

FM FITTING





Angle-pad Coupling

P10



HDPE Coupling

P10



Rigid Coupling

P11



Flexible Coupling

P12



Flexible Coupling (Heavy-duty)
M2

P13



Rigid Coupling (Heavy-duty)
M1

P13



Reducing Flexible Coupling

P14



90° Elbow

P15



Grooved 45° Elbow

P16



Grooved 22.5° Elbow

P17



Grooved 11.25° Elbow

P17



Grooved Tee

P18



Grooved Reducing Tee

P19



Grooved Bullhead Tee

P21



Threaded Reducing Tee

P22



Grooved Cross

P24



Grooved Reducing Cross

P25



Threaded Reducing Cross

P27



Grooved Mechanical Tee

P29



Threaded Mechanical Tee

P31



Grooved Mechanical Cross

P34



Threaded Mechanical Cross

P35



90° Reducing Elbow

P36



U-Bolt Mechanical Tee

P37



Small Threaded Mechanical Tee

P37



Grooved Reducer

P38



Threaded Reducer

P40



Grooved Eccentric Reducer

P44



Grooved Flange PN16

P42



Grooved Flange ANSI125/150

P42



Flange Adaptor PN16

P43



Flange Adaptor ANSI125/150

P43



Grooved Cap

P44



Cap with Eccentric hole

P45

TEST EQUIPMENT



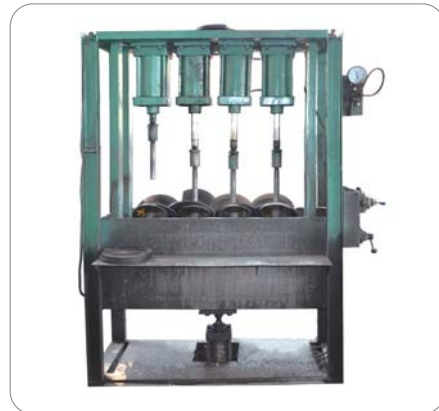
Salt Spray Test



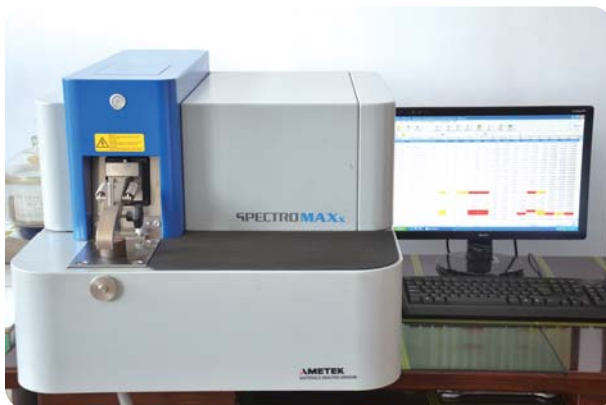
Gasket Test



Pressure Test



Air Test



Spectrom For Material



Strength Test

PRODUCTION EQUIPMENT



Casting Line



Electrophoretic Treatment



Machining Plant



Mold Center

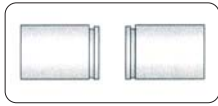
TEST EQUIPMENT



Coating Line



Assembly Line



Grooved Pipe



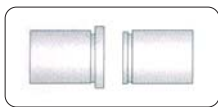
Gasket



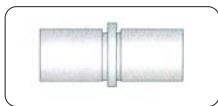
Lubricate the gasket



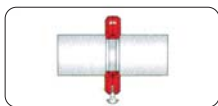
Slide another pipe end



Close another pipe end



Slide another pipe end into the gasket

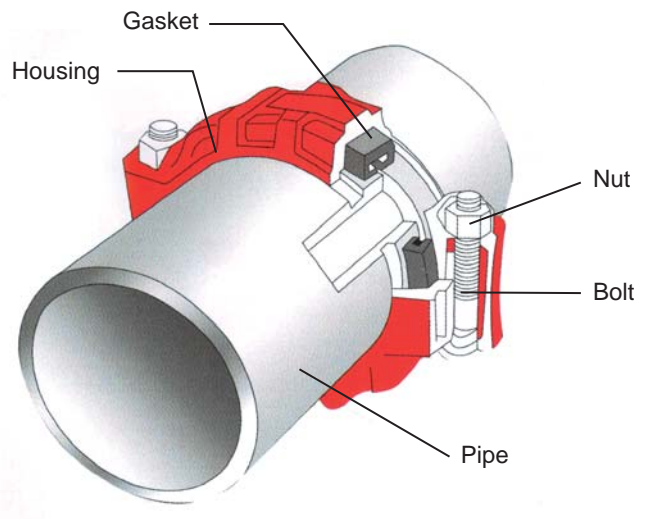


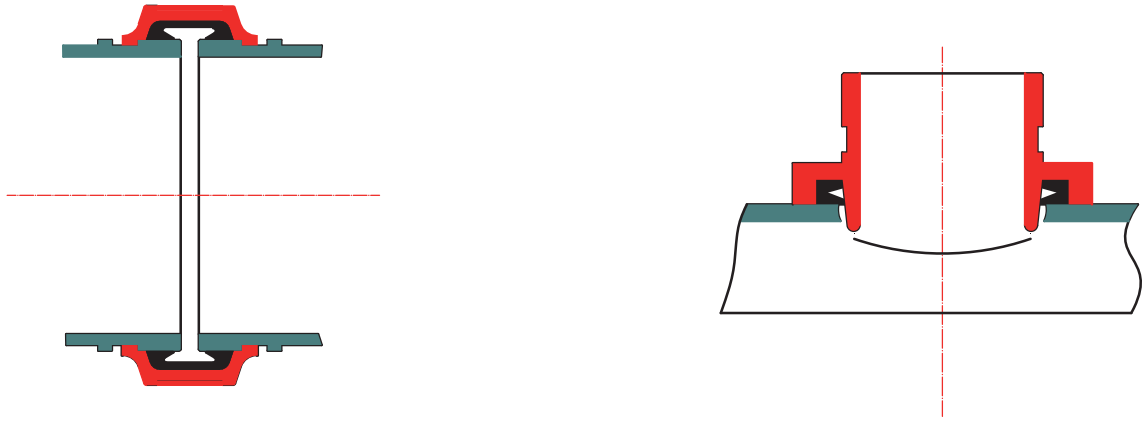
Place the housings over the gasket



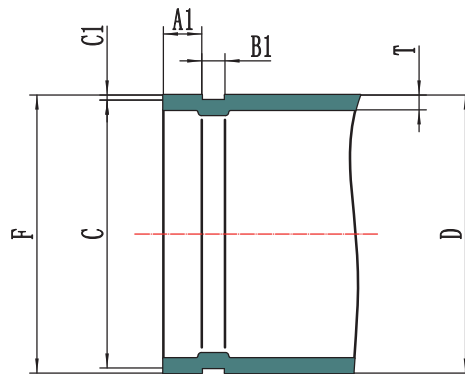
Tighten the bolts and nuts

Pipe Preparation





| Nominal Diameter | O.D/in | O.D/mm | A1 | B1 | C1 | C (mm) | | T | F |
|------------------|--------|--------|------|------|-----|------------|-----------|-----|-------|
| | | | | | | Basic Size | Tolerance | | |
| mm | mm | mm | mm | mm | mm | | | mm | mm |
| DN25 | 1" | 33.7 | 15.9 | 7.2 | 1.6 | 30.2 | -0.38 | 1.8 | 34.5 |
| DN32 | 1 1/4" | 42.4 | 15.9 | 7.2 | 1.6 | 39 | -0.38 | 1.8 | 43.3 |
| DN40 | 1 1/2" | 48.3 | 15.9 | 7.2 | 1.6 | 45.1 | -0.38 | 1.8 | 49.4 |
| DN50 | 2" | 60.3 | 15.9 | 8.8 | 1.6 | 57.2 | -0.38 | 1.8 | 62.2 |
| DN65 | 2 1/2" | 73 | 15.9 | 8.8 | 2 | 69.1 | -0.46 | 2.3 | 75.2 |
| DN65 | 2 1/2" | 76.1 | 15.9 | 8.8 | 2 | 72.3 | -0.46 | 2.3 | 77.7 |
| DN80 | 3" | 88.9 | 15.9 | 8.8 | 2 | 84.9 | -0.46 | 2.3 | 90.6 |
| DN100 | 4" | 108 | 15.9 | 8.8 | 2.1 | 103.7 | -0.51 | 2.3 | 109.7 |
| DN100 | 4" | 114.3 | 15.9 | 8.8 | 2.1 | 110.1 | -0.51 | 2.3 | 116.2 |
| DN125 | 5" | 133 | 15.9 | 8.8 | 2.1 | 129.1 | -0.51 | 2.9 | 134.9 |
| DN125 | 5" | 139.7 | 15.9 | 8.8 | 2.1 | 135.5 | -0.51 | 2.9 | 141.7 |
| DN125 | 5" | 141.3 | 15.9 | 8.8 | 2.1 | 137 | -0.56 | 2.9 | 143.5 |
| DN150 | 6" | 159 | 15.9 | 8.8 | 2.2 | 154.5 | -0.56 | 2.9 | 161 |
| DN150 | 6" | 165.1 | 15.9 | 8.8 | 2.2 | 160.9 | -0.56 | 2.9 | 167.1 |
| DN150 | 6" | 168.3 | 15.9 | 8.8 | 2.2 | 164 | -0.56 | 2.9 | 170.7 |
| DN200 | 8" | 219.1 | 19.1 | 11.9 | 2.4 | 214.4 | -0.64 | 2.9 | 221.5 |
| DN250 | 10" | 273 | 19.1 | 11.9 | 2.4 | 268.3 | -0.69 | 3.6 | 275.4 |
| DN300 | 12" | 323.9 | 19.1 | 11.9 | 2.8 | 318.3 | -0.76 | 4 | 326.2 |
| DN350 | 14" | 355.6 | 23.8 | 11.9 | 2.8 | 350 | -0.7 | 4.5 | 359 |



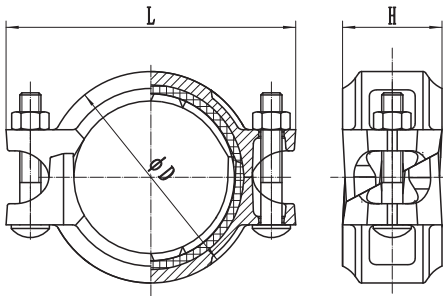
Extra degrees of deflection angular is allowed for flexible coupling, but when the flexible coupling is assembled, the value must be no more than the maximum degree.

| Norminal Diameter | O.D/in | O.D/mm | Max Deflection Angular |
|-------------------|--------|--------|------------------------|
| DN25 | 1" | 33.7 | 2.3 |
| DN32 | 1 1/4" | 42.4 | 2.3 |
| DN40 | 1 1/2" | 48.3 | 2.3 |
| DN50 | 2" | 60.3 | 2.3 |
| DN65 | 2 1/2" | 73 | 1.9 |
| DN65 | 2 1/2" | 76.1 | 1.9 |
| DN80 | 3" | 88.9 | 1.6 |
| DN100 | 4" | 108 | 1.7 |
| DN100 | 4" | 114.3 | 1.6 |
| DN125 | 5" | 133 | 1.4 |
| DN125 | 5" | 139.7 | 1.3 |
| DN125 | 5" | 141.3 | 1.3 |
| DN150 | 6" | 159 | 1.2 |
| DN150 | 6" | 165.1 | 1.1 |
| DN150 | 6" | 168.3 | 1.1 |
| DN200 | 8" | 219.1 | 0.8 |
| DN250 | 10" | 273 | 0.7 |
| DN300 | 12" | 323.9 | 0.6 |
| DN350 | 14" | 355.6 | 0.5 |

To ensure valid seal property, the torque of the bolts must be within the scope of the demands, Too big torque will damage the bolts and housing, too small torque will cause leakage.

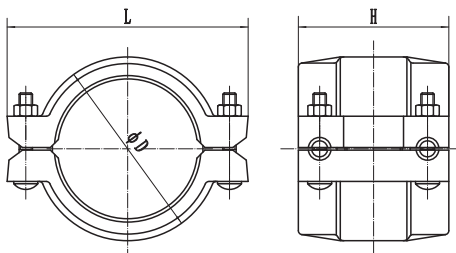
| Bolt | Torque(N*M) |
|-----------|-------------|
| M8(5/16) | 25-30 |
| M10(3/8) | 60-70 |
| M12(1/2) | 90-100 |
| M14(9/16) | 135-150 |
| M16(5/8) | 200-230 |
| M20(3/4) | 270-300 |
| M22(7/8) | 270-300 |

Angle-pad Coupling



| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Bolt inch/mm | Working pressure Psi | |
|--------------------|----------------|-------------|------|------|----------------------|----------------------|--------------------|
| | | ϕD mm | L mm | H mm | | | |
| 25 | 33.7 | 56 | 96 | 47 | 3/8×2-3/8 (M10×60) | 300 | |
| 1 | 1.327 | | | | | | |
| 32 | 42.4 | | | | | | |
| 1 1/4 | 1.669 | | | | | | |
| 40 | 48.3 | 64 | 106 | 47 | | | |
| 1 1/2 | 1.9 | | | | | | |
| 50 | 60.3 | 69 | 113 | 47 | | | |
| 2 | 2.375 | | | | | | |
| 65 | 73 | 88 | 122 | 47 | | | |
| 2 1/2 | 2.875 | | | | | | |
| 65 | 76.1 | 100 | 137 | 47 | 3/8×2-3/4 (M10×70) | | |
| 2 1/2 | 3 | | | | | | |
| 80 | 88.9 | 100 | 137 | 47 | | | |
| 3 | 3.5 | | | | | | |
| 100 | 114.3 | 116 | 154 | 47 | | | |
| 4 | 4.5 | | | | | | |
| 125 | 139.7 | 142 | 188 | 52 | 1/2×3 (M12×75) | | |
| 5 | 5.5 | | | | | | |
| 125 | 141.3 | 170 | 219 | 52 | | | |
| 5 | 5.563 | | | | | | |
| 150 | 159 | 170 | 219 | 52 | | | 1/2×3-1/8 (M12×80) |
| 6 | 6.25 | | | | | | |
| 150 | 165.1 | 196 | 244 | 52 | | | |
| 6 | 6.5 | | | | | | |
| 150 | 168.3 | 197 | 244 | 52 | | | |
| 6 | 6.625 | | | | | | |
| 200 | 219.1 | 262 | 322 | 66 | 5/8×4-3/4 (M16×120) | | |
| 8 | 8.625 | | | | | | |
| 250 | 273 | 325 | 400 | 66 | 3/4×6-7/10 (M20×170) | | |
| 10 | 10.75 | | | | | | |
| 300 | 323.9 | 376 | 468 | 67 | 7/8×7-1/4 (M22×185) | | |
| 12 | 12.75 | | | | | | |

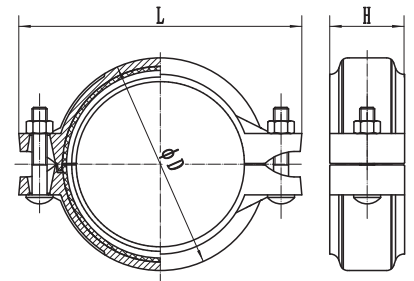
HDPE Coupling



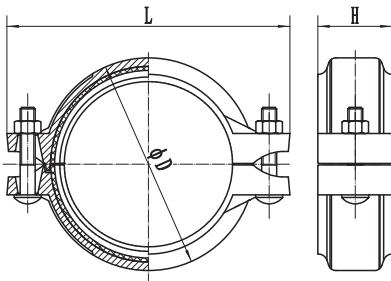
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Bolt/Nut Size (mm) |
|--------------------|----------------|-------------|------|------|---------------------|
| | | ϕD mm | L mm | H mm | |
| 50 | 63 | 85 | 128 | 105 | 3/8×2-1/8 (M10×55) |
| 2 | 2.5 | | | | |
| 80 | 90 | 110 | 169 | 105 | 1/2×3 (M12×75) |
| 3 | 3.5 | | | | |
| 100 | 110 | 138 | 181 | 113 | 1/2×3 (M12×75) |
| 4 | 4.3 | | | | |
| 150 | 160 | 190 | 261 | 147 | 5/8×3-1/2 (M16×90) |
| 6 | 6.3 | | | | |
| 200 | 200 | 233 | 319 | 154 | 5/8×3-1/2 (M16×90) |
| 8 | 7.9 | | | | |
| 250 | 250 | 287 | 351 | 136 | 5/8×4-3/4 (M16×120) |
| 10 | 9.8 | | | | |
| 300 | 315 | 351 | 442 | 136 | 3/4×4-3/4 (M20×120) |
| 12 | 12.4 | | | | |

Rigid Coupling

| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Bolt inch/mm | Working pressure Psi |
|--------------------|----------------|------------|---------|---------|------------------------|-------------------------|
| | | ΦD mm | L mm | H mm | | |
| 25 | 33.7 | 55 | 97 | 45 | 3/8×1-1/2 (M10×40) | 300 |
| 1 | 1.327 | | | | | |
| 32 | 42.4 | 63.5 | 107.5 | 45 | 3/8×1-3/4 (M10×45) | |
| 1 1/4 | 1.669 | | | | | |
| 40 | 48.3 | 69 | 114 | 45 | 3/8×2-1/8 (M10×55) | |
| 1 1/2 | 1.9 | | | | | |
| 50 | 57 | 83.6 | 124 | 46 | 3/8×2-1/8 (M10×55) | |
| 2 | 2.244 | | | | | |
| 50 | 60.3 | 83.6 | 124 | 46 | 3/8×2-5/8 (M12×65) | |
| 2 | 2.375 | | | | | |
| 65 | 73 | 98 | 137 | 46 | 3/8×2-5/8 (M12×65) | |
| 2 1/2 | 2.875 | | | | | |
| 65 | 76.1 | 98 | 139 | 46 | 3/8×2-5/8 (M12×65) | |
| 2 1/2 | 3 | | | | | |
| 80 | 88.9 | 114 | 156 | 46 | 3/8×2-5/8 (M12×65) | |
| 3 | 3.5 | | | | | |
| 100 | 108 | 138 | 186 | 50 | 3/8×2-5/8 (M12×65) | |
| 4 | 4.25 | | | | | |
| 100 | 114.3 | 142 | 189 | 50 | 3/8×2-5/8 (M12×65) | |
| 4 | 4.5 | | | | | |
| 125 | 133 | 164 | 213 | 50 | 3/8×2-5/8 (M12×65) | |
| 5 | 5.25 | | | | | |
| 125 | 139.7 | 170 | 222 | 50 | 3/8×2-5/8 (M12×65) | |
| 5 | 5.5 | | | | | |
| 125 | 141.3 | 170 | 218 | 50 | 3/8×2-5/8 (M12×65) | |
| 5 | 5.563 | | | | | |
| 150 | 159 | 192 | 244 | 50 | 3/8×2-5/8 (M12×65) | |
| 6 | 6.25 | | | | | |
| 150 | 165.1 | 196 | 244 | 50 | 3/8×2-5/8 (M12×65) | |
| 6 | 6.5 | | | | | |
| 150 | 168.3 | 198 | 251 | 50 | 3/8×2-5/8 (M12×65) | |
| 6 | 6.625 | | | | | |
| 200 | 216.3 | 254 | 340 | 62 | 3/4×3-1/2 (M20×90) | |
| 8 | 8.515 | | | | | |
| 200 | 219.1 | 256 | 316 | 60 | 5/8×3-1/8 (M16×80) | |
| 8 | 8.625 | | | | | |
| 250 | 267.4 | 313 | 400 | 64 | 3/4×3-1/2 (M20×90) | |
| 10 | 10.527 | | | | | |
| 250 | 273 | 319 | 393 | 64 | 3/4×3-1/2 (M20×90) | |
| 10 | 10.75 | | | | | |
| 300 | 318.5 | 368 | 464 | 64 | 7/8×4-1/3 (M22×110) | |
| 12 | 12.539 | | | | | |
| 300 | 323.9 | 374 | 453 | 65 | 3/4×4-1/3 (M20×110) | |
| 12 | 12.75 | | | | | |



