |
| 6 × 2              | 6.250 × 2.375   |                        |            |      |       |                          |                       |
| 150 × 65           | 159.0 × Rc2 1/2 |                        | 233        | 117  | 105.5 | 2-9/16 × 75 (2-M14 × 75) | φ 80                  |
| 6 × 2 1/2          | 6.250 × 3       |                        |            |      |       |                          |                       |
| 150 × 80           | 159.0 × Rc3     |                        | 233        | 129  | 105.5 |                          | φ 92                  |
| 6 × 3              | 6.250 × 3.5     |                        |            |      |       |                          |                       |
| 150 × 100          | 159.0 × Rc4     |                        | 233        | 157  | 110   |                          | φ 118                 |
| 6 × 4              | 6.250 × 4.5     |                        |            |      |       |                          |                       |
| 150 × 32           | 165.1 × Rc1 1/4 |                        | 239        | 83   | 106   |                          | φ 46                  |
| 6 × 1 1/4          | 6.5 × 1.669     |                        |            |      |       |                          |                       |
| 150 × 40           | 165.1 × Rc1 1/2 |                        | 239        | 90   | 106   |                          | φ 53                  |
| 6 × 1 1/2          | 6.5 × 1.9       |                        |            |      |       |                          |                       |

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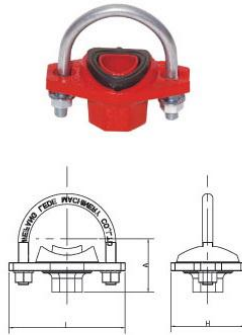


Threaded Mechanical Tee

| Nominal Size<br>mm/in | Pipe O.D<br>mm/in | Working pressure<br>(Mpa) | Dimensions |         |         | Bolt/Nut<br>No.,-size<br>(mm) | Hole<br>Dimension<br>(mm) |
|-----------------------|-------------------|---------------------------|------------|---------|---------|-------------------------------|---------------------------|
|                       |                   |                           | A<br>mm    | L<br>mm | H<br>mm |                               |                           |
| 150 x 50              | 165.1 x Rc2       |                           | 239        | 100     | 106     |                               | φ 64                      |
| 6 x 2                 | 6.5 x 2.375       |                           |            |         |         |                               |                           |
| 150 x 65              | 165.1 x Rc2 1/2   |                           | 239        | 117     | 106     |                               | φ 80                      |
| 6 x 2 1/2             | 6.5 x 3           |                           |            |         |         |                               |                           |
| 150 x 80              | 165.1 x Rc3       |                           | 239        | 129     | 108     |                               | φ 92                      |
| 6 x 3                 | 6.5 x 3.5         |                           |            |         |         |                               |                           |
| 150 x 100             | 165.1 x Rc4       |                           | 239        | 157     | 110     |                               | φ 118                     |
| 6 x 4                 | 6.5 x 4.5         |                           |            |         |         |                               |                           |
| 150 x 25              | 168.3 x Rc1       |                           | 239        | 76      | 106     |                               | φ 38                      |
| 6 x 1                 | 6.625 x 1.327     |                           |            |         |         |                               |                           |
| 150 x 32              | 168.3 x Rc1 1/4   |                           | 239        | 83      | 106     | 2-9/16 x 75<br>(2-M14 x 75)   | φ 46                      |
| 6 x 1 1/4             | 6.625 x 1.669     |                           |            |         |         |                               |                           |
| 150 x 40              | 168.3 x Rc1 1/2   |                           | 239        | 90      | 106     |                               | φ 53                      |
| 6 x 1 1/2             | 6.625 x 1.9       |                           |            |         |         |                               |                           |
| 150 x 50              | 168.3 x Rc2       |                           | 239        | 100     | 106     |                               | φ 64                      |
| 6 x 2                 | 6.625 x 2.375     |                           |            |         |         |                               |                           |
| 150 x 65              | 168.3 x Rc2 1/2   |                           | 239        | 117     | 106     |                               | φ 80                      |
| 6 x 2 1/2             | 6.625 x 3         |                           |            |         |         |                               |                           |
| 150 x 80              | 168.3 x Rc3       | 300PSI                    | 239        | 129     | 108     |                               | φ 92                      |
| 6 x 3                 | 6.625 x 3.5       |                           |            |         |         |                               |                           |
| 150 x 100             | 168.3 x Rc4       |                           | 239        | 157     | 110     |                               | φ 118                     |
| 6 x 4                 | 6.625 x 4.5       |                           |            |         |         |                               |                           |
| 200 x 25              | 219.1 x Rc1       |                           | 311        | 76      | 131     |                               | φ 38                      |
| 8 x 1                 | 8.625 x 1.327     |                           |            |         |         |                               |                           |
| 200 x 32              | 219.1 x Rc1 1/4   |                           | 311        | 83      | 134     |                               | φ 46                      |
| 8 x 1 1/4             | 8.625 x 1.669     |                           |            |         |         |                               |                           |
| 200 x 40              | 219.1 x Rc1 1/2   |                           | 311        | 90      | 134     |                               | φ 53                      |
| 8 x 1 1/2             | 8.625 x 1.9       |                           |            |         |         |                               |                           |
| 200 x 50              | 219.1 x Rc2       |                           | 311        | 100     | 134     | 2-5/8 x 85<br>(2-M16 x 85)    | φ 64                      |
| 8 x 2                 | 8.625 x 2.375     |                           |            |         |         |                               |                           |
| 200 x 65              | 219.1 x Rc2 1/2   |                           | 311        | 117     | 134     |                               | φ 80                      |
| 8 x 2 1/2             | 8.625 x 3         |                           |            |         |         |                               |                           |
| 200 x 80              | 219.1 x Rc3       |                           | 311        | 129     | 134     |                               | φ 92                      |
| 8 x 3                 | 8.625 x 3.5       |                           |            |         |         |                               |                           |
| 200 x 100             | 219.1 x Rc4       |                           | 311        | 157     | 134     |                               | φ 118                     |
| 8 x 4                 | 8.625 x 4.5       |                           |            |         |         |                               |                           |
| 250 x 65              | 273.0 x Rc2 1/2   |                           | 379        | 117     | 159     |                               | φ 80                      |
| 10 x Rc2 1/2          | 10.75 x 3         |                           |            |         |         | 2-3/4 x 90                    |                           |
| 250 x 80              | 273.0 x Rc3       |                           | 379        | 129     | 162     | (2-M20 x 90)                  | φ 92                      |
| 10 x 3                | 10.75 x 3.5       |                           |            |         |         |                               |                           |



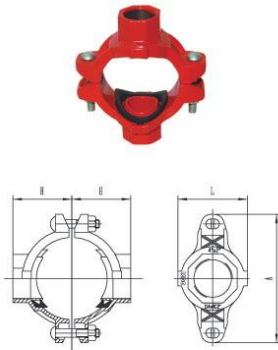
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XGQT41



