

Grooved End Fittings



Manufactured by: Central Grooved Piping Products, Inc.,
a Subsidiary of Central Sprinkler Company
451 North Cannon Avenue, Lansdale, Pennsylvania 19446



Product Description

Central Grooved offers a broad range of grooved fittings through 24" (600 mm) in a variety of straight and reducing sizes. Most standard fittings are cast of ductile iron to precise tolerances.

All fittings are supplied with shoulders or grooves to permit fast installation.

Fittings are provided in various materials including ductile iron, steel or segmentally welded steel depending on styles and sizes. Fittings are painted orange enamel with galvanized optionally available. Special coatings available, contact Central Grooved.



Technical Data

Model: 110, 110T, 111, 111T, 112, 113, 120, 121, 123, 130, 131, 141, 150, 151, 160, 201, 210, 211, 212, 219, 220, 222, 260

Style: Elbows, Tees, Laterals, Cap, Reducers

Cast Fittings: Ductile iron conforming to ASTM A-536

Steel or Segment Welded Steel Fittings:

- 1"-1½" Carbon Steel, Schedule 40, conforming to ASTM A-53, Type F
- 2"-6" Carbon Steel, Schedule 40, conforming to ASTM A-53, Type E or S, Gr. B
- 8"-12" Carbon Steel, Schedule 30, conforming to ASTM A-53, Type E or S, Gr. B
- 14"-24" Carbon Steel, 0.375 wall, conforming to ASTM A-53, Type E or S, Gr. B

Adapter Flanges:

- Class 125 - cast iron conforming to ANSI B-16.1
- Class 150 - carbon steel conforming to ANSI B-16.5
- Class 300 - carbon steel conforming to ANSI B-16.5

Coatings: Rust inhibiting no-lead paint, color: orange (Standard) or hot dipped zinc galvanized (Optional). For other coatings contact Central Grooved.

Pressures: Central Grooved's standard grooved end fittings pressure ratings conform to the maximum ratings of Central Grooved couplings.

† Maximum pressure is total from all internal and external loads based on standard weight steel pipe, roll or cut groove in accordance with Central groove specifications. See Central Grooved's "Fire Protection Equipment Submittal Sheet" for Listing and Approval pressure ratings.

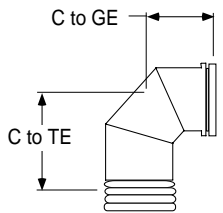
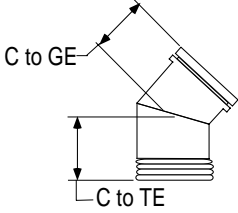
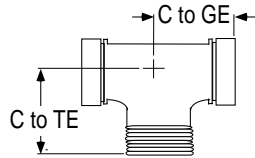
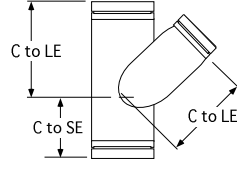
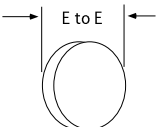
Frictional Resistance

(Expressed as Equivalent Straight Pipe)

| Nominal Size Inches mm | Elbows | | Tees | |
|------------------------------|-----------------------|-----------------------|--------------------------|-----------------------|
| | 90° Feet Meters | 45° Feet Meters | Branch Feet Meters | Run Feet Meters |
| 1 25 | 1.7 0.5 | 0.8 0.2 | 4.2 1.3 | 1.7 0.5 |
| 2 50 | 3.5 1.1 | 1.8 0.5 | 8.5 2.6 | 3.5 1.1 |
| 3 80 | 5.0 1.5 | 2.6 0.8 | 13.0 4.0 | 5.0 1.5 |
| 4 100 | 6.8 2.1 | 3.4 1.0 | 16.0 4.9 | 6.8 2.1 |
| 5 125 | 8.5 2.6 | 4.2 1.3 | 21.0 6.4 | 8.5 2.6 |
| 6 150 | 10.0 3.0 | 5.0 1.5 | 25.0 7.6 | 10.0 3.0 |
| 8 200 | 13.0 3.9 | 6.5 2.0 | 33.0 10.0 | 13.0 3.9 |
| 10 250 | 17.0 5.1 | 8.3 2.5 | 41.0 12.5 | 17.0 5.2 |
| 12 300 | 20.0 6.1 | 10.0 3.0 | 50.0 15.2 | 20.0 6.1 |
| 14 350 | 15.0 4.6 | 9.0 2.7 | 60.0 18.3 | 17.0 5.2 |
| 16 400 | 17.0 5.2 | 10.0 3.0 | 70.0 21.3 | 20.0 6.1 |
| 18 450 | 20.0 6.1 | 12.0 3.7 | 80.0 24.4 | 23.0 7.0 |
| 20 500 | 22.0 6.7 | 14.0 4.3 | 90.0 27.4 | 25.0 7.6 |
| 24 600 | 25.0 7.6 | 16.0 4.9 | 100.0 30.7 | 34.0 10.4 |