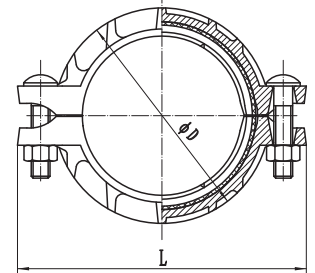
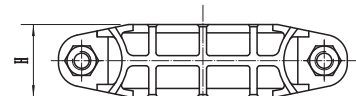
Flexible Coupling



| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Bolt inch/mm | Working pressure Psi |
|--------------------|----------------|------------|---------|---------|------------------------|-------------------------|
| | | ΦD mm | L mm | H mm | | |
| 25 | 33.7 | 55 | 97 | 45 | 3/8×1-1/2 (M10×40) | 300 |
| 1 | 1.327 | | | | | |
| 32 | 42.4 | 63.5 | 107.5 | 45 | 3/8×1-3/4 (M10×45) | |
| 1 1/4 | 1.669 | | | | | |
| 40 | 48.3 | 69 | 114 | 45 | 3/8×2-1/8 (M10×55) | |
| 1 1/2 | 1.9 | | | | | |
| 50 | 57 | 83.6 | 124 | 46 | | |
| 2 | 2.244 | | | | | |
| 50 | 60.3 | 83.6 | 124 | 46 | | |
| 2 | 2.375 | | | | | |
| 65 | 73 | 98 | 137 | 46 | | |
| 2 1/2 | 2.875 | | | | | |
| 65 | 76.1 | 98 | 139 | 46 | | |
| 2 1/2 | 3 | | | | | |
| 80 | 88.9 | 114 | 156 | 46 | | |
| 3 | 3.5 | | | | | |
| 100 | 108 | 138 | 186 | 50 | 1/2×2-5/8 (M12×65) | |
| 4 | 4.25 | | | | | |
| 100 | 114.3 | 142 | 189 | 50 | | |
| 4 | 4.5 | | | | | |
| 125 | 133 | 164 | 213 | 50 | | |
| 5 | 5.25 | | | | | |
| 125 | 139.7 | 170 | 222 | 50 | | |
| 5 | 5.5 | | | | | |
| 125 | 141.3 | 170 | 218 | 50 | | |
| 5 | 5.563 | | | | | |
| 150 | 159 | 192 | 244 | 50 | | |
| 6 | 6.25 | | | | | |
| 150 | 165.1 | 196 | 244 | 50 | | |
| 6 | 6.5 | | | | | |
| 150 | 168.3 | 198 | 251 | 50 | | |
| 6 | 6.625 | | | | | |
| 200 | 216.3 | 254 | 340 | 62 | 3/4×3-1/2 (M20×90) | |
| 8 | 8.515 | | | | | |
| 200 | 219.1 | 256 | 316 | 60 | 5/8×3-1/8 (M16×80) | |
| 8 | 8.625 | | | | | |
| 250 | 267.4 | 313 | 400 | 64 | 3/4×3-1/2 (M20×90) | |
| 10 | 10.527 | | | | | |
| 250 | 273.0 | 319 | 393 | 64 | 3/4×3-1/2 (M20×90) | |
| 10 | 10.75 | | | | | |
| 300 | 318.5 | 368 | 464 | 64 | 7/8×4-1/3 (M22×110) | |
| 12 | 12.539 | | | | | |
| 300 | 323.9 | 374 | 453 | 65 | 3/4×4-1/3 (M20×110) | |
| 12 | 12.75 | | | | | |
| 350 | 355.6 | 410 | 510 | 75 | 7/8×4-1/3 (M22×110) | |
| 14 | 14 | | | | | |
| 350 | 377 | 428 | 478.4 | 75 | 7/8×3-1/2 (M22×90) | |
| 14 | 14.843 | | | | | |
| 400 | 426 | 478 | 528.6 | 75 | | |
| 16 | 16.771 | | | | | |

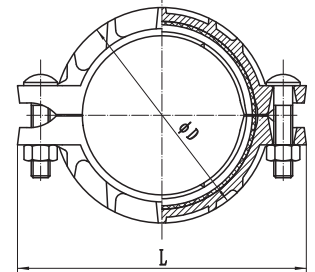
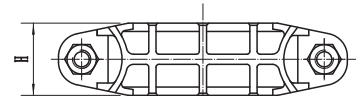
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Bolt inch/mm | Working pressure Psi | |
|--------------------|----------------|------------|---------|---------|------------------------|-------------------------|-----------------------|
| | | ΦD mm | L mm | H mm | | | |
| 32 | 42.4 | 63.5 | 107.5 | 45 | 3/8×2-1/8 (M10×45) | 500 | |
| 1 1/4 | 1.669 | | | | | | |
| 40 | 48.3 | | | | | | |
| 1 1/2 | 1.9 | 69 | 114 | 45 | | | |
| 65 | 76.1 | | | | | | |
| 2 1/2 | 3 | 101.2 | 144 | 46 | | | 1/2×2-3/8 (M12×60) |
| 80 | 88.9 | | | | | | |
| 3 | 3.5 | | | | | | |
| 100 | 108 | 144.4 | 195 | 50 | 1/2×2-3/4 (M12×70) | | |
| 4 | 4.25 | | | | | | |
| 100 | 114.3 | 149.2 | 200 | 50 | | | |
| 4 | 4.5 | | | | | | |
| 125 | 133 | | | | | | |
| 5 | 5.25 | 172 | 231 | 50 | | | 5/8×3-1/8 (M16×80) |
| 125 | 139.7 | | | | | | |
| 5 | 5.5 | 180 | 235 | 50 | | | |
| 125 | 141.3 | | | | | | |
| 5 | 5.563 | | | | | | |
| 150 | 159 | 203 | 268 | 50 | | | |
| 6 | 6.25 | | | | | | |
| 150 | 165.1 | 207 | 273 | 50 | | | |
| 6 | 6.5 | | | | | | |
| 150 | 168.3 | 209.4 | 272 | 50 | | | |
| 6 | 6.625 | | | | | | |
| 200 | 219.1 | | | | | | |
| 8 | 8.625 | 276 | 347 | 58 | 3/4×4-1/3 (M20×110) | | |

**Flexible Coupling (Heavy-duty)
M2**

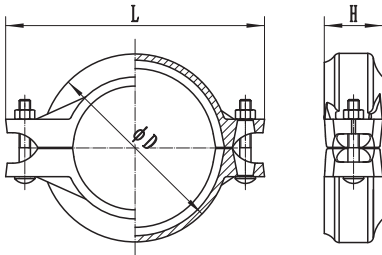


| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Bolt inch/mm | Working pressure Psi | |
|--------------------|----------------|------------|---------|---------|------------------------|-------------------------|-----------------------|
| | | ΦD mm | L mm | H mm | | | |
| 65 | 76.1 | 101.2 | 144 | 46 | 1/2×2-3/8 (M12×60) | 500 | |
| 2 1/2 | 3 | | | | | | |
| 80 | 88.9 | | | | | | |
| 3 | 3.5 | 117.4 | 157 | 46 | | | |
| 100 | 108 | | | | | | |
| 4 | 4.25 | 144.4 | 195 | 50 | | | 1/2×2-3/4 (M12×70) |
| 100 | 114.3 | | | | | | |
| 4 | 4.5 | | | | | | |
| 125 | 133 | 172 | 231 | 50 | 5/8×3-1/8 (M16×80) | | |
| 5 | 5.25 | | | | | | |
| 125 | 139.7 | 180 | 235 | 50 | | | |
| 5 | 5.5 | | | | | | |
| 125 | 141.3 | | | | | | |
| 5 | 5.563 | 203 | 268 | 50 | | | |
| 150 | 159 | | | | | | |
| 6 | 6.25 | 207 | 273 | 50 | | | |
| 150 | 165.1 | | | | | | |
| 6 | 6.5 | 209.4 | 272 | 50 | | | |
| 150 | 168.3 | | | | | | |
| 6 | 6.625 | | | | | | |
| 200 | 219.1 | 276 | 347 | 58 | 3/4×4-1/3 (M20×110) | | |
| 8 | 8.625 | | | | | | |

**Rigid Coupling (Heavy-duty)
M1**



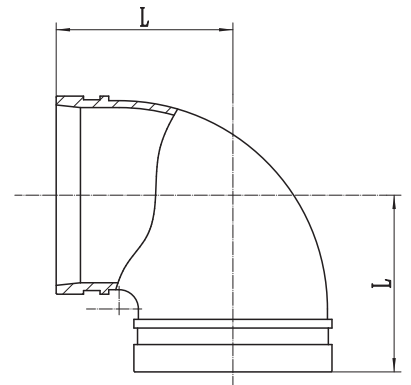
Reducing Flexible Coupling



| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Bolt inch/mm | Working pressure Psi |
|--------------------|----------------|------------|-------|------|---------------------|----------------------|
| | | ΦD mm | L mm | H mm | | |
| 50×40 | 60.3×48.3 | 82 | 130 | 46 | 3/8×2-1/8 (M10×55) | 300 |
| 2×1½ | 2.375×1.9 | | | | | |
| 65×25 | 73×33.7 | 97 | 151 | 46 | | |
| 2½×1 | 2.875×1.327 | | | | | |
| 65×32 | 73×42.4 | 97 | 151 | 46 | | |
| 2½×1¼ | 2.875×1.669 | | | | | |
| 65×40 | 73×48.3 | 97 | 151 | 46 | | |
| 2½×1½ | 2.875×1.9 | | | | | |
| 65×50 | 73×60.3 | 97 | 151 | 46 | | |
| 2½×2 | 2.875×2.375 | | | | | |
| 65×50 | 76.1×60.3 | 107 | 151 | 46 | | |
| 2½×2 | 3×2.375 | | | | | |
| 80×40 | 88.9×48.3 | 112 | 166.6 | 46 | 1/2×2-5/8 (M12×65) | |
| 3×1½ | 3.5×1.9 | | | | | |
| 80×50 | 88.9×60.3 | 123.6 | 166.6 | 46 | | |
| 3×2 | 3.5×2.375 | | | | | |
| 80×65 | 88.9×73.0 | 123.6 | 166.6 | 46 | | |
| 3×2½ | 3.5×2.875 | | | | | |
| 80×65 | 88.9×76.1 | 123.6 | 166.6 | 46 | | |
| 3×2½ | 3.5×3 | | | | | |
| 100×50 | 114.3×60.3 | 151.2 | 200 | 50 | | |
| 4×2 | 4.5×2.375 | | | | | |
| 100×65 | 114.3×73.0 | 151.2 | 200 | 50 | | |
| 4×2½ | 4.5×2.875 | | | | | |
| 100×65 | 114.3×76.1 | 151.2 | 200 | 50 | | |
| 4×2½ | 4.5×3.0 | | | | | |
| 100×80 | 114.3×88.9 | 151.2 | 200 | 50 | | |
| 4×3 | 4.5×3.5 | | | | | |
| 125×100 | 141.3×114.3 | 167 | 230 | 52 | 5/8×3-1/8 (M16×80) | |
| 5×4 | 5.563×4.5 | | | | | |
| 150×80 | 165.1×88.9 | 197 | 275 | 52 | | |
| 6×3 | 6.5×3.5 | | | | | |
| 150×100 | 165.1×114.3 | 197 | 275 | 52 | | |
| 6×4 | 6.5×4.5 | | | | | |
| 150×65 | 168.3×73 | 199.4 | 275 | 52 | | |
| 6×2½ | 6.525×2.875 | | | | | |
| 150×80 | 168.3×88.9 | 199.4 | 275 | 52 | | |
| 6×3 | 6.525×3.5 | | | | | |
| 150×100 | 168.3×114.3 | 199.4 | 275 | 52 | | |
| 6×4 | 6.525×4.5 | | | | | |
| 150×100 | 168.3×141.3 | 199.4 | 275 | 52 | | |
| 6×5 | 6.625×5.563 | | | | | |
| 200×150 | 219.1×168.3 | 258 | 336 | 58 | 3/4×4-1/3 (M20×110) | |
| 8×6 | 8.625×6.525 | | | | | |

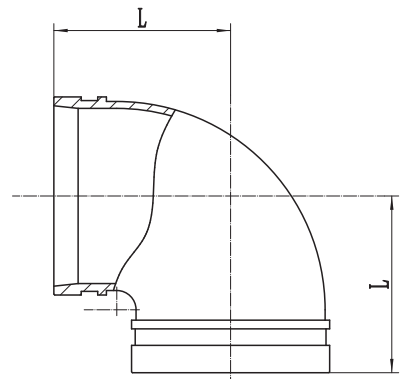
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working Pressure (psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 50 | 60.3 | 70 | 300 |
| 2 | 2.375 | | |
| 65 | 73 | 76 | |
| 2 1/2 | 2.875 | | |
| 65 | 76.1 | 76 | |
| 2 1/2 | 3 | | |
| 80 | 88.9 | 85 | |
| 3 | 3.5 | | |
| 100 | 108 | 102 | |
| 4 | 4.25 | | |
| 100 | 114.3 | 102 | |
| 4 | 4.5 | | |
| 125 | 133 | 121 | |
| 5 | 5.25 | | |
| 125 | 139.7 | 121 | |
| 5 | 5.5 | | |
| 125 | 141.3 | 121 | |
| 5 | 5.563 | | |
| 150 | 159 | 130 | |
| 6 | 6.25 | | |
| 150 | 165.1 | 130 | |
| 6 | 6.5 | | |
| 150 | 168.3 | 140 | |
| 6 | 6.625 | | |
| 200 | 219.1 | 175 | |
| 8 | 8.625 | | |
| 250 | 273 | 215 | |
| 10 | 10.75 | | |
| 300 | 323.9 | 220 | |
| 12 | 12.75 | | |

Grooved 90° Elbow Short

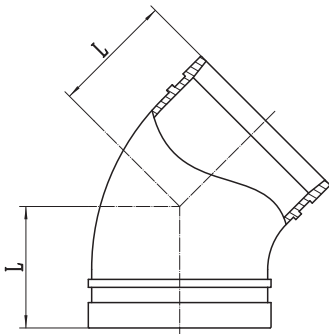


| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working Pressure (psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 25 | 33.7 | 57 | 300 |
| 1 | 1.327 | | |
| 32 | 42.4 | 70 | |
| 1 1/4 | 1.669 | | |
| 40 | 48.3 | 70 | |
| 1 1/2 | 1.9 | | |
| 50 | 60.3 | 83 | |
| 2 | 2.375 | | |
| 65 | 73 | 95 | |
| 2 1/2 | 2.875 | | |
| 65 | 76.1 | 95 | |
| 2 1/2 | 3 | | |
| 80 | 88.9 | 108 | |
| 3 | 3.5 | | |
| 100 | 114.3 | 127 | |
| 4 | 4.5 | | |
| 125 | 139.7 | 140 | |
| 5 | 5.5 | | |
| 125 | 141.3 | 140 | |
| 5 | 5.563 | | |
| 150 | 159 | 165 | |
| 6 | 6.25 | | |
| 150 | 165.1 | 165 | |
| 6 | 6.5 | | |
| 150 | 168.3 | 165 | |
| 6 | 6.625 | | |
| 200 | 219.1 | 197 | |
| 8 | 8.625 | | |

Grooved 90° Elbow Standard

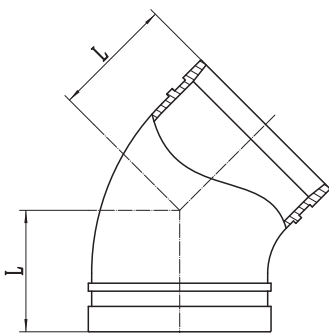


Grooved 45° Elbow Short



| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working Pressure (psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 65 | 76.1 | 48 | 300 |
| 2 1/2 | 3 | | |
| 80 | 88.9 | 53 | |
| 3 | 3.5 | | |
| 100 | 108 | 60 | |
| 4 | 4.25 | | |
| 100 | 114.3 | 60 | |
| 4 | 4.5 | | |
| 125 | 133 | 68 | |
| 5 | 5.25 | | |
| 125 | 139.7 | 68 | |
| 5 | 5.5 | | |
| 125 | 141.3 | 68 | |
| 5 | 5.563 | | |
| 150 | 159 | 75.5 | |
| 6 | 6.25 | | |
| 150 | 165.1 | 75.5 | |
| 6 | 6.5 | | |
| 150 | 168.3 | 75.5 | |
| 6 | 6.625 | | |
| 200 | 219.1 | 95 | |
| 8 | 8.625 | | |
| 250 | 273 | 112 | |
| 10 | 10.75 | | |
| 300 | 323.9 | 135 | |
| 12 | 12.75 | | |

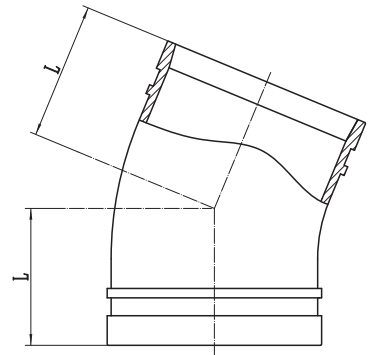
Grooved 45° Elbow Standard



| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working Pressure (psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 25 | 33.7 | 45 | 300 |
| 1 | 1.327 | | |
| 32 | 42.4 | 45 | |
| 1 1/4 | 1.669 | | |
| 40 | 48.3 | 45 | |
| 1 1/2 | 1.9 | | |
| 50 | 60.3 | 51 | |
| 2 | 2.375 | | |
| 65 | 73 | 62 | |
| 2 1/2 | 2.875 | | |
| 65 | 76.1 | 62 | |
| 2 1/2 | 3 | | |
| 80 | 88.9 | 70 | |
| 3 | 3.5 | | |
| 100 | 108 | 76 | |
| 4 | 4.25 | | |
| 100 | 114.3 | 76 | |
| 4 | 4.5 | | |
| 125 | 133 | 83 | |
| 5 | 5.25 | | |
| 125 | 139.7 | 83 | |
| 5 | 5.5 | | |
| 125 | 141.3 | 83 | |
| 5 | 5.563 | | |
| 150 | 159 | 89 | |
| 6 | 6.25 | | |
| 150 | 165.1 | 89 | |
| 6 | 6.5 | | |
| 150 | 168.3 | 89 | |
| 6 | 6.625 | | |
| 200 | 219.1 | 108 | |
| 8 | 8.625 | | |

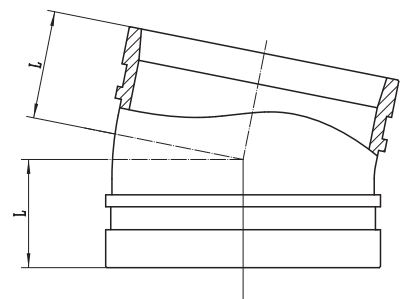
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working pressure (Psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 50 | 60.3 | 48 | 300 |
| 2 | 2.375 | | |
| 65 | 73 | 51 | |
| 2 1/2 | 2.875 | 51 | |
| 65 | 76.1 | | |
| 2 1/2 | 3 | 57 | |
| 80 | 88.9 | | |
| 3 | 3.5 | 73 | |
| 100 | 108 | | |
| 4 | 4.25 | 73 | |
| 100 | 114.3 | | |
| 4 | 4.5 | 73 | |
| 125 | 133 | | |
| 5 | 5.25 | 73 | |
| 125 | 139.7 | | |
| 5 | 5.5 | 73 | |
| 125 | 141.3 | | |
| 5 | 5.563 | 79 | |
| 150 | 159 | | |
| 6 | 6.25 | 79 | |
| 150 | 165.1 | | |
| 6 | 6.5 | 79 | |
| 150 | 168.3 | | |
| 6 | 6.625 | 98 | |
| 200 | 219.1 | | |
| 8 | 8.625 | | |

Grooved 22.5° Elbow

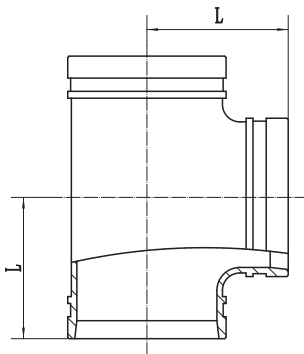


| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working pressure (Psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 50 | 60.3 | 35 | 300 |
| 2 | 2.375 | | |
| 65 | 73 | 38 | |
| 2 1/2 | 2.875 | 38 | |
| 65 | 76.1 | | |
| 2 1/2 | 3 | 38 | |
| 80 | 88.9 | | |
| 3 | 3.5 | 45 | |
| 100 | 108 | | |
| 4 | 4.25 | 45 | |
| 100 | 114.3 | | |
| 4 | 4.5 | 51 | |
| 125 | 133 | | |
| 5 | 5.25 | 51 | |
| 125 | 139.7 | | |
| 5 | 5.5 | 51 | |
| 125 | 141.3 | | |
| 5 | 5.563 | 51 | |
| 150 | 159 | | |
| 6 | 6.25 | 51 | |
| 150 | 165.1 | | |
| 6 | 6.5 | 51 | |
| 150 | 168.3 | | |
| 6 | 6.625 | 51 | |
| 200 | 219.1 | | |
| 8 | 8.625 | | |