U-Bolt Mechanical Tee

| Nominal Size<br>mm/in | Pipe O.D<br>mm/in                     | HOLE<br>DIA<br>mm/in | Working<br>pressure<br>(Mpa) | Dimensions |         |         | U Bolt<br>size (mm)      |
|-----------------------|---------------------------------------|----------------------|------------------------------|------------|---------|---------|--------------------------|
|                       |                                       |                      |                              | A<br>mm    | L<br>mm | H<br>mm |                          |
| 25 × 15               | 33.7 × Rc <sup>1</sup> / <sub>2</sub> | 30.00                |                              | 53         | 89      | 56      | 5/16 × 44<br>(M8 × 44)   |
| 1 × 1/2               | 1.327 × 0.825                         | 1.18                 |                              |            |         |         |                          |
| 32 × 15               | 42.4 × Rc <sup>1</sup> / <sub>2</sub> | 30.00                |                              | 53         | 89      | 56      |                          |
| 1 1/4 × 1/2           | 1.669 × 0.825                         | 1.18                 |                              |            |         |         |                          |
| 32 × 20               | 42.4 × Rc <sup>3</sup> / <sub>4</sub> | 30.00                |                              | 53         | 89      | 56      | 3/8 × 73<br>(M10 × 73)   |
| 1 1/4 × 3/4           | 1.669 × 1.05                          | 1.18                 |                              |            |         |         |                          |
| 32 × 25               | 42.4 × Rc1                            | 30.00                |                              | 56         | 89      | 56      |                          |
| 1 1/4 × 1             | 1.669 × 1.327                         | 1.18                 |                              |            |         |         |                          |
| 40 × 15               | 48.3 × Rc <sup>1</sup> / <sub>2</sub> | 30.00                |                              | 55         | 89      | 56      |                          |
| 1 1/2 × 1/2           | 1.9 × 0.825                           | 1.18                 |                              |            |         |         |                          |
| 40 × 20               | 48.3 × Rc <sup>3</sup> / <sub>4</sub> | 30.00                |                              | 55         | 89      | 56      | 3/8 × 78<br>(M10 × 78)   |
| 1 1/2 × 3/4           | 1.9 × 1.05                            | 1.18                 |                              |            |         |         |                          |
| 40 × 25               | 48.3 × Rc1                            | 30.00                |                              | 58         | 89      | 56      |                          |
| 1 1/2 × 1             | 1.9 × 1.327                           | 1.18                 |                              |            |         |         |                          |
| 50 × 15               | 60.3 × Rc <sup>1</sup> / <sub>2</sub> | 30.00                |                              | 64         | 98      | 56      |                          |
| 2 × 1/2               | 2.375 × 0.825                         | 1.18                 |                              |            |         |         |                          |
| 50 × 20               | 60.3 × Rc <sup>3</sup> / <sub>4</sub> | 30.00                | 300PSI                       | 64         | 98      | 56      | 3/8 × 92<br>(M10 × 92)   |
| 2 × 3/4               | 2.375 × 1.05                          | 1.18                 |                              |            |         |         |                          |
| 50 × 25               | 60.3 × Rc1                            | 30.00                |                              | 67         | 98      | 56      |                          |
| 2 × 1                 | 2.375 × 1.327                         | 1.18                 |                              |            |         |         |                          |
| 65 × 15               | 73.0 × Rc <sup>1</sup> / <sub>2</sub> | 30.00                |                              | 69         | 111     | 56      |                          |
| 2 1/2 × 1/2           | 3 × 0.825                             | 1.18                 |                              |            |         |         |                          |
| 65 × 20               | 73.0 × Rc <sup>3</sup> / <sub>4</sub> | 30.00                |                              | 69         | 111     | 56      | 3/8 × 102<br>(M10 × 102) |
| 2 1/2 × 3/4           | 3 × 1.05                              | 1.18                 |                              |            |         |         |                          |
| 65 × 25               | 73.0 × Rc1                            | 30.00                |                              | 72         | 111     | 56      |                          |
| 2 1/2 × 1             | 3 × 1.327                             | 1.18                 |                              |            |         |         |                          |
| 65 × 15               | 76.1 × Rc <sup>1</sup> / <sub>2</sub> | 30.00                |                              | 69         | 111     | 56      |                          |
| 2 1/2 × 1/2           | 3 × 0.825                             | 1.18                 |                              |            |         |         |                          |
| 65 × 20               | 76.1 × Rc <sup>3</sup> / <sub>4</sub> | 30.00                |                              | 69         | 111     | 56      | 3/8 × 108<br>(M10 × 108) |
| 2 1/2 × 3/4           | 3 × 1.05                              | 1.18                 |                              |            |         |         |                          |
| 65 × 25               | 76.1 × Rc1                            | 30.00                |                              | 72         | 111     | 56      |                          |
| 2 1/2 × 1             | 3 × 1.327                             | 1.18                 |                              |            |         |         |                          |
| 80 × 25               | 88.9 × Rc1                            | 30.00                |                              | 72         | 111     | 56      | 3/8 × 135<br>(M10 × 135) |
| 3 × 1                 | 3.5 × 1.327                           | 1.18                 |                              |            |         |         |                          |

