

# CONEXIONES SISTEMA RANURADO

GROOVED COUPLINGS

GROOVED FITTINGS

MECHANICAL TEES

FLANGES

FOR HDPE PLASTIC PIPE



# MODEL XGQT1 RIGID COUPLING

## - T & G Design -

The Lede Model XGQT is a T&G (tongue & groove) design rigid coupling for moderate pressure applications where rigidity is required including valve connections, mechanical rooms, fire mains and long straight runs. The built-in teeth and T&G mechanism firmly grasp the pipe ends to eliminate undesired. Support and hanging requirements correspond to ANSI B31.1, B31.9 and NFPA 13.

### SPECIFICATIONS

Sizes available:  
25mm - 300mm / 1" ~ 12"

Working Pressure:  
Up to 20 bar / 300 psi  
Maximum working pressures are CWP (cold water pressure) or maximum allowed working pressure within the service temperature range of the gasket used in the coupling, based on standard wall orsch. 7/10/40 steel pipe, cut or roll-grooved to ANSI/AWWA C606-04 specifications. These ratings may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ. For performance data on other pipe schedules contact Lede.

**Housing Coating:**  
Red Enamel

**Housing material:**  
Ductile Iron conforming to ASTM A536 Gr. 65-45-12.

**Gasket material:**  
EPDM (Silicon free) These gaskets have excellent self sealing capabilities and are designed to provide a leak tight seal.

### INTERNATIONAL APPROVAL



### INSTALLATION



### LEDE GROOVED PIPING SYSTEM

The Lede grooved piping system is one of the most advanced, versatile, economical and reliable systems available today. After the pipe ends are grooved a gasket is stretched over the pipe ends. The coupling segments are then placed over the gasket and the bolts and nuts are fastened resulting in a secure and leak free joint.

### SUBMITTAL INFORMATION

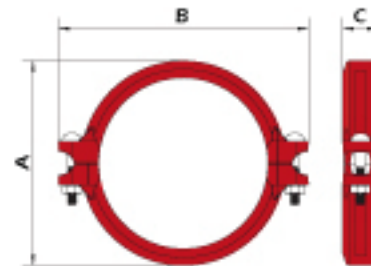
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|------------|--------------------------|--------------|
| PROJECT:   | CONTRACTOR:              | DATE:        |
| ENGINEER:  | SPECIFICATION REFERENCE: | SYSTEM TYPE: |
| LOCATIONS: | COMMENTS:                |              |

# MODEL XGOT1 RIGID COUPLING

## - T & G Design -

### DATA CHART

Lede couplings are identified by the nominal IPS pipe size in inches or nominal diameter of pipe (DN) in millimeters.



| Nominal Size<br>mm/in | Pipe O.D.<br>mm/in | Max. Working Pressure<br>Bar/PSI | Max. End Load<br>KN/Lbs | Axial Displacement<br>mm/in | Dimensions |            |            | Bolts Size<br>mm/in |
|-----------------------|--------------------|----------------------------------|-------------------------|-----------------------------|------------|------------|------------|---------------------|
|                       |                    |                                  |                         |                             | A<br>mm/in | B<br>mm/in | C<br>mm/in |                     |
| 25                    | 33.7               | 20                               | 1.80                    | 0-1.6                       | 55         | 97         | 45         | M10x40              |
| 1                     | 1.327              | 300                              | 405                     | 0-0.06                      | 2.17       | 3.82       | 1.77       | 3/8x1-1/2           |
| 32                    | 42.4               | 20                               | 2.92                    | 0-1.6                       | 63.5       | 107.5      | 45         | M10x45              |
| 1 1/4                 | 1.669              | 300                              | 656                     | 0-0.06                      | 2.50       | 4.23       | 1.77       | 3/8x1-3/4           |
| 40                    | 48.3               | 20                               | 3.79                    | 0-1.6                       | 69         | 114        | 45         | M10x45              |
| 1 1/2                 | 1.9                | 300                              | 852                     | 0-0.06                      | 2.72       | 4.49       | 1.77       | 3/8x1-3/4           |
| 50                    | 60.3               | 20                               | 5.91                    | 0-1.6                       | 83.6       | 124        | 46         | M10x55              |
| 2                     | 2.375              | 300                              | 1327                    | 0-0.06                      | 3.29       | 4.88       | 1.81       | 3/8x2-1/8           |
| 65                    | 73                 | 20                               | 8.66                    | 0-1.6                       | 98         | 137        | 46         | M10x55              |
| 2 1/2                 | 2.875              | 300                              | 1945                    | 0-0.06                      | 3.86       | 5.39       | 1.81       | 3/8x2-1/8           |
| 80                    | 85.9               | 20                               | 12.84                   | 0-1.6                       | 114        | 156        | 46         | M10x55              |
| 3                     | 3.5                | 300                              | 2885                    | 0-0.06                      | 4.49       | 6.14       | 1.81       | 3/8x2-1/8           |
| 100                   | 114.3              | 20                               | 21.22                   | 0-4.1                       | 142        | 189        | 50         | M12x65              |
| 4                     | 4.5                | 300                              | 4769                    | 0-0.16                      | 5.59       | 7.44       | 1.97       | 1/2x2-5/8           |
| 125                   | 141.3              | 20                               | 32.43                   | 0-4.1                       | 170        | 218        | 50         | M12x65              |
| 5                     | 5.563              | 300                              | 7288                    | 0-0.16                      | 6.69       | 8.58       | 1.97       | 1/2x2-5/8           |
| 150                   | 168.3              | 20                               | 46.00                   | 0-4.1                       | 198        | 251        | 50         | M12x65              |
| 6                     | 6.625              | 300                              | 10340                   | 0-0.16                      | 7.80       | 9.88       | 1.97       | 1/2x2-5/8           |
| 200                   | 219.1              | 20                               | 77.97                   | 0-4.1                       | 256        | 316        | 60         | M16x80              |
| 8                     | 8.625              | 300                              | 17524                   | 0-0.16                      | 10.08      | 12.44      | 2.36       | 5/8x3-1/8           |
| 250                   | 273                | 20                               | 121.05                  | 0-4.1                       | 319        | 393        | 64         | M20x90              |
| 10                    | 10.75              | 300                              | 27206                   | 0-0.16                      | 12.56      | 15.47      | 2.52       | 3/4x3-1/2           |
| 300                   | 323.9              | 20                               | 170.39                  | 0-4.1                       | 374        | 453        | 65         | M20x110             |
| 12                    | 12.75              | 300                              | 38297                   | 0-0.16                      | 14.72      | 17.82      | 2.56       | 3/4x4-1/2           |

#### Weights:

All weights are approximate and subject to change without notice.

Lede reserves the right to change or modify product designs, specifications and/or standard equipment without notice and without incurring obligation.

#### Sales:

Prices and Terms and Conditions of Sale are subject to change without notice.

#### Warranty:

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.

# MODEL XGQT2 FLEXIBLE COUPLING

The Lede Model XGQT2 is a standard flexible coupling for use in a variety of general piping applications of moderate pressure services. The Model XGQT2 couplings features flexibility that can deal with misalignment, distortion, thermal stress, vibration and noise and also resist seismic tremors. With the use of Model XGQT2 couplings you can even design a curved layout.

## SPECIFICATIONS

Sizes available:  
25mm - 600mm / 1" ~ 24"

Working Pressure:  
Up to 20 bar / 300 psi

Maximum working pressures are CWP (cold water pressure) or maximum allowed working pressure within the service temperature range of the gasket used in the coupling, based on standard wall orsch. 7/10/40 steel pipe, cut or roll-grooved to ANSI/AWWA C606-04 specifications.

These ratings may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ. For performance data on other pipe schedules contact Lede.

**Housing Coating:**  
Red Enamel

**Housing material:**  
Ductile Iron conforming to ASTM A536 Gr. 65-45-12.

**Gasket material:**  
EPDM (Silicon free) These gaskets have excellent self sealing capabilities and are designed to provide a leak tight seal.

## INTERNATIONAL APPROVAL



## INSTALLATION



## LEDE GROOVED PIPING SYSTEM

The Lede grooved piping system is one of the most advanced, versatile, economical and reliable systems available today. After the pipe ends are grooved a gasket is stretched over the pipe ends. The coupling segments are then placed over the gasket and the bolts and nuts are fastened resulting in a secure and leak free joint.

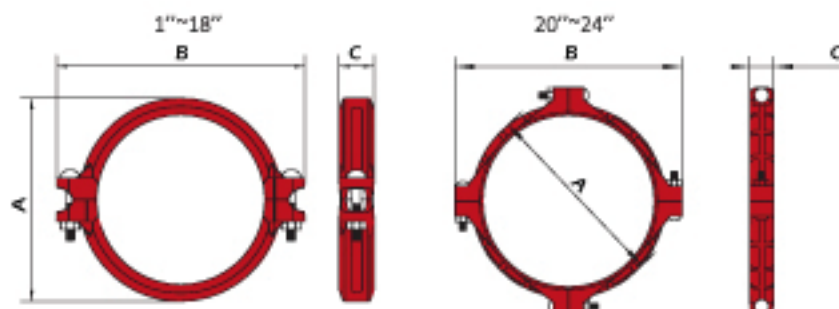
## SUBMITTAL INFORMATION

|            |                          |              |
|------------|--------------------------|--------------|
| PROJECT:   | CONTRACTOR:              | DATE:        |
| ENGINEER:  | SPECIFICATION REFERENCE: | SYSTEM TYPE: |
| LOCATIONS: | COMMENTS:                |              |

# MODEL XGQT2 FLEXIBLE COUPLING

## DATA CHART

Lede couplings are identified by the nominal IPS pipe size in inches or nominal diameter of pipe (DN) in millimeters.



| Nominal Size<br>mm/in | Actual O.D.<br>mm/in | Max. Working Pressure<br>Bar/PSI | Max. End Load<br>KN/Lbs | Axial Displacement<br>mm/in | Angular Movement        |                | Dimensions |            |            | Bolt          |
|-----------------------|----------------------|----------------------------------|-------------------------|-----------------------------|-------------------------|----------------|------------|------------|------------|---------------|
|                       |                      |                                  |                         |                             | Per Coupling Degree (°) | Per Pipe in/ft | A<br>mm/in | B<br>mm/in | C<br>mm/in | Size<br>mm/in |
| 25                    | 33.7                 | 20                               | 1.80                    | 1.6                         | 2°-45°                  | 0.58           | 55         | 97         | 45         | M10x40        |
| 1                     | 1.327                | 300                              | 405                     | 0.0625                      |                         | 48             | 2.17       | 3.82       | 1.77       | 3/8x1/2       |
| 32                    | 42.4                 | 20                               | 2.92                    | 1.6                         | 2°-10°                  | 0.46           | 63.5       | 107.5      | 45         | M10x45        |
| 1 1/4                 | 1.669                | 300                              | 656                     | 0.0625                      |                         | 38             | 2.50       | 4.23       | 1.77       | 3/8x3/4       |
| 40                    | 48.3                 | 20                               | 3.79                    | 1.6                         | 1°-54°                  | 0.4            | 69         | 114        | 45         | M10x45        |
| 1 1/2                 | 1.9                  | 300                              | 852                     | 0.0625                      |                         | 33             | 2.72       | 4.49       | 1.77       | 3/8x1-3/4     |
| 50                    | 60.3                 | 20                               | 5.91                    | 1.6                         | 1°-31°                  | 0.32           | 83.6       | 124        | 46         | M10x55        |
| 2                     | 2.375                | 300                              | 1327                    | 0.0625                      |                         | 27             | 3.29       | 4.88       | 1.81       | 3/8x2-1/8     |
| 65                    | 73                   | 20                               | 8.66                    | 1.6                         | 1°-15°                  | 0.26           | 98         | 137        | 46         | M10x55        |
| 2 1/2                 | 2.875                | 300                              | 1945                    | 0.0625                      |                         | 22             | 3.86       | 5.39       | 1.81       | 3/8x2-1/8     |
| 80                    | 88.9                 | 20                               | 12.84                   | 1.6                         | 1°-02°                  | 0.22           | 114        | 156        | 46         | M10x55        |
| 3                     | 3.5                  | 300                              | 2885                    | 0.0625                      |                         | 18             | 4.49       | 6.14       | 1.81       | 3/8x2-1/8     |
| 100                   | 108                  | 20                               | 18.94                   | 3.2                         | 1°-42°                  | 0.36           | 138        | 186        | 50         | M12x65        |
| 4                     | 4.25                 | 300                              | 4258                    | 0.125                       |                         | 30             | 5.43       | 7.32       | 1.97       | 1/2x2-5/8     |
| 125                   | 141.3                | 20                               | 32.43                   | 3.2                         | 1°-18°                  | 0.27           | 170        | 218        | 50         | M12x65        |
| 5                     | 5.563                | 300                              | 7288                    | 0.125                       |                         | 23             | 6.69       | 8.58       | 1.97       | 1/2x2-5/8     |
| 150                   | 168.3                | 20                               | 46.00                   | 3.2                         | 1°-05°                  | 0.23           | 198        | 251        | 50         | M12x65        |
| 6                     | 6.625                | 300                              | 10340                   | 0.125                       |                         | 19             | 7.80       | 9.88       | 1.97       | 1/2x2-5/8     |
| 200                   | 219.1                | 20                               | 77.97                   | 3.2                         | 0°-50°                  | 0.18           | 256        | 316        | 60         | M16x80        |
| 8                     | 8.625                | 300                              | 17524                   | 0.125                       |                         | 15             | 10.08      | 12.44      | 2.36       | 5/8x3-1/8     |
| 250                   | 273.0                | 20                               | 121.05                  | 3.2                         | 0°-50°                  | 0.14           | 319        | 393        | 64         | M20x90        |
| 10                    | 10.75                | 300                              | 27206                   | 0.125                       |                         | 12             | 12.56      | 15.47      | 2.52       | 3/4x3-1/2     |
| 300                   | 323.9                | 20                               | 170.39                  | 3.2                         | 0°-50°                  | 0.12           | 374        | 453        | 65         | M20x110       |
| 12                    | 12.75                | 300                              | 58297                   | 0.125                       |                         | 10             | 14.72      | 17.83      | 2.56       | 3/4x4-1/3     |
| 350                   | 355.6                | 20                               | 198.53                  | 3.2                         | 0°-31°                  | 0.06           | 410        | 510        | 75         | M22x110       |
| 14                    | 14                   | 300                              | 46150                   | 0.125                       |                         | 4.5            | 16.14      | 20.08      | 2.95       | 7/8x4-1/3     |
| 400                   | 406.4                | 20                               | 259.30                  | 3.2                         | 0°-27°                  | 0.05           | 459        | 555        | 75         | M22x140       |
| 16                    | 16                   | 300                              | 60280                   | 0.125                       |                         | 4              | 18.07      | 21.85      | 2.95       | 7/8x5-1/2     |
| 450                   | 457.2                | 20                               | 327.89                  | 3.2                         | 0°-24°                  | 0.04           | 516        | 606        | 78         | M22x140       |
| 18                    | 18                   | 300                              | 76300                   | 0.125                       |                         | 3.5            | 20.31      | 23.86      | 3.07       | 7/8x5-1/2     |
| 500                   | 508.0                | 20                               | 490.60                  | 3.2                         | 0°-19°                  | 0.04           | 567        | 674        | 78         | M22x140       |
| 20                    | 20                   | 300                              | 113980                  | 0.125                       |                         | 3              | 22.32      | 26.54      | 3.07       | 7/8x5-1/2     |
| 550                   | 558.8                | 20                               | 584.20                  | 3.2                         | 0°-18°                  | 0.03           | 622        | 728        | 78         | M22x140       |
| 22                    | 22                   | 300                              | 135640                  | 0.125                       |                         | 2.5            | 24.49      | 28.66      | 3.07       | 7/8x5-1/2     |
| 600                   | 609.6                | 20                               | 684.72                  | 3.2                         | 0°-17°                  | 0.03           | 674        | 778        | 78         | M24x150       |
| 24                    | 24                   | 300                              | 159190                  | 0.125                       |                         | 2.5            | 26.54      | 30.63      | 3.07       | 1x5-9/10      |