Grooved 11.25° Elbow

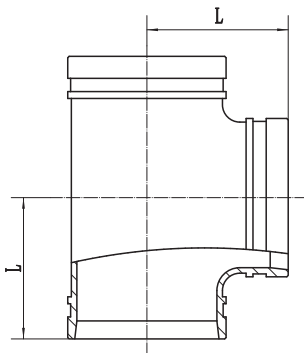


Grooved Tee Short



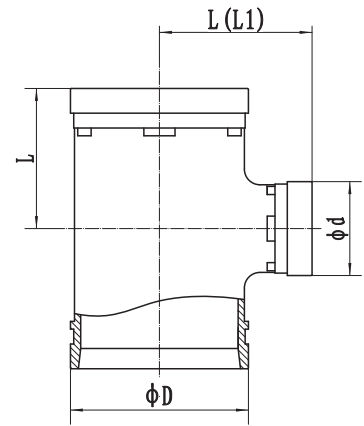
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working Pressure (psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 50 | 60.3 | 70 | 300 |
| 2 | 2.375 | | |
| 65 | 73 | 76 | |
| 2 1/2 | 2.875 | | |
| 65 | 76.1 | 76 | |
| 2 1/2 | 3 | | |
| 80 | 88.9 | 85 | |
| 3 | 3.5 | | |
| 100 | 108 | 102 | |
| 4 | 4.25 | | |
| 100 | 114.3 | 102 | |
| 4 | 4.5 | | |
| 125 | 133 | 121 | |
| 5 | 5.25 | | |
| 125 | 139.7 | 121 | |
| 5 | 5.5 | | |
| 125 | 141.3 | 121 | |
| 5 | 5.563 | | |
| 150 | 159 | 130 | |
| 6 | 6.25 | | |
| 150 | 165.1 | 130 | |
| 6 | 6.5 | | |
| 150 | 168.3 | 140 | |
| 6 | 6.625 | | |
| 200 | 219.1 | 175 | |
| 8 | 8.625 | | |
| 250 | 273 | 215 | |
| 10 | 10.75 | | |
| 300 | 323.9 | 220 | |
| 12 | 12.75 | | |

Grooved Tee Standard



| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working Pressure (psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 25 | 33.7 | 57 | 300 |
| 1 | 1.327 | | |
| 32 | 42.4 | 70 | |
| 1 1/4 | 1.669 | | |
| 40 | 48.3 | 70 | |
| 1 1/2 | 1.9 | | |
| 50 | 60.3 | 84 | |
| 2 | 2.375 | | |
| 65 | 73 | 95 | |
| 2 1/2 | 2.875 | | |
| 65 | 76.1 | 95 | |
| 2 1/2 | 3 | | |
| 80 | 88.9 | 108 | |
| 3 | 3.5 | | |
| 100 | 114.3 | 127 | |
| 4 | 4.5 | | |
| 125 | 139.7 | 140 | |
| 5 | 5.5 | | |
| 125 | 141.3 | 140 | |
| 5 | 5.563 | | |
| 150 | 159 | 165 | |
| 6 | 6.25 | | |
| 150 | 165.1 | 165 | |
| 6 | 6.5 | | |
| 150 | 168.3 | 165 | |
| 6 | 6.625 | | |
| 200 | 219.1 | 197 | |
| 8 | 8.625 | | |

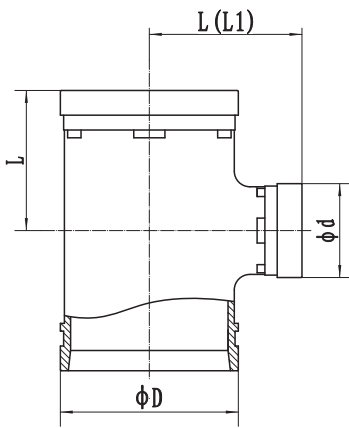
Grooved Reducing Tee



300

| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | | Working pressure (Psi) | |
|--------------------|----------------|------------|----|-----|-----|------------------------|-----|
| | | L (mm) | | | D | | d |
| | | L | L1 | L | mm | | mm |
| 50×32 | 60.3×42.4 | | | 70 | 60 | 42 | 300 |
| 2×1¼ | 2.375×1.669 | | | 70 | 60 | 48 | |
| 50×40 | 60.3×48.3 | | | 76 | 73 | 42 | |
| 2½×1½ | 2.375×1.9 | | | 76 | 73 | 48 | |
| 65×32 | 73×42.4 | | | 76 | 73 | 42 | |
| 2½×1¼ | 2.875×1.669 | | | 76 | 73 | 48 | |
| 65×40 | 73×48.3 | | | 76 | 73 | 60 | |
| 2½×1½ | 2.875×1.9 | | | 76 | 76 | 42 | |
| 65×50 | 73×60.3 | | | 76 | 76 | 48 | |
| 2½×2 | 2.875×2.375 | | | 76 | 76 | 60 | |
| 65×32 | 76.1×42.4 | | | 86 | 89 | 42 | |
| 2½×1¼ | 3×1.669 | | | 86 | 89 | 48 | |
| 65×40 | 76.1×48.3 | | | 86 | 89 | 60 | |
| 2½×1½ | 3×1.9 | | | 86 | 89 | 73 | |
| 65×50 | 76.1×60.3 | | | 86 | 89 | 76 | |
| 2½×2 | 3×2.375 | | | 86 | 89 | 89 | |
| 80×32 | 88.9×42.4 | | | 90 | 98 | 60 | |
| 3×1¼ | 3.5×1.669 | | | 90 | 98 | 73 | |
| 80×40 | 88.9×48.3 | | | 90 | 98 | 76 | |
| 3×1½ | 3.5×1.9 | | | 90 | 98 | 89 | |
| 80×50 | 88.9×60.3 | | | 90 | 98 | 102 | |
| 3×2 | 3.5×2.375 | | | 90 | 98 | 108 | |
| 80×65 | 88.9×73 | | | 90 | 98 | 108 | |
| 3×2½ | 3.5×2.875 | | | 90 | 98 | 114 | |
| 80×65 | 88.9×76.1 | | | 90 | 98 | 114 | |
| 3×2½ | 3.5×3 | | | 90 | 98 | 114 | |
| 100×50 | 108×60.3 | | | 90 | 98 | 114 | |
| 4×2 | 4.25×2.375 | | | 90 | 98 | 114 | |
| 100×65 | 108×73 | | | 90 | 98 | 114 | |
| 4×2½ | 4.25×2.875 | | | 90 | 98 | 114 | |
| 100×65 | 108×76.1 | | | 90 | 98 | 114 | |
| 4×2½ | 4.25×3 | | | 90 | 98 | 114 | |
| 100×80 | 108×88.9 | | | 90 | 98 | 114 | |
| 4×3 | 4.25×3.5 | | | 90 | 98 | 114 | |
| 100×32 | 114.3×42.4 | | | 90 | 98 | 114 | |
| 4×1¼ | 4.5×1.669 | | | 90 | 98 | 114 | |
| 100×40 | 114.3×48.3 | | | 90 | 98 | 114 | |
| 4×1½ | 4.5×1.9 | | | 90 | 98 | 114 | |
| 100×50 | 114.3×60.3 | | | 90 | 98 | 114 | |
| 4×2 | 4.5×2.375 | | | 90 | 98 | 114 | |
| 100×65 | 114.3×73 | | | 90 | 98 | 114 | |
| 4×2½ | 4.5×2.875 | | | 90 | 98 | 114 | |
| 100×65 | 114.3×76.1 | | | 90 | 98 | 114 | |
| 4×2½ | 4.5×3 | | | 90 | 98 | 114 | |
| 100×80 | 114.3×88.9 | | | 90 | 98 | 114 | |
| 4×3 | 4.5×3.5 | | | 90 | 98 | 114 | |
| 125×65 | 133×76.1 | | | 105 | 121 | 133 | |
| 5×2½ | 5.25×3 | | | 105 | 121 | 133 | |
| 125×80 | 133×88.9 | | | 105 | 121 | 133 | |
| 5×3 | 5.25×3.5 | | | 105 | 121 | 133 | |
| 125×100 | 133×108 | | | 105 | 121 | 133 | |
| 5×4 | 5.25×4.25 | | | 105 | 121 | 133 | |
| 125×100 | 133×114.3 | | | 105 | 121 | 133 | |
| 5×4 | 5.25×4.5 | | | 105 | 121 | 133 | |
| 125×50 | 139.7×60.3 | | | 105 | 121 | 140 | |
| 5×2 | 5.5×2.375 | | | 105 | 121 | 140 | |
| 125×65 | 139.7×76.1 | | | 105 | 121 | 140 | |
| 5×2½ | 5.5×3 | | | 105 | 121 | 140 | |
| 125×80 | 139.7×88.9 | | | 105 | 121 | 140 | |
| 5×3 | 5.5×3.5 | | | 105 | 121 | 140 | |
| 125×100 | 139.7×108 | | | 105 | 121 | 140 | |
| 5×4 | 5.5×4.25 | | | 105 | 121 | 140 | |

Grooved Reducing Tee

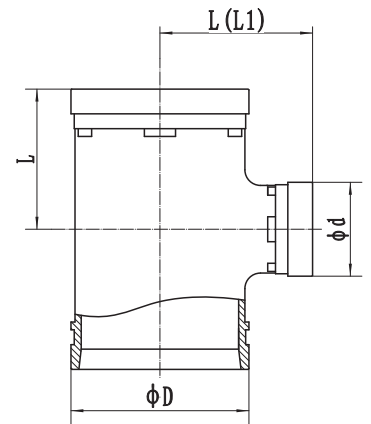


| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | | Working pressure (Psi) | |
|--------------------|---------------------------|------------|-----|-----------|------|------------------------|------|
| | | L (mm) | | | D mm | | d mm |
| | | L | L1 | L | | | |
| | | SHORT | | SHORT (+) | | | |
| 125×100 5×4 | 139.7×114.3 5.5×4.5 | 105 | | 121 | 140 | 114 | |
| 125×125 5×5 | 139.7×133 5.5×5.25 | 105 | | 121 | 140 | 133 | |
| 125×50 5×2 | 141.3×60.3 5.563×2.375 | 105 | | 121 | 141 | 60 | |
| 125×65 5×2½ | 141.3×73 5.563×2.875 | 105 | | 121 | 141 | 73 | |
| 125×80 5×3 | 141.3×88.9 5.563×3.5 | 105 | | 121 | 141 | 89 | |
| 125×100 5×4 | 141.3×114.3 5.563×4.5 | 105 | | 121 | 141 | 114 | |
| 150×65 6×2½ | 159×76.1 6.25×3 | 110 | 120 | 130 | 159 | 76 | |
| 150×80 6×3 | 159×88.9 6.25×3.5 | 110 | 120 | 130 | 159 | 89 | |
| 150×100 6×4 | 159×108 6.25×4.25 | 110 | 120 | 130 | 159 | 108 | |
| 150×100 6×4 | 159×114.3 6.25×4.5 | 110 | 120 | 130 | 159 | 114 | |
| 150×125 6×5 | 159×133 6.25×5.25 | 110 | 120 | 130 | 159 | 133 | |
| 150×125 6×5 | 159×139.7 6.25×5.5 | 110 | 120 | 130 | 159 | 140 | |
| 150×50 6×2 | 165.1×60.3 6.5×2.375 | 110 | 120 | 130 | 165 | 60 | |
| 150×65 6×2½ | 165.1×76.1 6.5×3 | 110 | 120 | 130 | 165 | 76 | |
| 150×80 6×3 | 165.1×88.9 6.5×3.5 | 110 | 120 | 130 | 165 | 89 | |
| 150×100 6×4 | 165.1×108 6.5×4.25 | 110 | 120 | 130 | 165 | 108 | |
| 150×100 6×4 | 165.1×114.3 6.5×4.5 | 110 | 120 | 130 | 165 | 114 | |
| 150×125 6×5 | 165.1×133 6.5×5.25 | 110 | 120 | 130 | 165 | 133 | |
| 150×125 6×5 | 165.1×139.7 6.5×5.5 | 110 | 120 | 130 | 165 | 140 | |
| 150×50 6×2 | 168.3×60.3 6.625×2.375 | 110 | 120 | 140 | 168 | 60 | |
| 150×65 6×2½ | 168.3×76.1 6.625×3 | 110 | 120 | 140 | 168 | 76 | |
| 150×80 6×3 | 168.3×88.9 6.625×3.5 | 110 | 120 | 140 | 168 | 89 | |
| 150×100 6×4 | 168.3×108 6.625×4.25 | 110 | 120 | 140 | 168 | 108 | |
| 150×100 6×4 | 168.3×114.3 6.625×4.5 | 110 | 120 | 140 | 168 | 114 | |
| 150×125 6×5 | 168.3×133 6.625×5.25 | 110 | 120 | 140 | 168 | 133 | |
| 150×125 6×5 | 168.3×139.7 6.625×5.5 | 110 | 120 | 140 | 168 | 140 | |
| 200×65 8×2½ | 219.1×76.1 8.625×3 | 146 | | 174 | 219 | 76 | |
| 200×80 8×3 | 219.1×88.9 8.625×3.5 | 146 | | 174 | 219 | 89 | |
| 200×100 8×4 | 219.1×108 8.625×4.25 | 146 | | 174 | 219 | 108 | |
| 200×100 8×4 | 219.1×114.3 8.625×4.5 | 146 | | 174 | 219 | 114 | |
| 200×125 8×5 | 219.1×133 8.625×5.25 | 146 | | 174 | 219 | 133 | |

300

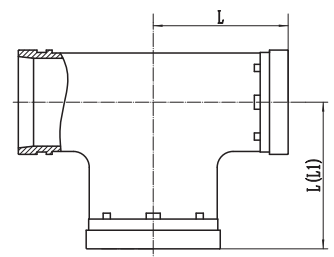
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | | Working pressure (Psi) |
|--------------------|----------------------------|------------|-----|-----|-----|------------------------|
| | | L (mm) | | D | d | |
| | | L | L1 | L | mm | |
| 200×125 8×5 | 219.1×139.7 8.625×5.5 | 146 | 174 | 219 | 140 | 300 |
| 200×150 8×6 | 219.1×159 8.625×6.25 | 146 | 174 | 219 | 159 | |
| 200×150 8×6 | 219.1×165.1 8.625×6.5 | 146 | 174 | 219 | 165 | |
| 250×80 10×3 | 273×88.9 10.75×3.5 | 190 | | 273 | 89 | |
| 250×100 10×4 | 273×108 10.75×4.25 | 190 | | 273 | 108 | |
| 250×100 10×4 | 273×114.3 10.75×4.5 | 190 | | 273 | 114 | |
| 250×125 10×5 | 273×133 10.75×5.25 | 190 | | 273 | 133 | |
| 250×125 10×5 | 273×139.7 10.75×5.5 | 190 | | 273 | 140 | |
| 250×125 10×5 | 273×141.3 10.75×5.563 | 190 | | 273 | 141 | |
| 250×150 10×6 | 273×159 10.75×6.25 | 190 | | 273 | 159 | |
| 250×150 10×6 | 273×165.1 10.75×6.5 | 190 | | 273 | 165 | |
| 250×150 10×6 | 273×168.3 10.75×6.625 | 190 | | 273 | 168 | |
| 250×200 10×8 | 273×219.1 10.75×8.625 | 190 | | 273 | 219 | |
| 300×150 12×6 | 323.9×159 12.75×6.25 | 220 | | 325 | 159 | |
| 300×150 12×6 | 323.9×165.1 12.75×6.5 | 220 | | 325 | 165 | |
| 300×150 12×6 | 323.9×168.3 12.75×6.625 | 220 | | 325 | 168 | |
| 300×200 12×8 | 323.9×219.1 12.75×8.625 | 220 | | 325 | 219 | |
| 300×250 12×10 | 323.9×273 12.75×10.75 | 220 | | 325 | 273 | |

Grooved Reducing Tee

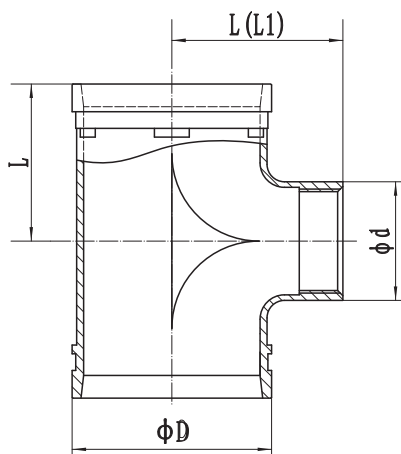


| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Working Pressure (psi) |
|--------------------|------------------------|------------|-----|-----|------------------------|
| | | L (mm) | | D | |
| 80×100 3×4 | 88.9×114.3 3.5×4.5 | 115 | 125 | 89 | 2.5MPa (300PSI) |
| 100×150 4×6 | 114.3×165.1 4.5×6.5 | 140 | | 114 | |
| | | | | 165 | |

Grooved Bullhead Tee



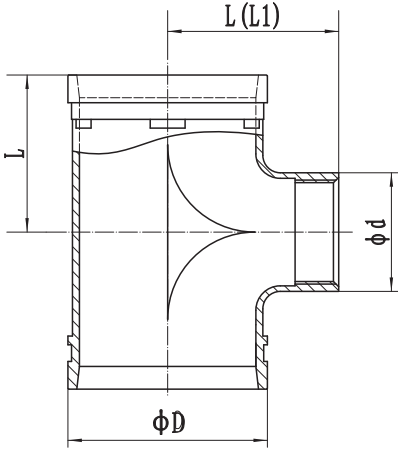
Threaded Reducing Tee



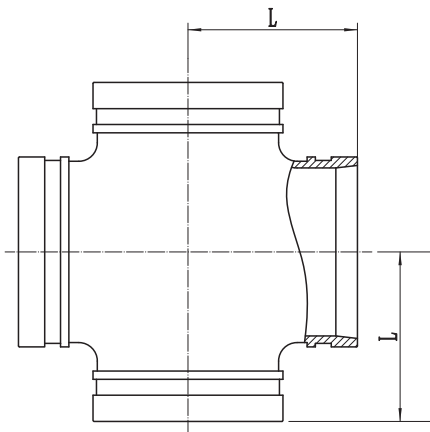
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | | Working pressure Psi |
|--------------------|----------------|------------|----|-----|-----|----------------------|
| | | L (mm) | | D | d | |
| | | L | L1 | mm | mm | |
| 50×25 | 60.3×33.7 | 70 | | 60 | 43 | 300 |
| 2×1 | 2.375×1.327 | 70 | | 60 | 52 | |
| 50×32 | 60.3×42.4 | 70 | | 60 | 58 | |
| 2×1¼ | 2.375×1.669 | 70 | | 60 | 43 | |
| 50×40 | 60.3×48.3 | 76 | | 73 | 43 | |
| 2×1½ | 2.375×1.9 | 76 | | 73 | 52 | |
| 65×25 | 73.0×33.7 | 76 | | 73 | 58 | |
| 2½×1 | 2.875×1.327 | 76 | | 73 | 70 | |
| 65×32 | 73.0×42.4 | 76 | | 73 | 43 | |
| 2½×1¼ | 2.875×1.669 | 76 | | 73 | 52 | |
| 65×40 | 73.0×48.3 | 76 | | 73 | 58 | |
| 2½×1½ | 2.875×1.9 | 76 | | 73 | 70 | |
| 65×50 | 73.0×60.3 | 76 | | 76 | 43 | |
| 2½×2 | 2.875×2.375 | 76 | | 76 | 52 | |
| 65×25 | 76.1×33.7 | 76 | | 76 | 58 | |
| 2½×1 | 3×1.327 | 76 | | 76 | 70 | |
| 65×32 | 76.1×42.4 | 86 | | 89 | 43 | |
| 2½×1¼ | 3×1.669 | 86 | | 89 | 52 | |
| 65×40 | 76.1×48.3 | 86 | | 89 | 56 | |
| 2½×1½ | 3×1.9 | 86 | | 89 | 70 | |
| 65×50 | 76.1×60.3 | 86 | | 89 | 86 | |
| 2½×2 | 3×2.375 | 86 | | 89 | 58 | |
| 80×25 | 88.9×33.7 | 86 | | 89 | 70 | |
| 3×1 | 3.5×1.327 | 86 | | 89 | 86 | |
| 80×32 | 88.9×42.4 | 90 | | 98 | 58 | |
| 3×1¼ | 3.5×1.669 | 90 | | 98 | 70 | |
| 80×40 | 88.9×48.3 | 90 | | 98 | 86 | |
| 3×1½ | 3.5×1.9 | 90 | | 98 | 99 | |
| 80×50 | 88.9×60.3 | 90 | | 114 | 43 | |
| 3×2 | 3.5×2.375 | 90 | | 114 | 52 | |
| 80×65 | 88.9×76.1 | 90 | | 114 | 58 | |
| 3×2½ | 3.5×3 | 90 | | 114 | 70 | |
| 100×40 | 108.0×48.3 | 90 | | 114 | 86 | |
| 4×1½ | 4.25×1.9 | 90 | | 114 | 99 | |
| 100×50 | 108.0×60.3 | 105 | | 133 | 70 | |
| 4×2 | 4.25×2.375 | 105 | | 133 | 86 | |
| 100×65 | 108.0×76.1 | 105 | | 133 | 99 | |
| 4×2½ | 4.25×3 | 105 | | 133 | 124 | |
| 100×80 | 108×88.9 | 105 | | 140 | 58 | |
| 4×3 | 4.25×3.5 | 105 | | 140 | 58 | |
| 100×25 | 114.3×33.7 | 105 | | 140 | 58 | |
| 4×1 | 4.5×1.327 | 105 | | 140 | 58 | |
| 100×32 | 114.3×42.4 | 105 | | 140 | 58 | |
| 4×1¼ | 4.5×1.669 | 105 | | 140 | 58 | |
| 100×40 | 114.3×48.3 | 105 | | 140 | 58 | |
| 4×1½ | 4.5×1.9 | 105 | | 140 | 58 | |
| 100×50 | 114.3×60.3 | 105 | | 140 | 58 | |
| 4×2 | 4.5×2.375 | 105 | | 140 | 58 | |
| 100×65 | 114.3×76.1 | 105 | | 140 | 58 | |
| 4×2½ | 4.5×3 | 105 | | 140 | 58 | |
| 100×80 | 114.3×88.9 | 105 | | 140 | 58 | |
| 4×3 | 4.5×3.5 | 105 | | 140 | 58 | |
| 125×50 | 133.0×60.3 | 105 | | 140 | 58 | |
| 5×2 | 5.25×2.375 | 105 | | 140 | 58 | |
| 125×65 | 133.0×76.1 | 105 | | 140 | 58 | |
| 5×2½ | 5.25×3 | 105 | | 140 | 58 | |
| 125×80 | 133.0×88.9 | 105 | | 140 | 58 | |
| 5×3 | 5.25×3.5 | 105 | | 140 | 58 | |
| 125×100 | 133.0×114.3 | 105 | | 140 | 58 | |
| 5×4 | 5.25×4.5 | 105 | | 140 | 58 | |
| 125×40 | 139.7×48.3 | 105 | | 140 | 58 | |
| 5×1½ | 5.5×1.9 | 105 | | 140 | 58 | |