MODEL  
XGQT04

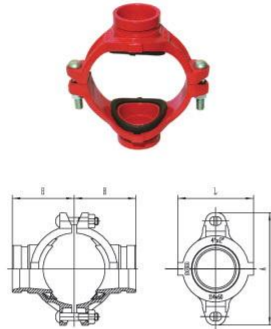


Threaded Mechanical Cross

| Nominal Size<br>mm/in | Pipe O.D<br>mm/in | Working pressure<br>(Mpa) | Dimensions |         |         | Bolt/Nut<br>No.-size<br>(mm) | Hole<br>Dimension<br>(mm) |
|-----------------------|-------------------|---------------------------|------------|---------|---------|------------------------------|---------------------------|
|                       |                   |                           | A<br>mm    | L<br>mm | H<br>mm |                              |                           |
| 65 x 25               | 76.1 x Rc1        |                           | 139        | 76      | 60      |                              | φ38                       |
| 2 1/2 x 1             | 3 x 1.327         |                           |            |         |         |                              |                           |
| 65 x 32               | 76.1 x Rc1 1/4    |                           | 139        | 83      | 60      |                              | φ46                       |
| 2 1/2 x 1 1/4         | 3 x 1.669         |                           |            |         |         |                              |                           |
| 80 x 25               | 88.9 x Rc1        |                           | 155        | 76      | 66.5    | 2-3/8 x 60<br>(2-M10 x 60)   | φ38                       |
| 3 x 1                 | 3.5 x 1.327       |                           |            |         |         |                              |                           |
| 80 x 32               | 88.9 x Rc1 1/4    |                           | 155        | 83      | 66.5    |                              | φ46                       |
| 3 x 1 1/4             | 3.5 x 1.669       |                           |            |         |         |                              |                           |
| 80 x 40               | 88.9 x Rc1 1/2    |                           | 155        | 90      | 66.5    |                              | φ53                       |
| 3 x 1 1/2             | 3.5 x 1.9         |                           |            |         |         |                              |                           |
| 100 x 25              | 108.1 x Rc1       |                           | 167        | 76      | 76      |                              | φ38                       |
| 4 x 1                 | 4.25 x 1.327      |                           |            |         |         |                              |                           |
| 100 x 32              | 108.0 x Rc1 1/4   |                           | 167        | 83      | 76      |                              | φ46                       |
| 4 x 1 1/4             | 4.25 x 1.669      |                           |            |         |         |                              |                           |
| 100 x 40              | 108.0 x Rc1 1/2   |                           | 167        | 90      | 76      |                              | φ53                       |
| 4 x 1 1/2             | 4.25 x 1.9        |                           |            |         |         |                              |                           |
| 100 x 50              | 108.0 x Rc2       |                           | 167        | 100     | 78      |                              | φ64                       |
| 4 x 2                 | 4.25 x 2.375      |                           |            |         |         |                              |                           |
| 100 x 25              | 114.3 x Rc1       |                           | 181        | 76      | 83      |                              | φ38                       |
| 4 x 1                 | 4.5 x 1.327       |                           |            |         |         |                              |                           |
| 100 x 32              | 114.3 x Rc1 1/4   |                           | 181        | 83      | 83      | 2-1/2 x 75<br>(2-M12 x 75)   | φ46                       |
| 4 x 1 1/4             | 4.5 x 1.669       |                           |            |         |         |                              |                           |
| 100 x 40              | 114.3 x Rc1 1/2   |                           | 181        | 90      | 83      |                              | φ53                       |
| 4 x 1 1/2             | 4.5 x 1.9         |                           |            |         |         |                              |                           |
| 100 x 50              | 114.3 x Rc2       |                           | 181        | 100     | 83      |                              | φ64                       |
| 4 x 2                 | 4.5 x 2.375       |                           |            |         |         |                              |                           |
| 125 x 25              | 139.7 x Rc1       |                           | 212        | 76      | 93      |                              | φ38                       |
| 5 x 1                 | 5.5 x 1.327       | 300PSI                    |            |         |         |                              |                           |
| 125 x 32              | 139.7 x Rc1 1/4   |                           | 212        | 83      | 93      |                              | φ46                       |
| 5 x 1 1/4             | 5.5 x 1.669       |                           |            |         |         |                              |                           |
| 125 x 40              | 139.7 x Rc1 1/2   |                           | 212        | 90      | 93      |                              | φ53                       |
| 5 x 1 1/2             | 5.5 x 1.9         |                           |            |         |         |                              |                           |
| 125 x 50              | 139.7 x Rc2       |                           | 212        | 100     | 93      |                              | φ64                       |
| 5 x 2                 | 5.5 x 2.375       |                           |            |         |         |                              |                           |
| 125 x 65              | 139.7 x Rc2 1/2   |                           | 212        | 117     | 93      |                              | φ80                       |
| 5 x 2 1/2             | 5.5 x 3           |                           |            |         |         |                              |                           |
| 150 x 32              | 165.1 x Rc1 1/4   |                           | 239        | 83      | 106     |                              | φ46                       |
| 6 x 1 1/4             | 6.5 x 1.669       |                           |            |         |         |                              |                           |
| 150 x 40              | 165.1 x Rc1 1/2   |                           | 239        | 90      | 106     |                              | φ53                       |
| 6 x 1 1/2             | 6.5 x 1.9         |                           |            |         |         |                              |                           |
| 150 x 50              | 165.1 x Rc2       |                           | 239        | 100     | 106     | 2-9/16 x 75<br>(2-M14 x 75)  | φ64                       |
| 6 x 2                 | 6.5 x 2.375       |                           |            |         |         |                              |                           |
| 150 x 65              | 165.1 x Rc2 1/2   |                           | 239        | 117     | 106     |                              | φ80                       |
| 6 x 2 1/2             | 6.5 x 3           |                           |            |         |         |                              |                           |
| 150 x 80              | 165.1 x Rc3       |                           | 239        | 129     | 108     |                              | φ92                       |
| 6 x 3                 | 6.5 x 3.5         |                           |            |         |         |                              |                           |
| 200 x 25              | 219.1 x Rc1       |                           | 311        | 76      | 131     |                              | φ38                       |
| 8 x 1                 | 8.625 x 1.327     |                           |            |         |         |                              |                           |
| 200 x 32              | 219.1 x Rc1 1/4   |                           | 311        | 83      | 134     |                              | φ46                       |
| 8 x 1 1/4             | 8.625 x 1.669     |                           |            |         |         |                              |                           |
| 200 x 40              | 219.1 x Rc1 1/2   |                           | 311        | 90      | 134     |                              | φ53                       |
| 8 x 1 1/2             | 8.625 x 1.9       |                           |            |         |         |                              |                           |
| 200 x 50              | 219.1 x Rc2       |                           | 311        | 100     | 134     | 2-5/8 x 85<br>(2-M16 x 85)   | φ64                       |
| 8 x 2                 | 8.625 x 2.375     |                           |            |         |         |                              |                           |
| 200 x 65              | 219.1 x Rc2 1/2   |                           | 311        | 117     | 134     |                              | φ80                       |
| 8 x 2 1/2             | 8.625 x 3         |                           |            |         |         |                              |                           |
| 200 x 80              | 219.1 x Rc3       |                           | 311        | 129     | 134     |                              | φ92                       |
| 8 x 3                 | 8.625 x 3.5       |                           |            |         |         |                              |                           |
| 200 x 100             | 219.1 x Rc4       |                           | 311        | 157     | 134     |                              | φ118                      |
| 8 x 4                 | 8.625 x 4.5       |                           |            |         |         |                              |                           |