Deflection or angular movement is the maximum value that a coupling allows under no internal pressure.

### Weights:

All weights are approximate and subject to change without notice.

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### Sales:

Prices and Terms and Conditions of Sale are subject to change without notice.

### Warranty:

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.

# MODEL XGQT3 REDUCING COUPLING

The Lede Model XGQT3 reducing coupling allows for direct reduction on a piping run and eliminates the need for a concentric reducer and couplings. The specially designed rubber gasket helps prevent small pipe from telescoping into larger pipe during vertical assembly.

## SPECIFICATIONS

Sizes available:

40x32mm - 200x150mm / 1 1/2x1 1/4" ~ 8x6"

Working Pressure:

Up to 20 bar / 300 psi

Maximum working pressures are CWP (cold water pressure) or maximum allowed working pressure within the service temperature range of the gasket used in the coupling, based on standard wall orsch. 7/10/40 steel pipe, cut or roll-grooved to ANSI/AWWA C606-04 specifications.

These ratings may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ. For performance data on other pipe schedules contact Lede.

**Housing Coating:**

Red Enamel

**Housing material:**

Ductile Iron conforming to ASTM A536 Gr. 65-45-12.

**Gasket material:**

EPDM (Silicon free) These gaskets have excellent self sealing capabilities and are designed to provide a leak tight seal.



## LEDE GROOVED PIPING SYSTEM

The Lede grooved piping system is one of the most advanced, versatile, economical and reliable systems available today. After the pipe ends are grooved a gasket is stretched over the pipe ends. The coupling segments are then placed over the gasket and the bolts and nuts are fastened resulting in a secure and leak free joint.

**Caution: The Model XGQT3 couplings should not be used with an end cap, as the end may be sucked into the pipe when draining the system.**

## INTERNATIONAL APPROVAL



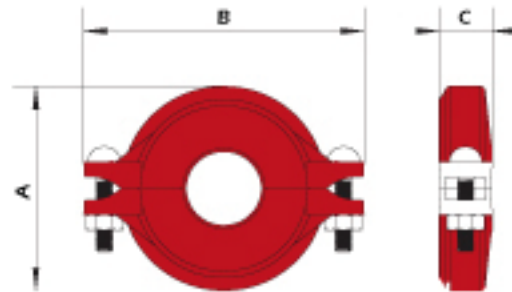
## SUBMITTAL INFORMATION

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|------------|--------------------------|--------------|
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| LOCATIONS: | COMMENTS:                |              |

# MODEL XGQT3 REDUCING COUPLING

## DATA CHART

Lede couplings are identified by the nominal IPS pipe size in inches or nominal diameter of pipe (DN) in millimeters.



| Nominal Size<br>mm/in | Actual O.D.<br>mm/in | Max. Working Pressure<br>Bar/PSI | Max. End Load<br>KN/Lbs | Axial Displacement<br>mm/in | Deflection             |                    | Dimensions |            |            | Bolt Size<br>mm/in |
|-----------------------|----------------------|----------------------------------|-------------------------|-----------------------------|------------------------|--------------------|------------|------------|------------|--------------------|
|                       |                      |                                  |                         |                             | Degree Per Coupling(°) | Pipe<br>mm/m in/ft | A<br>mm/in | B<br>mm/in | C<br>mm/in |                    |
| 40x32                 | 48.3x42.4            | 20                               | 3.79                    | 1.6                         |                        | 0.4                | 70         | 113        | 45         | M10x50             |
| 1 1/2x1 1/4           | 1.9x1.669            | 300                              | 852                     | 0.0625                      | 1°-54°                 | 33                 | 2.76       | 4.45       | 1.77       | 3/8x2              |
| 50x40                 | 60.3x48.3            | 20                               | 5.91                    | 1.6                         |                        | 0.32               | 82         | 130        | 46         | M10x55             |
| 2x1 1/2               | 2.375x1.9            | 300                              | 1327                    | 0.0625                      | 1°-31°                 | 27                 | 3.23       | 5.12       | 1.81       | 3/8x2-1/8          |
| 65x55                 | 73x63.7              | 20                               | 8.66                    | 1.6                         |                        | 0.26               | 97         | 151        | 46         | M10x55             |
| 2 1/2x1               | 2.875x1.327          | 300                              | 1945                    | 0.0625                      | 1°-15°                 | 22                 | 3.82       | 5.94       | 1.81       | 3/8x2-1/8          |
| 65x32                 | 73x42.4              | 20                               | 8.66                    | 1.6                         |                        | 0.26               | 97         | 151        | 46         | M10x55             |
| 2 1/2x1 1/4           | 2.875x1.669          | 300                              | 1945                    | 0.0625                      | 1°-15°                 | 22                 | 3.82       | 5.94       | 1.81       | 3/8x2-1/8          |
| 65x40                 | 73x48.3              | 20                               | 8.66                    | 1.6                         |                        | 0.26               | 97         | 151        | 46         | M10x55             |
| 2 1/2x1 1/2           | 2.875x1.9            | 300                              | 1945                    | 0.0625                      | 1°-15°                 | 22                 | 3.82       | 5.94       | 1.81       | 3/8x2-1/8          |
| 65x50                 | 73x60.3              | 20                               | 8.66                    | 1.6                         |                        | 0.26               | 97         | 151        | 46         | M10x55             |
| 2 1/2x2               | 2.875x2.375          | 300                              | 1945                    | 0.0625                      | 1°-15°                 | 22                 | 3.82       | 5.94       | 1.81       | 3/8x2-1/8          |
| 80x40                 | 88.9x48.3            | 20                               | 12.84                   | 1.6                         |                        | 0.22               | 112        | 166.6      | 46         | M12x65             |
| 3x1 1/2               | 3.5x1.9              | 300                              | 2885                    | 0.0625                      | 1°-02°                 | 18                 | 4.41       | 6.56       | 1.81       | 1/2x2-5/8          |
| 80x50                 | 88.9x60.3            | 20                               | 12.84                   | 1.6                         |                        | 0.22               | 112        | 166.6      | 46         | M12x65             |
| 3x2                   | 3.5x2.375            | 300                              | 2885                    | 0.0625                      | 1°-02°                 | 18                 | 4.41       | 6.56       | 1.81       | 1/2x2-5/8          |
| 80x65                 | 88.9x73.0            | 20                               | 12.84                   | 1.6                         |                        | 0.22               | 112        | 166.6      | 46         | M12x65             |
| 3x2 1/2               | 3.5x2.875            | 300                              | 2885                    | 0.0625                      | 1°-02°                 | 18                 | 4.41       | 6.56       | 1.81       | 1/2x2-5/8          |
| 100x50                | 114.3x60.3           | 20                               | 21.22                   | 3.2                         |                        | 0.34               | 141        | 200        | 50         | M12x65             |
| 4x2                   | 4.5x2.375            | 300                              | 4769                    | 0.125                       | 1°-36°                 | 28                 | 5.55       | 7.87       | 1.97       | 1/2x2-5/8          |
| 100x65                | 114.3x73.0           | 20                               | 21.22                   | 3.2                         |                        | 0.34               | 141        | 200        | 50         | M12x65             |
| 4x2 1/2               | 4.5x2.875            | 300                              | 4769                    | 0.125                       | 1°-36°                 | 28                 | 5.55       | 7.87       | 1.97       | 1/2x2-5/8          |
| 100x80                | 114.3x88.9           | 20                               | 21.22                   | 3.2                         |                        | 0.34               | 141.8      | 200        | 50         | M12x65             |
| 4x3                   | 4.5x3.5              | 300                              | 4769                    | 0.125                       | 1°-36°                 | 28                 | 5.58       | 7.87       | 1.97       | 1/2x2-5/8          |
| 125x100               | 141.3x114.3          | 20                               | 32.43                   | 3.2                         |                        | 0.27               | 167        | 230        | 52         | M16x80             |
| 5x4                   | 5.563x4.5            | 300                              | 7288                    | 0.125                       | 1°-18°                 | 23                 | 6.57       | 9.06       | 2.05       | 5/8x3-1/8          |
| 150x80                | 165.1x88.9           | 20                               | 44.27                   | 3.2                         |                        | 0.24               | 197        | 275        | 52         | M16x80             |
| 6x3                   | 6.5x3.5              | 300                              | 9950                    | 0.125                       | 1°-07°                 | 20                 | 7.76       | 10.83      | 2.05       | 5/8x3-1/8          |
| 150x100               | 165.1x114.3          | 20                               | 44.27                   | 3.2                         |                        | 0.24               | 197        | 275        | 52         | M16x80             |
| 6x4                   | 6.5x4.5              | 300                              | 9950                    | 0.125                       | 1°-07°                 | 20                 | 7.76       | 10.83      | 2.05       | 5/8x3-1/8          |
| 150x65                | 168.3x73             | 20                               | 46.00                   | 3.2                         |                        | 0.23               | 199.4      | 275        | 52         | M16x80             |
| 6x2 1/2               | 6.525x2.875          | 300                              | 10340                   | 0.125                       | 1°-06°                 | 19                 | 7.85       | 10.83      | 2.05       | 5/8x3-1/8          |
| 150x80                | 168.3x88.9           | 20                               | 46.00                   | 3.2                         |                        | 0.23               | 199.4      | 275        | 52         | M16x80             |
| 6x3                   | 6.525x3.5            | 300                              | 10340                   | 0.125                       | 1°-06°                 | 19                 | 7.85       | 10.83      | 2.05       | 5/8x3-1/8          |
| 150x100               | 168.3x114.3          | 20                               | 46.00                   | 3.2                         |                        | 0.23               | 199.4      | 275        | 52         | M16x80             |
| 6x4                   | 6.525x4.5            | 300                              | 10340                   | 0.125                       | 1°-06°                 | 19                 | 7.85       | 10.83      | 2.05       | 5/8x3-1/8          |
| 150x100               | 168.3x141.3          | 20                               | 46.00                   | 3.2                         |                        | 0.23               | 199.4      | 275        | 52         | M16x80             |
| 6x5                   | 6.625x5.563          | 300                              | 10340                   | 0.125                       | 1°-06°                 | 19                 | 7.85       | 10.83      | 2.05       | 5/8x3-1/8          |
| 200x100               | 219.1x114.3          | 20                               | 77.97                   | 3.2                         |                        | 0.18               | 256        | 336        | 58         | M20x110            |
| 8x4                   | 8.625x4.5            | 300                              | 17524                   | 0.125                       | 0°-50°                 | 15                 | 10.08      | 13.23      | 2.28       | 3/4x4-1/2          |
| 200x150               | 219.1x168.3          | 20                               | 77.97                   | 3.2                         |                        | 0.18               | 256        | 336        | 58         | M20x110            |
| 8x6                   | 8.625x6.525          | 300                              | 17524                   | 0.125                       | 0°-50°                 | 15                 | 10.08      | 13.23      | 2.28       | 3/4x4-1/2          |

Deflection or angular movement is the maximum value that a coupling allows under no internal pressure.