Threaded Reducing Tee

| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | | Working pressure Psi |
|--------------------|----------------|------------|-----|-----|-----|----------------------|
| | | L (mm) | | D | d | |
| | | L | L1 | mm | mm | |
| 125×50 | 139.7×60.3 | 105 | | 140 | 70 | 300 |
| 5×2 | 5.5×2.375 | 105 | | 140 | 86 | |
| 125×65 | 139.7×76.1 | 105 | | 140 | 99 | |
| 5×2½ | 5.5×3 | 105 | | 140 | 124 | |
| 125×80 | 139.7×88.9 | 105 | | 141 | 58 | |
| 5×3 | 5.5×3.5 | 105 | | 141 | 70 | |
| 125×100 | 139.7×114.3 | 105 | | 141 | 86 | |
| 5×4 | 5.5×4.5 | 105 | | 141 | 99 | |
| 125×40 | 141.3×48.3 | 105 | | 141 | 124 | |
| 5×1½ | 5.563×1.9 | 105 | | 141 | 58 | |
| 125×50 | 141.3×60.3 | 105 | | 141 | 70 | |
| 5×2 | 5.563×2.375 | 105 | | 141 | 86 | |
| 125×65 | 141.3×76.1 | 105 | | 141 | 99 | |
| 5×2½ | 5.563×3 | 105 | | 141 | 124 | |
| 125×80 | 141.3×88.9 | 105 | | 141 | 58 | |
| 5×3 | 5.563×3.5 | 105 | | 141 | 70 | |
| 125×100 | 141.3×114.3 | 105 | | 141 | 86 | |
| 5×4 | 5.563×4.5 | 105 | | 141 | 99 | |
| 150×40 | 159.0×48.3 | 110 | 120 | 159 | 58 | |
| 6×1½ | 6.25×1.9 | 110 | 120 | 159 | 70 | |
| 150×50 | 159.0×60.3 | 110 | 120 | 159 | 86 | |
| 6×2 | 6.25×2.375 | 110 | 120 | 159 | 99 | |
| 150×65 | 159.0×76.1 | 110 | 120 | 159 | 124 | |
| 6×2½ | 6.25×3 | 110 | 120 | 159 | 58 | |
| 150×80 | 159.0×88.9 | 110 | 120 | 159 | 70 | |
| 6×3 | 6.25×3.5 | 110 | 120 | 159 | 86 | |
| 150×100 | 159.0×114.3 | 110 | 120 | 159 | 99 | |
| 6×4 | 6.25×4.5 | 110 | 120 | 159 | 124 | |
| 150×40 | 165.1×48.3 | 110 | 120 | 165 | 58 | |
| 6×1½ | 6.5×1.9 | 110 | 120 | 165 | 70 | |
| 150×50 | 165.1×60.3 | 110 | 120 | 165 | 86 | |
| 6×2 | 6.5×2.375 | 110 | 120 | 165 | 99 | |
| 150×65 | 165.1×76.1 | 110 | 120 | 165 | 124 | |
| 6×2½ | 6.5×3 | 110 | 120 | 165 | 58 | |
| 150×80 | 165.1×88.9 | 110 | 120 | 165 | 70 | |
| 6×3 | 6.5×3.5 | 110 | 120 | 165 | 86 | |
| 150×100 | 165.1×114.3 | 110 | 120 | 165 | 99 | |
| 6×4 | 6.5×4.5 | 110 | 120 | 165 | 124 | |
| 150×40 | 168.3×48.3 | 110 | 120 | 168 | 58 | |
| 6×1½ | 6.625×1.9 | 110 | 120 | 168 | 70 | |
| 150×50 | 168.3×60.3 | 110 | 120 | 168 | 86 | |
| 6×2 | 6.625×2.375 | 110 | 120 | 168 | 99 | |
| 150×65 | 168.3×76.1 | 110 | 120 | 168 | 124 | |
| 6×2½ | 6.625×3 | 110 | 120 | 168 | 58 | |
| 150×80 | 168.3×88.9 | 110 | 120 | 168 | 70 | |
| 6×3 | 6.625×3.5 | 110 | 120 | 168 | 86 | |
| 150×100 | 168.3×114.3 | 110 | 120 | 168 | 99 | |
| 6×4 | 6.625×4.5 | 110 | 120 | 168 | 124 | |
| 200×50 | 219.1×60.3 | 146 | | 219 | 70 | |
| 8×2 | 8.625×2.375 | 146 | | 219 | 86 | |
| 200×50 | 219.1×76.1 | 146 | | 219 | 99 | |
| 8×2½ | 8.625×3 | 146 | | 219 | 124 | |
| 200×80 | 219.1×88.9 | 146 | | 219 | 58 | |
| 8×3 | 8.625×3.5 | 146 | | 219 | 70 | |
| 200×100 | 219.1×114.3 | 146 | | 219 | 86 | |
| 8×4 | 8.625×4.5 | 146 | | 219 | 99 | |



Grooved Cross

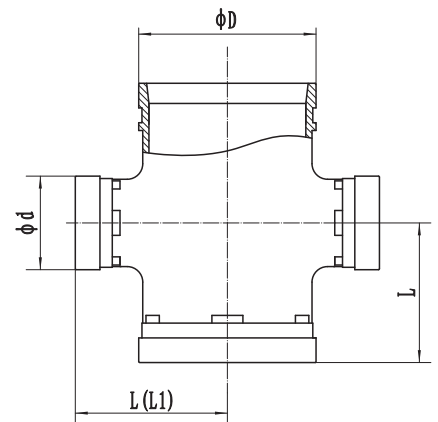


| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | Working Pressure (psi) |
|--------------------|----------------|------------|--|------------------------|
| | | L (mm) | | |
| | | Short | | |
| 50 | 60.3 | 70 | | 300 |
| 2 | 2.375 | 70 | | |
| 65 | 73 | 76 | | |
| 2 1/2 | 2.875 | 76 | | |
| 65 | 76.1 | 76 | | |
| 2 1/2 | 3 | 86 | | |
| 80 | 88.9 | 86 | | |
| 3 | 3.5 | 102 | | |
| 100 | 108 | 102 | | |
| 4 | 4.25 | 102 | | |
| 100 | 114.3 | 121 | | |
| 4 | 4.5 | 121 | | |
| 125 | 133 | 121 | | |
| 5 | 5.25 | 130 | | |
| 125 | 139.7 | 130 | | |
| 5 | 5.5 | 140 | | |
| 150 | 159 | 140 | | |
| 6 | 6.25 | 174 | | |
| 150 | 165.1 | 174 | | |
| 6 | 6.5 | 215 | | |
| 150 | 168.3 | 215 | | |
| 6 | 6.625 | 245 | | |
| 200 | 219.1 | 245 | | |
| 8 | 8.625 | 245 | | |
| 250 | 273 | 245 | | |
| 10 | 10.75 | 245 | | |
| 300 | 323.9 | 245 | | |
| 12 | 12.75 | 245 | | |

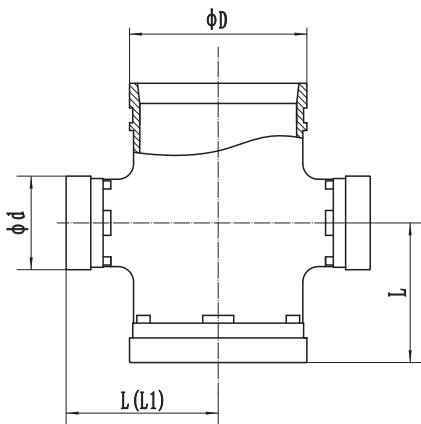
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | Working Pressure (psi) |
|--------------------|----------------|------------|--|------------------------|
| | | L (mm) | | |
| | | Standard | | |
| 50 | 60.3 | 83 | | 300 |
| 2 | 2.375 | 83 | | |
| 65 | 73 | 95 | | |
| 2 1/2 | 2.875 | 95 | | |
| 65 | 76.1 | 95 | | |
| 2 1/2 | 3 | 108 | | |
| 80 | 88.9 | 108 | | |
| 3 | 3.5 | 127 | | |
| 100 | 108 | 127 | | |
| 4 | 4.25 | 127 | | |
| 100 | 114.3 | 140 | | |
| 4 | 4.5 | 140 | | |
| 125 | 133 | 140 | | |
| 5 | 5.25 | 165 | | |
| 125 | 139.7 | 165 | | |
| 5 | 5.5 | 165 | | |
| 150 | 159 | 165 | | |
| 6 | 6.25 | 197 | | |
| 150 | 165.1 | 197 | | |
| 6 | 6.5 | 229 | | |
| 150 | 168.3 | 229 | | |
| 6 | 6.625 | 254 | | |
| 200 | 219.1 | 254 | | |
| 8 | 8.625 | 254 | | |
| 250 | 273 | 254 | | |
| 10 | 10.75 | 254 | | |
| 300 | 323.9 | 254 | | |
| 12 | 12.75 | 254 | | |

| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | | Working pressure (Psi) |
|--------------------|----------------|------------|----|-----|-----|------------------------|
| | | L (mm) | | D | d | |
| | | L | L1 | mm | mm | |
| 65×32 | 73×42.4 | 76 | | 73 | 42 | 300 |
| 2 1/2×1 1/4 | 2.875×1.669 | 76 | | 73 | 48 | |
| 65×40 | 73×48.3 | 76 | | 73 | 60 | |
| 2 1/2×1 1/2 | 2.875×1.9 | 76 | | 76 | 42 | |
| 65×50 | 73×60.3 | 76 | | 76 | 48 | |
| 2 1/2×2 | 2.875×2.375 | 76 | | 76 | 60 | |
| 65×32 | 76.1×42.4 | 76 | | 76 | 42 | |
| 2 1/2×1 1/4 | 3×1.669 | 76 | | 76 | 48 | |
| 65×40 | 76.1×48.3 | 76 | | 76 | 60 | |
| 2 1/2×1 1/2 | 3×1.9 | 76 | | 76 | 42 | |
| 65×50 | 76.1×60.3 | 76 | | 76 | 48 | |
| 2 1/2×2 | 3×2.375 | 76 | | 76 | 60 | |
| 80×32 | 88.9×42.4 | 86 | | 89 | 42 | |
| 3×1 1/4 | 3.5×1.669 | 86 | | 89 | 48 | |
| 80×40 | 88.9×48.3 | 86 | | 89 | 60 | |
| 3×1 1/2 | 3.5×1.9 | 86 | | 89 | 76 | |
| 80×50 | 88.9×60.3 | 86 | | 89 | 42 | |
| 3×2 | 3.5×2.375 | 86 | | 89 | 48 | |
| 80×65 | 88.9×76.1 | 86 | | 89 | 60 | |
| 3×2 1/2 | 3.5×3 | 86 | | 89 | 76 | |
| 100×50 | 108×60.3 | 90 | 98 | 108 | 60 | |
| 4×2 | 4.25×2.375 | 90 | 98 | 108 | 76 | |
| 100×65 | 108×76.1 | 90 | 98 | 108 | 89 | |
| 4×2 1/2 | 4.25×3 | 90 | 98 | 108 | 42 | |
| 100×80 | 108×88.9 | 90 | 98 | 108 | 48 | |
| 4×3 | 4.25×3.5 | 90 | 98 | 114 | 60 | |
| 100×32 | 114.3×42.4 | 90 | 98 | 114 | 76 | |
| 4×1 1/4 | 4.5×1.669 | 90 | 98 | 114 | 89 | |
| 100×40 | 114.3×48.3 | 90 | 98 | 114 | 108 | |
| 4×1 1/2 | 4.5×1.9 | 90 | 98 | 114 | 114 | |
| 100×50 | 114.3×60.3 | 90 | 98 | 114 | 60 | |
| 4×2 | 4.5×2.375 | 90 | 98 | 114 | 76 | |
| 100×65 | 114.3×76.1 | 90 | 98 | 114 | 89 | |
| 4×2 1/2 | 4.5×3 | 90 | 98 | 114 | 108 | |
| 100×80 | 114.3×88.9 | 90 | 98 | 114 | 114 | |
| 4×3 | 4.5×3.5 | 90 | 98 | 114 | 60 | |
| 125×65 | 133×76.1 | 105 | | 133 | 76 | |
| 5×2 1/2 | 5.25×3 | 105 | | 133 | 89 | |
| 125×80 | 133×88.9 | 105 | | 133 | 108 | |
| 5×3 | 5.25×3.5 | 105 | | 133 | 114 | |
| 125×100 | 133×108 | 105 | | 140 | 60 | |
| 5×4 | 5.25×4.25 | 105 | | 140 | 76 | |
| 125×100 | 133×114.3 | 105 | | 140 | 89 | |
| 5×4 | 5.25×4.5 | 105 | | 140 | 108 | |
| 125×50 | 139.7×60.3 | 105 | | 140 | 114 | |
| 5×2 | 5.5×2.375 | 105 | | 141 | 60 | |
| 125×65 | 139.7×76.1 | 105 | | 141 | 73 | |
| 5×2 1/2 | 5.5×3 | 105 | | 141 | 89 | |
| 125×80 | 139.7×88.9 | 105 | | 141 | 108 | |
| 5×3 | 5.5×3.5 | 105 | | 141 | 114 | |
| 125×100 | 139.7×108 | 105 | | 141 | 60 | |
| 5×4 | 5.5×4.25 | 105 | | 141 | 73 | |
| 125×100 | 139.7×114.3 | 105 | | 141 | 89 | |
| 5×4 | 5.5×4.5 | 105 | | 141 | 108 | |
| 125×50 | 141.3×60.3 | 105 | | 141 | 108 | |
| 5×2 | 5.563×2.375 | 105 | | 141 | 108 | |
| 125×65 | 141.3×73 | 105 | | 141 | 108 | |
| 5×2 1/2 | 5.563×2.875 | 105 | | 141 | 108 | |
| 125×80 | 141.3×88.9 | 105 | | 141 | 108 | |
| 5×3 | 5.563×3.5 | 105 | | 141 | 108 | |
| 125×100 | 141.3×108 | 105 | | 141 | 108 | |
| 5×4 | 5.563×4.25 | 105 | | 141 | 108 | |

Grooved Reducing Cross



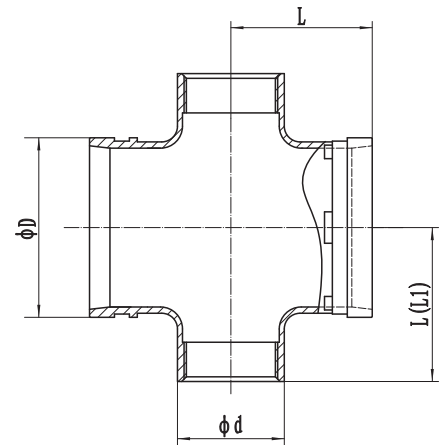
Grooved Reducing Cross



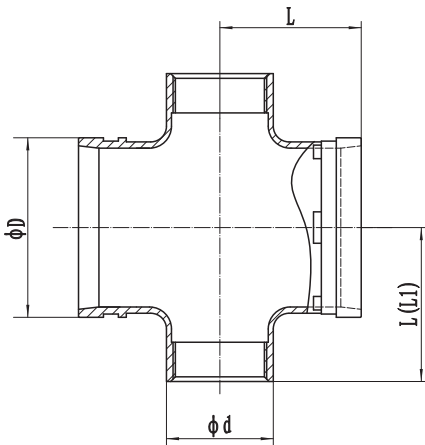
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | | Working pressure (Psi) |
|--------------------|---------------------------|------------|-----|-----|-----|------------------------|
| | | L (mm) | | D | d | |
| | | L | L1 | mm | mm | |
| 125×100 5×4 | 141.3×114.3 5.563×4.5 | 105 | | 141 | 114 | 300 |
| 150×65 6×2½ | 159×76.1 6.25×3 | 110 | 120 | 159 | 76 | |
| 150×80 6×3 | 159×88.9 6.25×3.5 | 110 | 120 | 159 | 89 | |
| 150×100 6×4 | 159×108 6.25×4.25 | 110 | 120 | 159 | 108 | |
| 150×100 6×4 | 159×114.3 6.25×4.5 | 110 | 120 | 159 | 114 | |
| 150×125 6×5 | 159×133 6.25×5.25 | 110 | 120 | 159 | 133 | |
| 150×50 6×2 | 165.1×60.3 6.5×2.375 | 110 | 120 | 165 | 60 | |
| 150×65 6×2½ | 165.1×76.1 6.5×3 | 110 | 120 | 165 | 76 | |
| 150×80 6×3 | 165.1×88.9 6.5×3.5 | 110 | 120 | 165 | 89 | |
| 150×100 6×4 | 165.1×108 6.5×4.25 | 110 | 120 | 165 | 108 | |
| 150×100 6×4 | 165.1×114.3 6.5×4.5 | 110 | 120 | 165 | 114 | |
| 150×125 6×5 | 165.1×133 6.5×5.25 | 110 | 120 | 165 | 133 | |
| 150×125 6×5 | 165.1×139.7 6.5×5.5 | 110 | 120 | 165 | 140 | |
| 150×50 6×2 | 168.3×60.3 6.625×2.375 | 110 | 120 | 168 | 60 | |
| 150×65 6×2½ | 168.3×76.1 6.625×3 | 110 | 120 | 168 | 76 | |
| 150×80 6×3 | 168.3×88.9 6.625×3.5 | 110 | 120 | 168 | 89 | |
| 150×100 6×4 | 168.3×108 6.625×4.25 | 110 | 120 | 168 | 108 | |
| 150×100 6×4 | 168.3×114.3 6.625×4.5 | 110 | 120 | 168 | 114 | |
| 150×125 6×5 | 168.3×133 6.625×5.25 | 110 | 120 | 168 | 133 | |
| 150×125 6×5 | 168.3×139.7 6.625×5.5 | 110 | 120 | 168 | 140 | |
| 200×65 8×2½ | 219.1×76.1 8.625×3 | 146 | | 219 | 76 | |
| 200×80 8×3 | 219.1×88.9 8.625×3.5 | 146 | | 219 | 89 | |
| 200×100 8×4 | 219.1×108 8.625×4.25 | 146 | | 219 | 108 | |
| 200×100 8×4 | 219.1×114.3 8.625×4.5 | 146 | | 219 | 114 | |
| 200×125 8×5 | 219.1×133 8.625×5.25 | 146 | | 219 | 133 | |
| 200×125 8×5 | 219.1×139.7 8.625×5.5 | 146 | | 219 | 140 | |
| 200×150 8×6 | 219.1×159 8.625×6.25 | 146 | | 219 | 159 | |
| 200×150 8×6 | 219.1×165.1 8.625×6.5 | 146 | | 219 | 165 | |