MODEL XGQT04



Grooved Mechanical Cross

| Nominal Size mm/in    | Pipe O.D mm/in                | Working pressure (Mpa) | Dimensions |      |       | Bolt/Nut No.-size (mm)      | Hole Dimension (mm) |
|-----------------------|-------------------------------|------------------------|------------|------|-------|-----------------------------|---------------------|
|                       |                               |                        | A mm       | L mm | H mm  |                             |                     |
| 100 × 50<br>4 × 2     | 114.3 × 60.3<br>4.5 × 2.375   |                        | 181        | 117  | 95.5  |                             | φ 64                |
| 125 × 50<br>5 × 2     | 139.7 × 60.3<br>5.5 × 2.375   |                        | 212        | 100  | 109   | 2-1/2 × 75<br>(2-M12 × 75)  | φ 64                |
| 125 × 65<br>5 × 2 1/2 | 139.7 × 76.1<br>5.5 × 3       |                        | 212        | 117  | 109   |                             | φ 80                |
| 150 × 65<br>6 × 2 1/2 | 159 × 76.1<br>6.25 × 3        |                        | 233        | 117  | 118   |                             | φ 80                |
| 150 × 80<br>6 × 3     | 159 × 88.9<br>6.25 × 3.5      |                        | 233        | 129  | 118   |                             | φ 92                |
| 150 × 50<br>6 × 2     | 165.1 × 60.3<br>6.5 × 2.375   | 300PSI                 | 239        | 100  | 121   | 2-9/16 × 75<br>(2-M14 × 75) | φ 64                |
| 150 × 65<br>6 × 2 1/2 | 165.1 × 76.1<br>6.5 × 3       |                        | 239        | 117  | 121   |                             | φ 80                |
| 150 × 80<br>6 × 3     | 165.1 × 88.9<br>6.5 × 3.5     |                        | 239        | 129  | 121   |                             | φ 92                |
| 200 × 50<br>8 × 2     | 219.1 × 60.3<br>8.625 × 2.375 |                        | 311        | 100  | 147.5 |                             | φ 64                |
| 200 × 65<br>8 × 2 1/2 | 219.1 × 76.1<br>8.625 × 3     |                        | 311        | 117  | 147.5 |                             | φ 80                |
| 200 × 80<br>8 × 3     | 219.1 × 88.9<br>8.625 × 3.5   |                        | 311        | 129  | 147.5 | 2-5/8 × 85<br>(2-M16 × 85)  | φ 92                |
| 200 × 100<br>8 × 4    | 219.1 × 108<br>8.625 × 4.25   |                        | 311        | 143  | 148.5 |                             | φ 104               |
| 200 × 100<br>8 × 4    | 219.1 × 114.3<br>8.625 × 4.5  |                        | 311        | 153  | 149   |                             | φ 111               |

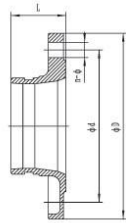
MODEL XGQT02



Threaded Flange

| Nominal Size mm/in | Pipe O.D mm/in | Working pressure (Mpa) | Dimensions |        |      |        |
|--------------------|----------------|------------------------|------------|--------|------|--------|
|                    |                |                        | Φ D mm     | Φ d mm | L mm | n-φ    |
| 50<br>2            | 60.3<br>2.375  |                        | 157        | 125    | 30   | 4-φ 18 |
| 65<br>2 1/2        | 76.1<br>3      | 230PSI                 | 185        | 145    | 35   | 4-φ 18 |
| 80<br>3            | 88.9<br>3.5    |                        | 195        | 160    | 35   | 8-φ 18 |
| 100<br>4           | 114.3<br>4.5   |                        | 220        | 180    | 40   | 8-φ 18 |

MODEL  
XGQT08

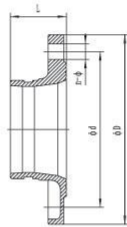


Adaptor Flange PN16

| Nominal Size mm/in | Pipe O.D mm/in | Working pressure (Mpa) | Dimensions(mm) |     |    |        |
|--------------------|----------------|------------------------|----------------|-----|----|--------|
|                    |                |                        | ΦD             | Φd  | L  | n-φ    |
| 50                 | 60.30          |                        | 165            | 125 | 60 | 4-φ18  |
| 2                  | 2.375          |                        |                |     |    |        |
| 65                 | 76.10          |                        | 185            | 145 | 60 | 4-φ18  |
| 2 1/2              | 3.00           |                        |                |     |    |        |
| 80                 | 88.90          |                        | 200            | 160 | 60 | 8-φ18  |
| 3                  | 3.50           |                        |                |     |    |        |
| 100                | 108.00         |                        | 220            | 180 | 60 | 8-φ18  |
| 4                  | 4.25           |                        |                |     |    |        |
| 100                | 114.30         |                        | 220            | 180 | 60 | 8-φ18  |
| 4                  | 4.50           |                        |                |     |    |        |
| 125                | 133.00         |                        | 250            | 210 | 63 | 8-φ18  |
| 5                  | 5.25           |                        |                |     |    |        |
| 125                | 139.7 (141.3)  | 230PSI                 | 250            | 210 | 65 | 8-φ18  |
| 5                  | 5.5 (5.563)    |                        |                |     |    |        |
| 150                | 159.00         |                        | 285            | 240 | 65 | 8-φ22  |
| 6                  | 6.25           |                        |                |     |    |        |
| 150                | 165.10         |                        | 285            | 240 | 65 | 8-φ22  |
| 6                  | 6.50           |                        |                |     |    |        |
| 150                | 168.30         |                        | 285            | 240 | 65 | 8-φ22  |
| 6                  | 6.625          |                        |                |     |    |        |
| 200                | 219.10         |                        | 340            | 295 | 70 | 12-φ22 |
| 8                  | 8.625          |                        |                |     |    |        |
| 250                | 273.00         |                        | 405            | 355 | 72 | 12-φ26 |
| 10                 | 10.75          |                        |                |     |    |        |
| 300                | 323.90         |                        | 460            | 410 | 72 | 12-φ26 |
| 12                 | 12.75          |                        |                |     |    |        |
| 350                | 377.00         |                        | 524            | 475 | 86 | 16-φ26 |
| 14                 | 14.84          |                        |                |     |    |        |



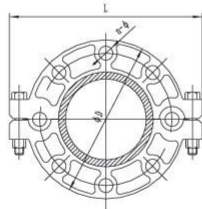
MODEL XGQT08



Adaptor Flange ANSI125/150

| Nominal Size mm/in | Pipe O.D mm/in | Working pressure (Mpa) | Dimensions(mm) |       |       |       |
|--------------------|----------------|------------------------|----------------|-------|-------|-------|
|                    |                |                        | ΦD             | Φd    | L     | n-φ   |
| 65                 | 73             | 300PSI                 | 178            | 141.6 | 78    | 4-φ18 |
| 2 1/2              | 2.875          |                        |                |       |       |       |
| 80                 | 88.9           |                        | 191            | 155   | 78    | 8-φ18 |
| 3                  | 3.5            |                        |                |       |       |       |
| 100                | 114.3          |                        | 229            | 192.6 | 104   | 8-φ18 |
| 4                  | 4.5            |                        |                |       |       |       |
| 150                | 168.3          | 280                    | 243            | 104   | 8-φ22 |       |
| 6                  | 6.625          |                        |                |       |       |       |