# MODEL XGQT3 REDUCING COUPLING

**Weights:**

All weights are approximate and subject to change without notice.

Lede reserves the right to change or modify product designs, specifications and/or standard equipment without notice and without incurring obligation.

**Sales:**

Prices and Terms and Conditions of Sale are subject to change without notice.

**Warranty:**

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.



# GROOVED ELBOWS

XGQT01 90° | XGQT011 45° | XGQT012 22-1/2°  
XGQT013 11-1/4° | XGQT01L 90° | XGQT011L 45°

## SPECIFICATIONS

Sizes available:  
25mm - 300mm / 1" ~ 12"

Working Pressure:  
Up to 20 bar / 300 psi  
Maximum working pressures are CWP (cold water pressure) or maximum allowed working pressure within the service temperature range of the gasket used in the coupling, based on standard wall orsch. 7/10/40 steel pipe, cut or roll-grooved to ANSI/AWWA C606-04 specifications. These ratings may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ. For performance data on other pipe schedules contact Lede.

Pipe Coating:  
Red Enamel

Pipe material:  
Cast of Ductile Iron.



MODEL XGQT01  
90° ELBOW



MODEL XGQT011  
45° ELBOW



MODEL XGQT012  
22-1/2° ELBOW



MODEL XGQT013  
11-1/4° ELBOW



MODEL XGQT01L  
90° LONG RADIUS  
ELBOW



MODEL XGQT011L  
45° LONG RADIUS  
ELBOW

## INTERNATIONAL APPROVAL



## SUBMITTAL INFORMATION

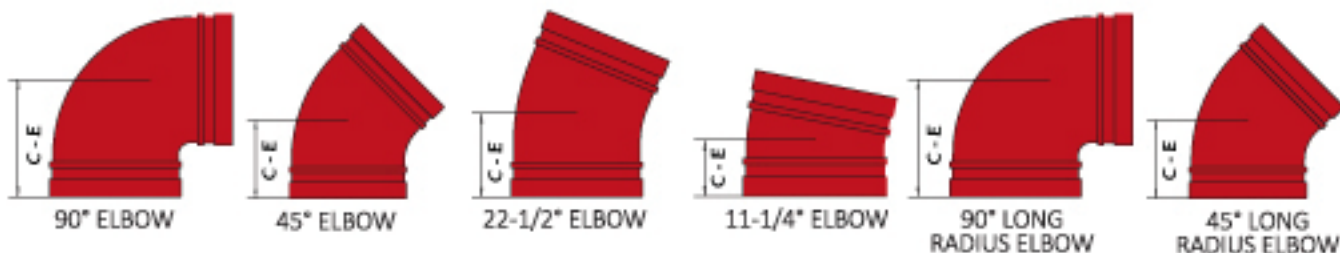
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| PROJECT:   | CONTRACTOR:              | DATE:        |
| ENGINEER:  | SPECIFICATION REFERENCE: | SYSTEM TYPE: |
| LOCATIONS: | COMMENTS:                |              |

# GROOVED ELBOWS

XGQT01 90° | XGQT011 45° | XGQT012 22-1/2°

XGQT013 11-1/4° | XGQT01L 90° | XGQT011L 45°

## DATA CHART



| Nominal Size<br>mm/in | Pipe O.D.<br>mm/in | Max. Working Pressure<br>Bar/PSI | XGQT01<br>90° Elbow | XGQT011<br>45° Elbow | XGQT012<br>22-1/2° Elbow | XGQT013<br>11-1/4° Elbow | XGQT01L<br>90° Long Radius Elbow | XGQT011L<br>45° Long Radius Elbow |
|-----------------------|--------------------|----------------------------------|---------------------|----------------------|--------------------------|--------------------------|----------------------------------|-----------------------------------|
|                       |                    |                                  | C-E                 | C-E                  | C-E                      | C-E                      | C-E                              | C-E                               |
| 25                    | 33.7               | 20                               | ---                 | ---                  | 45                       | 35                       | 57                               | 45                                |
| 1                     | 1.327              | 300                              | ---                 | ---                  | 1.77                     | 1.38                     | 2.24                             | 1.77                              |
| 32                    | 42.4               | 20                               | ---                 | ---                  | 45                       | 35                       | 70                               | 45                                |
| 1 1/4                 | 1.669              | 300                              | ---                 | ---                  | 1.77                     | 1.38                     | 2.76                             | 1.77                              |
| 40                    | 48.3               | 20                               | ---                 | ---                  | 48                       | 35                       | 70                               | 45                                |
| 1 1/2                 | 1.9                | 300                              | ---                 | ---                  | 1.89                     | 1.38                     | 2.76                             | 1.77                              |
| 50                    | 60.3               | 20                               | 70                  | ---                  | 51                       | 38                       | 83                               | 51                                |
| 2                     | 2.375              | 300                              | 2.76                | ---                  | 2.01                     | 1.50                     | 3.27                             | 2.01                              |
| 65                    | 73                 | 20                               | 76                  | 62                   | 51                       | 38                       | 95                               | 62                                |
| 2 1/2                 | 2.875              | 300                              | 2.99                | 2.44                 | 2.01                     | 1.50                     | 3.74                             | 2.44                              |
| 80                    | 88.9               | 20                               | 85                  | 53                   | 73                       | 45                       | 108                              | 70                                |
| 3                     | 3.5                | 300                              | 3.35                | 2.09                 | 2.87                     | 1.77                     | 4.25                             | 2.76                              |
| 100                   | 114.3              | 20                               | 102                 | 60                   | 73                       | 51                       | 127                              | 76                                |
| 4                     | 4.5                | 300                              | 4.02                | 2.36                 | 2.87                     | 2.01                     | 5                                | 2.99                              |
| 125                   | 141.3              | 20                               | 121                 | 68                   | 79                       | 51                       | 140                              | 83                                |
| 5                     | 5.563              | 300                              | 4.76                | 2.68                 | 3.11                     | 2.01                     | 5.51                             | 3.27                              |
| 150                   | 168.3              | 20                               | 130                 | 75.5                 | 98                       | 51                       | 165                              | 89                                |
| 6                     | 6.625              | 300                              | 5.12                | 2.97                 | 3.86                     | 2.01                     | 6.5                              | 3.50                              |
| 200                   | 219.1              | 20                               | 175                 | 95                   | 111                      | 54                       | 197                              | 108                               |
| 8                     | 8.625              | 300                              | 6.89                | 3.74                 | 4.37                     | 2.13                     | 7.76                             | 4.25                              |
| 250                   | 273                | 20                               | 215                 | 112                  | 124                      | 57                       | 229                              | 121                               |
| 10                    | 10.75              | 300                              | 8.46                | 4.41                 | 4.88                     | 2.24                     | 9.02                             | 4.76                              |
| 300                   | 323.9              | 20                               | 220                 | 135                  | ---                      | ---                      | 254                              | ---                               |
| 12                    | 12.75              | 300                              | 8.66                | 5.31                 | ---                      | ---                      | 10                               | ---                               |

### Weights:

All weights are approximate and subject to change without notice.

Lede reserves the right to change or modify product designs, specifications and/or standard equipment without notice and without incurring obligation.

### Sales:

Prices and Terms and Conditions of Sale are subject to change without notice.

### Warranty:

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.

# GROOVED TEES AND CROSSES

XGQT03 TEE | XGQT03L STANDARD TEE

XGQT05 CROSS | 5101 STANDARD CROSS

## SPECIFICATIONS

Sizes available:

25mm - 300mm / 1" ~ 12"

Working Pressure:

Up to 20 bar / 300 psi

Maximum working pressures are CWP (cold water pressure) or maximum allowed working pressure within the service temperature range of the gasket used in the coupling, based on standard wall orsch. 7/10/40 steel pipe, cut or roll-grooved to ANSI/AWWA C606-04 specifications.

These ratings may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ. For performance data on other pipe schedules contact Lede.

**Pipe Coating:**

Red Enamel

**Pipe material:**

Cast of Ductile Iron.



MODEL XGQT03 TEE



MODEL XGQT03L  
STANDARD TEE



MODEL XGQT05 CROSS



MODEL 5101  
STANDARD CROSS

## INTERNATIONAL APPROVAL



## SUBMITTAL INFORMATION

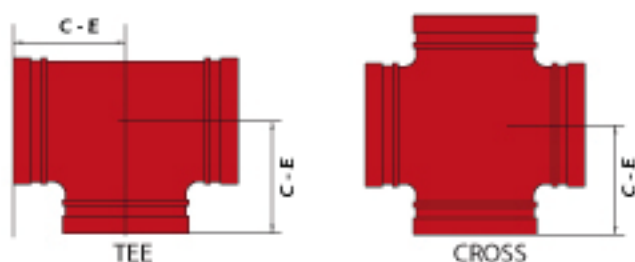
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|------------|--------------------------|--------------|
| PROJECT:   | CONTRACTOR:              | DATE:        |
| ENGINEER:  | SPECIFICATION REFERENCE: | SYSTEM TYPE: |
| LOCATIONS: | COMMENTS:                |              |

# GROOVED TEES AND CROSSES

XGQT03 TEE | XGQT03L STANDARD TEE

XGQT05 CROSS | 5101 STANDARD CROSS

## DATA CHART



| Nominal Size<br>mm/in | Pipe O.D.<br>mm/in | Max. Working Pressure<br>Bar/PSI | XGQT03<br>SR Straight Tee | XGQT03L<br>Tee | XGQT05<br>Cross | 5101<br>Standard Cross |
|-----------------------|--------------------|----------------------------------|---------------------------|----------------|-----------------|------------------------|
|                       |                    |                                  | C- E                      | C- E           | C- E            | C- E                   |
| 25                    | 33.7               | 20                               | ---                       | 57             | ---             | 57                     |
| 1                     | 1.327              | 300                              | ---                       | 2.24           | ---             | 2.24                   |
| 32                    | 42.4               | 20                               | ---                       | 70             | ---             | 70                     |
| 1 1/4                 | 1.669              | 300                              | ---                       | 2.76           | ---             | 2.76                   |
| 40                    | 48.3               | 20                               | ---                       | 70             | ---             | 70                     |
| 1 1/2                 | 1.9                | 300                              | ---                       | 2.76           | ---             | 2.76                   |
| 50                    | 60.3               | 20                               | 70                        | 84             | 70              | 84                     |
| 2                     | 2.375              | 300                              | 2.76                      | 3.31           | 2.76            | 3.31                   |
| 65                    | 73                 | 20                               | 76                        | 95             | 76              | 95                     |
| 2 1/2                 | 2.875              | 300                              | 2.99                      | 3.74           | 2.99            | 3.74                   |
| 80                    | 88.9               | 20                               | 85                        | 108            | 85              | 108                    |
| 3                     | 3.5                | 300                              | 3.35                      | 4.25           | 3.39            | 4.25                   |
| 100                   | 114.3              | 20                               | 102                       | 127            | 102             | 127                    |
| 4                     | 4.5                | 300                              | 4.02                      | 5.00           | 4.02            | 5.00                   |
| 125                   | 141.3              | 20                               | 121                       | 140            | 121             | 140                    |
| 5                     | 5.563              | 300                              | 4.76                      | 5.51           | 4.76            | 5.51                   |
| 150                   | 168.3              | 20                               | 130                       | 165            | 140             | 165                    |
| 6                     | 6.625              | 300                              | 5.12                      | 6.50           | 5.51            | 6.50                   |
| 200                   | 219.1              | 20                               | 175                       | 197            | 174             | 197                    |
| 8                     | 8.625              | 300                              | 6.89                      | 7.76           | 6.85            | 7.76                   |
| 250                   | 273                | 20                               | 215                       | 229            | 215             | 229                    |
| 10                    | 10.75              | 300                              | 8.46                      | 9.02           | 8.46            | 9.02                   |
| 300                   | 323.9              | 20                               | 220                       | 254            | 245             | 254                    |
| 12                    | 12.75              | 300                              | 8.66                      | 10.00          | 9.65            | 10.00                  |

### Weights:

All weights are approximate and subject to change without notice.

Lede reserves the right to change or modify product designs, specifications and/or standard equipment without notice and without incurring obligation.

### Sales:

Prices and Terms and Conditions of Sale are subject to change without notice.

### Warranty:

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.

# MODEL XGQT014 90° REDUCING ELBOW

The Model XGQT014 is a ductile iron 90° grooved-end elbow with base support, designed for installation at the bottom of a riser system. An anchor can be placed in conjunction with the base to support the weight of the pipe, coupling and fluid.

## SPECIFICATIONS

Sizes available:

32x15mm - 65x25mm | 1 1/4x1/2" ~ 2 1/2x1"

Working Pressure:

Up to 20 bar / 300 psi

Maximum working pressures are CWP (cold water pressure) or maximum allowed working pressure within the service temperature range of the gasket used in the coupling, based on standard wall orsch. 7/10/40 steel pipe, cut or roll-grooved to ANSI/AWWA C606-04 specifications.