Threaded Reducing Cross

| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | | Working pressure Psi |
|--------------------|----------------|------------|----|-----|-----|----------------------|
| | | L (mm) | | D | d | |
| | | L | L1 | mm | mm | |
| 50×25 | 60.3×33.7 | 70 | | 60 | 43 | 230 |
| 2×1 | 2.375×1.327 | 70 | | 60 | 52 | |
| 50×32 | 60.3×42.4 | 70 | | 60 | 58 | |
| 2×1¼ | 2.375×1.669 | 70 | | 60 | 58 | |
| 50×40 | 60.3×48.3 | 70 | | 60 | 58 | |
| 2×1½ | 2.375×1.9 | 70 | | 60 | 58 | |
| 65×25 | 73.0×33.7 | 76 | | 73 | 43 | |
| 2½×1 | 2.875×1.327 | 76 | | 73 | 43 | |
| 65×32 | 73.0×42.4 | 76 | | 73 | 52 | |
| 2½×1¼ | 2.875×1.669 | 76 | | 73 | 52 | |
| 65×40 | 73.0×48.3 | 76 | | 73 | 58 | |
| 2½×1½ | 2.875×1.9 | 76 | | 73 | 58 | |
| 65×50 | 73.0×60.3 | 76 | | 73 | 70 | |
| 2½×2 | 2.875×2.375 | 76 | | 73 | 70 | |
| 65×25 | 76.1×33.7 | 76 | | 76 | 43 | |
| 2½×1 | 3×1.327 | 76 | | 76 | 43 | |
| 65×32 | 76.1×42.4 | 76 | | 76 | 52 | |
| 2½×1¼ | 3×1.669 | 76 | | 76 | 52 | |
| 65×40 | 76.1×48.3 | 76 | | 76 | 58 | |
| 2½×1½ | 3×1.9 | 76 | | 76 | 58 | |
| 65×50 | 76.1×60.3 | 76 | | 76 | 70 | |
| 2½×2 | 3×2.375 | 76 | | 76 | 70 | |
| 80×25 | 88.9×33.7 | 86 | | 89 | 43 | |
| 3×1 | 3.5×1.327 | 86 | | 89 | 43 | |
| 80×32 | 88.9×42.4 | 86 | | 89 | 52 | |
| 3×1¼ | 3.5×1.669 | 86 | | 89 | 52 | |
| 80×40 | 88.9×48.3 | 86 | | 89 | 58 | |
| 3×1½ | 3.5×1.9 | 86 | | 89 | 58 | |
| 80×50 | 88.9×60.3 | 86 | | 89 | 70 | |
| 3×2 | 3.5×2.375 | 86 | | 89 | 70 | |
| 80×65 | 88.9×76.1 | 86 | | 89 | 86 | |
| 3×2½ | 3.5×3 | 86 | | 89 | 86 | |
| 100×50 | 108.0×60.3 | 90 | 98 | 108 | 70 | |
| 4×2 | 4.25×2.375 | | | | 70 | |
| 100×65 | 108.0×76.1 | 90 | 98 | 108 | 86 | |
| 4×2½ | 4.25×3 | | | | 86 | |
| 100×80 | 108×88.9 | 90 | 98 | 108 | 99 | |
| 4×3 | 4.25×3.5 | | | | 99 | |
| 100×25 | 114.3×33.7 | 90 | 98 | 114 | 43 | |
| 4×1 | 4.5×1.327 | | | | 43 | |
| 100×32 | 114.3×42.4 | 90 | 98 | 114 | 52 | |
| 4×1¼ | 4.5×1.669 | | | | 52 | |
| 100×40 | 114.3×48.3 | 90 | 98 | 114 | 58 | |
| 4×1½ | 4.5×1.9 | | | | 58 | |
| 100×50 | 114.3×60.3 | 90 | 98 | 114 | 70 | |
| 4×2 | 4.5×2.375 | | | | 70 | |
| 100×65 | 114.3×76.1 | 90 | 98 | 114 | 86 | |
| 4×2½ | 4.5×3 | | | | 86 | |
| 100×80 | 114.3×88.9 | 90 | 98 | 114 | 99 | |
| 4×3 | 4.5×3.5 | | | | 99 | |
| 125×40 | 139.7×48.3 | 105 | | 140 | 58 | |
| 5×1½ | 5.5×1.9 | 105 | | 140 | 58 | |
| 125×50 | 139.7×Rc2 | 105 | | 140 | 70 | |
| 5×2 | 5.5×2.375 | 105 | | 140 | 70 | |
| 125×65 | 139.7×76.1 | 105 | | 140 | 86 | |
| 5×2½ | 5.5×3 | 105 | | 140 | 86 | |
| 125×80 | 139.7×88.9 | 105 | | 140 | 99 | |
| 5×3 | 5.5×3.5 | 105 | | 140 | 99 | |
| 125×100 | 139.7×114.3 | 105 | | 140 | 124 | |
| 5×4 | 5.5×4.5 | 105 | | 140 | 124 | |
| 125×40 | 141.3×48.3 | 105 | | 141 | 58 | |
| 5×1½ | 5.563×1.9 | 105 | | 141 | 58 | |



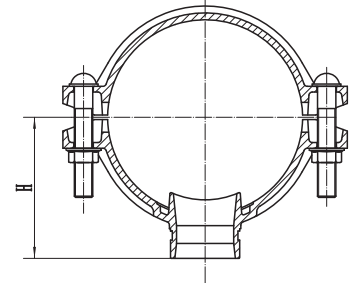
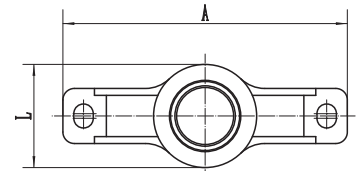
Threaded Reducing Cross



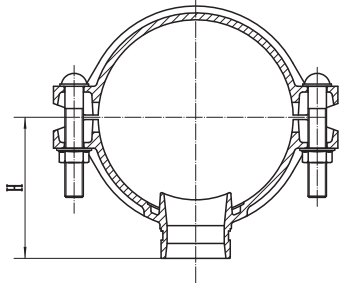
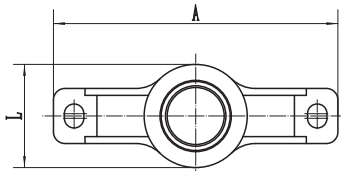
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | | Working pressure Psi |
|--------------------|----------------|------------|-----|-----|-----|----------------------|
| | | L (mm) | | D | d | |
| | | L | L1 | mm | mm | |
| 125×50 | 141.3×60.3 | 105 | | 141 | 70 | 230 |
| 5×2 | 5.563×2.375 | 105 | | 141 | 86 | |
| 125×65 | 141.3×73 | 105 | | 141 | 99 | |
| 5×2½ | 5.563×2.875 | 105 | | 141 | 124 | |
| 125×80 | 141.3×88.9 | 105 | | 141 | 70 | |
| 5×3 | 5.563×3.5 | 105 | | 141 | 86 | |
| 125×100 | 141.3×114.3 | 105 | | 141 | 99 | |
| 5×4 | 5.563×4.5 | 105 | | 141 | 124 | |
| 150×50 | 159.0×60.3 | 110 | 120 | 159 | 70 | |
| 6×2 | 6.250×2.375 | 110 | 120 | 159 | 86 | |
| 150×65 | 159.0×76.1 | 110 | 120 | 159 | 99 | |
| 6×2½ | 6.25×3 | 110 | 120 | 159 | 124 | |
| 150×80 | 159.0×88.9 | 110 | 120 | 159 | 58 | |
| 6×3 | 6.25×3.5 | 110 | 120 | 159 | 70 | |
| 150×100 | 159×114.3 | 110 | 120 | 159 | 86 | |
| 6×4 | 6.25×4.5 | 110 | 120 | 159 | 99 | |
| 150×40 | 165.1×48.3 | 110 | 120 | 165 | 124 | |
| 6×1½ | 6.5×1.9 | 110 | 120 | 165 | 58 | |
| 150×50 | 165.1×60.3 | 110 | 120 | 165 | 70 | |
| 6×2 | 6.5×2.375 | 110 | 120 | 165 | 86 | |
| 150×65 | 165.1×76.1 | 110 | 120 | 165 | 99 | |
| 6×2½ | 6.5×3 | 110 | 120 | 165 | 124 | |
| 150×80 | 165.1×88.9 | 110 | 120 | 165 | 58 | |
| 6×3 | 6.5×3.5 | 110 | 120 | 165 | 70 | |
| 150×100 | 165.1×114.3 | 110 | 120 | 165 | 86 | |
| 6×4 | 6.5×4.5 | 110 | 120 | 165 | 99 | |
| 150×40 | 168.3×48.3 | 110 | 120 | 168 | 124 | |
| 6×1½ | 6.625×1.9 | 110 | 120 | 168 | 58 | |
| 150×50 | 168.3×60.3 | 110 | 120 | 168 | 70 | |
| 6×2 | 6.625×2.375 | 110 | 120 | 168 | 86 | |
| 150×65 | 168.3×76.1 | 110 | 120 | 168 | 99 | |
| 6×2½ | 6.625×3 | 110 | 120 | 168 | 124 | |
| 150×80 | 168.3×88.9 | 110 | 120 | 168 | 58 | |
| 6×3 | 6.625×3.5 | 110 | 120 | 168 | 70 | |
| 150×100 | 168.3×Rc4 | 110 | 120 | 168 | 86 | |
| 6×4 | 6.625×4.5 | 110 | 120 | 168 | 99 | |
| 200×50 | 219.1×60.3 | 146 | | 219 | 70 | |
| 8×2 | 8.625×2.375 | 146 | | 219 | 86 | |
| 200×50 | 219.1×76.1 | 146 | | 219 | 99 | |
| 8×2½ | 8.625×3 | 146 | | 219 | 124 | |
| 200×80 | 219.1×88.9 | 146 | | 219 | 58 | |
| 8×3 | 8.625×3.5 | 146 | | 219 | 70 | |
| 200×100 | 219.1×114.3 | 146 | | 219 | 86 | |
| 8×4 | 8.625×4.5 | 146 | | 219 | 99 | |

Grooved Mechanical Tee

| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Hole Dimension (Φ-mm) | Bolt/Nut No.-size (mm) | Working pressure Psi | |
|--------------------|--------------------------|------------|------|-------|-----------------------|------------------------|----------------------|-----------------------|
| | | A mm | L mm | H mm | | | | |
| 50×25 2×1 | 60.3×33.7 2.375×1.327 | 120 | 64 | 70 | 38 | 3/8×2 (M10×50) | 300 | |
| 50×32 2×1¼ | 60.3×42.4 2.375×1.669 | 120 | 72 | 70 | 46 | | | |
| 50×40 2×1½ | 60.3×48.3 2.375×1.9 | 120 | 72 | 70 | 46 | | | |
| 65×25 2½×1 | 73×33.7 2.875×1.327 | 139 | 64 | 73 | 38 | | | |
| 65×32 2½×1¼ | 73×42.4 2.875×1.669 | 139 | 72 | 73 | 46 | 3/8×2-1/8 (M10×55) | | |
| 65×40 2½×1½ | 73×48.3 2.875×1.9 | 139 | 79 | 75 | 53 | | | |
| 65×25 2½×1 | 76.1×33.7 3×1.327 | 139 | 64 | 73 | 38 | | | |
| 65×32 2½×1¼ | 76.1×42.4 3×1.669 | 139 | 72 | 73 | 46 | | | |
| 65×40 2½×1½ | 76.1×48.3 3×1.9 | 139 | 79 | 75 | 53 | | | |
| 80×25 3×1 | 88.9×33.7 3.5×1.327 | 155 | 64 | 82 | 38 | | | |
| 80×32 3×1¼ | 88.9×42.4 3.5×1.669 | 155 | 72 | 82 | 46 | | | |
| 80×40 3×1½ | 88.9×48.3 3.5×1.9 | 155 | 79 | 82 | 53 | | | |
| 80×50 3×2 | 88.9×60.3 3.5×2.375 | 155 | 90 | 82 | 64 | | | |
| 100×50 4×2 | 108×60.3 4.25×2.375 | 172 | 90 | 92.5 | 64 | | | 1/2×2-5/8 (M12×65) |
| 100×65 4×2½ | 108×76.1 4.25×3 | 172 | 107 | 92.5 | 80 | | | |
| 100×25 4×1 | 114.3×33.7 4.5×1.327 | 181 | 64 | 95.5 | 38 | | | |
| 100×32 4×1¼ | 114.3×42.4 4.5×1.669 | 181 | 72 | 95.5 | 46 | | | |
| 100×40 4×1½ | 114.3×48.3 4.5×1.9 | 181 | 79 | 95.5 | 53 | | | |
| 100×50 4×2 | 114.3×60.3 4.5×2.375 | 181 | 90 | 95.5 | 64 | | | |
| 100×65 4×2½ | 114.3×73 4.5×2.875 | 181 | 117 | 99 | 70 | | | |
| 100×65 4×2½ | 114.3×76.1 4.5×3 | 181 | 117 | 99 | 70 | | | |
| 100×80 4×3 | 114.3×88.9 4.5×3.5 | 181 | 136 | 99 | 89 | | | |
| 125×40 5×1½ | 133×48.3 5.25×1.9 | 205 | 90 | 105.5 | 53 | 1/2×3 (M12×75) | | |
| 125×50 5×2 | 133×60.3 5.25×2.375 | 205 | 100 | 105.5 | 64 | | | |
| 125×65 5×2½ | 133×76.1 5.25×3 | 205 | 117 | 105.5 | 80 | | | |
| 125×80 5×3 | 133×88.9 5.25×3.5 | 205 | 129 | 105.5 | 92 | | | |
| 125×40 5×1½ | 139.7×48.3 5.5×1.9 | 212 | 90 | 109 | 53 | | | |
| 125×50 5×2 | 139.7×60.3 5.5×2.375 | 212 | 100 | 109 | 64 | | | |
| 125×65 5×2½ | 139.7×76.1 5.5×3 | 212 | 117 | 109 | 70 | | | |
| 125×80 5×3 | 139.7×88.9 5.5×3.5 | 212 | 129 | 109 | 89 | | | |
| 125×100 5×4 | 139.7×114.3 5.5×4.5 | 212 | 154 | 113 | 114 | | | |



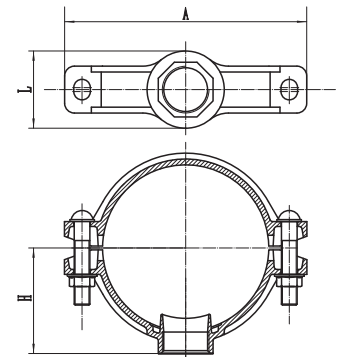
Grooved Mechanical Tee



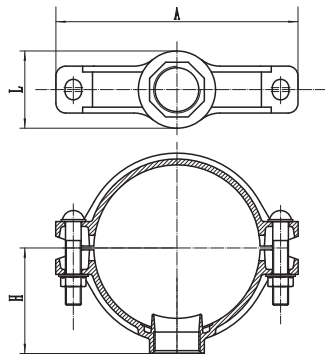
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Hole Dimension (Φ-mm) | Bolt/Nut No.-size (mm) | Working pressure Psi |
|--------------------|----------------|------------|------|-------|-----------------------|------------------------|----------------------|
| | | A mm | L mm | H mm | | | |
| 125×40 | 141.3×48.3 | 212 | 90 | 109 | 53 | 1/2×3 (M12×75) | 300 |
| 5×1½ | 5.563×1.9 | | | | | | |
| 125×50 | 141.3×60.3 | 212 | 100 | 109 | 64 | | |
| 5×2 | 5.563×2.375 | | | | | | |
| 125×65 | 141.3×73 | 212 | 117 | 113 | 70 | | |
| 5×2½ | 5.563×2.875 | | | | | | |
| 125×80 | 141.3×88.9 | 212 | 136 | 113 | 89 | | |
| 5×3 | 5.563×3.5 | | | | | | |
| 150×50 | 159×60.3 | 233 | 100 | 118 | 64 | | |
| 6×2 | 6.25×2.375 | | | | | | |
| 150×65 | 159×76.1 | 233 | 117 | 118 | 80 | | |
| 6×2½ | 6.25×3 | | | | | | |
| 150×80 | 159×88.9 | 233 | 129 | 118 | 92 | | |
| 6×3 | 6.25×3.5 | | | | | | |
| 150×100 | 159×108 | 233 | 143 | 119.5 | 104 | | |
| 6×4 | 6.25×4.25 | | | | | | |
| 150×100 | 159×114.3 | 233 | 153 | 119.5 | 111 | | |
| 6×4 | 6.25×4.5 | | | | | | |
| 150×50 | 165.1×60.3 | 239 | 100 | 121 | 64 | | |
| 6×2 | 6.5×2.375 | | | | | | |
| 150×65 | 165.1×76.1 | 248 | 107 | 126 | 80 | | |
| 6×2½ | 6.5×3 | | | | | | |
| 150×80 | 165.1×88.9 | 239 | 129 | 121 | 92 | | |
| 6×3 | 6.5×3.5 | | | | | | |
| 150×100 | 165.1×108 | 239 | 143 | 122 | 104 | | |
| 6×4 | 6.5×4.25 | | | | | | |
| 150×100 | 165.1×114.3 | 239 | 153 | 122.5 | 114 | | |
| 6×4 | 6.5×4.5 | | | | | | |
| 150×32 | 168.3×42.4 | 248 | 72 | 121 | 46 | | |
| 6×1¼ | 6.625×1.669 | | | | | | |
| 150×40 | 168.3×48.3 | 248 | 79 | 121 | 53 | | |
| 6×1½ | 6.625×1.9 | | | | | | |
| 150×50 | 168.3×60.3 | 239 | 100 | 121 | 64 | | |
| 6×2 | 6.625×2.375 | | | | | | |
| 150×65 | 168.3×73 | 248 | 117 | 127 | 70 | | |
| 6×2½ | 6.625×2.875 | | | | | | |
| 150×65 | 168.3×76.1 | 248 | 117 | 127 | 70 | | |
| 6×2½ | 6.625×3 | | | | | | |
| 150×80 | 168.3×88.9 | 248 | 136 | 127 | 89 | | |
| 6×3 | 6.625×3.5 | | | | | | |
| 150×100 | 168.3×114.3 | 248 | 162 | 129 | 114 | | |
| 6×4 | 6.625×4.5 | | | | | | |
| 200×50 | 219.1×60.3 | 311 | 100 | 147.5 | 64 | | |
| 8×2 | 8.625×2.375 | | | | | | |
| 200×65 | 219.1×73 | 311 | 117 | 154 | 70 | | |
| 8×2½ | 8.625×2.875 | | | | | | |
| 200×65 | 219.1×76.1 | 311 | 117 | 154 | 70 | | |
| 8×2½ | 8.625×3 | | | | | | |
| 200×80 | 219.1×88.9 | 311 | 136 | 154 | 89 | | |
| 8×3 | 8.625×3.5 | | | | | | |
| 200×100 | 219.1×108 | 311 | 143 | 148.5 | 104 | | |
| 8×4 | 8.625×4.25 | | | | | | |
| 200×100 | 219.1×114.3 | 311 | 162 | 156 | 114 | | |
| 8×4 | 8.625×4.5 | | | | | | |
| 200×125 | 219.1×133 | 311 | 168 | 149 | 129 | | |
| 8×5 | 8.625×5.25 | | | | | | |
| 200×125 | 219.1×139.7 | 311 | 178 | 149 | 135 | | |
| 8×5 | 8.625×5.5 | | | | | | |
| 250×100 | 273×114 | 379 | 147 | 177 | 104 | | |
| 10×4 | 10.75×4.5 | | | | | | |

Threaded Mechanical Tee

| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Pipehole Dia (Φ-mm) | Bolt/Nut Size (mm) | Working pressure Psi |
|--------------------|----------------|------------|------|------|---------------------|--------------------|----------------------|
| | | A mm | L mm | H mm | | | |
| 50×15 | 60.3×21.3 | 120 | 54 | 50 | 30 | 3/8×2 (M10×50) | 300 |
| 2×1/2 | 2.375×0.825 | | | | | | |
| 50×20 | 60.3×26.7 | | | | | | |
| 2×3/4 | 2.375×1.05 | | | | | | |
| 50×25 | 60.3×33.7 | 120 | 64 | 50 | 38 | | |
| 2×1 | 2.375×1.327 | | | | | | |
| 50×32 | 60.3×42.4 | 120 | 72 | 55 | 46 | | |
| 2×1 1/4 | 2.375×1.669 | | | | | | |
| 50×40 | 60.3×48.3 | 120 | 72 | 63 | 46 | | |
| 2×1 1/2 | 2.375×1.9 | | | | | | |
| 65×15 | 73×21.3 | 139 | 54 | 58 | 30 | | |
| 2 1/2×1/2 | 2.375×0.825 | | | | | | |
| 65×20 | 73×26.7 | 139 | 54 | 58 | 30 | | |
| 2 1/2×3/4 | 2.875×1.05 | | | | | | |
| 65×25 | 73.0×33.7 | 139 | 65 | 60 | 38 | | |
| 2 1/2×1 | 2.875×1.327 | | | | | | |
| 65×32 | 73.0×42.4 | 139 | 72 | 60 | 46 | | |
| 2 1/2×1 1/4 | 2.875×1.669 | | | | | | |
| 65×40 | 73.0×48.3 | 139 | 79 | 60 | 53 | | |
| 2 1/2×1 1/2 | 2.875×1.9 | | | | | | |
| 65×15 | 76.1×21.3 | 139 | 54 | 58 | 30 | | |
| 2 1/2×1/2 | 3×0.825 | | | | | | |
| 65×20 | 76.1×26.7 | 139 | 54 | 58 | 30 | | |
| 2 1/2×3/4 | 3×1.05 | | | | | | |
| 65×25 | 76.1×33.7 | 139 | 65 | 60 | 38 | | |
| 2 1/2×1 | 3×1.327 | | | | | | |
| 65×32 | 76.1×42.4 | 139 | 72 | 60 | 46 | | |
| 2 1/2×1 1/4 | 3×1.669 | | | | | | |
| 65×40 | 76.1×48.3 | 139 | 79 | 60 | 53 | | |
| 2 1/2×1 1/2 | 3×1.9 | | | | | | |
| 80×15 | 88.9×21.3 | 155 | 59 | 66.5 | 30 | | |
| 3×1/2 | 3.5×0.825 | | | | | | |
| 80×20 | 88.9×26.7 | 155 | 59 | 66.5 | 30 | | |
| 3×3/4 | 3.5×1.05 | | | | | | |
| 80×25 | 88.9×33.7 | 155 | 64 | 67 | 38 | | |
| 3×1 | 3.5×1.327 | | | | | | |
| 80×32 | 88.9×42.4 | 155 | 72 | 67 | 46 | | |
| 3×1 1/4 | 3.5×1.669 | | | | | | |
| 80×40 | 88.9×48.3 | 155 | 79 | 67 | 53 | | |
| 3×1 1/2 | 3.5×1.9 | | | | | | |
| 80×50 | 88.9×60.3 | 155 | 90 | 67 | 64 | | |
| 3×2 | 3.5×2.375 | | | | | | |
| 100×25 | 108.1×33.7 | 167 | 76 | 76 | 38 | | |
| 4×1 | 4.250×1.327 | | | | | | |
| 100×32 | 108.0×42.4 | 167 | 83 | 76 | 46 | | |
| 4×1 1/4 | 4.25×1.669 | | | | | | |
| 100×40 | 108.0×48.3 | 167 | 90 | 76 | 53 | | |
| 4×1 1/2 | 4.25×1.9 | | | | | | |
| 100×50 | 108.0×60.3 | 167 | 100 | 78 | 64 | | |
| 4×2 | 4.25×2.375 | | | | | | |