MODEL XGQT09

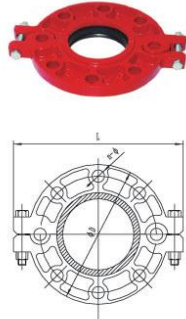


Grooved Flange PN16

| Nominal Size mm/in | Pipe O.D mm/in | Working pressure (Mpa) | Dimensions |       |                         | Bolt/Nut No.-size (mm)  |
|--------------------|----------------|------------------------|------------|-------|-------------------------|-------------------------|
|                    |                |                        | D mm       | L mm  | n-φ                     |                         |
| 50                 | 60.3           | 230PSI                 | 164        | 210   | 4-φ18                   | 2-3/8 x 55 (2-M10 x 55) |
| 2                  | 2.375          |                        |            |       |                         |                         |
| 65                 | 73             |                        | 180        | 230   | 4-φ18                   |                         |
| 2 1/2              | 2.875          |                        |            |       |                         |                         |
| 65                 | 76.1           |                        | 182        | 240   | 4-φ18                   |                         |
| 2 1/2              | 3              |                        |            |       |                         |                         |
| 80                 | 88.9           |                        | 194        | 250   | 4-φ18                   |                         |
| 3                  | 3.5            |                        |            |       |                         |                         |
| 100                | 108            |                        | 216        | 266   | 4-φ18                   | 2-3/8 x 70 (2-M10 x 70) |
| 4                  | 4.25           |                        |            |       |                         |                         |
| 100                | 114.3          |                        | 216        | 266   | 4-φ18                   |                         |
| 4                  | 4.5            |                        |            |       |                         |                         |
| 125                | 133            |                        | 247        | 300   | 4-φ18                   |                         |
| 5                  | 5.25           |                        |            |       |                         |                         |
| 125                | 139.7          |                        | 247        | 300   | 4-φ18                   |                         |
| 5                  | 5.5            |                        |            |       |                         |                         |
| 125                | 141.3          |                        | 247        | 300   | 4-φ18                   |                         |
| 5                  | 5.563          |                        |            |       |                         |                         |
| 150                | 159            |                        | 282        | 336   | 4-φ18                   |                         |
| 6                  | 6.25           |                        |            |       |                         |                         |
| 150                | 165.1          |                        | 282        | 336   | 4-φ18                   | 2-1/2 x 70 (2-M12 x 70) |
| 6                  | 6.5            |                        |            |       |                         |                         |
| 150                | 168.3          |                        | 282        | 336   | 4-φ18                   |                         |
| 6                  | 6.625          |                        |            |       |                         |                         |
| 200                | 219.1          | 335                    | 395        | 4-φ18 |                         |                         |
| 8                  | 8.625          |                        |            |       |                         |                         |
| 250                | 273            | 404                    | 470        | 4-φ18 | 2-1/2 x 80 (2-M12 x 80) |                         |
| 14                 | 14.85          |                        |            |       |                         |                         |



MODEL  
XGQT09



Grooved Flange ANSI125/150

| Nominal Size mm/in | Pipe O.D mm/in | Working pressure (Mpa) | Dimensions |                                     | Bolt/Nut<br>No.-size (mm)           |
|--------------------|----------------|------------------------|------------|-------------------------------------|-------------------------------------|
|                    |                |                        | D mm       | L mm                                |                                     |
| 50                 | 60.3           | 250PSI                 | 164        | 210                                 | 4-φ18<br>2-3/8 x 55<br>(2-M10 x 55) |
| 2                  | 2.375          |                        |            |                                     |                                     |
| 65                 | 73             |                        | 176        | 240                                 | 4-φ18                               |
| 2 1/2              | 2.875          |                        |            |                                     |                                     |
| 80                 | 88.9           |                        | 192        | 250                                 | 4-φ18                               |
| 3                  | 3.5            |                        |            |                                     |                                     |
| 100                | 114.3          |                        | 224        | 278                                 | 8-φ18<br>2-3/8 x 70<br>(2-M10 x 70) |
| 4                  | 4.5            |                        |            |                                     |                                     |
| 125                | 141.3          |                        | 254        | 310                                 | 8-φ22                               |
| 5                  | 5.563          |                        |            |                                     |                                     |
| 150                | 168.3          |                        | 282        | 336                                 | 8-φ22                               |
| 6                  | 6.625          |                        |            |                                     |                                     |
| 200                | 219.1          | 343                    | 395        | 8-φ22<br>2-1/2 x 80<br>(2-M12 x 80) |                                     |
| 8                  | 8.625          |                        |            |                                     |                                     |

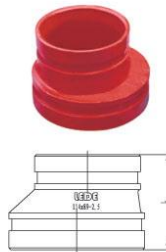
MODEL  
XGQT071



Threaded Eccentric Reducer

| Nominal size mm/in | Pipe O.D mm/in  | Working Pressure (Mpa) | Dimensions L (mm) |
|--------------------|-----------------|------------------------|-------------------|
| 100 x 65           | 114.3 x Rc2 1/2 | 300PSI                 | 80                |
| 4 x 2 1/2          | 4.5 x 3         |                        |                   |
| 150 x 80           | 165.1 x Rc3     | 300PSI                 | 102               |
| 6 x 3              | 6.5 x 3.5       |                        |                   |

MODEL  
XGQT072

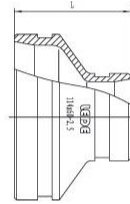


Grooved Eccentric Reducer

| Nominal size mm/in | Pipe O.D mm/in | Working Pressure (Mpa) | Dimensions L (mm) |
|--------------------|----------------|------------------------|-------------------|
| 100 x 80           | 114.3 x 88.9   | 300PSI                 | 80                |
| 4 x 3              | 4.5 x 3.5      |                        |                   |
| 125 x 100          | 139.7 x 114.3  | 300PSI                 | 102               |
| 5 x 4              | 5.5 x 4.5      |                        |                   |
| 150 x 100          | 165.1 x 114.3  | 300PSI                 | 102               |
| 6 x 4              | 6.5 x 4.5      |                        |                   |
| 150 x 125          | 165.1 x 139.7  | 300PSI                 | 102               |
| 6 x 5              | 6.5 x 5.5      |                        |                   |
| 200 x 100          | 219.1 x 114.3  | 300PSI                 | 127               |
| 8 x 4              | 8.625 x 4.5    |                        |                   |
| 200 x 150          | 219.1 x 165.1  | 300PSI                 | 127               |
| 8 x 6              | 8.625 x 6.5    |                        |                   |