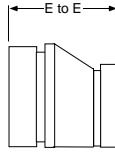
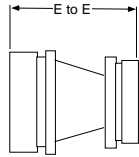
| Nominal Size Inches | Model 110/210 90° Elbow | | Model 111/201 45° Elbow | | Model 112 22½° Elbow | | Model 113 11¼° Elbow | | Model 120/219 Tee | | Model 220 Cross | | Model 222 90° True Y | | |
|---------------------------|----------------------------|------------------------|----------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|------------------------|------------------------|-------------------------|------------------------|-------------------------|-------------------------|------------------------|
| | C to E Inches mm | Net. Wt. Lbs. kg | C to E Inches mm | Net. Wt. Lbs. kg | C to E Inches mm | Net. Wt. Lbs. kg | C to E Inches mm | Net. Wt. Lbs. kg | C to E Inches mm | Net. Wt. Lbs. kg | C to SE Inches mm | Net. Wt. Lbs. kg | C to LE Inches mm | C to SE Inches mm | Net. Wt. Lbs. kg |
| | 1 | 2.25 57.2 | .05 0.2 | 1.75 44.4 | 0.5 0.2 | 3.25 82.6 | 0.5 0.2 | 1.38 34.9 | 0.3 0.1 | 2.25 57.2 | 0.9 0.4 | 2.25 57.2 | 1.5 0.7 | 2.25 57.2 | 2.25 57.2 |
| 1¼ | 2.75 69.8 | 1.0 0.4 | 1.75 44.4 | 0.9 0.4 | 1.75 44.4 | 0.7 0.3 | 1.38 34.9 | 0.5 0.2 | 2.75 69.8 | 1.4 0.6 | 2.75 69.8 | 2.0 0.9 | 2.75 69.8 | 2.50 63.5 | 1.5 0.7 |
| 1½ | 2.75 69.8 | 1.2 0.5 | 1.75 44.4 | 1.1 0.5 | 1.75 44.4 | 1.0 0.5 | 1.39 34.9 | 0.5 0.2 | 2.75 69.8 | 1.8 0.8 | 2.75 69.8 | 2.5 1.1 | 2.75 69.8 | 2.75 69.8 | 1.8 0.8 |
| 2 | 3.25 82.6 | 2.0 0.9 | 2.00 50.8 | 1.8 0.8 | 3.75 95.2 | 1.5 0.7 | 1.38 34.9 | 1.3 0.6 | 3.25 82.6 | 2.8 1.3 | 3.25 82.6 | 3.5 1.6 | 3.25 82.6 | 2.75 69.8 | 2.3 1.0 |
| 2½ | 3.75 95.2 | 3.0 1.4 | 2.25 57.2 | 2.2 1.0 | 4.00 101.6 | 2.4 1.1 | 1.50 38.1 | 1.5 0.7 | 3.75 95.2 | 4.4 2.0 | 3.75 95.2 | 5.0 2.3 | 3.75 95.2 | 3.00 76.2 | 5.1 2.3 |
| 3 | 4.25 108.0 | 4.5 2.0 | 2.50 63.5 | 3.5 1.6 | 4.50 114.3 | 3.5 1.6 | 1.50 38.1 | 2.9 1.3 | 4.25 108.0 | 18.0 3.6 | 4.25 108.0 | 8.2 3.7 | 4.25 108.0 | 3.25 82.6 | 6.0 2.7 |
| 3½ | 4.25 114.3 | 6.5 3.0 | 2.75 69.8 | 4.0 2.0 | 2.50 63.5 | 4.0 1.8 | 1.75 44.4 | 2.8 1.3 | 4.50 114.3 | 10.0 4.5 | 4.50 114.3 | 11.5 5.2 | 4.50 114.3 | 3.50 88.9 | 9.6 4.4 |
| 4 | 5.00 127.0 | 8.5 3.9 | 3.00 76.2 | 5.2 2.4 | 2.88 73.0 | 5.3 2.4 | 1.75 44.4 | 3.3 1.5 | 5.00 127.0 | 11.8 5.4 | 5.00 127.0 | 13.0 5.9 | 5.00 127.0 | 3.75 95.2 | 10.5 4.8 |
| 5 | 5.50 139.7 | 13.5 6.1 | 3.25 82.6 | 8.5 3.6 | 2.88 73.0 | 7.5 3.4 | 2.00 50.8 | 4.2 1.9 | 5.50 139.7 | 17.0 7.7 | 5.50 139.7 | 20.0 9.1 | 5.50 139.7 | 4.00 101.6 | 15.0 6.8 |
| 6 | 6.50 165.1 | 18.5 8.4 | 3.50 88.9 | 12.0 5.5 | 6.25 158.8 | 11.5 5.2 | 2.00 50.8 | 5.0 2.3 | 6.50 165.1 | 26.0 11.8 | 6.50 165.1 | 27.5 12.5 | 6.50 165.1 | 4.50 114.3 | 22.0 10.0 |
| 8 | 7.75 196.8 | 36.5 16.6 | 4.25 108.0 | 23.0 10.5 | 7.75 196.8 | 22.0 10.0 | 2.00 50.8 | 7.4 3.4 | 7.75 196.8 | 45.0 20.4 | 7.75 196.8 | 38.5 17.5 | 7.75 196.8 | 6.00 152.4 | 36.0 16.3 |
| 10 | 9.00 228.6 | 62.5 28.4 | 4.75 120.6 | 40.0 18.2 | 30.0 13.6 | 2.12 54.0 | 10.0 4.5 | 9.00 228.6 | 90.0 40.9 | 9.00 228.6 | 9.00 32.5 | 71.5 32.5 | 9.00 228.6 | 6.50 165.1 | 51.0 23.1 |
| 12 | 10.00 254.0 | 95.0 43.2 | 5.25 133.4 | 60.0 27.3 | 40.0 18.1 | 2.25 57.2 | 15.5 7.0 | 10.00 254.0 | 135.0 61.4 | 10.00 254.0 | 10.00 49.9 | 110.0 49.9 | 10.0 254.0 | 7.0 177.8 | 80.0 36.3 |
| 14 | 11.0 279.4 | 160.0 72.7 | 6.0 152.4 | 82.0 37.2 | 46.0 20.8 | 3.50 88.9 | 32.0 14.6 | 11.00 279.4 | 150.0 68.0 | 11.00 279.4 | 11.0 63.5 | 140.0 63.5 | 11.0 279.4 | 7.5 190.5 | 136.0 61.7 |
| 16 | 12.00 304.8 | 210.0 95.2 | 7.25 184.2 | 100.0 45.4 | 58.0 26.4 | 4.00 101.6 | 42.0 19.0 | 12.00 304.8 | 188.0 85.3 | 12.00 304.8 | 12.00 79.5 | 175.0 79.5 | 12.0 304.8 | 8.0 203.2 | 166.0 75.3 |
| 18 | 27.00 685.8 | 275.0 125.0 | 11.25 285.8 | 130.0 59.1 | 65.0 29.5 | 4.50 114.3 | 53.2 24.1 | 15.50 393.7 | 274.0 124.3 | 15.50 393.7 | 15.50 119.5 | 236.0 119.5 | 15.5 393.7 | 8.5 215.9 | 234.0 106.1 |
| 20 | 30.00 762.0 | 350.0 159.1 | 12.50 317.5 | 175.0 79.5 | 78.6 35.7 | 5.00 127.0 | 65.0 29.5 | 17.25 438.2 | 339.0 153.8 | 17.25 438.2 | 17.25 145.1 | 320.0 145.1 | 17.25 438.2 | 9.0 228.6 | 281.0 127.5 |
| 24 | 36.00 914.4 | 510.0 231.8 | 15.00 381.0 | 251.0 113.9 | 140.00 63.6 | 6.00 152.4 | 125.0 56.7 | 20.0 508.0 | 628.0 284.9 | 20.00 508.0 | 20.00 363.6 | 800.0 363.6 | 20.0 508.0 | 10.0 254.0 | 523.0 237.2 |

Sizes and configurations not shown are available and priced on application.