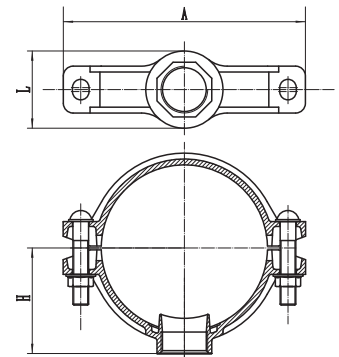
Threaded Mechanical Tee



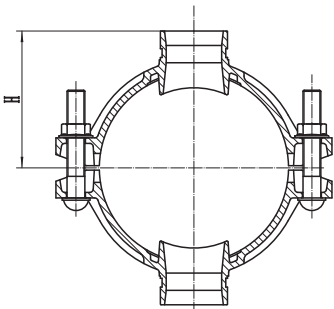
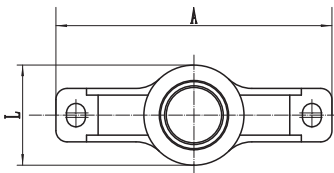
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Pipehole Dia (Φ-mm) | Bolt/Nut Size (mm) | Working pressure Psi |
|--------------------|----------------|------------|------|------|---------------------|--------------------|----------------------|
| | | A mm | L mm | H mm | | | |
| 100×65 | 108.0×76.1 | 167 | 117 | 105 | 80 | 1/2×2-5/8 (M12×65) | 300 |
| 4×2 1/2 | 4.25×3 | | | | | | |
| 100×25 | 114.3×33.7 | 181 | 64 | 79 | 38 | | |
| 4×1 | 4.5×1.327 | | | | | | |
| 100×32 | 114.3×42.4 | 181 | 72 | 79 | 46 | | |
| 4×1 1/4 | 4.5×1.669 | | | | | | |
| 100×40 | 114.3×48.3 | 181 | 79 | 79 | 53 | | |
| 4×1 1/2 | 4.5×1.9 | | | | | | |
| 100×50 | 114.3×60.3 | 181 | 90 | 79 | 64 | | |
| 4×2 | 4.5×2.375 | | | | | | |
| 100×65 | 114.3×76.1 | 181 | 117 | 105 | 70 | | |
| 4×2 1/2 | 4.5×3 | | | | | | |
| 100×80 | 114.3×88.9 | 181 | 129 | 83 | 89 | | |
| 4×3 | 4.5×3.5 | | | | | | |
| 125×25 | 133.0×33.7 | 205 | 76 | 89 | 38 | | |
| 5×1 | 5.250×1.327 | | | | | | |
| 125×32 | 133.0×42.4 | 205 | 83 | 89 | 46 | | |
| 5×1 1/4 | 5.25×1.669 | | | | | | |
| 125×40 | 133.0×48.3 | 205 | 90 | 89 | 53 | | |
| 5×1 1/2 | 5.25×1.9 | | | | | | |
| 125×50 | 133.0×60.3 | 205 | 100 | 89 | 64 | | |
| 5×2 | 5.25×2.375 | | | | | | |
| 125×65 | 133.0×76.1 | 205 | 117 | 92 | 80 | | |
| 5×2 1/2 | 5.25×3 | | | | | | |
| 125×80 | 133.0×88.9 | 205 | 129 | 94 | 92 | | |
| 5×3 | 5.25×3.5 | | | | | | |
| 125×25 | 139.7×33.7 | 212 | 76 | 93 | 38 | | |
| 5×1 | 5.5×1.327 | | | | | | |
| 125×32 | 139.7×42.4 | 212 | 83 | 93 | 46 | | |
| 5×1 1/4 | 5.5×1.669 | | | | | | |
| 125×40 | 139.7×48.3 | 212 | 90 | 93 | 53 | | |
| 5×1 1/2 | 5.5×1.9 | | | | | | |
| 125×50 | 139.7×60.3 | 212 | 100 | 93 | 64 | | |
| 5×2 | 5.5×2.375 | | | | | | |
| 125×65 | 139.7×76.1 | 212 | 117 | 93 | 70 | | |
| 5×2 1/2 | 5.5×3 | | | | | | |
| 125×80 | 139.7×88.9 | 212 | 129 | 95 | 89 | | |
| 5×3 | 5.5×3.5 | | | | | | |
| 125×25 | 141.3×33.7 | 212 | 76 | 93 | 38 | | |
| 5×1 | 5.563×1.327 | | | | | | |
| 125×32 | 141.3×42.4 | 212 | 83 | 93 | 46 | | |
| 5×1 1/4 | 5.563×1.669 | | | | | | |
| 125×40 | 141.3×48.3 | 212 | 90 | 93 | 53 | | |
| 5×1 1/2 | 5.563×1.9 | | | | | | |
| 125×50 | 141.3×60.3 | 212 | 100 | 93 | 64 | | |
| 5×2 | 5.563×2.375 | | | | | | |
| 125×65 | 141.3×76.1 | 212 | 117 | 115 | 70 | | |
| 5×2 1/2 | 5.563×3 | | | | | | |
| 125×80 | 141.3×88.9 | 212 | 136 | 118 | 89 | | |
| 5×3 | 5.563×3.5 | | | | | | |

Threaded Mechanical Tee

| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Pipehole Dia (Φ-mm) | Bolt/Nut Size (mm) | Working pressure Psi |
|--------------------|----------------|------------|------|-------|---------------------|----------------------|----------------------|
| | | A mm | L mm | H mm | | | |
| 150×25 | 159×33.7 | 233 | 76 | 101.5 | 38 | 9/16×3 (M14×75) | 300 |
| 6×1 | 6.250×1.327 | | | | | | |
| 150×32 | 159.0×42.4 | 233 | 83 | 101.5 | 46 | | |
| 6×1¼ | 6.250×1.669 | | | | | | |
| 150×40 | 159.0×48.3 | 233 | 90 | 101.5 | 53 | | |
| 6×1½ | 6.250×1.9 | | | | | | |
| 150×50 | 159.0×60.3 | 233 | 100 | 101.5 | 64 | | |
| 6×2 | 6.250×2.375 | | | | | | |
| 150×65 | 159.0×76.1 | 233 | 117 | 105.5 | 80 | | |
| 6×2½ | 6.250×3 | | | | | | |
| 150×80 | 159.0×88.9 | 233 | 129 | 105.5 | 92 | | |
| 6×3 | 6.250×3.5 | | | | | | |
| 150×100 | 159.0×114.3 | 233 | 157 | 110 | 118 | | |
| 6×4 | 6.250×4.5 | | | | | | |
| 150×25 | 165.1×33.7 | 248 | 64 | 106 | 38 | 5/8×3-1/3 (M16×85) | 300 |
| 6×1 | 6.5×1.327 | | | | | | |
| 150×32 | 165.1×42.4 | 248 | 72 | 106 | 46 | | |
| 6×1¼ | 6.5×1.669 | | | | | | |
| 150×40 | 165.1×48.3 | 248 | 79 | 106 | 53 | | |
| 6×1½ | 6.5×1.9 | | | | | | |
| 150×50 | 165.1×60.3 | 248 | 90 | 106 | 64 | | |
| 6×2 | 6.5×2.375 | | | | | | |
| 150×65 | 165.1×76.1 | 248 | 107 | 106 | 80 | | |
| 6×2½ | 6.5×3 | | | | | | |
| 150×80 | 165.1×88.9 | 248 | 118 | 108 | 92 | | |
| 6×3 | 6.5×3.5 | | | | | | |
| 150×100 | 165.1×114.3 | 239 | 157 | 110 | 118 | | |
| 6×4 | 6.5×4.5 | | | | | | |
| 150×25 | 168.3×33.7 | 248 | 64 | 106 | 38 | 5/8×3-1/3 (M16×85) | 300 |
| 6×1 | 6.625×1.327 | | | | | | |
| 150×32 | 168.3×42.4 | 248 | 72 | 106 | 46 | | |
| 6×1¼ | 6.625×1.669 | | | | | | |
| 150×40 | 168.3×48.3 | 248 | 79 | 106 | 53 | | |
| 6×1½ | 6.625×1.9 | | | | | | |
| 150×50 | 168.3×60.3 | 248 | 90 | 106 | 64 | | |
| 6×2 | 6.625×2.375 | | | | | | |
| 150×65 | 168.3×76.1 | 248 | 117 | 128 | 70 | | |
| 6×2½ | 6.625×3 | | | | | | |
| 150×80 | 168.3×88.9 | 248 | 136 | 131 | 89 | | |
| 6×3 | 6.625×3.5 | | | | | | |
| 150×100 | 168.3×Rc4 | 248 | 162 | 139.5 | 114 | | |
| 6×4 | 6.625×4.5 | | | | | | |
| 200×25 | 219.1×33.7 | 311 | 76 | 131 | 38 | 5/8×3-1/3 (2-M16×85) | 300 |
| 8×1 | 8.625×1.327 | | | | | | |
| 200×32 | 219.1×42.4 | 311 | 83 | 134 | 46 | | |
| 8×1¼ | 8.625×1.669 | | | | | | |
| 200×40 | 219.1×48.3 | 311 | 90 | 134 | 53 | | |
| 8×1½ | 8.625×1.9 | | | | | | |
| 200×50 | 219.1×60.3 | 311 | 100 | 134 | 64 | | |
| 8×2 | 8.625×2.375 | | | | | | |
| 200×65 | 219.1×76.1 | 311 | 117 | 156 | 70 | | |
| 8×2½ | 8.625×3 | | | | | | |
| 200×80 | 219.1×88.9 | 311 | 136 | 158.5 | 89 | | |
| 8×3 | 8.625×3.5 | | | | | | |
| 200×100 | 219.1×114.3 | 311 | 162 | 167 | 114 | | |
| 8×4 | 8.625×4.5 | | | | | | |
| 250×65 | 273.0×76.1 | 379 | 117 | 159 | 80 | 3/4×3-1/2 (M20×90) | 300 |
| 10×2½ | 10.75×3 | | | | | | |
| 250×80 | 273.0×88.9 | 379 | 129 | 162 | 92 | | |
| 10×3 | 10.75×3.5 | | | | | | |



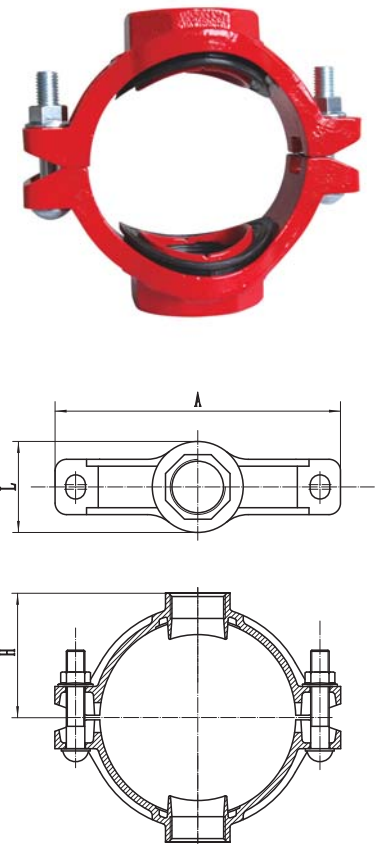
Grooved Mechanical Cross



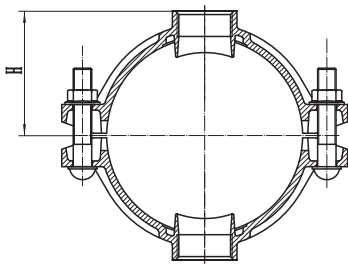
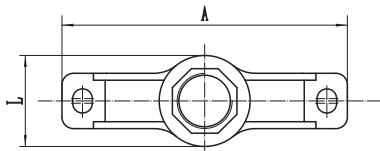
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Hole Dimension (Φ-mm) | Bolt/Nut No.-size (mm) | Working pressure (psi) |
|--------------------|----------------|------------|------|-------|-----------------------|------------------------|------------------------|
| | | A mm | L mm | H mm | | | |
| 65×25 | 76.1×33.7 | 139 | 72 | 73 | 38 | 3/8×2-1/8 (M10×55) | 300 |
| 2 1/2×1 | 3×1.327 | | | | | | |
| 65×32 | 76.1×42.4 | 139 | 83 | 73 | 46 | | |
| 2 1/2×1 1/4 | 3×1.669 | | | | | | |
| 65×40 | 76.1×48.3 | 139 | 90 | 75 | 53 | | |
| 2 1/2×1 1/2 | 3×1.9 | | | | | | |
| 80×32 | 88.9×42.4 | 155 | 83 | 82 | 46 | | |
| 3×1 1/4 | 3.5×1.669 | | | | | | |
| 80×40 | 88.9×48.3 | 155 | 90 | 82 | 53 | | |
| 3×1 1/2 | 3.5×1.9 | | | | | | |
| 80×50 | 88.9×60.3 | 155 | 100 | 82 | 64 | | |
| 3×2 | 3.5×2.375 | | | | | | |
| 100×50 | 108×60.3 | 167 | 100 | 92.5 | 64 | | |
| 4×2 | 4.25×2.375 | | | | | | |
| 100×25 | 114.3×33.7 | 181 | 72 | 95.5 | 38 | | |
| 4×1 | 4.5×1.327 | | | | | | |
| 100×32 | 114.3×42.4 | 181 | 83 | 95.5 | 46 | | |
| 4×1 1/4 | 4.5×1.669 | | | | | | |
| 100×40 | 114.3×48.3 | 181 | 90 | 95.5 | 53 | | |
| 4×1 1/2 | 4.5×1.9 | | | | | | |
| 100×50 | 114.3×60.3 | 181 | 117 | 95.5 | 64 | | |
| 4×2 | 4.5×2.375 | | | | | | |
| 125×40 | 139.7×48.3 | 212 | 90 | 109 | 53 | | |
| 5×1 1/2 | 5.5×1.9 | | | | | | |
| 125×50 | 139.7×60.3 | 212 | 100 | 109 | 64 | | |
| 5×2 | 5.5×2.375 | | | | | | |
| 125×65 | 139.7×76.1 | 212 | 117 | 109 | 70 | | |
| 5×2 1/2 | 5.5×3 | | | | | | |
| 125×40 | 141.3×48.3 | 212 | 90 | 109 | 53 | | |
| 5×1 1/2 | 5.563×1.9 | | | | | | |
| 125×50 | 141.3×60.3 | 212 | 100 | 109 | 64 | | |
| 5×2 | 5.563×2.375 | | | | | | |
| 125×65 | 141.3×73 | 212 | 117 | 113 | 70 | | |
| 5×2 1/2 | 5.563×2.875 | | | | | | |
| 150×50 | 159×60.3 | 233 | 100 | 118 | 64 | | |
| 6×2 | 6.25×2.375 | | | | | | |
| 150×65 | 159×76.1 | 233 | 117 | 118 | 80 | | |
| 6×2 1/2 | 6.25×3 | | | | | | |
| 150×80 | 159×88.9 | 233 | 129 | 118 | 92 | | |
| 6×3 | 6.25×3.5 | | | | | | |
| 150×50 | 165.1×60.3 | 239 | 100 | 121 | 64 | | |
| 6×2 | 6.5×2.375 | | | | | | |
| 150×65 | 165.1×76.1 | 248 | 107 | 126 | 80 | | |
| 6×2 1/2 | 6.5×3 | | | | | | |
| 150×80 | 165.1×88.9 | 239 | 129 | 121 | 92 | | |
| 6×3 | 6.5×3.5 | | | | | | |
| 150×50 | 168.3×60.3 | 239 | 100 | 121 | 64 | | |
| 6×2 | 6.625×2.375 | | | | | | |
| 150×65 | 168.3×76.1 | 248 | 117 | 127 | 70 | | |
| 6×2 1/2 | 6.625×3 | | | | | | |
| 150×80 | 168.3×88.9 | 248 | 136 | 127 | 89 | | |
| 6×3 | 6.625×3.5 | | | | | | |
| 200×50 | 219.1×60.3 | 311 | 100 | 147.5 | 64 | | |
| 8×2 | 8.625×2.375 | | | | | | |
| 200×65 | 219.1×76.1 | 311 | 117 | 147.5 | 70 | | |
| 8×2 1/2 | 8.625×3 | | | | | | |
| 200×80 | 219.1×88.9 | 311 | 129 | 147.5 | 89 | | |
| 8×3 | 8.625×3.5 | | | | | | |
| 200×100 | 219.1×108 | 311 | 143 | 148.5 | 104 | | |
| 8×4 | 8.625×4.25 | | | | | | |
| 200×100 | 219.1×114.3 | 311 | 153 | 149 | 114 | | |
| 8×4 | 8.625×4.5 | | | | | | |

Threaded Mechanical Cross

| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Hole Dimension (Φ-mm) | Bolt/Nut No.-size (mm) | Working pressure (Mpa) |
|--------------------|----------------|------------|------|------|-----------------------|------------------------|------------------------|
| | | A mm | L mm | H mm | | | |
| 65×25 | 76.1×33.7 | 139 | 76 | 60 | 38 | 3/8×2-1/8 (M10×55) | 230 |
| 2 1/2×1 | 3×1.327 | | | | | | |
| 65×32 | 76.1×42.4 | 139 | 83 | 60 | 46 | | |
| 2 1/2×1 1/4 | 3×1.669 | | | | | | |
| 80×25 | 88.9×33.7 | 152 | 76 | 63.5 | 38 | | |
| 3×1 | 3.5×1.327 | | | | | | |
| 80×32 | 88.9×42.4 | 152 | 83 | 64.5 | 46 | | |
| 3×1 1/4 | 3.5×1.669 | | | | | | |
| 80×40 | 88.9×48.3 | 152 | 90 | 65.5 | 53 | | |
| 3×1 1/2 | 3.5×1.9 | | | | | | |
| 100×25 | 108.1×33.7 | 167 | 76 | 76 | 38 | | |
| 4×1 | 4.25×1.327 | | | | | | |
| 100×32 | 108.0×42.4 | 167 | 83 | 76 | 46 | | |
| 4×1 1/4 | 4.25×1.669 | | | | | | |
| 100×40 | 108.0×48.3 | 167 | 90 | 76 | 53 | | |
| 4×1 1/2 | 4.25×1.9 | | | | | | |
| 100×50 | 108.0×60.3 | 167 | 100 | 78 | 64 | | |
| 4×2 | 4.25×2.375 | | | | | | |
| 100×25 | 114.3×33.7 | 181 | 76 | 79 | 38 | | |
| 4×1 | 4.5×1.327 | | | | | | |
| 100×32 | 114.3×42.4 | 181 | 83 | 79 | 46 | | |
| 4×1 1/4 | 4.5×1.669 | | | | | | |
| 100×40 | 114.3×48.3 | 181 | 90 | 79 | 53 | | |
| 4×1 1/2 | 4.5×1.9 | | | | | | |
| 100×50 | 114.3×60.3 | 181 | 100 | 83 | 64 | | |
| 4×2 | 4.5×2.375 | | | | | | |
| 125×25 | 139.7×33.7 | 212 | 76 | 93 | 38 | | |
| 5×1 | 5.5×1.327 | | | | | | |
| 125×32 | 139.7×42.4 | 212 | 83 | 93 | 46 | | |
| 5×1 1/4 | 5.5×1.669 | | | | | | |
| 125×40 | 139.7×48.3 | 212 | 90 | 93 | 53 | | |
| 5×1 1/2 | 5.5×1.9 | | | | | | |
| 125×50 | 139.7×60.3 | 212 | 100 | 93 | 64 | | |
| 5×2 | 5.5×2.375 | | | | | | |
| 125×65 | 139.7×76.1 | 212 | 117 | 93 | 70 | | |
| 5×2 1/2 | 5.5×3 | | | | | | |
| 150×25 | 165.1×33.7 | 248 | 64 | 106 | 38 | | |
| 6×1 | 6.5×1.327 | | | | | | |
| 150×32 | 165.1×42.4 | 248 | 72 | 106 | 46 | | |
| 6×1 1/4 | 6.5×1.669 | | | | | | |
| 150×40 | 165.1×48.3 | 239 | 79 | 106 | 53 | | |
| 6×1 1/2 | 6.5×1.9 | | | | | | |
| 150×50 | 165.1×60.3 | 248 | 90 | 106 | 64 | | |
| 6×2 | 6.5×2.375 | | | | | | |
| 150×65 | 165.1×76.1 | 248 | 107 | 106 | 80 | | |
| 6×2 1/2 | 6.5×3 | | | | | | |
| 150×80 | 165.1×88.9 | 248 | 118 | 108 | 92 | | |
| 6×3 | 6.5×3.5 | | | | | | |
| 150×25 | 168.3×33.7 | 248 | 64 | 106 | 38 | | |
| 6×1 | 6.625×1.327 | | | | | | |
| 150×32 | 168.3×42.4 | 248 | 72 | 106 | 46 | | |
| 6×1 1/4 | 6.625×1.669 | | | | | | |