These ratings may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ. For performance data on other pipe schedules contact Lede.

**Pipe Coating:**

Red Enamel

**Pipe material:**

Cast of Ductile Iron.



## LEDE GROOVED PIPING SYSTEM

The Lede grooved piping system is one of the most advanced, versatile, economical and reliable systems available today. After the pipe ends are grooved a gasket is stretched over the pipe ends. The coupling segments are then placed over the gasket and the bolts and nuts are fastened resulting in a secure and leak free joint.

## INTERNATIONAL APPROVAL



## SUBMITTAL INFORMATION

|            |                          |              |
|------------|--------------------------|--------------|
| PROJECT:   | CONTRACTOR:              | DATE:        |
| ENGINEER:  | SPECIFICATION REFERENCE: | SYSTEM TYPE: |
| LOCATIONS: | COMMENTS:                |              |

# MODEL XGQT014 90° REDUCING ELBOW

## DATA CHART

Lede couplings are identified by the nominal IPS pipe size in inches or nominal diameter of pipe (DN) in millimeters.



| Nominal Size<br>mm/in | NPT/BSP | Max Working Pressure<br>Bar/PSI | C - E<br>mm/in |
|-----------------------|---------|---------------------------------|----------------|
| 32x15                 | 15      | 20                              | 61             |
| 1 1/4x1/2             | 1/2     | 300                             | 2.40           |
| 32x20                 | 20      | 20                              | 61             |
| 1 1/4x3/4             | 3/4     | 300                             | 2.40           |
| 32x25                 | 25      | 20                              | 61             |
| 1 1/4x1               | 1       | 300                             | 2.40           |
| 40x15                 | 15      | 20                              | 64             |
| 1 1/2x1/2             | 1/2     | 300                             | 2.52           |
| 40x20                 | 20      | 20                              | 64             |
| 1 1/2x3/4             | 3/4     | 300                             | 2.52           |
| 40x25                 | 25      | 20                              | 64             |
| 1 1/2x1               | 1       | 300                             | 2.52           |
| 50x15                 | 15      | 20                              | 70             |
| 2x1/2                 | 1/2     | 300                             | 2.76           |
| 50x20                 | 20      | 20                              | 70             |
| 2x3/4                 | 3/4     | 300                             | 2.76           |
| 50x25                 | 25      | 20                              | 70             |
| 2x1                   | 1       | 300                             | 2.76           |
| 65x15                 | 15      | 20                              | 76             |
| 2 1/2x1/2             | 1/2     | 300                             | 2.99           |
| 65x20                 | 20      | 20                              | 76             |
| 2 1/2x3/4             | 3/4     | 300                             | 2.99           |
| 65x25                 | 25      | 20                              | 76             |
| 2 1/2x1               | 1       | 300                             | 2.99           |

### Weights:

All weights are approximate and subject to change without notice.

Lede reserves the right to change or modify product designs, specifications and/or standard equipment without notice and without incurring obligation.

### Sales:

Prices and Terms and Conditions of Sale are subject to change without notice.

### Warranty:

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.

# MODEL XGQT07 GROOVED CONCENTRIC REDUCER

Lede concentric reducer is cast of ductile iron. The end-to-end dimensions of these reducers are less than that of fabricated reducers.

## SPECIFICATIONS

Sizes available:  
40x32mm - 300x250mm | 1 1/2x1 1/4 ~ 12x10"

Working Pressure:  
Up to 20 bar / 300 psi

Maximum working pressures are CWP (cold water pressure) or maximum allowed working pressure within the service temperature range of the gasket used in the coupling, based on standard wall orsch. 7/10/40 steel pipe, cut or roll-grooved to ANSI/AWWA C606-04 specifications.

These ratings may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ. For performance data on other pipe schedules contact Lede.

**Pipe Coating:**  
Red Enamel

**Pipe material:**  
Cast of Ductile Iron.



## LEDE GROOVED PIPING SYSTEM

The Lede grooved piping system is one of the most advanced, versatile, economical and reliable systems available today. After the pipe ends are grooved a gasket is stretched over the pipe ends. The coupling segments are then placed over the gasket and the bolts and nuts are fastened resulting in a secure and leak free joint.

## INTERNATIONAL APPROVAL



## SUBMITTAL INFORMATION

|            |                          |              |
|------------|--------------------------|--------------|
| PROJECT:   | CONTRACTOR:              | DATE:        |
| ENGINEER:  | SPECIFICATION REFERENCE: | SYSTEM TYPE: |
| LOCATIONS: | COMMENTS:                |              |

# MODEL XGQT07 GROOVED CONCENTRIC REDUCER

## DATA CHART

Lede couplings are identified by the nominal IPS pipe size in inches or nominal diameter of pipe (DN) in millimeters.



| Nominal Size<br>mm/in | Pipe O.D.<br>mm/in | Max. Working<br>Pressure<br>Bar/PSI | E - E<br>mm/in |
|-----------------------|--------------------|-------------------------------------|----------------|
| 40x32                 | 48.3x42.4          | 20                                  | 64             |
| 1 1/2x1 1/4           | 1.9x1.669          | 300                                 | 2.52           |
| 50x32                 | 60.3x42.4          | 20                                  | 64             |
| 2x1 1/4               | 2.375x1.669        | 300                                 | 2.52           |
| 50x40                 | 60.3x48.3          | 20                                  | 64             |
| 2x1 1/2               | 2.375x1.9          | 300                                 | 2.52           |
| 65x32                 | 73x42.4            | 20                                  | 64             |
| 2 1/2x1 1/4           | 2.875x1.669        | 300                                 | 2.52           |
| 65x40                 | 73x48.3            | 20                                  | 64             |
| 2 1/2x1 1/2           | 2.875x1.9          | 300                                 | 2.52           |
| 65x50                 | 73x60.3            | 20                                  | 64             |
| 2 1/2x2               | 2.875x2.375        | 300                                 | 2.52           |
| 80x32                 | 88.9x42.4          | 20                                  | 64             |
| 3x1 1/4               | 3.5x1.669          | 300                                 | 2.52           |
| 80x40                 | 88.9x48.3          | 20                                  | 64             |
| 3x1 1/2               | 3.5x1.9            | 300                                 | 2.52           |
| 80x50                 | 88.9x60.3          | 20                                  | 64             |
| 3x2                   | 3.5x2.375          | 300                                 | 2.52           |
| 80x65                 | 88.9x73            | 20                                  | 64             |
| 3x2 1/2               | 3.5x2.875          | 300                                 | 2.52           |
| 100x32                | 114.3x42.4         | 20                                  | 76             |
| 4x1 1/4               | 4.5x1.669          | 300                                 | 2.99           |
| 100x40                | 114.3x48.3         | 20                                  | 76             |
| 4x1 1/2               | 4.5x1.9            | 300                                 | 2.99           |
| 100x50                | 114.3x60.3         | 20                                  | 76             |
| 4x2                   | 4.5x2.375          | 300                                 | 2.99           |
| 100x65                | 114.3x73           | 20                                  | 76             |
| 4x2 1/2               | 4.5x2.875          | 300                                 | 2.99           |
| 100x80                | 114.3x88.9         | 20                                  | 76             |
| 4x3                   | 4.5x3.5            | 300                                 | 2.99           |
| 125x50                | 141.3x60.3         | 20                                  | 85             |
| 5x2                   | 5.563x2.375        | 300                                 | 3.35           |
| 125x65                | 141.3x73           | 20                                  | 85             |
| 5x2 1/2               | 5.563x2.875        | 300                                 | 3.35           |
| 125x80                | 141.3x88.9         | 20                                  | 85             |
| 5x3                   | 5.563x3.5          | 300                                 | 3.35           |
| 125x100               | 141.3x114.3        | 20                                  | 85             |
| 5x4                   | 5.563x4.5          | 300                                 | 3.35           |
| 150x50                | 168.3x60.3         | 20                                  | 85             |
| 6x2                   | 6.625x2.375        | 300                                 | 3.35           |
| 150x65                | 168.3x73           | 20                                  | 85             |
| 6x2 1/2               | 6.625x2.875        | 300                                 | 3.35           |
| 150x80                | 168.3x88.9         | 20                                  | 85             |
| 6x3                   | 6.625x3.5          | 300                                 | 3.35           |
| 150x100               | 168.3x114.3        | 20                                  | 85             |
| 6x4                   | 6.625x4.5          | 300                                 | 3.35           |
| 150x125               | 168.3x139.7        | 20                                  | 85             |
| 6x5                   | 6.625x5.5          | 300                                 | 3.35           |
| 200x65                | 219.1x76.1         | 20                                  | 85             |
| 8x2 1/2               | 8.63x3             | 300                                 | 3.35           |
| 200x80                | 219.1x88.9         | 20                                  | 85             |
| 8x3                   | 8.625x3.5          | 300                                 | 3.35           |
| 200x100               | 219.1x114.3        | 20                                  | 85             |
| 8x4                   | 8.625x4.5          | 300                                 | 3.35           |
| 200x125               | 219.1x139.7        | 20                                  | 85             |
| 8x5                   | 8.625x5.5          | 300                                 | 3.35           |

| Nominal Size<br>mm/in | Pipe O.D.<br>mm/in | Max. Working<br>Pressure<br>Bar/PSI | E - E<br>mm/in |
|-----------------------|--------------------|-------------------------------------|----------------|
| 200x150               | 219.1x168.3        | 20                                  | 85             |
| 8x6                   | 8.625x6.63         | 300                                 | 3.35           |
| 250x100               | 273x114.3          | 20                                  | 90             |
| 10x4                  | 10.75x4.5          | 300                                 | 3.54           |
| 250x125               | 273x139.7          | 20                                  | 90             |
| 10x5                  | 10.75x5.5          | 300                                 | 3.54           |
| 250x150               | 273x165.1          | 20                                  | 90             |
| 10x6                  | 10.75x6.5          | 300                                 | 3.54           |
| 250x200               | 273x219.1          | 20                                  | 90             |
| 10x8                  | 10.75x8.625        | 300                                 | 3.54           |
| 300x100               | 323.9x114.3        | 20                                  | 90             |
| 12x4                  | 12.75x4.5          | 300                                 | 3.54           |
| 300x125               | 323.9x139.7        | 20                                  | 90             |
| 12x5                  | 12.75x5.5          | 300                                 | 3.54           |
| 300x150               | 323.9x165.1        | 20                                  | 90             |
| 12x6                  | 12.75x6.625        | 300                                 | 3.54           |
| 300x200               | 323.9x219.1        | 20                                  | 90             |
| 12x8                  | 12.75x8.63         | 300                                 | 3.54           |
| 300x250               | 323.9x273          | 20                                  | 90             |
| 12x10                 | 12.75x10.75        | 300                                 | 3.54           |

### Weights:

All weights are approximate and subject to change without notice.

Lede reserves the right to change or modify product designs, specifications and/or standard equipment without notice and without incurring obligation.

### Sales:

Prices and Terms and Conditions of Sale are subject to change without notice.

### Warranty:

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.



# CAPS

MODEL XGQT06 END CAP

MODEL XGQT061 TRANSITION CAP

Lede Model XGQT061 is an ideal transition fitting when a large reduction is required such as 6"x1", 4"x1" etc. The XGQT061 can be used as an alternative to expensive welded nipples.

## SPECIFICATIONS

Sizes available:

XGQT06

25mm - 300mm / 1" ~ 12"

XGQT061

50x25mm - 200x50mm / 2x1" ~ 8x2"

Working Pressure:

Up to 20 bar / 300 psi

Maximum working pressures are CWP (cold water pressure) or maximum allowed working pressure within the service temperature range of the gasket used in the coupling, based on standard wall orsch. 7/10/40 steel pipe, cut or roll-grooved to ANSI/AWWA C606-04 specifications.

These ratings may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ. For performance data on other pipe schedules contact Lede.

**Coating:**

Red Enamel

**Material:**

Cast of Ductile Iron.