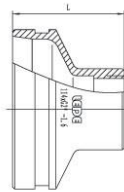
MODEL  
XGQT07



Grooved Reducer

| Nominal size mm/in | Pipe O.D mm/in | Working Pressure (Mpa) | Dimensions L (mm) | Nominal size mm/in | Pipe O.D mm/in | Working Pressure (Mpa) | Dimensions L (mm) |
|--------------------|----------------|------------------------|-------------------|--------------------|----------------|------------------------|-------------------|
| 50 x 32            | 80.3 x 42.4    |                        | 64                | 150 x 125          | 159 x 139.7    |                        | 85                |
| 2 x 1/4            | 2.375 x 1.669  |                        |                   | 6 x 5              | 6.25 x 5.5     |                        |                   |
| 50 x 40            | 60.3 x 48.3    |                        | 64                | 150 x 85           | 165.1 x 76.1   |                        | 85                |
| 2 x 1/2            | 2.375 x 1.9    |                        |                   | 6 x 2 1/2          | 6.5 x 3        |                        |                   |
| 65 x 32            | 73 x 42.4      |                        | 64                | 150 x 80           | 165.1 x 88.9   |                        | 85                |
| 2 1/2 x 1/4        | 2.875 x 1.669  |                        |                   | 6 x 3              | 6.5 x 3.5      |                        |                   |
| 65 x 40            | 73 x 48.3      |                        | 64                | 150 x 100          | 165.1 x 114.3  |                        | 85                |
| 2 1/2 x 1/2        | 2.875 x 1.9    |                        |                   | 6 x 4              | 6.5 x 4.5      |                        |                   |
| 65 x 50            | 73 x 60.3      |                        | 64                | 150 x 125          | 165.1 x 139.7  |                        | 85                |
| 2 1/2 x 2          | 2.875 x 2.375  |                        |                   | 6 x 5              | 6.5 x 5.5      |                        |                   |
| 65 x 40            | 76.1 x 48.3    |                        | 64                | 150 x 50           | 168.3 x 60.3   |                        | 85                |
| 2 1/2 x 1 1/2      | 3 x 1.9        |                        |                   | 6 x 2              | 6.63 x 2.375   |                        |                   |
| 65 x 50            | 76.1 x 60.3    |                        | 64                | 150 x 65           | 168.3 x 73.0   |                        | 85                |
| 2 1/2 x 2          | 3 x 2.375      |                        |                   | 6 x 2 1/2          | 6.625 x 2.875  |                        |                   |
| 80 x 32            | 88.9 x 42.4    |                        | 64                | 150 x 65           | 168.3 x 76.1   |                        | 85                |
| 3 x 1/4            | 3.5 x 1.669    |                        |                   | 6 x 2 1/2          | 6.625 x 2.375  |                        |                   |
| 80 x 40            | 88.9 x 48.3    |                        | 64                | 150 x 80           | 168.3 x 88.9   |                        | 85                |
| 3 x 1/2            | 3.5 x 1.9      |                        |                   | 6 x 3              | 6.625 x 3.5    |                        |                   |
| 80 x 50            | 88.9 x 60.3    |                        | 64                | 150 x 100          | 168.3 x 114.3  |                        | 85                |
| 3 x 2              | 3.5 x 2.375    |                        |                   | 6 x 4              | 6.625 x 4.5    |                        |                   |
| 80 x 65            | 88.9 x 73      |                        | 64                | 150 x 125          | 168.3 x 139.7  |                        | 85                |
| 3 x 2 1/2          | 3.5 x 2.875    |                        |                   | 6 x 5              | 6.625 x 5.5    |                        |                   |
| 80 x 65            | 88.9 x 76.1    |                        | 64                | 200 x 65           | 219.1 x 76.1   |                        | 85                |
| 3 x 2 1/2          | 3.5 x 3        |                        |                   | 8 x 2 1/2          | 8.63 x 3       |                        |                   |
| 100 x 65           | 108 x 76.1     |                        | 76                | 200 x 80           | 219.1 x 88.9   |                        | 85                |
| 4 x 2 1/2          | 4.25 x 3       | 300PSI                 |                   | 8 x 3              | 8.625 x 3.5    | 300PSI                 |                   |
| 100 x 80           | 108 x 88.9     |                        | 76                | 200 x 100          | 219.1 x 108    |                        | 85                |
| 4 x 3              | 4.25 x 3.5     |                        |                   | 8 x 4              | 8.625 x 4.25   |                        |                   |
| 100 x 32           | 114.3 x 42.4   |                        | 76                | 200 x 100          | 219.1 x 114.3  |                        | 85                |
| 4 x 1/4            | 4.5 x 1.669    |                        |                   | 8 x 4              | 8.625 x 4.5    |                        |                   |
| 100 x 40           | 114.3 x 48.3   |                        | 76                | 200 x 125          | 219.1 x 139.7  |                        | 85                |
| 4 x 1/2            | 4.5 x 1.9      |                        |                   | 8 x 5              | 8.625 x 5.5    |                        |                   |
| 100 x 50           | 114.3 x 60.3   |                        | 76                | 200 x 150          | 219.1 x 159    |                        | 85                |
| 4 x 2              | 4.5 x 2.375    |                        |                   | 8 x 6              | 8.625 x 6.25   |                        |                   |
| 100 x 65           | 114.3 x 73     |                        | 76                | 200 x 150          | 219.1 x 165.1  |                        | 85                |
| 4 x 2 1/2          | 4.5 x 2.875    |                        |                   | 8 x 6              | 8.63 x 6.5     |                        |                   |
| 100 x 65           | 114.3 x 76.1   |                        | 76                | 200 x 150          | 219.1 x 168.3  |                        | 85                |
| 4 x 2 1/2          | 4.5 x 3        |                        |                   | 8 x 6              | 8.625 x 6.63   |                        |                   |
| 100 x 80           | 114.3 x 88.9   |                        | 76                | 250 x 100          | 273 x 108      |                        | 90                |
| 4 x 3              | 4.5 x 3.5      |                        |                   | 10 x 4             | 10.75 x 4.25   |                        |                   |
| 125 x 50           | 139.7 x 60.3   |                        | 85                | 250 x 100          | 273 x 114.3    |                        | 90                |
| 5 x 2              | 5.5 x 2.375    |                        |                   | 10 x 4             | 10.75 x 4.5    |                        |                   |
| 125 x 65           | 139.7 x 76.1   |                        | 85                | 250 x 150          | 273 x 159      |                        | 90                |
| 5 x 2 1/2          | 5.5 x 3        |                        |                   | 10 x 6             | 10.75 x 6.25   |                        |                   |
| 125 x 80           | 139.7 x 88.9   |                        | 85                | 250 x 150          | 273 x 165.1    |                        | 90                |
| 5 x 3              | 5.5 x 3.5      |                        |                   | 10 x 6             | 10.75 x 6.5    |                        |                   |
| 125 x 100          | 139.7 x 114.3  |                        | 85                | 250 x 200          | 273 x 219.1    |                        | 90                |
| 5 x 4              | 5.5 x 4.5      |                        |                   | 10 x 8             | 10.75 x 8.625  |                        |                   |
| 150 x 65           | 159 x 76.1     |                        | 85                | 300 x 150          | 323.9 x 159    |                        | 90                |
| 6 x 2 1/2          | 6.25 x 3       |                        |                   | 12 x 6             | 12.75 x 6.25   |                        |                   |
| 150 x 80           | 159 x 88.9     |                        | 85                | 300 x 125          | 323.9 x 165.1  |                        | 90                |
| 6 x 3              | 6.25 x 3.5     |                        |                   | 12 x 6             | 12.75 x 6.625  |                        |                   |
| 150 x 100          | 159 x 108      |                        | 85                | 300 x 200          | 323.9 x 219.1  |                        | 90                |
| 6 x 4              | 6.25 x 4.25    |                        |                   | 12 x 8             | 12.75 x 8.63   |                        |                   |
| 150 x 100          | 159 x 114.3    |                        | 85                | 300 x 250          | 323.9 x 273    |                        | 90                |
| 6 x 4              | 6.25 x 4.5     |                        |                   | 12 x 10            | 12.75 x 10.75  |                        |                   |