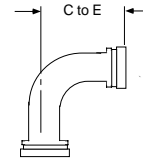
|  | | |  | | |  | | |  | | |  | | |
|---|------------------------------------|-------------------------|---|------------------------------------|-------------------------|--|-------------------------------------|-------------------------|---|--------------------------|-------------------------|---|------------------------|------------------------|
| Nominal Size Inches | Model 110T 90° Adapter Elbow | | | Model 111T 45° Adapter Elbow | | | Model 120 Tee w/ Threaded Branch | | | Model 211 45° Lateral | | | Model 160/260 Cap | |
| | C to GE Inches mm | C to TE Inches mm | Net. Wt. Lbs. kg | C to GE Inches mm | C to TE Inches mm | Net. Wt. Lbs. kg | C to GE Inches mm | C to TE Inches mm | Net. Wt. Lbs. kg | C to LE Inches mm | C to SE Inches mm | Net. Wt. Lbs. kg | E to E Inches mm | Net. Wt. Lbs. kg |
| 1 | 2.25 57.2 | 2.25 57.2 | .06 0.3 | 1.75 44.4 | 1.75 44.4 | 0.6 0.3 | 2.25 57.2 | 2.25 57.2 | 0.9 0.4 | 5.00 127.0 | 2.25 57.2 | 1.7 0.8 | 0.88 22.2 | 0.3 0.1 |
| 1¼ | 2.75 69.8 | 2.75 69.8 | 0.9 0.4 | 1.75 44.4 | 1.75 44.4 | 0.6 0.3 | 2.75 69.8 | 2.75 69.8 | 1.4 0.6 | 5.75 146.0 | 2.50 63.5 | 2.5 1.1 | 0.88 22.2 | 0.5 0.2 |
| 1½ | 2.75 69.8 | 2.75 69.8 | 1.1 0.5 | 1.75 44.4 | 1.75 44.4 | 0.9 0.4 | 2.75 69.8 | 2.75 69.8 | 1.8 0.8 | 6.25 158.8 | 2.75 69.8 | 3.5 1.6 | 0.88 22.2 | 0.94 23.9 |
| 2 | 3.25 82.6 | 4.25 108.0 | 1.9 0.9 | 2.00 50.8 | 3.00 76.2 | 1.3 0.6 | 4.25 108.0 | 4.25 108.0 | 2.8 1.3 | 7.00 177.8 | 2.75 69.8 | 4.5 2.0 | 0.88 22.2 | 0.94 23.9 |
| 2½ | 3.75 95.2 | 3.75 95.2 | 3.0 1.4 | 2.25 57.2 | 2.25 57.2 | 2.0 0.9 | 3.75 95.2 | 3.75 95.2 | 4.4 2.0 | 7.75 196.8 | 3.00 76.2 | 9.0 4.1 | 0.88 22.2 | 0.94 23.9 |
| 3 | 4.25 108.0 | 6.00 152.4 | 4.7 2.1 | 2.50 63.5 | 4.25 108.0 | 3.3 1.5 | 4.25 108.0 | 6.00 152.4 | 8.0 3.6 | 8.50 215.9 | 3.25 82.6 | 10.8 4.9 | 0.88 22.2 | 0.94 23.9 |
| 3½ | 4.25 114.3 | 6.25 158.8 | 7.5 3.4 | - | - | - | 4.50 114.3 | 4.50 114.3 | 11.3 5.1 | 10.00 254.0 | 3.50 88.9 | 18.2 8.3 | 0.88 22.2 | 2.5 1.1 |
| 4 | 5.00 127.0 | 7.25 184.2 | 12.0 5.4 | 3.00 76.2 | 5.25 133.4 | 8.5 3.9 | 5.00 127.0 | 7.25 184.2 | 14.5 6.6 | 10.50 266.7 | 3.75 95.2 | 19.0 8.6 | 1.00 25.4 | 2.6 1.2 |
| 4½ | - | - | - | - | - | - | 5.25 133.4 | 5.25 133.4 | 15.0 6.8 | - | - | - | - | - |
| 6 | 6.50 165.1 | 6.50 165.1 | 19.4 8.8 | 3.50 88.9 | 3.50 88.9 | 13.1 5.9 | 6.50 165.1 | 6.50 165.1 | 22.0 10.0 | 14.00 355.6 | 4.50 114.3 | 42.0 19.1 | 1.00 25.4 | 7.5 3.4 |
| 8 | - | - | - | - | - | - | 7.75 196.8 | 7.75 196.8 | 36.0 16.3 | 18.00 457.2 | 6.00 152.4 | 72.0 32.7 | 1.19 30.2 | 12.8 5.8 |
| 10 | - | - | - | - | - | - | 9.00 228.6 | 9.00 228.6 | 60.0 27.2 | 20.50 520.7 | 6.50 165.1 | 105.0 47.6 | 1.25 31.8 | 20.0 9.1 |
| 12 | - | - | - | - | - | - | 10.00 254.0 | 10.00 254.0 | 80.0 36.3 | 23.00 584.2 | 7.00 177.8 | 165.0 74.8 | 1.25 31.8 | 27.5 12.5 |
| 14 | - | - | - | - | - | - | - | - | - | 26.50 673.1 | 7.50 190.5 | 273.0 123.8 | - | - |
| 16 | - | - | - | - | - | - | - | - | - | 29.00 736.6 | 8.00 203.2 | 344.0 156.0 | - | - |
| 18 | - | - | - | - | - | - | - | - | - | 32.00 812.8 | 8.50 215.9 | 423.0 191.9 | - | - |
| 20 | - | - | - | - | - | - | - | - | - | 35.00 889.0 | 9.00 228.6 | 517.0 234.5 | - | - |
| 24 | - | - | - | - | - | - | - | - | - | 40.0 1016.0 | 10.00 254.0 | 941.0 426.8 | - | - |

Sizes and configurations not shown are available and priced on application.