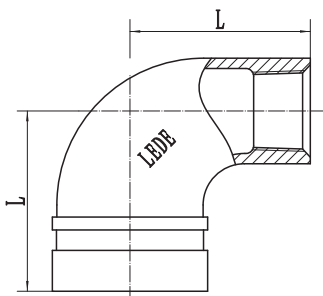


Threaded Mechanical Cross



| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Hole Dimension (Φ-mm) | Bolt/Nut No.-size (mm) | Working pressure (Mpa) |
|--------------------|----------------|------------|------|-------|-----------------------|------------------------|------------------------|
| | | A mm | L mm | H mm | | | |
| 150×40 | 168.3×48.3 | 248 | 79 | 106 | 53 | 230 | |
| 6×1½ | 6.625×1.9 | | | | | | |
| 150×50 | 168.3×60.3 | 248 | 90 | 106 | 64 | | |
| 6×2 | 6.625×2.375 | | | | | | |
| 150×65 | 168.3×76.1 | 248 | 117 | 128 | 70 | | |
| 6×2½ | 6.625×3 | | | | | | |
| 150×80 | 168.3×88.9 | 248 | 136 | 131 | 89 | | |
| 6×3 | 6.625×3.5 | | | | | | |
| 200×25 | 219.1×33.7 | 311 | 76 | 131 | 38 | 230 | |
| 8×1 | 8.625×1.327 | | | | | | |
| 200×32 | 219.1×42.4 | 311 | 83 | 134 | 46 | | |
| 8×1¼ | 8.625×1.669 | | | | | | |
| 200×40 | 219.1×48.3 | 311 | 90 | 134 | 53 | | |
| 8×1½ | 8.625×1.9 | | | | | | |
| 200×50 | 219.1×60.3 | 311 | 100 | 134 | 64 | | |
| 8×2 | 8.625×2.375 | | | | | | |
| 200×65 | 219.1×76.1 | 311 | 117 | 156 | 70 | | |
| 8×2½ | 8.625×3 | | | | | | |
| 200×80 | 219.1×88.9 | 311 | 136 | 158.5 | 89 | | |
| 8×3 | 8.625×3.5 | | | | | | |
| 200×100 | 219.1×114.3 | 311 | 162 | 167 | 114 | | |
| 8×4 | 8.625×4.5 | | | | | | |

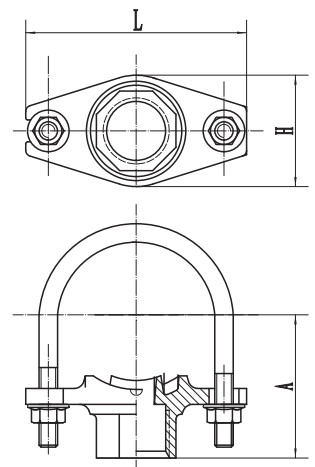
90° Reducing Elbow



| Nominal Size (mm/in) | Dimensions L (mm) | Working Pressure (psi) |
|----------------------|-------------------|------------------------|
| 32×15 | 61 | 300 |
| 1¼×½ | | |
| 32×20 | | |
| 1¼×¾ | | |
| 32×25 | | |
| 1¼×1 | | |
| 40×15 | 64 | |
| 1½×½ | | |
| 40×20 | | |
| 1½×¾ | | |
| 40×25 | | |
| 1½×1 | | |
| 50×15 | 70 | |
| 2×½ | | |
| 50×20 | | |
| 2×¾ | | |
| 50×25 | | |
| 2×1 | | |
| 65×15 | 76 | |
| 2½×½ | | |
| 65×20 | | |
| 2½×¾ | | |
| 65×25 | | |
| 2½×1 | | |

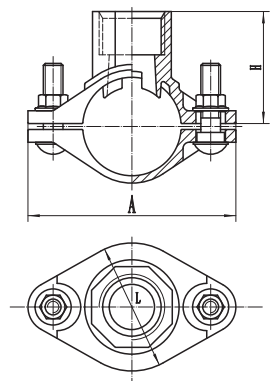
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Bolt inch/mm | Working pressure Psi |
|--------------------|----------------|------------|---------|---------|-------------------------|-------------------------|
| | | A mm | L mm | H mm | | |
| 25×15 | 24.00 | 46 | 74 | 44 | 5/16×1-3/4 (M8×44) | 300 |
| 1×1/2 | 0.95 | | | | | |
| 25×20 | 24.00 | 46 | 74 | 44 | 5/16×1-3/4 (M8×44) | |
| 1×3/4 | 0.95 | | | | | |
| 32×15 | 30.00 | 53 | 89 | 56 | 3/8×3-1/8 (M10×78) | |
| 1 1/4×1/2 | 1.18 | | | | | |
| 32×20 | 30.00 | 53 | 89 | 56 | | |
| 1 1/4×3/4 | 1.18 | | | | | |
| 32×25 | 30.00 | 56 | 89 | 56 | | |
| 1 1/4×1 | 1.18 | | | | | |
| 40×15 | 30.00 | 55 | 89 | 56 | | |
| 1 1/2×1/2 | 1.18 | | | | | |
| 40×20 | 30.00 | 55 | 89 | 56 | | |
| 1 1/2×3/4 | 1.18 | | | | | |
| 40×25 | 30.00 | 58 | 89 | 56 | | |
| 1 1/2×1 | 1.18 | | | | | |
| 50×15 | 30.00 | 64 | 98 | 56 | 3/8×3-3/5 (M10×92) | |
| 2×1/2 | 1.18 | | | | | |
| 50×20 | 30.00 | 64 | 98 | 56 | | |
| 2×3/4 | 1.18 | | | | | |
| 50×25 | 30.00 | 67 | 98 | 56 | | |
| 2×1 | 1.18 | | | | | |
| 65×15 | 30.00 | 69 | 111 | 56 | 3/8×4-1/4 (M10×108) | |
| 2 1/2×1/2 | 1.18 | | | | | |
| 65×20 | 30.00 | 69 | 111 | 56 | | |
| 2 1/2×3/4 | 1.18 | | | | | |
| 65×25 | 30.00 | 72 | 111 | 56 | | |
| 2 1/2×1 | 1.18 | | | | | |
| 80×25 | 30.00 | 80.5 | 128 | 56 | 3/8×4-5/16 (M10×135) | |
| 3×1 | 1.18 | | | | | |

U-Bolt Mechanical Tee

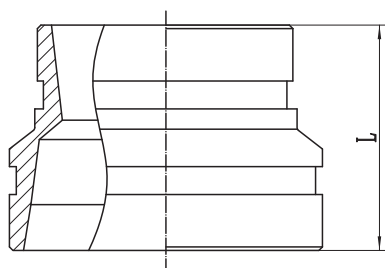


| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Bolt inch/mm | Working pressure Psi |
|--------------------|----------------|------------|---------|---------|-----------------------|-------------------------|
| | | A mm | L mm | H mm | | |
| 25×15 | 24.00 | 93 | 48 | 28 | 3/8×1-1/2 (M10×40) | 300 |
| 1×1/2 | 0.95 | | | | | |
| 32×15 | 30.00 | 98 | 65 | 45 | | |
| 1 1/4×1/2 | 1.18 | | | | | |
| 32×20 | 30.00 | 98 | 65 | 45 | | |
| 1 1/4×3/4 | 1.18 | | | | | |
| 32×25 | 30.00 | 98 | 65 | 54 | | |
| 1 1/4×1 | 1.18 | | | | | |
| 40×15 | 30.00 | 105.6 | 65 | 48 | | |
| 1 1/2×1/2 | 1.18 | | | | | |
| 40×20 | 30.00 | 105.6 | 65 | 48 | | |
| 1 1/2×3/4 | 1.18 | | | | | |
| 40×25 | 30.00 | 105.6 | 65 | 57 | | |
| 1 1/2×1 | 1.18 | | | | | |
| 50×15 | 30.00 | 120 | 56 | 53 | 3/8×2-1/8 (M10×55) | |
| 2×1/2 | 1.18 | | | | | |
| 50×20 | 30.00 | 120 | 56 | 54 | | |
| 2×3/4 | 1.18 | | | | | |
| 65×15 | 30.00 | 139 | 56 | 61 | | |
| 2 1/2×1/2 | 1.18 | | | | | |
| 65×20 | 30.00 | 139 | 56 | 61 | | |
| 2 1/2×3/4 | 1.18 | | | | | |

Small Threaded Mechanical Tee



Grooved Reducer



| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working pressure (Psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 40×32 | 48.3×42.4 | 64 | 300 |
| 1½×1¼ | 1.9×1.669 | 64 | |
| 50×32 | 60.3×42.4 | | |
| 2×1¼ | 2.375×1.669 | 64 | |
| 50×40 | 60.3×48.3 | | |
| 2×1½ | 2.375×1.9 | 64 | |
| 65×32 | 73×42.4 | | |
| 2½×1¼ | 2.875×1.669 | 64 | |
| 65×40 | 73×48.3 | | |
| 2½×1½ | 2.875×1.9 | 64 | |
| 65×50 | 73×60.3 | | |
| 2½×2 | 2.875×2.375 | 64 | |
| 65×40 | 76.1×48.3 | | |
| 2½×1½ | 3×1.9 | 64 | |
| 65×50 | 76.1×60.3 | | |
| 2½×2 | 3×2.375 | 64 | |
| 80×32 | 88.9×42.4 | | |
| 3×1¼ | 3.5×1.669 | 64 | |
| 80×40 | 88.9×48.3 | | |
| 3×1½ | 3.5×1.9 | 64 | |
| 80×50 | 88.9×60.3 | | |
| 3×2 | 3.5×2.375 | 64 | |
| 80×65 | 88.9×73 | | |
| 3×2½ | 3.5×2.875 | 64 | |
| 80×65 | 88.9×76.1 | | |
| 3×2½ | 3.5×3 | 64 | |
| 100×50 | 108×60.3 | | |
| 4×2 | 4.25×2.375 | 76 | |
| 100×65 | 108×73 | | |
| 4×2½ | 4.25×2.875 | 76 | |
| 100×65 | 108×76.1 | | |
| 4×2½ | 4.25×3 | 76 | |
| 100×80 | 108×88.9 | | |
| 4×3 | 4.25×3.5 | 76 | |
| 100×32 | 114.3×42.4 | | |
| 4×1¼ | 4.5×1.669 | 76 | |
| 100×40 | 114.3×48.3 | | |
| 4×1½ | 4.5×1.9 | 76 | |
| 100×50 | 114.3×60.3 | | |
| 4×2 | 4.5×2.375 | 76 | |
| 100×65 | 114.3×73 | | |
| 4×2½ | 4.5×2.875 | 76 | |
| 100×65 | 114.3×76.1 | | |
| 4×2½ | 4.5×3 | 76 | |
| 100×80 | 114.3×88.9 | | |
| 4×3 | 4.5×3.5 | 76 | |
| 125×50 | 133×60.3 | | |
| 5×2 | 5.25×2.375 | 85 | |
| 125×65 | 133×73 | | |
| 5×2½ | 5.25×2.875 | 85 | |
| 125×65 | 133×76.1 | | |
| 5×2½ | 5.25×3 | 85 | |
| 125×80 | 133×88.9 | | |
| 5×3 | 5.25×3.5 | 85 | |
| 125×100 | 133×108 | | |
| 5×4 | 5.25×4.25 | 85 | |
| 125×100 | 133×114.3 | | |
| 5×4 | 5.25×4.5 | 85 | |
| 125×50 | 139.7×60.3 | | |
| 5×2 | 5.5×2.375 | 85 | |
| 125×65 | 139.7×73 | | |
| 5×2½ | 5.5×2.875 | 85 | |

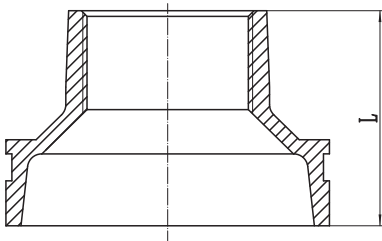
Grooved Reducer



| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working pressure (Psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 125×65 | 139.7×76.1 | 85 | 300 |
| 5×2½ | 5.5×3 | | |
| 125×80 | 139.7×88.9 | 85 | |
| 5×3 | 5.5×3.5 | | |
| 125×100 | 139.7×108 | 85 | |
| 5×4 | 5.5×4.25 | | |
| 125×100 | 139.7×114.3 | 85 | |
| 5×4 | 5.5×4.5 | | |
| 125×50 | 141.3×60.3 | 85 | |
| 5×2 | 5.563×2.375 | | |
| 125×65 | 141.3×73 | 85 | |
| 5×2½ | 5.563×2.875 | | |
| 125×65 | 141.3×76.1 | 85 | |
| 5×2½ | 5.563×3 | | |
| 125×80 | 141.3×88.9 | 85 | |
| 5×3 | 5.563×3.5 | | |
| 125×100 | 141.3×114.3 | 85 | |
| 5×4 | 5.563×4.5 | | |
| 150×50 | 159×60.3 | 85 | |
| 6×2 | 6.25×2.375 | | |
| 150×65 | 159×73 | 85 | |
| 6×2½ | 6.25×2.875 | | |
| 150×65 | 159×76.1 | 85 | |
| 6×2½ | 6.25×3 | | |
| 150×80 | 159×88.9 | 85 | |
| 6×3 | 6.25×3.5 | | |
| 150×100 | 159×108 | 85 | |
| 6×4 | 6.25×4.25 | | |
| 150×100 | 159×114.3 | 85 | |
| 6×4 | 6.25×4.5 | | |
| 150×125 | 159×133 | 85 | |
| 6×5 | 6.25×5.25 | | |
| 150×125 | 159×139.7 | 85 | |
| 6×5 | 6.25×5.5 | | |
| 150×50 | 165.1×60.3 | 85 | |
| 6×2 | 6.5×2.375 | | |
| 150×65 | 165.1×73 | 85 | |
| 6×2½ | 6.5×2.875 | | |
| 150×65 | 165.1×76.1 | 85 | |
| 6×2½ | 6.5×3 | | |
| 150×80 | 165.1×88.9 | 85 | |
| 6×3 | 6.5×3.5 | | |
| 150×100 | 165.1×108 | 85 | |
| 6×4 | 6.5×4.25 | | |
| 150×100 | 165.1×114.3 | 85 | |
| 6×4 | 6.5×4.5 | | |
| 150×125 | 165.1×133 | 85 | |
| 6×5 | 6.5×5.25 | | |
| 150×125 | 165.1×139.7 | 85 | |
| 6×5 | 6.5×5.5 | | |
| 150×50 | 168.3×60.3 | 85 | |
| 6×2 | 6.63×2.375 | | |
| 150×65 | 168.3×73 | 85 | |
| 6×2½ | 6.625×2.875 | | |
| 150×65 | 168.3×76.1 | 85 | |
| 6×2½ | 6.625×3.375 | | |
| 150×80 | 168.3×88.9 | 85 | |
| 6×3 | 6.625×3.5 | | |
| 150×100 | 168.3×114.3 | 85 | |
| 6×4 | 6.625×4.5 | | |
| 150×125 | 168.3×139.7 | 85 | |
| 6×5 | 6.625×5.5 | | |

| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working pressure (Psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 200×65 | 219.1×76.1 | 85 | 300 |
| 8×2½ | 8.63×3 | | |
| 200×80 | 219.1×88.9 | 85 | |
| 8×3 | 8.625×3.5 | | |
| 200×100 | 219.1×108 | 85 | |
| 8×4 | 8.625×4.25 | | |
| 200×100 | 219.1×114.3 | 85 | |
| 8×4 | 8.625×4.5 | | |
| 200×125 | 219.1×139.7 | 85 | |
| 8×5 | 8.625×5.5 | | |
| 200×150 | 219.1×159 | 85 | |
| 8×6 | 8.625×6.25 | | |
| 200×150 | 219.1×165.1 | 85 | |
| 8×6 | 8.63×6.5 | | |
| 200×150 | 219.1×168.3 | 85 | |
| 8×6 | 8.625×6.63 | | |
| 250×100 | 273×108 | 90 | |
| 10×4 | 10.75×4.25 | | |
| 250×100 | 273×114.3 | 90 | |
| 10×4 | 10.75×4.5 | | |
| 250×125 | 273×133 | 90 | |
| 10×5 | 10.75×5.25 | | |
| 250×125 | 273×139.7 | 90 | |
| 10×5 | 10.75×5.5 | | |
| 250×150 | 273×159 | 90 | |
| 10×6 | 10.75×6.25 | | |
| 250×150 | 273×165.1 | 90 | |
| 10×6 | 10.75×6.5 | | |
| 250×200 | 273×219.1 | 90 | |
| 10×8 | 10.75×8.625 | | |
| 300×100 | 323.9×114.3 | 90 | |
| 12×4 | 12.75×4.5 | | |
| 300×125 | 323.9×133 | 90 | |
| 12×5 | 12.75×5.25 | | |
| 300×125 | 323.9×139.7 | 90 | |
| 12×5 | 12.75×5.5 | | |
| 300×150 | 323.9×159 | 90 | |
| 12×6 | 12.75×6.25 | | |
| 300×150 | 323.9×165.1 | 90 | |
| 12×6 | 12.75×6.625 | | |
| 300×200 | 323.9×219.1 | 90 | |
| 12×8 | 12.75×8.63 | | |
| 300×250 | 323.9×273 | 90 | |
| 12×10 | 12.75×10.75 | | |

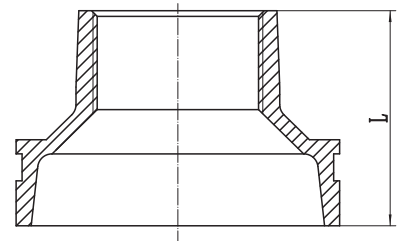
Threaded Reducer



| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working pressure (Psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 50×25 | 60.3×33.7 | 64 | 230 |
| 2×1 | 2.375×1.327 | | |
| 50×32 | 60.3×42.4 | 64 | |
| 2×1¼ | 2.375×1.669 | | |
| 50×40 | 60.3×48.3 | 64 | |
| 2×1½ | 2.375×1.9 | | |
| 65×25 | 73×33.7 | 64 | |
| 2½×1 | 2.875×1.327 | | |
| 65×32 | 73×42.4 | 64 | |
| 2½×1¼ | 2.875×1.669 | | |
| 65×40 | 73×48.3 | 64 | |
| 2½×1½ | 2.875×1.9 | | |
| 65×50 | 73×60.3 | 64 | |
| 2½×2 | 2.875×2.375 | | |
| 65×25 | 76.1×33.7 | 64 | |
| 2½×1 | 3×1.327 | | |
| 65×32 | 76.1×42.4 | 64 | |
| 2½×1¼ | 3×1.669 | | |
| 65×40 | 76.1×48.3 | 64 | |
| 2½×1½ | 3×1.9 | | |
| 65×50 | 76.1×60.3 | 64 | |
| 2½×2 | 3×2.375 | | |
| 80×25 | 88.9×33.7 | 64 | |
| 3×1 | 3.5×1.327 | | |
| 80×32 | 88.9×42.4 | 64 | |
| 3×1¼ | 3.5×1.669 | | |
| 80×40 | 88.9×48.3 | 64 | |
| 3×1½ | 3.5×1.9 | | |
| 80×50 | 88.9×60.3 | 64 | |
| 3×2 | 3.5×2.375 | | |
| 80×65 | 88.9×76.1 | 64 | |
| 3×2½ | 3.5×3 | | |
| 100×25 | 108.0×33.7 | 76 | |
| 4×1 | 4.25×1.327 | | |
| 100×32 | 108.0×42.4 | 76 | |
| 4×1¼ | 4.25×1.669 | | |
| 100×40 | 108.0×48.3 | 76 | |
| 4×1½ | 4.25×1.9 | | |
| 100×50 | 108.0×60.3 | 76 | |
| 4×2 | 4.25×2.375 | | |
| 100×65 | 108.0×76.1 | 76 | |
| 4×2½ | 4.25×3 | | |
| 100×80 | 108×88.9 | 76 | |
| 4×3 | 4.25×3.5 | | |
| 100×25 | 114.3×33.7 | 76 | |
| 4×1 | 4.5×1.327 | | |
| 100×32 | 114.3×42.4 | 76 | |
| 4×1¼ | 4.5×1.669 | | |
| 100×40 | 114.3×48.3 | 76 | |
| 4×1½ | 4.5×1.9 | | |
| 100×50 | 114.3×60.3 | 76 | |
| 4×2 | 4.5×2.375 | | |
| 100×65 | 114.3×76.1 | 76 | |
| 4×2½ | 4.5×3 | | |
| 100×80 | 114.3×88.9 | 76 | |
| 4×3 | 4.5×3.5 | | |
| 125×25 | 133.0×Rc1 | 85 | |
| 5×1 | 5.25×1.327 | | |
| 125×32 | 133.0×42.4 | 85 | |
| 5×1¼ | 5.25×1.669 | | |
| 125×40 | 133.0×48.3 | 85 | |
| 5×1½ | 5.25×1.9 | | |