MODEL XGQT06 END CAP



MODEL XGQT061 TRANSITION CAP

## INTERNATIONAL APPROVAL



## SUBMITTAL INFORMATION

|            |                          |              |
|------------|--------------------------|--------------|
| PROJECT:   | CONTRACTOR:              | DATE:        |
| ENGINEER:  | SPECIFICATION REFERENCE: | SYSTEM TYPE: |
| LOCATIONS: | COMMENTS:                |              |

# CAPS

## MODEL XGQT06 END CAP

## MODEL XGQT061 TRANSITION CAP

### DATA CHART



END CAP



TRANSITION CAP



| Nominal Size<br>mm/in | Pipe<br>O.D.<br>mm/in | Max.<br>Working Pressure<br>Bar/PSI | E - E<br>mm/in |
|-----------------------|-----------------------|-------------------------------------|----------------|
| 25                    | 33.7                  | 20                                  | 23.8           |
| 1                     | 1.327                 | 300                                 | 0.94           |
| 32                    | 42.4                  | 20                                  | 23.8           |
| 1 1/4                 | 1.669                 | 300                                 | 0.94           |
| 40                    | 48.3                  | 20                                  | 23.8           |
| 1 1/2                 | 1.9                   | 300                                 | 0.94           |
| 50                    | 60.3                  | 20                                  | 23.8           |
| 2                     | 2.375                 | 300                                 | 0.94           |
| 65                    | 76.1                  | 20                                  | 23.8           |
| 2 1/2                 | 3                     | 300                                 | 0.94           |
| 80                    | 88.9                  | 20                                  | 23.8           |
| 3                     | 3.5                   | 300                                 | 0.94           |
| 100                   | 114.3                 | 20                                  | 25.4           |
| 4                     | 4.5                   | 300                                 | 1.00           |
| 125                   | 141.3                 | 20                                  | 25.4           |
| 5                     | 5.563                 | 300                                 | 1.00           |
| 150                   | 168.3                 | 20                                  | 25.4           |
| 6                     | 6.625                 | 300                                 | 1.00           |
| 200                   | 219.1                 | 20                                  | 30.2           |
| 8                     | 8.625                 | 300                                 | 1.19           |
| 250                   | 273                   | 20                                  | 32             |
| 10                    | 10.75                 | 300                                 | 1.26           |
| 300                   | 323.9                 | 20                                  | 32             |
| 12                    | 12.75                 | 300                                 | 1.26           |

| Nominal Size<br>Grooved X<br>Threaded<br>mm/in | Pipe<br>O.D.<br>mm/in | Max.<br>Working Pressure<br>Bar/PSI | E - E<br>mm/in |
|--|-----------------------|-------------------------------------|----------------|
| 50x25  | 60.3x33.7             | 20                                  | 23.8           |
| 2x1  | 2.375x1.327           | 300                                 | 0.94           |
| 50x32  | 60.3x42.4             | 20                                  | 23.8           |
| 2x1 1/4  | 2.375x1.669           | 300                                 | 0.94           |
| 50x40  | 60.3x48.3             | 20                                  | 23.8           |
| 2x1 1/2  | 2.375x1.9             | 300                                 | 0.94           |
| 65x25  | 73x33.7               | 20                                  | 23.8           |
| 2 1/2x1  | 2.875x1.327           | 300                                 | 0.94           |
| 65x32  | 73x42.4               | 20                                  | 23.8           |
| 2 1/2x1 1/4                                    | 2.875x1.669           | 300                                 | 0.94           |
| 65x40  | 73x48.3               | 20                                  | 23.8           |
| 2 1/2x1 1/2                                    | 2.875x1.9             | 300                                 | 0.94           |
| 65x50  | 73.0x60.3             | 20                                  | 23.8           |
| 2 1/2x2  | 2.875x2.375           | 300                                 | 0.94           |
| 80x25  | 88.9x33.7             | 20                                  | 23.8           |
| 3x1  | 3.5x1.327             | 300                                 | 0.94           |
| 80x32  | 88.9x42.4             | 20                                  | 23.8           |
| 3x1 1/4  | 3.5x1.669             | 300                                 | 0.94           |
| 80x40  | 88.9x48.3             | 20                                  | 23.8           |
| 3x1 1/2  | 3.5x1.9               | 300                                 | 0.94           |
| 80x50  | 88.9x60.3             | 20                                  | 23.8           |
| 3x2  | 3.5x2.375             | 300                                 | 0.94           |
| 100x25   | 114.3x33.7            | 20                                  | 25.4           |
| 4x1  | 4.5x1.327             | 300                                 | 1.00           |
| 100x32   | 114.3x42.4            | 20                                  | 25.4           |
| 4x1 1/2  | 4.5x1.669             | 300                                 | 1.00           |
| 100x40   | 114.3x48.3            | 20                                  | 25.4           |
| 4x1 1/2  | 4.5x1.9               | 300                                 | 1.00           |
| 100x50   | 114.3x60.3            | 20                                  | 25.4           |
| 4x2  | 4.5x2.375             | 300                                 | 1.00           |
| 125x50   | 141.3x60.3            | 20                                  | 25.4           |
| 5x2  | 5.563x2.375           | 300                                 | 1.00           |
| 150x25   | 165.1x33.7            | 20                                  | 25.4           |
| 6x1  | 6.5x1.327             | 300                                 | 1.00           |
| 150x32   | 168.3x42.4            | 20                                  | 25.4           |
| 6x1 1/4  | 6.625x1.669           | 300                                 | 1.00           |
| 150x40   | 168.3x48.3            | 20                                  | 25.4           |
| 6x1 1/2  | 6.63x1.9              | 300                                 | 1.00           |
| 150x50   | 168.3x60.3            | 20                                  | 25.4           |
| 6x2  | 6.63x2.375            | 300                                 | 1.00           |
| 200x50   | 219.1x60.3            | 20                                  | 30.2           |
| 8x2  | 8.625x2.375           | 300                                 | 1.19           |

#### Weights:

All weights are approximate and subject to change without notice.

Lede reserves the right to change or modify product designs, specifications and/or standard equipment without notice and without incurring obligation.

#### Sales:

Prices and Terms and Conditions of Sale are subject to change without notice.

#### Warranty:

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.

# MODEL L922

## Small Mechanical Tee

The Model L922 Small Mechanical Tee is the ideal outlet fitting for direct connections to sprinkler heads, drop nipples and or gauges. No need for welding, just cut or drill a hole at the desired outlet location. Position the Small Mechanical Tee so that the locating collar fits within the hole, then tighten the upper and lower housings with bolts and nuts.

### SPECIFICATIONS

Sizes available:

25x15mm - 65x25mm / 1x1/2" ~ 2 1/2x1"

Working Pressure:

Up to 20 bar / 300 psi

Maximum working pressures are CWP (cold water pressure) or maximum allowed working pressure within the service temperature range of the gasket used in the coupling, based on standard wall orsch. 7/10/40 steel pipe, cut or roll-grooved to ANSI/AWWA C606-04 specifications.

These ratings may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ. For performance data on other pipe schedules contact Lede.

**Housing Coating:**

Red Enamel

**Housing material:**

Ductile Iron conforming to ASTM A536 Gr. 65-45-12.

**Gasket material:**

EPDM (Silicon free) These gaskets have excellent self sealing capabilities and are designed to provide a leak tight seal.



**Caution:** Piping practices require that main and branch connections are at a true 90° angle. Also be certain that the locating collar is securely positioned inside the outlet hole before tightening the housing. When mechanical tees or mechanical crosses are used as transition pieces between two runs, the tees or crosses shall be assembled prior to making the branch connections.

### INTERNATIONAL APPROVAL



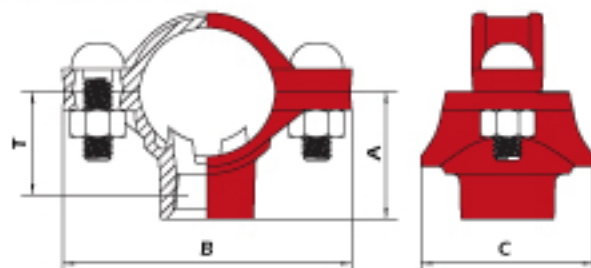
### SUBMITTAL INFORMATION

|            |                          |              |
|------------|--------------------------|--------------|
| PROJECT:   | CONTRACTOR:              | DATE:        |
| ENGINEER:  | SPECIFICATION REFERENCE: | SYSTEM TYPE: |
| LOCATIONS: | COMMENTS:                |              |

# MODEL L922

## Small Mechanical Tee

### DATA CHART



| Nominal Size<br>mm/in | Hole Dia. $\Phi$<br>+1,-0 / +0.04,-0 | Dimensions - mm/in |       |      | Take-Out<br>T/D<br>mm/in | Bolt Size<br>in | Bolt Torque<br>N-M/Lb-Ft |
|-----------------------|--------------------------------------|--------------------|-------|------|--------------------------|-----------------|--------------------------|
|                       |                                      | A                  | B     | C    |                          |                 |                          |
| 25x15                 | 24                                   | 28                 | 93    | 48   | 29                       | 3/8D            | 30-40                    |
| 1x1/2                 | 0.95                                 | 1.30               | 3.66  | 1.89 | 1.14                     | U-Bolt          | 22-29                    |
| 32x15                 | 30.00                                | 45                 | 98    | 65   | 33                       | 3/8D            | 30-40                    |
| 1 1/4x1/2             | 1.18                                 | 1.77               | 3.86  | 2.56 | 1.30                     | U-Bolt          | 22-29                    |
| 32x20                 | 30.00                                | 45                 | 98    | 65   | 32.5                     | 3/8D            | 30-40                    |
| 1 1/4x3/4             | 1.18                                 | 1.77               | 3.86  | 2.56 | 1.28                     | U-Bolt          | 22-29                    |
| 32x25                 | 30.00                                | 54                 | 98    | 65   | 38.6                     | 3/8D            | 30-40                    |
| 1 1/4x1               | 1.18                                 | 2.33               | 3.86  | 2.56 | 1.52                     | U-Bolt          | 22-29                    |
| 40x15                 | 30.00                                | 48                 | 105.6 | 65   | 36.1                     | 3/8D            | 30-40                    |
| 1 1/2x1/2             | 1.18                                 | 1.89               | 4.16  | 2.56 | 1.42                     | U-Bolt          | 22-29                    |
| 40x20                 | 30.00                                | 48                 | 105.6 | 65   | 35.6                     | 3/8D            | 30-40                    |
| 1 1/2x3/4             | 1.18                                 | 1.89               | 4.16  | 2.56 | 1.40                     | U-Bolt          | 22-29                    |
| 40x25                 | 30.00                                | 57                 | 105.6 | 65   | 41.7                     | 3/8D            | 30-40                    |
| 1 1/2x1               | 1.18                                 | 2.24               | 4.16  | 2.56 | 1.64                     | U-Bolt          | 22-29                    |
| 50x15                 | 30.00                                | 54                 | 125   | 65   | 42.2                     | 3/8D            | 30-40                    |
| 2x1/2                 | 1.18                                 | 2.33               | 4.92  | 2.56 | 1.66                     | U-Bolt          | 22-29                    |
| 50x20                 | 30.00                                | 54                 | 125   | 65   | 41.7                     | 3/8D            | 30-40                    |
| 2x3/4                 | 1.18                                 | 2.33               | 4.92  | 2.56 | 1.64                     | U-Bolt          | 22-29                    |
| 50x25                 | 30.00                                | 62                 | 125   | 65   | 47.8                     | 3/8D            | 30-40                    |
| 2x1                   | 1.18                                 | 2.44               | 4.92  | 2.56 | 1.88                     | U-Bolt          | 22-29                    |
| 65x15                 | 30.00                                | 61                 | 139   | 65   | 48.5                     | 3/8D            | 30-40                    |
| 2 1/2x1/2             | 1.18                                 | 2.40               | 5.47  | 2.56 | 1.91                     | U-Bolt          | 22-29                    |
| 65x20                 | 30.00                                | 61                 | 139   | 65   | 48                       | 3/8D            | 30-40                    |
| 2 1/2x3/4             | 1.18                                 | 2.40               | 5.47  | 2.56 | 1.89                     | U-Bolt          | 22-29                    |
| 65x25                 | 30.00                                | 71                 | 139   | 65   | 54.1                     | 3/8D            | 30-40                    |
| 2 1/2x1               | 1.18                                 | 2.80               | 5.47  | 2.56 | 2.13                     | U-Bolt          | 22-29                    |

The Lede hole-cut mechanical tee provides a fast and easy mid-point branch outlet without welding. First a hole is cut or drilled at the desired outlet location. The mechanical tee is then positioned so that the built-in locating collar fits within the hole. As the housing bolts are tightened the pressure moulded gasket forms a leak-tight seal. Use of the Lede mechanical tee can eliminate the need for multiple couplings and fittings.



### INSTALLATION



1. Drill a hole on the pipe according to the hole sizes requirements, ensure all the burrs are removed, and no deep pits or swells are found within 20mm around the hole.



2. Put the gasket into the upper housing, and make sure it is suitable for the intended service.

# MODEL L922

## Small Mechanical Tee



3. Put the upper parts above the pipe hole, then put the location collar fit into the hole, ensure the gasket to cover the hole evenly.



4. Place the lower housing opposite to the pipe, align the upper housing and lower housing, then insert the bolts.



5. Tighten the nuts evenly until the upper housing touches the pipe well, the torque of the nuts should be in accordance with the requirements of LEDE company.



6. After installation, check it carefully to make sure the gap between upper part and lower part is equal and tiny.

When mechanical cross is installed, make sure the deflection of the upper housing and lower housing cannot beyond 1.0mm, and the both location collar are in the center of the hole, when nuts tightened, the torque must be in accordance with the LEDE requirements.

### Weights:

All weights are approximate and subject to change without notice.

Lede reserves the right to change or modify product designs, specifications and/or standard equipment without notice and without incurring obligation.

### Sales:

Prices and Terms and Conditions of Sale are subject to change without notice.

### Warranty:

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.

# MODEL XGQT04

## Mechanical Tee Threaded

The Model XGQT04 Mechanical Tee provides a fast and easy mid-pipe threaded branch outlet. The XGQT04 eliminates the need for welding or multiple fittings. The mechanical tee utilizes ductile iron housings, a grade E moulded gasket and heat-treated carbon steel track bolts and nuts.

### SPECIFICATIONS

Sizes available:

50x15mm - 200x100mm / 2x1/2" ~ 8x4"

Working Pressure:

Up to 20 bar / 300 psi

Maximum working pressures are CWP (cold water pressure) or maximum allowed working pressure within the service temperature range of the gasket used in the coupling, based on standard wall orsch. 7/10/40 steel pipe, cut or roll-grooved to ANSI/AWWA C606-04 specifications.