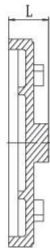
MODEL  
XGQT07



Threaded Reducer

| Nominal size mm/in | Pipe O.D mm/in  | Working Pressure (Mpa) | Dimensions L (mm) | Nominal size mm/in | Pipe O.D mm/in  | Working Pressure (Mpa) | Dimensions L (mm) |
|--------------------|-----------------|------------------------|-------------------|--------------------|-----------------|------------------------|-------------------|
| 50 x 25            | 60.3 x Rc1      |                        | 64                | 125 x 32           | 139.7 x Rc1 1/4 |                        | 85                |
| 2 x 1              | 2.375 x 1.327   |                        | 64                | 5 x 1 1/4          | 5.5 x 1.669     |                        | 85                |
| 50 x 32            | 60.3 x Rc1 1/4  |                        | 64                | 125 x 40           | 139.7 x Rc1 1/2 |                        | 85                |
| 2 x 1 1/4          | 2.375 x 1.669   |                        | 64                | 5 x 1 1/2          | 5.5 x 1.9       |                        | 85                |
| 50 x 40            | 60.3 x Rc1 1/2  |                        | 64                | 125 x 50           | 139.7 x Rc2     |                        | 85                |
| 2 x 1 1/2          | 2.375 x 1.9     |                        | 64                | 5 x 2              | 5.5 x 2.375     |                        | 85                |
| 65 x 25            | 73 x Rc1        |                        | 64                | 125 x 65           | 139.7 x Rc2 1/2 |                        | 85                |
| 2 1/2 x 1          | 2.875 x 1.327   |                        | 64                | 5 x 2 1/2          | 5.5 x 3         |                        | 85                |
| 65 x 32            | 73 x Rc1 1/4    |                        | 64                | 125 x 80           | 139.7 x Rc3     |                        | 85                |
| 2 1/2 x 1 1/4      | 2.875 x 1.669   |                        | 64                | 5 x 3              | 5.5 x 3.5       |                        | 85                |
| 65 x 40            | 73 x Rc1 1/2    |                        | 64                | 125 x 100          | 139.7 x Rc4     |                        | 85                |
| 2 1/2 x 1 1/2      | 2.875 x 1.9     |                        | 64                | 5 x 4              | 5.5 x 4.5       |                        | 85                |
| 65 x 40            | 76.1 x Rc1 1/2  |                        | 64                | 150 x 25           | 159 x Rc1       |                        | 85                |
| 2 1/2 x 1 1/2      | 3 x 1.9         |                        | 64                | 6 x 1              | 6.25 x 1.327    |                        | 85                |
| 65 x 50            | 76.1 x Rc2      |                        | 64                | 150 x 32           | 159.0 x Rc1 1/4 |                        | 85                |
| 2 1/2 x 2          | 3 x 2.375       |                        | 64                | 6 x 1 1/4          | 6.25 x 1.669    |                        | 85                |
| 80 x 25            | 88.9 x Rc1      |                        | 64                | 150 x 40           | 159.0 x Rc1 1/2 |                        | 85                |
| 3 x 1              | 3.5 x 1.327     |                        | 64                | 6 x 1 1/2          | 6.25 x 1.9      |                        | 85                |
| 80 x 32            | 88.9 x Rc1 1/4  |                        | 64                | 150 x 50           | 159.0 x Rc2     |                        | 85                |
| 3 x 1 1/4          | 3.5 x 1.669     |                        | 64                | 6 x 2              | 6.25 x 2.375    |                        | 85                |
| 80 x 40            | 88.9 x Rc1 1/2  |                        | 64                | 150 x 65           | 159.0 x Rc2 1/2 |                        | 85                |
| 3 x 1 1/2          | 3.5 x 1.9       |                        | 64                | 6 x 2 1/2          | 6.250 x 3       |                        | 85                |
| 80 x 50            | 88.9 x Rc2      |                        | 64                | 150 x 80           | 159.0 x Rc3     |                        | 85                |
| 3 x 2              | 3.5 x 2.375     |                        | 64                | 6 x 3              | 6.25 x 3.5      |                        | 85                |
| 80 x 65            | 88.9 x Rc2 1/2  | 300PSI                 | 64                | 150 x 25           | 165.1 x Rc1     | 300PSI                 | 85                |
| 3 x 2 1/2          | 3.5 x 3         |                        | 64                | 6 x 1              | 6.5 x 1.327     |                        | 85                |
| 100 x 25           | 108.0 x Rc1     |                        | 76                | 150 x 32           | 165.1 x Rc1 1/4 |                        | 85                |
| 4 x 1              | 4.25 x 1.327    |                        | 76                | 6 x 1 1/4          | 6.5 x 1.669     |                        | 85                |
| 100 x 32           | 108.0 x Rc1 1/4 |                        | 76                | 150 x 40           | 165.1 x Rc1 1/2 |                        | 85                |
| 4 x 1 1/4          | 4.25 x 1.669    |                        | 76                | 6 x 1 1/2          | 6.5 x 1.9       |                        | 85                |
| 100 x 40           | 108.0 x Rc1 1/2 |                        | 76                | 150 x 50           | 165.1 x Rc2     |                        | 85                |
| 4 x 1 1/2          | 4.25 x 1.9      |                        | 76                | 6 x 2              | 6.5 x 2.375     |                        | 85                |
| 100 x 50           | 108.0 x Rc2     |                        | 76                | 150 x 65           | 165.1 x Rc2 1/2 |                        | 85                |
| 4 x 2              | 4.25 x 2.375    |                        | 76                | 6 x 2 1/2          | 6.5 x 3         |                        | 85                |
| 100 x 65           | 108.0 x Rc2 1/2 |                        | 76                | 150 x 80           | 165.1 x Rc3     |                        | 85                |
| 4 x 2 1/2          | 4.25 x 3        |                        | 76                | 6 x 3              | 6.5 x 3.5       |                        | 85                |
| 100 x 80           | 108 x Rc3       |                        | 76                | 150 x 100          | 165.1 x Rc4     |                        | 85                |
| 4 x 3              | 4.25 x 3.5      |                        | 76                | 6 x 4              | 6.5 x 4.5       |                        | 85                |
| 100 x 25           | 114.3 x Rc1     |                        | 76                | 200 x 25           | 219.1 x Rc1     |                        | 85                |
| 4 x 1              | 4.5 x 1.327     |                        | 76                | 8 x 1              | 8.625 x 1.327   |                        | 85                |
| 100 x 32           | 114.3 x Rc1 1/4 |                        | 76                | 200 x 32           | 219.1 x Rc1 1/4 |                        | 85                |
| 4 x 1 1/4          | 4.5 x 1.669     |                        | 76                | 8 x 1 1/4          | 8.625 x 1.669   |                        | 85                |
| 100 x 40           | 114.3 x Rc1 1/2 |                        | 76                | 200 x 40           | 219.1 x Rc1 1/2 |                        | 85                |
| 4 x 1 1/2          | 4.5 x 1.9       |                        | 76                | 8 x 1 1/2          | 8.625 x 1.9     |                        | 85                |
| 100 x 50           | 114.3 x Rc2     |                        | 76                | 200 x 50           | 219.1 x Rc2     |                        | 85                |
| 4 x 2              | 4.5 x 2.375     |                        | 76                | 8 x 2              | 8.625 x 2.375   |                        | 85                |
| 100 x 65           | 114.3 x Rc2 1/2 |                        | 76                | 200 x 65           | 219.1 x Rc2 1/2 |                        | 85                |
| 4 x 2 1/2          | 4.5 x 3         |                        | 76                | 8 x 2 1/2          | 8.625 x 3       |                        | 85                |
| 100 x 80           | 114.3 x Rc3     |                        | 76                | 200 x 80           | 219.1 x Rc3     |                        | 85                |
| 4 x 3              | 4.5 x 3.5       |                        | 76                | 8 x 3              | 8.625 x 3.5     |                        | 85                |
| 125 x 25           | 139.7 x Rc1     |                        | 85                | 200 x 100          | 219.1 x Rc4     |                        | 85                |
| 5 x 1              | 5.5 x 1.327     |                        | 85                | 8 x 4              | 8.625 x 4.5     |                        | 85                |