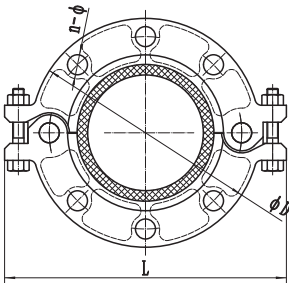
Threaded Reducer

| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working pressure (Psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 125×50 | 133.0×60.3 | 85 | 230 |
| 5×2 | 5.25×2.375 | | |
| 125×65 | 133.0×76.1 | 85 | |
| 5×2½ | 5.25×3 | | |
| 125×80 | 133.0×88.9 | 85 | |
| 5×3 | 5.25×3.5 | | |
| 125×25 | 139.7×33.7 | 85 | |
| 5×1 | 5.5×1.327 | | |
| 125×32 | 139.7×42.4 | 85 | |
| 5×1¼ | 5.5×1.669 | | |
| 125×40 | 139.7×48.3 | 85 | |
| 5×1½ | 5.5×1.9 | | |
| 125×50 | 139.7×60.3 | 85 | |
| 5×2 | 5.5×2.375 | | |
| 125×65 | 139.7×76.1 | 85 | |
| 5×2½ | 5.5×3 | | |
| 125×80 | 139.7×88.9 | 85 | |
| 5×3 | 5.5×3.5 | | |
| 125×100 | 139.7×114.3 | 85 | |
| 5×4 | 5.5×4.5 | | |
| 125×25 | 141.3×33.7 | 85 | |
| 5×1 | 5.563×1.327 | | |
| 125×32 | 141.3×42.4 | 85 | |
| 5×1¼ | 5.563×1.669 | | |
| 125×40 | 141.3×48.3 | 85 | |
| 5×1½ | 5.563×1.9 | | |
| 125×50 | 141.3×60.3 | 85 | |
| 5×2 | 5.563×2.375 | | |
| 125×65 | 141.3×76.1 | 85 | |
| 5×2½ | 5.563×3 | | |
| 125×80 | 141.3×88.9 | 85 | |
| 5×3 | 5.563×3.5 | | |
| 125×80 | 141.3×Rc | 85 | |
| 5×3 | 5.563×4.5 | | |
| 150×25 | 159×33.7 | 85 | |
| 6×1 | 6.25×1.327 | | |
| 150×32 | 159.0×42.4 | 85 | |
| 6×1¼ | 6.25×1.669 | | |
| 150×40 | 159.0×48.3 | 85 | |
| 6×1½ | 6.25×1.9 | | |
| 150×50 | 159.0×60.3 | 85 | |
| 6×2 | 6.25×2.375 | | |
| 150×65 | 159.0×76.1 | 85 | |
| 6×2½ | 6.250×3 | | |
| 150×80 | 159.0×88.9 | 85 | |
| 6×3 | 6.25×3.5 | | |
| 150×100 | 159.0×114.3 | 85 | |
| 6×4 | 6.25×4.5 | | |
| 150×25 | 165.1×33.7 | 85 | |
| 6×1 | 6.5×1.327 | | |
| 150×32 | 165.1×42.4 | 85 | |
| 6×1¼ | 6.5×1.669 | | |
| 150×40 | 165.1×48.3 | 85 | |
| 6×1½ | 6.5×1.9 | | |
| 150×50 | 165.1×60.3 | 85 | |
| 6×2 | 6.5×2.375 | | |
| 150×65 | 165.1×76.1 | 85 | |
| 6×2½ | 6.5×3 | | |
| 150×80 | 165.1×88.9 | 85 | |
| 6×3 | 6.5×3.5 | | |
| 150×100 | 165.1×114.3 | 85 | |
| 6×4 | 6.5×4.5 | | |



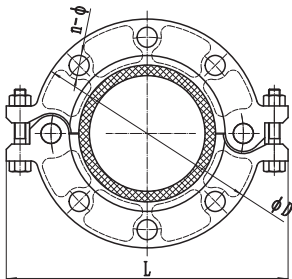
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working pressure (Psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 150×25 | 168.3×33.7 | 85 | 230 |
| 6×1 | 6.625×1.327 | | |
| 150×32 | 168.3×42.4 | 85 | |
| 6×1¼ | 6.625×1.669 | | |
| 150×40 | 168.3×48.3 | 85 | |
| 6×1½ | 6.625×1.9 | | |
| 150×50 | 168.3×60.3 | 85 | |
| 6×2 | 6.625×2.375 | | |
| 150×65 | 168.3×76.1 | 85 | |
| 6×2½ | 6.625×3 | | |
| 150×80 | 168.3×88.9 | 85 | |
| 6×3 | 6.625×3.5 | | |
| 150×100 | 168.3×114.3 | 85 | |
| 6×4 | 6.625×4.5 | | |
| 200×25 | 219.1×33.7 | 85 | |
| 8×1 | 8.625×1.327 | | |
| 200×32 | 219.1×42.4 | 85 | |
| 8×1¼ | 8.625×1.669 | | |
| 200×40 | 219.1×48.3 | 85 | |
| 8×1½ | 8.625×1.9 | | |
| 200×50 | 219.1×60.3 | 85 | |
| 8×2 | 8.625×2.375 | | |
| 200×65 | 219.1×76.1 | 85 | |
| 8×2½ | 8.625×3 | | |
| 200×80 | 219.1×88.9 | 85 | |
| 8×3 | 8.625×3.5 | | |
| 200×100 | 219.1×114.3 | 85 | |
| 8×4 | 8.625×4.5 | | |

Grooved Flange PN16



| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Bolt/Nut No.-size (mm) | Working pressure (Psi) |
|--------------------|----------------|------------|------|-------|------------------------|------------------------|
| | | D mm | L mm | n-Φ | | |
| 50 | 60.3 | 164 | 210 | 4-18 | 3/8×2-3/4 (M10×70) | 230 |
| 2 | 2.375 | | | | | |
| 65 | 73 | 182 | 240 | 8-18 | | |
| 2 1/2 | 2.875 | | | | | |
| 65 | 76.1 | 182 | 240 | 8-18 | | |
| 2 1/2 | 3 | | | | | |
| 80 | 88.9 | 194 | 250 | 8-18 | | |
| 3 | 3.5 | | | | | |
| 100 | 108 | 216 | 266 | 8-18 | | |
| 4 | 4.25 | | | | | |
| 100 | 114.3 | 216 | 266 | 8-18 | | |
| 4 | 4.5 | | | | | |
| 125 | 133 | 247 | 300 | 8-18 | | |
| 5 | 5.25 | | | | | |
| 125 | 139.7 | 247 | 300 | 8-18 | | |
| 5 | 5.5 | | | | | |
| 125 | 141.3 | 247 | 300 | 8-18 | | |
| 5 | 5.563 | | | | | |
| 150 | 159 | 282 | 336 | 8-22 | 1/2×2-3/4 (M12×70) | |
| 6 | 6.25 | | | | | |
| 150 | 165.1 | 282 | 336 | 8-22 | | |
| 6 | 6.5 | | | | | |
| 150 | 168.3 | 282 | 336 | 8-22 | | |
| 6 | 6.625 | | | | | |
| 200 | 219.1 | 335 | 395 | 12-22 | 1/2×3-1/8 (M12×80) | |
| 8 | 8.625 | | | | | |
| 250 | 273 | | | | | |
| 14 | 10.75 | 404 | 470 | 12-26 | | |

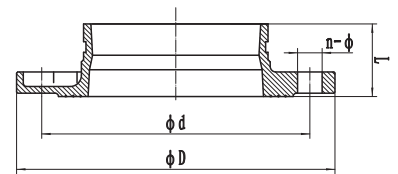
Grooved Flange ANSI125/150



| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | Bolt/Nut No.-size (mm) | Working pressure (Psi) |
|--------------------|----------------|------------|------|-------|------------------------|------------------------|
| | | D mm | L mm | n-Φ | | |
| 50 | 60.3 | 164 | 210 | 4-18 | 3/8×2-1/8 (M10×55) | 250 |
| 2 | 2.375 | | | | | |
| 65 | 73 | 176 | 240 | 4-18 | 3/8×2-3/4 (M10×70) | |
| 2 1/2 | 2.875 | | | | | |
| 80 | 88.9 | 192 | 250 | 4-18 | | |
| 3 | 3.5 | | | | | |
| 100 | 114.3 | 224 | 278 | 8-18 | | |
| 4 | 4.5 | | | | | |
| 125 | 141.3 | 254 | 310 | 8-22 | | |
| 5 | 5.563 | | | | | |
| 150 | 168.3 | 282 | 336 | 8-22 | 1/2×3-1/8 (M12×80) | |
| 6 | 6.625 | | | | | |
| 200 | 219.1 | 343 | 395 | 8-22 | | |
| 8 | 8.625 | | | | | |
| 250 | 273 | 362 | 503 | 12-26 | 1/2×4 (M16×100) | |
| 14 | 10.75 | | | | | |
| 300 | 323.9 | 432 | 580 | 12-26 | | |
| 16 | 12.75 | | | | | |

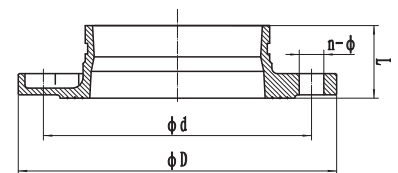
| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | | | | Working pressure (Psi) |
|--------------------|----------------|------------|-------|------|--------|------------------------|
| | | ΦD mm | Φd mm | H mm | n-Φ mm | |
| 50 | 60.30 | 165 | 125 | 60 | 4-18 | 230 |
| 2 | 2.38 | | | | | |
| 65 | 73.00 | 185 | 145 | 60 | 4-18 | |
| 2½ | 2.88 | | | | | |
| 65 | 76.10 | 185 | 145 | 60 | 4-18 | |
| 2½ | 3.00 | | | | | |
| 80 | 88.90 | 200 | 160 | 60 | 8-18 | |
| 3 | 3.50 | | | | | |
| 100 | 108.00 | 220 | 180 | 60 | 8-18 | |
| 4 | 4.25 | | | | | |
| 100 | 114.30 | 220 | 180 | 60 | 8-18 | |
| 4 | 4.50 | | | | | |
| 125 | 133.00 | 250 | 210 | 65 | 8-18 | |
| 5 | 5.25 | | | | | |
| 125 | 139.70 | 250 | 210 | 65 | 8-18 | |
| 5 | 5.50 | | | | | |
| 125 | 141.30 | 250 | 210 | 65 | 8-18 | |
| 5 | 5.56 | | | | | |
| 150 | 159.00 | 285 | 240 | 65 | 8-22 | |
| 6 | 6.25 | | | | | |
| 150 | 165.10 | 285 | 240 | 65 | 8-22 | |
| 6 | 6.50 | | | | | |
| 150 | 168.30 | 285 | 240 | 65 | 8-22 | |
| 6 | 6.63 | | | | | |
| 200 | 219.10 | 340 | 295 | 70 | 12-22 | |
| 8 | 8.63 | | | | | |
| 250 | 273.00 | 405 | 355 | 72 | 12-26 | |
| 10 | 10.75 | | | | | |
| 300 | 323.90 | 460 | 410 | 72 | 12-26 | |
| 12 | 12.75 | | | | | |

Flange Adaptor PN16

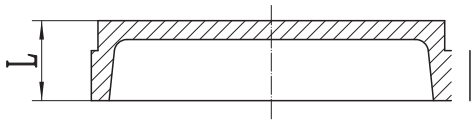


| Nominal Size mm/in | Pipe O.D mm/in | Dimensions (mm) | | | | Working Pressure (psi) |
|--------------------|----------------|-----------------|-----|-----|------|------------------------|
| | | ΦD | Φd | L | n-Φ | |
| 65 | 73.00 | 178 | 140 | 75 | 4-18 | 250 |
| 2½ | 2.875 | | | | | |
| 80 | 88.90 | 191 | 153 | 75 | 4-18 | |
| 3 | 3.50 | | | | | |
| 100 | 114.30 | 229 | 191 | 102 | 8-18 | |
| 4 | 4.50 | | | | | |
| 150 | 168.30 | 280 | 241 | 102 | 8-22 | |
| 6 | 6.625 | | | | | |

Flange adaptor ANSI125/150

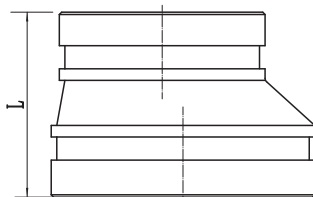


Grooved Cap



| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working pressure (Psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 25 | 33.7 | 23.8 | 300 |
| 1 | 1.327 | | |
| 32 | 42.4 | 23.8 | |
| 1 1/4 | 1.669 | | |
| 40 | 48.3 | 23.8 | |
| 1 1/2 | 1.9 | | |
| 50 | 60.3 | 23.8 | |
| 2 | 2.375 | | |
| 65 | 76.1 | 23.8 | |
| 2 1/2 | 3 | | |
| 80 | 88.9 | 23.8 | |
| 3 | 3.5 | | |
| 100 | 108 | 25.4 | |
| 4 | 4.25 | | |
| 100 | 114.3 | 25.4 | |
| 4 | 4.5 | | |
| 125 | 133 | 25.4 | |
| 5 | 5.25 | | |
| 125 | 139.7 | 25.4 | |
| 5 | "5.5" | | |
| 125 | 141.3 | 25.4 | |
| 5 | 5.563 | | |
| 150 | 159 | 25.4 | |
| 5 | 6.25 | | |
| 150 | 165.1 | 25.4 | |
| 6 | 6.5 | | |
| 150 | 168.3 | 25.4 | |
| 6 | 6.625 | | |
| 200 | 219.1 | 32 | |
| 8 | 8.625 | | |
| 250 | 273 | 32 | |
| 10 | 10.75 | | |
| 300 | 323.9 | 32 | |
| 12 | 12.75 | | |

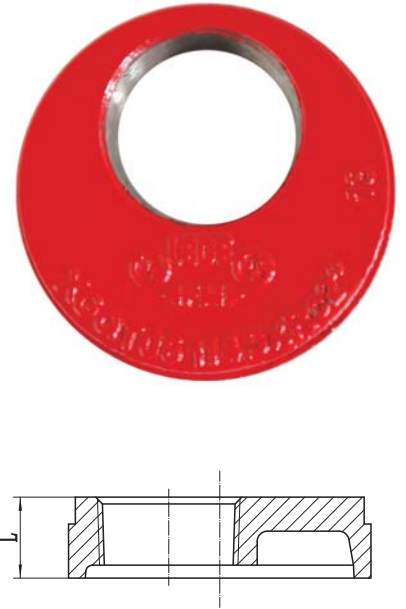
Grooved Eccentric Reducer

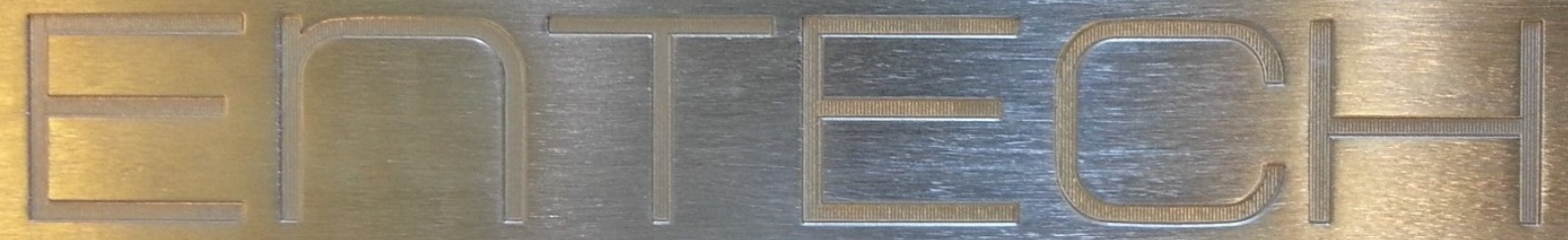


| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working pressure (Psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm/in) | |
| 100×80 | 114.3×88.9 | 80 | 300 |
| 4×3 | 4.5×3.5 | | |
| 125×100 | 139.7×114.3 | 102 | |
| 5×4 | 5.5×4.5 | | |
| 150×100 | 165.1×114.3 | 102 | |
| 6×4 | 6.5×4.5 | | |
| 150×125 | 165.1×139.7 | 102 | |
| 6×5 | 6.5×5.5 | | |
| 200×100 | 219.1×114.3 | 127 | |
| 8×4 | 8.625×4.5 | | |
| 200×150 | 219.1×165.1 | 127 | |
| 8×6 | 8.625×6.5 | | |
| 250×150 | 273×165.1 | 152 | |
| 10×6 | 10.75×6.5 | | |
| 250×200 | 273×219.1 | 152 | |
| 10×8 | 10.75×8.625 | | |

Cap with Eccentric hole

| Nominal Size mm/in | Pipe O.D mm/in | Dimensions | Working pressure (Psi) |
|--------------------|----------------|------------|------------------------|
| | | L (mm) | |
| 50×25 | 60.3×33.7 | 23.8 | 300 |
| 2×1 | 2.375×1.327 | | |
| 50×32 | 60.3×42.4 | 23.8 | |
| 2×1¼ | 2.375×1.669 | | |
| 50×40 | 60.3×48.3 | 23.8 | |
| 2×1½ | 2.375×1.9 | | |
| 65×50 | 73.0×60.3 | 23.8 | |
| 2½×2 | 2.875×2.375 | | |
| 65×25 | 76.1×33.7 | 23.8 | |
| 2½×1 | 3×1.327 | | |
| 65×32 | 76.1×42.4 | 23.8 | |
| 2½×1¼ | 3×1.669 | | |
| 65×40 | 76.1×48.3 | 23.8 | |
| 2½×1½ | 3×1.9 | | |
| 65×50 | 76.1×60.3 | 23.8 | |
| 2½×2 | 3×2.375 | | |
| 80×25 | 88.9×33.7 | 23.8 | |
| 3×1 | 3.5×1.327 | | |
| 80×32 | 88.9×42.4 | 23.8 | |
| 3×1¼ | 3.5×1.669 | | |
| 80×40 | 88.9×48.3 | 23.8 | |
| 3×1½ | 3.5×1.9 | | |
| 80×50 | 88.9×60.3 | 23.8 | |
| 3×2 | 3.5×2.375 | | |
| 100×40 | 114.3×48.3 | 25.4 | |
| 4×1½ | 4.5×1.9 | | |
| 100×50 | 114.3×60.3 | 25.4 | |
| 4×2 | 4.5×2.375 | | |
| 125×50 | 139.7×60.3 | 25.4 | |
| 5×2 | 5.5×2.375 | | |
| 125×50 | 141.3×60.3 | 25.4 | |
| 5×2 | 5.563×2.375 | | |
| 150×50 | 165.1×60.3 | 25.4 | |
| 6×2 | 6.5×2.375 | | |
| 150×40 | 168.3×48.3 | 25.4 | |
| 6×1½ | 6.63×1.9 | | |
| 150×50 | 168.3×60.3 | 25.4 | |
| 6×2 | 6.63×2.375 | | |
| 200×50 | 219.1×60.3 | 28 | |
| 8×2 | 8.625×2.375 | | |





ENTECH d.o.o.

ADD: Viline vode 6, 11000 Beograd, SRBIJA

TEL/FAX: +381-11-3392307

C: +381-63-213533

E-MAIL: office@entech.rs

WEB: www.entech.rs