Model 150 Concentric Reducer and Model 151 Eccentric Reducer



90° & 45° Long Radius Elbow

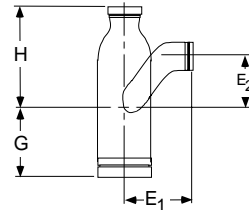


| Nominal Size Inches | Model 150 Concentric Reducer | | Model 151 Eccentric Reducer | | Nominal Size Inches mm | Model 150 Concentric Reducer | | Model 151 Eccentric Reducer | |
|---------------------|------------------------------|-----------------|-----------------------------|-----------------|------------------------|------------------------------|-----------------|-----------------------------|-----------------|
| | E to E Inches mm | Net Wt. Lbs. kg | E to E Inches mm | Net Wt. Lbs. kg | | E to E Inches mm | Net Wt. Lbs. kg | E to E Inches mm | Net Wt. Lbs. kg |
| 1 1/2 x 1 | 2.50 63.5 | 0.8 0.4 | 8.50 215.9 | 4.5 2.0 | 8 x 5 | 5.00 127.0 | 11.8 5.4 | 12.00 304.8 | 23.0 10.4 |
| 2 x 3/4 | 2.50 63.50 | 1.0 0.5 | 9.00 228.6 | 5.0 2.2 | 8 x 6 | 5.00 127.0 | 12.6 5.7 | 12.00 304.8 | 24.0 10.9 |
| 2 x 1 | 2.50 63.5 | 1.0 0.5 | 9.00 228.6 | 5.0 2.2 | 10 x 4 | 6.00 152.4 | 18.0 8.2 | 13.00 330.2 | 35.0 15.9 |
| 2 x 1 1/4 | 2.50 63.5 | 1.2 0.5 | 9.00 228.6 | 5.0 2.2 | 10 x 6 | 6.00 152.4 | 23.0 10.4 | 13.00 330.2 | 36.0 16.3 |
| 2 x 1 1/2 | 2.50 63.5 | 1.2 0.5 | 9.00 228.6 | 5.0 2.2 | 10 x 8 | 6.00 152.4 | 33.0 15.0 | 13.00 330.2 | 37.0 16.8 |
| 2 1/2 x 1 | 3.00 80.0 | 1.5 1.5 | - | - | 12 x 4 | - | - | 14.00 355.6 | 47.0 21.3 |
| 2 1/2 x 1 1/4 | 3.00 80.0 | 1.5 0.7 | - | - | 12 x 6 | 7.00 177.8 | 25.0 11.3 | 14.00 355.6 | 48.0 21.8 |
| 2 1/2 x 1 1/2 | 3.00 80.0 | 1.5 0.7 | - | - | 12 x 8 | 7.00 177.8 | 36.0 16.3 | 14.00 355.6 | 49.0 22.2 |
| 2 1/2 x 2 | 2.50 65 | 1.4 0.6 | - | - | 12 x 10 | 7.00 177.8 | 38.0 17.2 | 14.00 355.6 | 52.0 23.6 |
| 3 x 1 | 2.50 63.5 | 1.4 0.6 | 9.50 241.3 | 5.5 2.5 | 14 x 6 | 13.00 330.2 | 60.0 27.2 | - | - |
| 3 x 2 | 2.50 63.5 | 1.6 0.7 | 9.50 241.3 | 6.0 2.7 | 14 x 8 | 13.00 330.2 | 60.0 27.2 | - | - |
| 3 x 2 1/2 | 2.50 63.5 | 1.8 0.8 | 9.50 241.3 | 7.0 3.2 | 14 x 10 | 13.00 330.2 | 60.0 27.2 | - | - |
| 3 1/2 x 3 | 2.50 63.5 | 2.0 0.9 | 9.50 241.3 | 7.5 3.4 | 14 x 12 | 13.00 330.2 | 60.0 27.2 | - | - |
| 4 x 1 | 3.00 76.2 | 2.4 1.1 | 10.00 254.0 | 8.0 3.6 | 16 x 8 | 14.00 355.6 | 70.0 31.8 | - | - |
| 4 x 1 1/2 | - | - | 10.00 254.0 | 8.0 3.6 | 16 x 10 | 14.00 355.6 | 70.0 31.8 | - | - |
| 4 x 2 | 3.00 76.2 | 2.5 1.1 | 10.00 254.0 | 8.0 3.6 | 16 x 12 | 14.00 355.6 | 70.0 31.8 | - | - |
| 4 x 2 1/2 | 3.00 76.2 | 2.6 1.2 | 10.00 254.0 | 8.0 3.6 | 16 x 14 | 14.00 355.6 | 70.0 31.8 | - | - |
| 4 x 3 | 3.00 76.2 | 2.8 1.3 | 10.00 254.0 | 8.0 3.6 | 18 x 10 | 15.00 381.0 | 85.0 38.6 | - | - |
| 4 x 3 1/2 | 3 76.2 | 3.0 1.4 | 10.00 254.0 | 8.0 3.6 | 18 x 12 | 15.00 381.0 | 85.0 38.6 | - | - |
| 5 x 2 1/2 | - | - | 11.00 279.4 | 10.0 4.5 | 18 x 14 | 15.00 381.0 | 85.0 38.6 | - | - |
| 5 x 3 | - | - | 11.00 279.4 | 10.0 4.5 | 18 x 16 | 15.00 381.0 | 85.0 38.6 | - | - |
| 5 x 4 | 3.50 88.9 | 4.5 2.0 | 11.00 279.4 | 10.0 4.5 | 20 x 12 | 20.00 508.0 | 125.0 56.7 | - | - |
| 6 x 1 | 4.00 101.6 | 5.5 2.5 | 11.50 292.1 | 15.0 6.8 | 20 x 14 | 20.00 508.0 | 125.0 56.7 | - | - |
| 6 x 2 | 4.00 101.6 | 5.5 - | 11.50 292.1 | 15.0 6.8 | 20 x 16 | 20.00 508.0 | 125.0 56.7 | - | - |
| 6 x 2 1/2 | - | - | 11.50 292.1 | 15.0 6.8 | 20 x 18 | 20.00 508.0 | 125.0 56.7 | - | - |
| 6 x 3 | 4.00 101.6 | 5.7 2.6 | 11.50 292.1 | 15.0 6.8 | 24 x 10 | 20.00 508.0 | 150.0 68.0 | - | - |
| 6 x 4 | 4.00 101.6 | 7.1 3.2 | 11.50 292.1 | 17.0 7.7 | 24 x 12 | 20.00 508.0 | 150.0 68.0 | - | - |
| 6 x 5 | 4.00 101.6 | 7.40 3.4 | 11.50 292.1 | 17.0 7.7 | 24 x 14 | 20.00 508.0 | 150.0 68.0 | - | - |
| 8 x 2 1/2 | - | - | 12.00 304.8 | 21.0 9.5 | 24 x 16 | 20.00 508.0 | 150.0 68.0 | - | - |
| 8 x 3 | 5.00 127.0 | 9.2 4.2 | 12.00 304.8 | 22.0 10.0 | 24 x 18 | 20.00 508.0 | 150.0 68.0 | - | - |
| 8 x 4 | 5.00 127.0 | 10.9 4.9 | 12.00 304.8 | 23.0 10.4 | 24 x 20 | 20.00 508.0 | 150.0 68.0 | - | - |