MODEL  
XGQT06



Cap

| Nominal Size mm/in | Pipe O.D mm/in | Working pressure (Mpa) | Dimensions(mm) |
|--------------------|----------------|------------------------|----------------|
|                    |                |                        | L(mm)          |
| 25                 | 33.7           |                        | 24             |
| 1                  | 1.327          |                        |                |
| 32                 | 42.4           |                        | 24             |
| 1 1/4              | 1.669          |                        |                |
| 40                 | 48.3           |                        | 24             |
| 1 1/2              | 1.9            |                        |                |
| 50                 | 60.3           |                        | 27             |
| 2                  | 2.375          |                        |                |
| 65                 | 73             |                        | 27             |
| 2 1/2              | 2.875          |                        |                |
| 65                 | 76.1           |                        | 27             |
| 2 1/2              | 3              |                        |                |
| 80                 | 88.9           |                        | 27             |
| 3                  | 3.5            |                        |                |
| 100                | 108            |                        | 27             |
| 4                  | 4.25           | 300PSI                 |                |
| 100                | 114.3          |                        | 27             |
| 4                  | 4.5            |                        |                |
| 125                | 133            |                        | 27             |
| 5                  | 5.25           |                        |                |
| 125                | 139.7          |                        | 27             |
|                    | (141.3)        |                        |                |
| 5                  | 5.5            |                        |                |
|                    | (5.563)        |                        |                |
| 150                | 169            |                        | 27             |
| 5                  | 6.25           |                        |                |
| 150                | 165.1          |                        | 27             |
| 6                  | 6.5            |                        |                |
| 150                | 168.3          |                        | 27             |
| 6                  | 6.625          |                        |                |
| 200                | 219.1          |                        | 31.5           |
| 8                  | 8.625          |                        |                |
| 250                | 273            |                        | 31.5           |
| 10                 | 10.75          |                        |                |
| 300                | 323.9          |                        | 32             |
| 12                 | 12.75          |                        |                |

MODEL  
XGQT061



Cap with Eccentric hole

| Nominal Size mm/in | Pipe O.D mm/in  | Working pressure (Mpa) | Dimensions(mm) |
|--------------------|-----------------|------------------------|----------------|
|                    |                 |                        | L(mm)          |
| 50 x 25            | 60.3 x Rc1      |                        | 23.8           |
| 2 x 1              | 2.375 x 1.327   |                        |                |
| 50 x 40            | 60.3 x Rc1 1/2  |                        | 23.8           |
| 2 x 1 1/2          | 2.375 x 1.9     |                        |                |
| 65 x 50            | 76.1 x Rc2      |                        | 23.8           |
| 2 1/2 x 2          | 3 x 2.375       |                        |                |
| 80 x 50            | 88.9 x Rc2      |                        | 25.4           |
| 3 x 2              | 3.5 x 2.375     | 300PSI                 |                |
| 100 x 50           | 114.3 x Rc2     |                        | 25.4           |
| 4 x 2              | 4.5 x 2.375     |                        |                |
| 125 x 50           | 139.7 x Rc2     |                        | 25.4           |
|                    | (141.3 x Rc2)   |                        |                |
| 5 x 2              | 5.5 x 2.375     |                        |                |
|                    | (5.563 x 2.375) |                        |                |
| 150 x 50           | 168.3 x Rc2     |                        | 25.4           |
| 5 x 2              | 6.63 x 2.375    |                        |                |
| 200 x 50           | 219.1 x Rc2     |                        | 25.4           |
| 8 x 2              | 8.625 x 2.375   |                        |                |

Castings

Chemical composition are strictly controlled for every batch of castings, bottom inspection will be conducted for every furnace with tensile bars to trace back, to assure the castings to meet the requirements of ASTM 536 and ISO1083.



Bolts and Nuts

Made of excellent carbon steel, heat treated, zinc electroplated, conform to ASTM A183/ISO 898.



Gaskets

| Material   | Applied Temperature | Color | Applied field   |
|------------|---------------------|-------|---|
| EPDM       | -34°C--+110°C       | Black | Water, non-oil gas, diluted acid, alkaline salt, and multi-chemicals free of hydrocarbon. Oil-like mediums are forbidden. |
| Silica gel | -40°C--+177°C       | White | Drinking water, hot water, high-temperature air and some high-temperature chemicals. Oil like mediums are forbidden.      |



Finish

All the castings are treated with sand blasting before finishing, for different environment, different finishes are recommended, like epoxy powder, paint, dacromat to meet different requirements of the clients.



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**SHANDONG LEDE MACHINERY CO.,LTD.**

Add: No.3998,Northern part of west outer ring,  
Weifang City,Shandong,P.R.China.

E-mail: [wfilede@vip.163.com](mailto:wfilede@vip.163.com)

Tel/Fax: +86-536-8167992

Http: [//www.ledgroup.cn](http://www.ledgroup.cn)