These ratings may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ. For performance data on other pipe schedules contact Lede.

**Housing Coating:**

Red Enamel

**Housing material:**

Ductile Iron conforming to ASTM A536 Gr. 65-45-12.

**Gasket material:**

EPDM (Silicon free) These gaskets have excellent self sealing capabilities and are designed to provide a leak tight seal.



**Caution:** Piping practices require that main and branch connections are at a true 90° angle. Also be certain that the locating collar is securely positioned inside the outlet hole before tightening the housing. When mechanical tees or mechanical crosses are used as transition pieces between two runs, the tees or crosses shall be assembled prior to making the branch connections.

### INTERNATIONAL APPROVAL



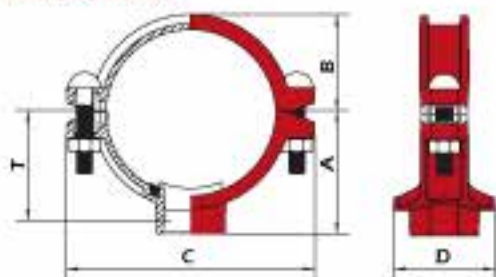
### SUBMITTAL INFORMATION

|            |                          |              |
|------------|--------------------------|--------------|
| PROJECT:   | CONTRACTOR:              | DATE:        |
| ENGINEER:  | SPECIFICATION REFERENCE: | SYSTEM TYPE: |
| LOCATIONS: | COMMENTS:                |              |

# MODEL XGQT04

## Mechanical Tee Threaded

### DATA CHART



| Nominal Size<br>mm/in | Pipe<br>O.D. | Hole Dia. $\pm$<br>$+3.2, -0$<br>$+0.13, -0$ | Dimensions - mm/in |       |      |      |      | Bolt Size<br>mm/in |
|-----------------------|--------------|--|--------------------|-------|------|------|------|--------------------|
|                       |              |  | T $\pm$            | A     | B    | C    | D    |                    |
| 50x15                 | 60.3x21.3    | 38   | 50                 | 56    | 42   | 120  | 76   | M10x60             |
| 2x1/2                 | 2.375x0.825  | 1.50   | 1.97               | 2.20  | 1.65 | 4.72 | 2.99 | 3/8x2-3/8          |
| 50x20                 | 60.3x26.7    | 38   | 50                 | 56    | 42   | 120  | 76   | M10x60             |
| 2x1/4                 | 2.375x1.05   | 1.50   | 1.97               | 2.20  | 1.65 | 4.72 | 2.99 | 3/8x2-3/8          |
| 50x25                 | 60.3x31.7    | 38   | 47                 | 56    | 42   | 120  | 76   | M10x60             |
| 2x1                   | 2.375x1.327  | 1.50   | 1.85               | 2.20  | 1.65 | 4.72 | 2.99 | 3/8x2-3/8          |
| 50x32                 | 60.3x42.4    | 44.5   | 52                 | 60    | 42   | 120  | 84   | M10x60             |
| 2x1 1/4               | 2.375x1.669  | 1.75   | 2.05               | 2.68  | 1.65 | 4.72 | 3.31 | 3/8x2-3/8          |
| 50x40                 | 60.3x48.3    | 44.5   | 52                 | 71    | 42   | 120  | 84   | M10x60             |
| 2x1 1/2               | 2.375x1.9    | 1.75   | 2.05               | 2.80  | 1.65 | 4.72 | 3.31 | 3/8x2-3/8          |
| 65x15                 | 76.1x21.3    | 38   | 56                 | 63.5  | 48   | 143  | 76   | M12x65             |
| 2 1/2x1/2             | 3x0.825      | 1.50   | 2.30               | 2.42  | 1.89 | 5.63 | 2.99 | 1/2x2-5/8          |
| 65x20                 | 76.1x26.7    | 38   | 56                 | 63.5  | 48   | 143  | 76   | M12x65             |
| 2 1/2x3/4             | 3x1.05       | 1.50   | 2.20               | 2.42  | 1.89 | 5.63 | 2.99 | 1/2x2-5/8          |
| 65x25                 | 76.1x31.7    | 38   | 52                 | 63.5  | 48   | 143  | 76   | M12x65             |
| 2 1/2x1               | 3x1.327      | 1.50   | 2.09               | 2.42  | 1.89 | 5.63 | 2.99 | 1/2x2-5/8          |
| 65x32                 | 76.1x42.4    | 44.5   | 58                 | 73.5  | 48   | 143  | 84   | M12x65             |
| 2 1/2x1 1/4           | 3x1.669      | 1.75   | 2.28               | 2.89  | 1.89 | 5.63 | 3.31 | 1/2x2-5/8          |
| 65x40                 | 76.1x48.3    | 50.8   | 58                 | 75    | 48   | 143  | 90   | M12x65             |
| 2 1/2x1 1/2           | 3x1.9        | 2.00   | 2.28               | 2.95  | 1.89 | 5.63 | 3.54 | 1/2x2-5/8          |
| 80x15                 | 88.9x21.3    | 38   | 64                 | 69.5  | 55   | 158  | 76   | M12x85             |
| 3x1/2                 | 3.5x0.825    | 1.50   | 2.52               | 2.74  | 2.17 | 6.22 | 2.99 | 1/2x2-5/8          |
| 80x20                 | 88.9x26.7    | 38   | 62                 | 69.5  | 55   | 158  | 76   | M12x65             |
| 3x3/4                 | 3.5x1.05     | 1.50   | 2.48               | 2.74  | 2.17 | 6.22 | 2.99 | 1/2x2-5/8          |
| 80x25                 | 88.9x31.7    | 38   | 61                 | 69.5  | 55   | 158  | 76   | M12x65             |
| 3x1                   | 3.5x1.327    | 1.50   | 2.40               | 2.74  | 2.17 | 6.22 | 2.99 | 1/2x2-5/8          |
| 80x32                 | 88.9x42.4    | 44.5   | 65                 | 81    | 55   | 158  | 84   | M12x65             |
| 3x1 1/4               | 3.5x1.669    | 1.75   | 2.56               | 3.19  | 2.17 | 6.22 | 3.31 | 1/2x2-5/8          |
| 80x40                 | 88.9x48.3    | 50.8   | 71                 | 81    | 55   | 158  | 90   | M12x65             |
| 3x1 1/2               | 3.5x1.9      | 2.00   | 2.60               | 3.19  | 2.17 | 6.22 | 3.54 | 1/2x2-5/8          |
| 80x50                 | 88.9x60.3    | 63.5   | 70                 | 81    | 55   | 158  | 101  | M12x70             |
| 3x2                   | 3.5x2.375    | 2.50   | 2.76               | 3.19  | 2.17 | 6.22 | 3.98 | 1/2x2-5/8          |
| 100x15                | 114.3x21.3   | 38   | 77                 | 79    | 65   | 181  | 76   | M12x70             |
| 4x1/2                 | 4.5x0.825    | 1.50   | 3.03               | 3.11  | 2.56 | 7.13 | 2.99 | 1/2x2-3/4          |
| 100x20                | 114.3x26.7   | 38   | 76                 | 79    | 65   | 181  | 76   | M12x70             |
| 4x3/4                 | 4.5x1.05     | 1.50   | 2.99               | 3.11  | 2.56 | 7.13 | 2.99 | 1/2x2-3/4          |
| 100x25                | 114.3x31.7   | 38   | 73                 | 82    | 65   | 181  | 76   | M12x70             |
| 4x1                   | 4.5x1.327    | 1.50   | 2.87               | 3.23  | 2.56 | 7.13 | 2.99 | 1/2x2-3/4          |
| 100x32                | 114.3x42.4   | 44.5   | 78                 | 94    | 65   | 181  | 84   | M12x70             |
| 4x1 1/4               | 4.5x1.669    | 1.75   | 3.07               | 3.70  | 2.56 | 7.13 | 3.31 | 1/2x2-3/4          |
| 100x40                | 114.3x48.3   | 50.8   | 83                 | 94    | 65   | 181  | 90   | M12x70             |
| 4x1 1/2               | 4.5x1.9      | 2.00   | 3.27               | 3.70  | 2.56 | 7.13 | 3.54 | 1/2x2-3/4          |
| 100x50                | 114.3x60.3   | 63.5   | 83                 | 94    | 65   | 181  | 101  | M12x70             |
| 4x2                   | 4.5x2.375    | 2.50   | 3.27               | 3.70  | 2.56 | 7.13 | 3.98 | 1/2x2-3/4          |
| 100x65                | 114.3x76.1   | 70   | 73                 | 99    | 65   | 181  | 117  | M12x70             |
| 4x2 1/2               | 4.5x3        | 2.76   | 2.87               | 3.90  | 2.56 | 7.13 | 4.61 | 1/2x2-3/4          |
| 100x80                | 114.3x88.9   | 89   | 84                 | 100   | 65   | 181  | 136  | M12x70             |
| 4x3                   | 4.5x3.5      | 3.50   | 3.31               | 3.94  | 2.56 | 7.13 | 5.35 | 1/2x2-3/4          |
| 125x25                | 141.3x31.7   | 38   | 77                 | 96.5  | 77   | 219  | 76   | M16x85             |
| 5x1                   | 5.563x1.327  | 1.50   | 3.85               | 3.80  | 3.03 | 8.62 | 2.99 | 5/8x3-1/2          |
| 125x32                | 141.3x42.4   | 44.5   | 77                 | 107   | 77   | 219  | 84   | M16x85             |
| 5x1 1/4               | 5.563x1.669  | 1.75   | 3.03               | 4.21  | 3.03 | 8.62 | 3.31 | 5/8x3-1/2          |
| 125x40                | 141.3x48.3   | 50.8   | 83                 | 107   | 77   | 219  | 90   | M16x85             |
| 5x1 1/2               | 5.563x1.9    | 2.00   | 3.27               | 4.21  | 3.03 | 8.62 | 3.54 | 5/8x3-1/2          |
| 125x50                | 141.3x60.3   | 63.5   | 83                 | 106   | 77   | 219  | 101  | M16x85             |
| 5x2                   | 5.563x2.375  | 2.50   | 3.27               | 4.25  | 3.03 | 8.62 | 3.98 | 5/8x3-1/2          |
| 125x65                | 141.3x76.1   | 70   | 93                 | 115   | 77   | 219  | 117  | M16x85             |
| 5x2 1/2               | 5.563x3      | 2.76   | 3.66               | 4.53  | 3.03 | 8.62 | 4.61 | 5/8x3-1/2          |
| 125x80                | 141.3x88.9   | 89   | 97                 | 118   | 77   | 219  | 136  | M16x85             |
| 5x3                   | 5.563x3.5    | 3.50   | 3.82               | 4.66  | 3.03 | 8.62 | 5.35 | 5/8x3-1/2          |
| 150x25                | 168.3x31.7   | 38   | 112                | 108.5 | 97   | 248  | 76   | M16x85             |
| 6x1                   | 6.625x1.327  | 1.50   | 4.41               | 4.27  | 3.82 | 9.76 | 2.99 | 3/4x3-1/2          |
| 150x32                | 168.3x42.4   | 44.5   | 112                | 120   | 97   | 248  | 84   | M16x85             |
| 6x1 1/4               | 6.625x1.669  | 1.75   | 4.41               | 4.72  | 3.82 | 9.76 | 3.31 | 3/4x3-1/2          |