| Nominal Size Inches mm | 90° Long Radius Elbow | | 45° Long Radius Elbow | |
|------------------------|-----------------------|-----------------|-----------------------|-----------------|
| | E to E Inches mm | Net Wt. Lbs. kg | E to E Inches mm | Net Wt. Lbs. kg |
| 2 | 4.38 111.1 | 2.5 1.1 | 2.75 69.8 | 1.8 0.8 |
| 2 1/2 | 5.12 130.0 | 3.0 1.4 | 2.88 73.2 | 2.0 0.7 |
| 3 | 5.88 149.2 | 6.5 2.9 | 3.38 85.7 | 4.5 2.0 |
| 4 | 7.5 190.5 | 11.5 5.2 | 4.00 101.6 | 7.5 3.4 |
| 6 | 10.75 273.0 | 28.5 12.9 | 5.50 139.7 | 17.3 7.8 |
| 8 | 14.25 362.0 | 66.0 29.9 | 7.25 184.2 | 34.0 15.4 |
| 10 | 17.25 438.2 | 114.0 51.7 | 8.50 215.9 | 58.0 26.3 |
| 12 | 20.50 520.7 | 144.0 65.3 | 10.00 254.0 | 94.0 42.6 |
| 14(S) | 21.00 533.4 | 164.0 74.4 | 8.75 222.3 | 82.0 37.2 |
| 16(S) | 24.00 588.0 | 210.0 95.3 | 10.00 254.0 | 100.0 45.4 |
| 18(S) | 27.00 685.8 | 273.0 123.8 | 11.25 285.8 | 135.0 61.2 |
| 20(S) | 30.00 762.0 | 343.0 155.6 | 12.50 317.5 | 174.0 78.9 |
| 24(S) | 36.00 914.4 | 516.0 234.1 | 15.00 381.0 | 251.0 113.9 |

Note: Ductile ASTM A-536 except those marked "S" which are steel.

Model 131 Reducing Tee Wye

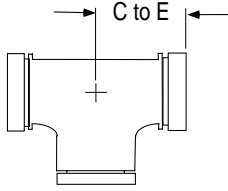


| Nominal Size Inches | G Inches mm | H Inches mm | E1 Inches mm | E2 Inches mm | Net Wt. Lbs. kg |
|---------------------|---------------|----------------|----------------|----------------|-----------------|
| 4 x 3 x 3 | 1.40 38.1 | 7.50 190.5 | 10.75 273.0 | 5.75 146.0 | 16.0 7.2 |
| 4 x 3 x 4 | 3.75 95.2 | 10.50 266.7 | 13.62 346.1 | 8.12 206.4 | 27.0 12.2 |
| 5 x 3 x 3 | 1.25 31.8 | 9.75 247.6 | 11.50 292.1 | 6.50 165.1 | 25.0 11.4 |
| 5 x 3 x 5 | 4.00 101.6 | 12.50 317.5 | 16.12 409.6 | 10.00 254.0 | 44.0 20.0 |
| 5 x 4 x 3 | 1.88 47.6 | 9.12 231.8 | 11.88 301.6 | 6.88 174.6 | 21.0 9.5 |
| 5 x 4 x 4 | 1.88 47.6 | 9.12 231.8 | 12.75 323.8 | 7.25 184.2 | 25.0 11.3 |
| 6 x 4 x 6 | 4.50 114.3 | 14.00 355.6 | 18.25 463.6 | 11.50 292.1 | 61.0 27.7 |
| 6 x 5 x 3 | 1.25 31.8 | 10.75 273.0 | 13.00 330.2 | 8.00 203.2 | 27.0 12.2 |
| 6 x 5 x 4 | 1.25 31.8 | 10.75 273.0 | 13.88 352.4 | 8.38 212.7 | 31.0 14.1 |
| 8 x 6 x 4 | 1.00 25.4 | 12.00 304.8 | 14.75 374.6 | 9.25 235.0 | 45.0 20.4 |
| 8 x 6 x 8 | 6.00 152.4 | 18.00 457.2 | 23.25 590.6 | 15.25 387.4 | 95.0 43.1 |

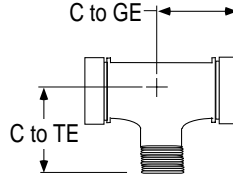
Central Sprink will make available segmentally welded Reducing Tee-Wye's.

Sizes and configurations not shown are available and priced on application.

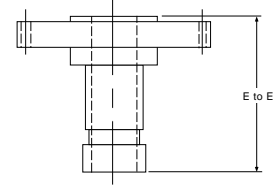
Model 121 Reducing Tee



Model 123 Reducing Tee with Thread Branch



Model 141 Gr x Flange Adapter



| Nominal Size Inches | Model 121 Red Tee | Model 123 Red Tee w/ Thd. Branch | Net Wt Lbs. kg |
|-----------------------|-------------------|----------------------------------|----------------|
| | C to E Inches mm | C to E Inches mm | |
| 2 x 2 x 3/4 | 3.25 82.6 | 3.25 82.6 | 2.5 1.1 |
| 2 x 2 x 1 | 3.25 82.6 | 3.25 82.6 | 2.7 1.2 |
| 2 x 2 x 1 1/2 | 3.25 82.6 | 3.25 82.6 | 2.7 1.2 |
| 2 1/2 x 2 1/2 x 1 | 3.75 95.2 | 3.75 95.2 | 4.0 1.8 |
| 2 1/2 x 2 1/2 x 1 1/2 | 3.75 95.2 | 3.75 95.2 | 4.3 2.0 |
| 2 1/2 x 2 1/2 x 2 | 3.75 95.2 | 3.75 95.2 | 4.6 2.1 |
| 3 x 3 x 1 | 4.25 108.0 | 4.25 108.0 | 7.0 3.2 |
| 3 x 3 x 1 1/2 | 4.25 108.0 | 4.25 108.0 | 5.3 2.4 |
| 3 x 3 x 2 | 4.25 108.0 | 4.25 108.0 | 5.5 2.5 |
| 3 x 3 x 2 1/2 | 4.25 108.0 | 4.25 108.0 | 5.8 2.6 |
| 4 x 4 x 1 | 3.75 95.2 | 3.75 95.2 | 8.0 3.6 |
| 4 x 4 x 2 | 5.00 127.0 | 5.00 127.0 | 10.2 4.6 |
| 4 x 4 x 2 1/2 | 5.00 127.0 | 5.00 127.0 | 11.2 5.1 |
| 4 x 4 x 3 | 5.00 127.0 | 5.00 127.0 | 11.4 5.2 |
| 5 x 5 x 2 | 5.50 139.7 | 5.50 139.7 | 14.5 6.6 |
| 5 x 5 x 3 | 5.50 139.7 | 5.50 139.7 | 16.1 7.3 |
| 5 x 5 x 4 | 5.50 139.7 | 5.50 139.7 | 17.9 8.1 |
| 6 x 6 x 2 | 6.50 165.1 | 6.50 165.1 | 26.4 12.0 |
| 6 x 6 x 2 1/2 | 6.50 165.1 | 6.50 165.1 | 26.5 12.0 |
| 6 x 6 x 3 | 6.50 165.1 | 6.50 165.1 | 26.5 12.0 |
| 6 x 6 x 4 | 6.50 165.1 | 6.50 165.1 | 26.5 12.0 |
| 6 x 6 x 5 | 6.50 165.1 | 6.50 165.1 | 28.0 12.7 |
| 8 x 8 x 2 | 7.75 196.8 | 7.75 196.8 | 33.5 15.2 |
| 8 x 8 x 3 | 7.75 196.8 | 7.75 196.8 | 33.5 15.2 |
| 8 x 8 x 4 | 7.75 196.6 | 7.75 196.8 | 50.0 22.7 |
| 8 x 8 x 5 | 7.75 196.8 | 7.75 196.8 | 52.0 23.6 |
| 8 x 8 x 6 | 7.75 196.8 | 7.75 196.8 | 54.5 24.7 |
| 10 x 10 x 2 | 9.00 228.6 | 9.00 228.6 | 47.0 21.3 |
| 10 x 10 x 3 | 9.00 228.6 | 9.00 228.6 | 48.0 21.8 |
| 10 x 10 x 4 | 9.00 228.6 | 9.00 228.6 | 49.0 22.2 |

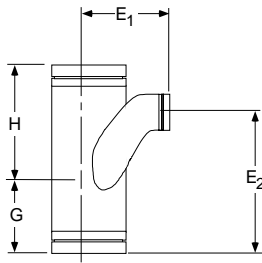
| Nominal Size Inches | Model 121 Red Tee | Model 123 Red Tee w/ Thd. Branch | Net Wt Lbs. kg |
|---------------------|-------------------|----------------------------------|----------------|
| | C to E Inches mm | C to E Inches mm | |
| 10 x 10 x 5 | 9.00 228.6 | 9.00 228.6 | 52.0 23.6 |
| 10 x 10 x 6 | 9.00 228.6 | 9.00 228.6 | 55.0 24.9 |
| 10 x 10 x 8 | 9.00 9.00 | 9.00 9.00 | 64.7 64.7 |
| 12 x 12 x 3 | 10.00 254.0 | 10.00 254.0 | 65.0 29.5 |
| 12 x 12 x 4 | 10.00 254.0 | 10.00 254.0 | 68.0 30.8 |
| 12 x 12 x 5 | 10.00 254.0 | 10.00 254.0 | 72.0 32.7 |
| 12 x 12 x 6 | 10.00 254.0 | 10.00 254.0 | 75.0 34.0 |
| 12 x 12 x 8 | 10.00 254.0 | 10.00 254.0 | 80.0 36.3 |
| 12 x 12 x 10 | 10.00 254.0 | 10.00 254.0 | 84.0 38.1 |
| 14 x 14 x 8 | 11.00 279.4 | 11.00 279.4 | 112.0 50.8 |
| 14 x 14 x 10 | 11.00 279.4 | 11.00 279.4 | 120.0 54.4 |
| 14 x 14 x 12 | 11.00 279.4 | 11.00 279.4 | 134.0 60.8 |
| 16 x 16 x 8 | 12.00 304.8 | 12.00 304.8 | 137.0 62.1 |
| 16 x 16 x 10 | 12.00 304.8 | 12.00 304.8 | 148.0 67.1 |
| 16 x 16 x 12 | 12.00 304.8 | 12.00 304.8 | 154.0 69.9 |
| 18 x 18 x 10 | 15.50 393.7 | 15.50 393.7 | 208.0 94.3 |
| 18 x 18 x 12 | 15.50 393.7 | 15.50 393.7 | 218.0 98.9 |
| 18 X 18 X 14 | 15.50 393.7 | - | 230.0 104.3 |
| 18 X 18 X 16 | 15.50 393.7 | - | 234.0 106.0 |
| 20 X 20 X 14 | 17.25 438.2 | - | 280.0 127.0 |
| 20 X 20 X 16 | 17.25 438.2 | - | 288.0 130.6 |
| 20 X 20 X 18 | 17.25 438.2 | - | 309.0 140.2 |
| 24 X 24 X 8 | 20.00 508.0 | 20.00 508.0 | 461.0 209.1 |
| 24 X 24 X 10 | 20.00 508.0 | 20.00 508.0 | 476.0 215.9 |
| 24 X 24 X 12 | 20.00 508.0 | 20.00 508.0 | 492.0 223.2 |
| 24 X 24 X 14 | 20.00 508.0 | - | 510.0 231.0 |
| 24 X 24 X 16 | 20.00 508.0 | - | 524.0 237.7 |
| 24 X 24 X 18 | 20.00 508.0 | - | 537.0 243.6 |
| 24 X 24 X 20 | 20.00 508.0 | - | 550.0 249.5 |

| X Class 150 Flange | | |
|-------------------------|------------------|------------------|
| Nominal Size | E to E Inches mm | Net. Wt. Lbs. kg |
| 1 | 3.00 76.2 | 2.2 1.0 |
| 1 1/4 | 4.00 101.6 | 2.8 1.3 |
| 1 1/2 | 4.00 101.6 | 3.2 1.5 |
| 2 | 4.00 101.6 | 5.2 2.4 |
| 2 1/2 | 4.00 101.6 | 8.0 3.6 |
| 3 | 4.00 101.6 | 10.2 4.6 |
| 3 1/2 | 4.00 101.6 | 12.0 5.4 |
| 4 | 6.00 152.4 | 17.2 7.8 |
| 5 | 6.00 152.4 | 21.4 9.4 |
| 6 | 6.00 152.4 | 26.0 11.8 |
| 8 | 6.00 152.4 | 38.4 17.4 |
| X Class 300 Flange | | |
| 1 | 3.00 76.2 | 2.5 1.1 |
| 1 1/4 | 4.00 101.6 | 3.8 1.7 |
| 1 1/2 | 4.00 101.6 | 4.1 1.9 |
| 2 | 4.00 101.6 | 6.0 2.7 |
| 2 1/2 | 4.00 101.6 | 9.2 4.2 |
| 3 | 4.00 101.6 | 10.4 4.7 |
| 3 1/2 | 4.00 101.6 | 14.0 6.4 |
| 4 | 6.00 152.4 | 19.1 8.7 |
| 5 | 6.00 152.4 | 23.0 10.4 |
| 6 | 6.00 152.4 | 29.5 13.4 |
| 8 | 6.00 152.4 | 43.5 19.7 |
| X Class 125 C.I. Flange | | |
| 1 | 3.00 76.2 | 3.6 1.6 |
| 1 1/4 | 4.00 101.6 | 4.6 2.1 |
| 1 1/2 | 4.00 101.6 | 7.1 3.2 |
| 2 | 4.00 101.6 | 8.2 3.7 |
| 2 1/2 | 4.00 101.6 | 11.9 5.4 |
| 3 | 4.00 101.6 | 15.5 7.0 |
| 3 1/2 | 4.00 101.6 | 21.0 9.5 |
| 4 | 6.00 152.4 | 28.0 12.7 |
| 5 | 6.00 152.4 | 35.0 15.9 |
| 6 | 6.00 152.4 | 50.0 22.7 |
| 8 | 6.00 152.4 | 72.0 32.7 |