# MODEL XGQT04

## Mechanical Tee Threaded

| Nominal Size<br>mm/in | Pipe<br>O.D. | Hole Dia. T<br>+3.2,-0<br>/+0.13,-0 | Dimensions - mm/in |       |      |       |      | Bolt Size<br>mm/in |
|-----------------------|--------------|-------------------------------------|--------------------|-------|------|-------|------|--------------------|
|                       |              |                                     | T±                 | A     | B    | C     | D    |                    |
| 150x40                | 168.3x48.3   | 50.8                                | 112                | 120   | 97   | 248   | 90   | M16x85             |
| 6x1 1/2               | 6.625x1.9    | 2.00                                | 4.41               | 4.72  | 3.82 | 9.76  | 3.54 | 5/8x3-1/3          |
| 150x50                | 168.3x60.3   | 63.5                                | 111                | 121   | 97   | 248   | 101  | M16x85             |
| 6x2                   | 6.625x2.375  | 2.50                                | 4.37               | 4.76  | 3.82 | 9.76  | 3.98 | 5/8x3-1/3          |
| 150x65                | 168.3x76.1   | 70                                  | 110                | 128   | 97   | 248   | 117  | M16x85             |
| 6x2 1/2               | 6.625x3      | 2.76                                | 4.33               | 5.04  | 3.82 | 9.76  | 4.61 | 5/8x3-1/3          |
| 150x80                | 168.3x88.9   | 89                                  | 110                | 131   | 97   | 248   | 136  | M16x85             |
| 6x3                   | 6.625x3.5    | 3.50                                | 4.35               | 5.16  | 3.82 | 9.76  | 5.35 | 5/8x3-1/3          |
| 150x100               | 168.3x114.3  | 114                                 | 97                 | 139.5 | 97   | 248   | 162  | M16x85             |
| 6x4                   | 6.625x4.5    | 4.49                                | 3.82               | 5.49  | 3.82 | 9.76  | 6.38 | 5/8x3-1/3          |
| 200x25                | 219.1x33.7   | 38                                  | 152                | 136   | 125  | 322   | 76   | M20x90             |
| 8x1                   | 8.625x1.327  | 1.50                                | 5.98               | 5.35  | 1.92 | 12.68 | 2.99 | 5/8x3-1/2          |
| 200x32                | 219.1x42.4   | 44.5                                | 152                | 147   | 125  | 322   | 84   | M20x90             |
| 8x1 1/4               | 8.625x1.609  | 1.75                                | 5.98               | 5.79  | 1.92 | 12.68 | 3.31 | 5/8x3-1/2          |
| 200x40                | 219.1x48.3   | 50.8                                | 152                | 147   | 125  | 322   | 90   | M20x90             |
| 8x1 1/2               | 8.625x1.9    | 2.00                                | 5.98               | 5.79  | 1.92 | 12.68 | 3.54 | 5/8x3-1/2          |
| 200x50                | 219.1x60.3   | 63.5                                | 138                | 147   | 125  | 322   | 101  | M20x90             |
| 8x2                   | 8.625x2.375  | 2.50                                | 5.45               | 5.79  | 1.92 | 12.68 | 3.98 | 5/8x3-1/2          |
| 200x65                | 219.1x76.1   | 70                                  | 129                | 156   | 125  | 322   | 117  | M20x90             |
| 8x2 1/2               | 8.625x3      | 2.76                                | 5.08               | 6.14  | 1.92 | 12.68 | 4.61 | 5/8x3-1/2          |
| 200x80                | 219.1x88.9   | 89                                  | 135                | 158.5 | 125  | 322   | 136  | M20x90             |
| 8x3                   | 8.625x3.5    | 3.50                                | 5.31               | 6.24  | 1.92 | 12.68 | 5.35 | 5/8x3-1/2          |
| 200x100               | 219.1x114.3  | 114                                 | 122                | 167   | 125  | 322   | 162  | M20x90             |
| 8x4                   | 8.625x4.5    | 4.49                                | 4.80               | 6.57  | 1.92 | 12.68 | 6.38 | 5/8x3-1/2          |

The Lede hole-cut mechanical tee provides a fast and easy mid-point branch outlet without welding. First a hole is cut or drilled at the desired outlet location. The mechanical tee is then positioned so that the built-in locating collar fits within the hole. As the housing bolts are tightened the pressure moulded gasket forms a leak-tight seal. Use of the Lede mechanical tee can eliminate the need for multiple couplings and fittings.



### INSTALLATION



1. Drill a hole on the pipe according to the hole sizes requirements, ensure all the burrs are removed, and no deep pits or swells are found within 20mm around the hole.



2. Put the gasket into the upper housing, and make sure it is suitable for the intended service.



3. Put the upper parts above the pipe hole, then put the location collar fit into the hole, ensure the gasket to cover the hole evenly.



4. Place the lower housing opposite to the pipe, align the upper housing and lower housing, then insert the bolts.



5. Tighten the nuts evenly until the upper housing touches the pipe well, the torque of the nuts should be in accordance with the requirements of LEDE company.



6. After installation, check it carefully to make sure the gap between upper part and lower part is equal and tiny.



# MODEL XGQT04

## Mechanical Tee Threaded

When mechanical cross is installed, make sure the deflection of the upper housing and lower housing cannot beyond 1.0mm, and the both location collar are in the center of the hole, when nuts tightened, the torque must be in accordance with the LEDE requirements.

**Weights:**

All weights are approximate and subject to change without notice.

Lede reserves the right to change or modify product designs, specifications and/or standard equipment without notice and without incurring obligation.

**Sales:**

Prices and Terms and Conditions of Sale are subject to change without notice.

**Warranty:**

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.

# MODEL XGQT04G

## Mechanical Tee Grooved

The Model XGQT04G Mechanical Tee provides a fast and easy mid-pipe grooved branch outlet. The mechanical tee utilizes ductile iron housings, a grade E gasket and heat-treated carbon steel track bolts and nuts.

### SPECIFICATIONS

Sizes available:

50x25mm - 200x100mm / 2x1" ~ 8x4"

Working Pressure:

Up to 20 bar / 300 psi

Maximum working pressures are CWP (cold water pressure) or maximum allowed working pressure within the service temperature range of the gasket used in the coupling, based on standard wall orsch. 7/10/40 steel pipe, cut or roll-grooved to ANSI/AWWA C606-04 specifications.

These ratings may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ. For performance data on other pipe schedules contact Lede.

**Housing Coating:**

Red Enamel

**Housing material:**

Ductile Iron conforming to ASTM A536 Gr. 65-45-12.

**Gasket material:**

EPDM (Silicon free) These gaskets have excellent self sealing capabilities and are designed to provide a leak tight seal.



**Caution:** Piping practices require that main and branch connections are at a true 90° angle. Also be certain that the locating collar is securely positioned inside the outlet hole before tightening the housing. When mechanical tees or mechanical crosses are used as transition pieces between two runs, the tees or crosses shall be assembled prior to making the branch connections.

### INTERNATIONAL APPROVAL



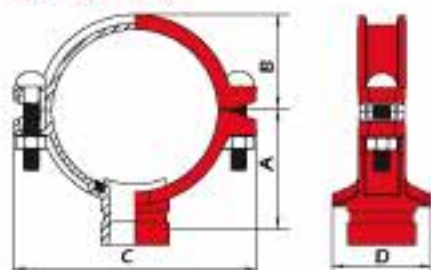
### SUBMITTAL INFORMATION

|            |                          |              |
|------------|--------------------------|--------------|
| PROJECT:   | CONTRACTOR:              | DATE:        |
| ENGINEER:  | SPECIFICATION REFERENCE: | SYSTEM TYPE: |
| LOCATIONS: | COMMENTS:                |              |

# MODEL XGOT04G

## Mechanical Tee Grooved

### DATA CHART



| Nominal Size<br>mm/in | Pipe O.D.   | Hole Dia. $\begin{matrix} \text{F} \\ +3.2, -0 \\ /+0.13, -0 \end{matrix}$ | Dimensions - mm/in |      |       |      | Bolt Size<br>mm/in |
|-----------------------|-------------|--|--------------------|------|-------|------|--------------------|
|                       |             |  | A                  | B    | C     | D    |                    |
| 50x25                 | 60.3x33.7   | 38   | 72                 | 42   | 120   | 76   | M10x60             |
| 2x1                   | 2.375x1.327 | 1.50   | 2.83               | 1.65 | 4.72  | 2.99 | 3/8x2-3/8          |
| 50x32                 | 60.3x42.4   | 44.5   | 72.5               | 42   | 120   | 84   | M10x60             |
| 2x1 1/4               | 2.375x1.669 | 1.75   | 2.85               | 1.65 | 4.72  | 3.31 | 3/8x2-3/8          |
| 50x40                 | 60.3x48.3   | 44.5   | 72.5               | 42   | 120   | 84   | M10x60             |
| 2x1 1/2               | 2.375x1.9   | 1.75   | 2.85               | 1.65 | 4.72  | 3.31 | 3/8x2-3/8          |
| 65x25                 | 76.1x33.7   | 38   | 79.5               | 48   | 143   | 76   | M12x65             |
| 2 1/2x1               | 3x1.327     | 1.50   | 3.13               | 1.89 | 5.68  | 2.99 | 1/2x2-5/8          |
| 65x32                 | 76.1x42.4   | 44.5   | 80                 | 48   | 143   | 84   | M12x65             |
| 2 1/2x1 1/4           | 3x1.669     | 1.75   | 3.15               | 1.89 | 5.68  | 3.31 | 1/2x2-5/8          |
| 65x40                 | 76.1x48.3   | 50.8   | 80                 | 48   | 143   | 90   | M12x65             |
| 2 1/2x1 1/2           | 3x1.9       | 2.00   | 3.15               | 1.89 | 5.68  | 3.54 | 1/2x2-5/8          |
| 80x25                 | 88.9x33.7   | 38   | 85.5               | 55   | 158   | 76   | M12x65             |
| 3x1                   | 3.5x1.327   | 1.50   | 3.37               | 2.17 | 6.22  | 2.99 | 1/2x2-5/8          |
| 80x32                 | 88.9x42.4   | 44.5   | 86                 | 55   | 158   | 84   | M12x65             |
| 3x1 1/4               | 3.5x1.669   | 1.75   | 3.39               | 2.17 | 6.22  | 3.31 | 1/2x2-5/8          |
| 80x40                 | 88.9x48.3   | 50.8   | 86                 | 55   | 158   | 90   | M12x65             |
| 3x1 1/2               | 3.5x1.9     | 2.00   | 3.39               | 2.17 | 6.22  | 3.54 | 1/2x2-5/8          |
| 80x50                 | 88.9x60.3   | 63.5   | 87                 | 55   | 158   | 101  | M12x65             |
| 3x2                   | 3.5x2.375   | 2.50   | 3.43               | 2.17 | 6.22  | 3.98 | 1/2x2-5/8          |
| 100x25                | 114.3x33.7  | 38   | 90                 | 65   | 181   | 76   | M12x70             |
| 4x1                   | 4.5x1.327   | 1.50   | 3.80               | 2.56 | 7.13  | 2.99 | 1/2x2-3/4          |
| 100x32                | 114.3x42.4  | 44.5   | 90                 | 65   | 181   | 84   | M12x70             |
| 4x1 1/4               | 4.5x1.669   | 1.75   | 3.90               | 2.56 | 7.13  | 3.31 | 1/2x2-3/4          |
| 100x40                | 114.3x48.3  | 50.8   | 90                 | 65   | 181   | 90   | M12x70             |
| 4x1 1/2               | 4.5x1.9     | 2.00   | 3.90               | 2.56 | 7.13  | 3.54 | 1/2x2-3/4          |
| 100x50                | 114.3x60.3  | 63.5   | 90                 | 65   | 181   | 101  | M12x70             |
| 4x2                   | 4.5x2.375   | 2.50   | 3.90               | 2.56 | 7.13  | 3.98 | 1/2x2-3/4          |
| 100x65                | 114.3x76.1  | 70   | 90                 | 65   | 181   | 117  | M12x70             |
| 4x2 1/2               | 4.5x3       | 2.76   | 3.90               | 2.56 | 7.13  | 4.61 | 1/2x2-3/4          |
| 100x80                | 114.3x88.9  | 89   | 90                 | 65   | 181   | 136  | M12x70             |
| 4x3                   | 4.5x3.5     | 3.50   | 3.90               | 2.56 | 7.13  | 5.35 | 1/2x2-3/4          |
| 125x40                | 141.3x48.3  | 50.8   | 112                | 77   | 219   | 90   | M16x85             |
| 5x1 1/2               | 5.562x1.9   | 2.00   | 4.41               | 3.03 | 8.62  | 3.54 | 5/8x3-1/3          |
| 125x50                | 141.3x60.3  | 63.5   | 113                | 77   | 219   | 101  | M16x85             |
| 5x2                   | 5.562x2.375 | 2.50   | 4.45               | 3.03 | 8.62  | 3.98 | 5/8x3-1/3          |
| 125x65                | 141.3x76.1  | 70   | 113                | 77   | 219   | 117  | M16x85             |
| 5x2 1/2               | 5.562x3     | 2.76   | 4.45               | 3.03 | 8.62  | 4.61 | 5/8x3-1/3          |
| 125x80                | 141.3x88.9  | 89   | 113                | 77   | 219   | 136  | M16x85             |
| 5x3                   | 5.562x3.5   | 3.50   | 4.45               | 3.03 | 8.62  | 5.35 | 5/8x3-1/3          |
| 150x32                | 168.3x42.4  | 44.5   | 125                | 97   | 248   | 84   | M16x85             |
| 6x1 1/4               | 6.625x1.669 | 1.75   | 4.92               | 3.62 | 9.76  | 3.31 | 5/8x3-1/3          |
| 150x40                | 168.3x48.3  | 50.8   | 125                | 97   | 248   | 90   | M16x85             |
| 6x1 1/2               | 6.625x1.9   | 2.00   | 4.92               | 3.62 | 9.76  | 3.54 | 5/8x3-1/3          |
| 150x50                | 168.3x60.3  | 63.5   | 125                | 97   | 248   | 101  | M16x85             |
| 6x2                   | 6.625x2.375 | 2.50   | 4.92               | 3.62 | 9.76  | 3.98 | 5/8x3-1/3          |
| 150x65                | 168.3x76.1  | 70   | 127                | 97   | 248   | 117  | M16x85             |
| 6x2 1/2               | 6.625x3     | 2.76   | 5.00               | 3.62 | 9.76  | 4.61 | 5/8x3-1/3          |
| 150x80                | 168.3x88.9  | 89   | 127                | 97   | 248   | 136  | M16x85             |
| 6x3                   | 6.625x3.5   | 3.50   | 5.00               | 3.62 | 9.76  | 5.35 | 5/8x3-1/3          |
| 150x100               | 168.3x114.3 | 114  | 129                | 97   | 248   | 162  | M16x85             |
| 6x4                   | 6.625x4.5   | 4.49   | 5.08               | 3.62 | 9.76  | 6.38 | 5/8x3-1/3          |
| 200x50                | 219.1x60.3  | 63.5   | 152                | 125  | 322   | 101  | M20x90             |
| 8x2                   | 8.625x2.375 | 2.50   | 5.98               | 4.92 | 12.68 | 3.98 | 5/8x3-1/2          |
| 200x65                | 219.1x76.1  | 70   | 154                | 125  | 322   | 117  | M20x90             |
| 8x2 1/2               | 8.625x3     | 2.76   | 6.06               | 3.92 | 12.68 | 4.61 | 5/8x3-1/2          |
| 200x80                | 219.1x88.9  | 89   | 154                | 125  | 322   | 136  | M20x90             |
| 8x3                   | 8.625x3.5   | 3.50   | 6.06               | 3.92 | 12.68 | 5.35 | 5/8x3-1/2          |
| 200x100               | 219.1x114.3 | 114  | 156                | 125  | 322   | 162  | M20x90             |
| 8x4                   | 8.625x4.5   | 4.49   | 6.14               | 3.92 | 12.68 | 6.38 | 5/8x3-1/2          |

# MODEL XGOT04G

## Mechanical Tee Grooved

The Lede hole-cut mechanical tee provides a fast and easy mid-point branch outlet without welding. First a hole is cut or drilled at the desired outlet location. The mechanical tee is then positioned so that the built-in locating collar fits within the hole. As the housing bolts are tightened the pressure moulded gasket forms a leak-tight seal. Use of the Lede mechanical tee can eliminate the need for multiple couplings and fittings.