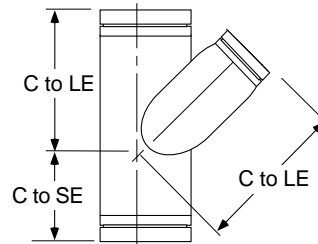
* No equivalent metric pipe size.

Sizes and configurations not shown are available and priced on application.

Model 130 Tee Wye



Model 212 Reducing Lateral



| Nominal Size Inches mm | G Inches mm | H Inches mm | E ₁ Inches mm | E ₂ Inches mm | Net Wt Lbs. kg |
|------------------------------|-------------------|-------------------|--------------------------------|--------------------------------|----------------------|
| 2 X 2 X 2 | 2.75 69.9 | 7.00 177.8 | 9.00 228.6 | 5.62 142.7 | 6.4 2.9 |
| 2 1/2 X 2 1/2 X 2 1/2 | 3.00 76.2 | 7.75 196.9 | 10.50 266.7 | 5.75 146.1 | 11.5 5.2 |
| 3 X 3 X 3 | 3.25 82.6 | 10.00 254.0 | 13.00 330.2 | 7.75 196.9 | 22.0 10.0 |
| 3 1/2 X 3 1/2 X 3 1/2 | 3.50 88.9 | 10.00 254.0 | 13.00 330.2 | 7.75 196.9 | 22.0 10.0 |
| 4 X 4 X 3 | 3.75 95.3 | 10.50 266.7 | 12.88 327.0 | 7.88 200.0 | 23.0 10.4 |
| 4 X 4 X 4 | 3.75 95.3 | 10.50 266.7 | 13.62 346.1 | 8.12 206.5 | 26.0 11.8 |
| 5 X 5 X 3 | 4.00 101.6 | 12.50 317.5 | 14.25 362.0 | 9.25 235.0 | 32.0 14.5 |
| 5 X 5 X 4 | 4.00 101.6 | 12.50 317.5 | 15.12 384.3 | 9.62 244.6 | 35.0 15.9 |
| 5 X 5 X 5 | 4.00 101.6 | 12.50 317.5 | 16.12 409.7 | 10.00 254.0 | 40.0 18.1 |
| 6 X 6 X 3 | 4.50 114.3 | 14.00 355.6 | 15.31 389.0 | 10.31 261.9 | 50.0 22.7 |
| 6 X 6 X 4 | 4.50 114.3 | 14.00 355.6 | 16.25 412.8 | 10.75 273.1 | 55.0 24.9 |
| 6 X 6 X 5 | 4.50 114.3 | 14.00 355.6 | 17.25 438.2 | 11.12 282.7 | 58.0 26.3 |
| 6 X 6 X 6 | 4.50 114.3 | 14.00 355.6 | 18.25 463.6 | 11.50 292.1 | 60.5 27.4 |
| 8 X 8 X 3 | 6.00 152.4 | 18.00 457.2 | 18.19 462.0 | 13.19 335.0 | 100.0 45.4 |
| 8 X 8 X 4 | 6.00 152.4 | 18.00 457.2 | 19.00 482.6 | 13.50 342.9 | 110.0 49.9 |
| 8 X 8 X 5 | 6.00 152.4 | 18.00 457.2 | 20.00 508.0 | 13.88 352.6 | 111.0 50.3 |
| 8 X 8 X 6 | 6.00 152.4 | 18.00 457.2 | 21.12 536.7 | 14.38 365.1 | 112.0 50.8 |
| 8 X 8 X 8 | 6.00 152.4 | 18.00 457.2 | 23.25 590.6 | 15.25 387.4 | 120.0 54.4 |
| 10 X 10 X 3 | 6.50 165.1 | 20.50 520.7 | 19.88 505.0 | 14.88 378.0 | 130.0 59.0 |
| 10 X 10 X 4 | 6.50 165.1 | 20.50 520.7 | 20.75 527.1 | 15.25 387.4 | 135.0 61.2 |
| 10 X 10 X 5 | 6.50 165.1 | 20.50 520.7 | 21.88 555.8 | 15.75 400.1 | 140.0 63.5 |
| 10 X 10 X 6 | 6.50 165.1 | 20.50 520.7 | 22.88 581.2 | 16.12 409.6 | 145.0 65.8 |
| 10 x 10 x 8 | 6.50 165.1 | 20.50 520.7 | 27.25 692.2 | 19.25 489.0 | 150.0 68.0 |
| 10 x 10 x 10 | 6.50 165.1 | 20.50 520.7 | 27.25 692.2 | 18.00 457.2 | 190.0 86.2 |
| 12 x 12 x 3 | 7.00 177.8 | 23.00 584.2 | 20.00 508.0 | 15.75 400.1 | 140.0 63.5 |
| 12 x 12 x 4 | 7.00 177.8 | 23.00 584.2 | 20.00 508.0 | 15.50 393.7 | 145.0 65.8 |
| 12 X 12 X 6 | 7.00 177.8 | 23.00 584.2 | 20.00 508.0 | 15.25 387.4 | 165.0 74.8 |
| 12 X 12 X 8 | 7.00 177.8 | 23.00 584.2 | 20.00 508.0 | 15.00 381.0 | 175.0 79.4 |
| 12 x 12 x 10 | 7.00 177.8 | 23.00 584.2 | 20.00 508.0 | 14.75 374.6 | 200.0 90.7 |
| 12 x 12 x 12 | 7.00 177.8 | 23.00 584.2 | 31.00 787.4 | 20.50 520.7 | 240.0 108.9 |

| Nominal Size Inches mm | C to LE Inches mm | C to SE Inches mm | Net Wt Lbs. kg |
|------------------------------|-------------------------|-------------------------|----------------------|
| 3 x 3 x 2 | 8.50 215.9 | 3.25 82.6 | 9.8 4.4 |
| 3 x 3 x 2 1/2 | 8.50 215.9 | 3.25 82.6 | 15.5 5.2 |
| 4 x 4 x 2 | 10.50 266.7 | 3.75 95.3 | 15.5 7.0 |
| 4 x 4 x 2 1/2 | 10.50 266.7 | 3.75 95.3 | 17.0 7.7 |
| 4 x 4 x 3 | 10.50 266.7 | 3.75 95.3 | 18.5 8.4 |
| 5 x 5 x 2 | 12.50 317.5 | 4.00 101.6 | 22.5 10.2 |
| 5 x 5 x 3 | 12.50 317.5 | 4.00 101.6 | 26.5 12.0 |
| 5 x 5 x 4 | 12.50 317.5 | 4.00 101.6 | 30.5 13.8 |
| 6 x 6 x 2 | 14.00 355.6 | 4.50 114.3 | 33.0 15.0 |
| 6 x 6 x 3 | 14.00 355.6 | 4.50 114.3 | 37.0 16.8 |
| 6 x 6 x 4 | 14.00 355.6 | 4.50 114.3 | 40.0 18.1 |
| 6 x 6 x 5 | 14.00 355.6 | 4.50 114.3 | 45.0 20.4 |
| 8 x 8 x 4 | 18.00 457.2 | 6.00 152.4 | 59.6 27.0 |
| 8 x 8 x 5 | 18.00 457.2 | 6.00 152.4 | 68.0 30.8 |
| 8 x 8 x 6 | 18.00 457.2 | 6.00 152.4 | 75.0 34.0 |
| 10 x 10 x 4 | 20.50 520.7 | 6.50 165.1 | 83.0 37.6 |
| 10 x 10 x 5 | 20.50 520.7 | 6.50 165.1 | 100.0 45.4 |
| 10 x 10 x 6 | 20.50 520.7 | 6.50 165.1 | 105.0 47.6 |
| 10 x 10 x 8 | 20.50 520.7 | 6.50 165.1 | 116.0 52.6 |
| 12 x 12 x 4 | 23.00 584.2 | 7.00 177.8 | 137.0 62.1 |
| 12 x 12 x 6 | 23.00 584.2 | 7.00 177.8 | 140.0 63.5 |
| 12 x 12 x 8 | 23.00 584.2 | 7.00 177.8 | 147.0 66.7 |

| Nominal Size Inches mm | C to LE Inches mm | C to SE Inches mm | Net Wt Lbs. kg |
|------------------------------|-------------------------|-------------------------|----------------------|
| 12 x 12 x 10 | 23.00 584.2 | 7.00 177.8 | 168.0 76.2 |
| 14 x 14 x 4 | 26.50 673.1 | 7.50 190.5 | 173.0 78.5 |
| 14 x 14 x 6 | 26.50 673.1 | 7.50 190.5 | 185.0 83.9 |
| 14 x 14 x 8 | 26.50 673.1 | 7.50 190.5 | 195.0 88.5 |
| 14 x 14 x 10 | 26.50 673.1 | 7.50 190.5 | 223.0 101.2 |
| 14 x 14 x 12 | 26.50 673.1 | 7.50 190.5 | 240.0 108.9 |
| 16 x 16 x 6 | 29.00 736.6 | 8.00 203.2 | 235.0 106.6 |
| 16 x 16 x 8 | 29.00 736.6 | 8.00 203.2 | 250.0 113.4 |
| 16 x 16 x 10 | 29.00 736.6 | 8.00 203.2 | 263.0 119.3 |
| 16 x 16 x 12 | 29.00 736.6 | 8.00 203.2 | 283.0 128.4 |
| 16 x 16 x 14 | 29.00 736.6 | 8.00 203.2 | 307.0 139.3 |
| 18 x 18 x 6 | 32.00 812.8 | 8.50 215.9 | 275.0 124.7 |
| 18 x 18 x 8 | 32.00 812.8 | 8.50 215.9 | 306.0 138.8 |
| 18 x 18 x 10 | 32.00 812.8 | 8.50 215.9 | 321.0 145.6 |
| 18 x 18 x 12 | 32.00 812.8 | 8.50 215.9 | 333.0 151.0 |
| 18 x 18 x 14 | 32.00 812.8 | 8.50 215.9 | 358.0 162.4 |
| 18 x 18 x 16 | 32.00 812.8 | 8.50 215.9 | 382.0 173.3 |
| 20 x 20 x 12 | 35.00 889.0 | 9.00 228.6 | 390.0 176.9 |
| 20 x 20 x 14 | 35.00 889.0 | 9.00 228.6 | 410.0 186.0 |
| 20 x 20 x 16 | 35.00 889.0 | 9.00 228.6 | 440.0 199.6 |
| 24 x 24 x 16 | 40.00 1016.0 | 10.00 254.0 | 725.0 328.9 |
| 24 x 24 x 20 | 40.00 1016.0 | 10.00 254.0 | 785.0 356.1 |

Reducing Laterals are segmentally welded.

Tee Wye available in segmentally welded steel.

Sizes and configurations not shown are available and priced on application.



Installation

These grooved fittings are installed with Central Grooved couplings. The installation instructions for the grooved coupling must be followed as if the fitting was a piece of grooved piping.

Note: Piping systems must always be depressurized and drained before attempting to disassemble or remove any piping component.



Ordering Information

Ordering Information: When placing an order, indicate the full product name. Please specify the quantity, model, size, type of finish or coating.

Availability and Service: Central sprinklers, valves, accessories, and other products are available throughout the U.S. and Canada, and internationally, through a network of Central Sprinkler distribution centers. You may write directly to Central Sprinkler Company, or call (215) 362-0700 for the distributor nearest you.

Guarantee: Central Sprinkler Company will repair and/or replace any products found to be defective in material or workmanship within a period of one year from the date of shipment. Please refer to the current Price List for further details of the warranty.

Conversion Table:

1 inch = 25.400 mm
1 pound = 0.4536 kg
1 psi = 6.895 kpa
= 0.0689 bar
= 0.0703 kg/cm²

Conversions are approximate.

OBSOLETE

OBSOLETE



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