1. Drill a hole on the pipe according to the hole sizes requirements, ensure all the burrs are removed, and no deep pits or swells are found within 20mm around the hole.



2. Put the gasket into the upper housing, and make sure it is suitable for the intended service.



3. Put the upper parts above the pipe hole, then put the location collar fit into the hole, ensure the gasket to cover the hole evenly.



4. Place the lower housing opposite to the pipe, align the upper housing and lower housing, then insert the bolts.



5. Tighten the nuts evenly until the upper housing touches the pipe well, the torque of the nuts should be in accordance with the requirements of LEDE company.



6. After installation, check it carefully to make sure the gap between upper part and lower part is equal and tiny.

When mechanical cross is installed, make sure the deflection of the upper housing and lower housing cannot beyond 1.0mm, and the both location collar are in the center of the hole, when nuts tightened, the torque must be in accordance with the LEDE requirements.

### Weights:

All weights are approximate and subject to change without notice.

Lede reserves the right to change or modify product designs, specifications and/or standard equipment without notice and without incurring obligation.

### Sales:

Prices and Terms and Conditions of Sale are subject to change without notice.

### Warranty:

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.

# MODEL L991 FLANGE ANSI CLASS 125 / 150

The Model L991 Flange allows for direct connection of grooved system to ANSI class 125/150 flanged components.

## SPECIFICATIONS

Sizes available:  
50mm - 300mm / 2 ~ 12"

Working Pressure:  
Up to 17 bar / 250 psi

Maximum working pressures are CWP (cold water pressure) or maximum allowed working pressure within the service temperature range of the gasket used in the coupling, based on standard wall orsch. 7/10/40 steel pipe, cut or roll-grooved to ANSI/AWWA C606-04 specifications.

These ratings may occasionally differ from maximum working pressures listed and/or approved by UL, ULC, and/or FM as testing conditions and test pipes differ. For performance data on other pipe schedules contact Lede.

### Housing Coating:

Red Enamel

### Housing material:

Ductile Iron conforming to ASTM A536 Gr. 65-45-12.

### Gasket material:

EPDM (Silicon free) These gaskets have excellent self sealing capabilities and are designed to provide a leak tight seal.



## LEDE GROOVED PIPING SYSTEM

The Lede grooved piping system is one of the most advanced, versatile, economical and reliable systems available today. After the pipe ends are grooved a gasket is stretched over the pipe ends. The coupling segments are then placed over the gasket and the bolts and nuts are fastened resulting in a secure and leak free joint.

## INTERNATIONAL APPROVAL



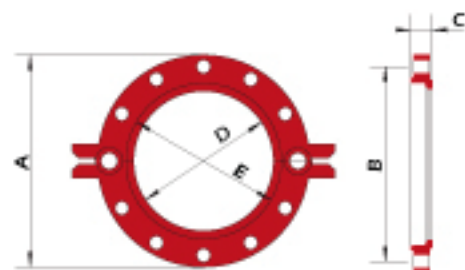
## SUBMITTAL INFORMATION

|            |                          |              |
|------------|--------------------------|--------------|
| PROJECT:   | CONTRACTOR:              | DATE:        |
| ENGINEER:  | SPECIFICATION REFERENCE: | SYSTEM TYPE: |
| LOCATIONS: | COMMENTS:                |              |

# MODEL L991 FLANGE ANSI CLASS 125 / 150

## DATA CHART

Lede couplings are identified by the nominal IPS pipe size in inches or nominal diameter of pipe (DN) in millimeters.



| Nominal Size<br>mm/in | Pipe O.D.<br>mm/in | Max. Working<br>Pressure<br>Bar/PSI | Max. End<br>Load<br>KN/Lbs | Dimensions |            |            |            |            | Bolt |               |
|-----------------------|--------------------|-------------------------------------|----------------------------|------------|------------|------------|------------|------------|------|---------------|
|                       |                    |                                     |                            | A<br>mm/in | B<br>mm/in | C<br>mm/in | D<br>mm/in | E<br>mm/in | No.  | Size<br>mm/in |
| 50                    | 60.3               | 17                                  | 5.71                       | 155        | 120.5      | 25         | 60         | 78         | 4    | M16           |
| 2                     | 2.375              | 250                                 | 1330                       | 6.10       | 4.74       | 0.98       | 2.36       | 3.07       |      | 5/8           |
| 65                    | 78.0               | 17                                  | 8.37                       | 180        | 140        | 25         | 73         | 93         | 4    | M16           |
| 2 1/2                 | 2.875              | 250                                 | 1950                       | 7.09       | 5.51       | 0.98       | 2.87       | 3.66       |      | 5/8           |
| 80                    | 88.9               | 17                                  | 12.41                      | 190        | 153        | 25         | 80         | 107        | 4    | M16           |
| 3                     | 3.500              | 250                                 | 2880                       | 7.48       | 6.02       | 0.98       | 3.50       | 4.21       |      | 5/8           |
| 100                   | 114.3              | 17                                  | 20.51                      | 230        | 191        | 25         | 114        | 131        | 8    | M16           |
| 4                     | 4.500              | 250                                 | 4770                       | 9.06       | 7.52       | 0.98       | 4.49       | 5.16       |      | 5/8           |
| 125                   | 141.3              | 17                                  | 31.35                      | 255        | 216        | 25         | 141        | 157        | 8    | M20           |
| 5                     | 5.563              | 250                                 | 7290                       | 10.04      | 8.50       | 0.98       | 5.55       | 6.18       |      | 3/4           |
| 150                   | 168.3              | 17                                  | 44.47                      | 280        | 241        | 25         | 168        | 185        | 8    | M20           |
| 6                     | 6.625              | 250                                 | 10940                      | 11.02      | 9.49       | 0.98       | 6.61       | 7.28       |      | 3/4           |
| 200                   | 219.1              | 17                                  | 75.37                      | 345        | 299        | 27         | 219        | 234        | 8    | M20           |
| 8                     | 8.625              | 250                                 | 17520                      | 13.58      | 11.77      | 1.06       | 8.62       | 9.21       |      | 3/4           |
| 250                   | 273.0              | 17                                  | 164.71                     | 405        | 362        | 30         | 273        | 294        | 12   | M24           |
| 10                    | 10.750             | 250                                 | 27210                      | 15.94      | 14.25      | 1.18       | 10.75      | 11.57      |      | 1             |
| 300                   | 323.9              | 17                                  | 164.71                     | 485        | 432        | 32         | 324        | 341        | 12   | M24           |
| 12                    | 12.75              | 250                                 | 38280                      | 19.09      | 17.01      | 1.26       | 12.76      | 13.43      |      | 1             |

### Weights:

All weights are approximate and subject to change without notice.

Lede reserves the right to change or modify product designs, specifications and/or standard equipment without notice and without incurring obligation.

### Sales:

Prices and Terms and Conditions of Sale are subject to change without notice.

### Warranty:

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.

# MODEL HDPE COUPLING

## MODEL HDPE COUPLING

The Lede Model HDPE couplings feature four bolt housings and a series of sharply machined teeth which positively grip the pipe as the coupling housing is tightened. The result is a leak-tight joint that is as strong or stronger than the pipe itself. It also features a contoured housing with integral ramps along the outside diameter to help the coupling slide over most obstacles during the relocation of pipe runs.

## SPECIFICATIONS

### Housing Coating:

Red Enamel

### Housing material:

Ductile Iron conforming to ASTM A536 Gr. 65-45-12.

### Gasket material:

EPDM (Silicon free) These gaskets have excellent self sealing capabilities and are designed to provide a leak tight seal.

\* Lede recommends the use of a silicone based lubricant for use with the HDPE series.

## PLAIN-END HDPE PIPING SYSTEM

The Lede HDPE series of piping components are designed to provide a fast and easy way to mechanically join HDPE (high density polyethylene/polybutylene) pipe.

These components are designed to join HDPE pipe and fittings conforming to ASTM D2447, D3000, D3035 or F-714, at ambient temperatures with wall thicknesses from SDR 32.5.

This method eliminates the need for costly heat fusion equipment, solvent joining and or complicated adapters.

Lede HDPE piping components are rated to the same pressure as that of the HDPE pipe they are used in conjunction with.



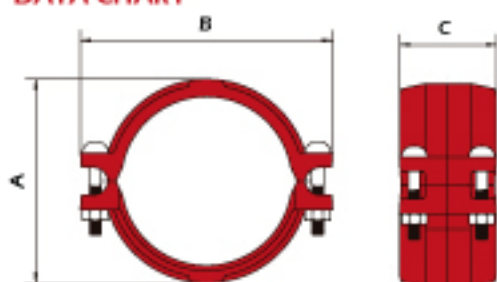
**Note: The Lede HDPE couplings are not intended for use on PVC or other materials.**

## SUBMITTAL INFORMATION

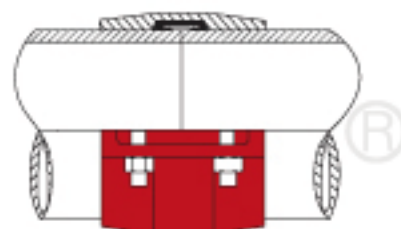
|            |                          |              |
|------------|--------------------------|--------------|
| PROJECT:   | CONTRACTOR:              | DATE:        |
| ENGINEER:  | SPECIFICATION REFERENCE: | SYSTEM TYPE: |
| LOCATIONS: | COMMENTS:                |              |

# MODEL HDP COUPLING

## DATA CHART



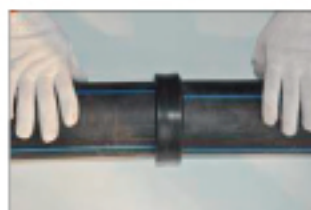
| Pipe O.D.<br>mm/in |       | Dimensions |            |            | Bolt |               |
|--------------------|-------|------------|------------|------------|------|---------------|
| Min.               | Max.  | A<br>mm/in | B<br>mm/in | C<br>mm/in | No.  | Size<br>mm/in |
| 63                 | 63.6  | 85         | 128        | 105        | 4    | M10-55        |
| 2.48               | 2.50  | 3.35       | 5.04       | 4.13       | 4    | 3/8x2-1/8     |
| 90                 | 90.9  | 110        | 169        | 105        | 4    | M12x75        |
| 3.54               | 3.58  | 4.33       | 6.65       | 4.13       | 4    | 1/2x3         |
| 110                | 111   | 138        | 181        | 113        | 4    | M12x75        |
| 4.33               | 4.37  | 5.43       | 7.13       | 4.45       | 4    | 1/2x3         |
| 160                | 161.5 | 190        | 261        | 147        | 4    | M16x90        |
| 6.30               | 6.36  | 7.48       | 10.28      | 5.79       | 4    | 5/8x3-1/2     |
| 200                | 201.8 | 233        | 319        | 154        | 4    | M16x90        |
| 7.87               | 7.94  | 9.17       | 12.56      | 6.06       | 4    | 5/8x3-1/2     |
| 250                | 252.3 | 287        | 351        | 136        | 4    | M16x120       |
| 9.84               | 9.93  | 11.30      | 13.82      | 5.35       | 4    | 5/8x4-3/4     |
| 315                | 317.9 | 351        | 442        | 136        | 4    | M20x120       |
| 12.40              | 12.52 | 13.82      | 17.40      | 5.35       | 4    | 3/4x4-3/4     |



## INSTALLATION



**MARKING:** Use a marking pen or other marking tool and measuring tape to place marks on each pipe end, 1" from each end.



**GASKET MOUNTING:** Place a gasket over the pipe ends and center the gasket in between the mark. The pipe ends should always be butted against each other.



**HOUSING MOUNTING:** Place the housings over gasket and insert bolts. Then apply nuts finger tight.



**NUT TIGHTENING:** Tighten the nuts alternatively until the housing bolt pads meet metal to metal.

### Weights:

All weights are approximate and subject to change without notice.

Lede reserves the right to change or modify product designs, specifications and/or standard equipment without notice and without incurring obligation.

### Sales:

Prices and Terms and Conditions of Sale are subject to change without notice.

### Warranty:

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. For more information please contact LEDE.