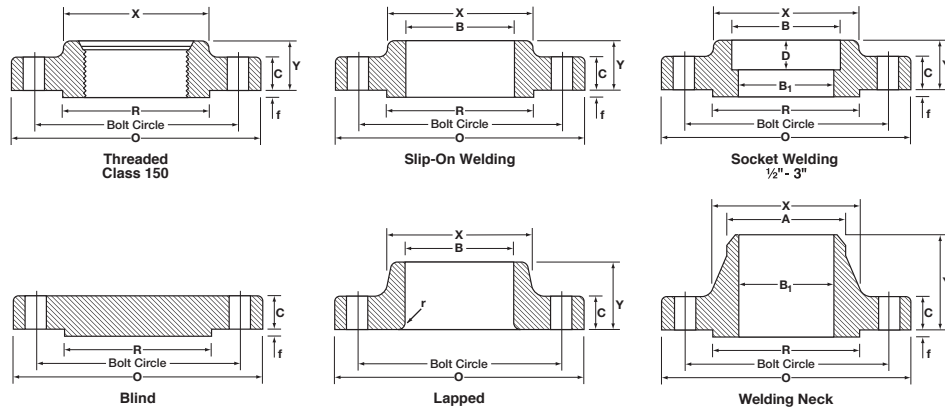


| Size | | Length Through Hub | | | | | Bore | | | | | Bolt Information | | | | | | | | | | |
|-------|------------------------|------------------------------|----------------------------|-------------------------------|-------------------|--|-------------------------------------|----------|----------------|--------------------------------|---------------|---------------------------------|---------------------------|-------------------------|---|-------------------|-------------------------|------------------------|-----------------|--------------------------|--|---|
| DN mm | Nominal Pipe Size inch | Outside Diameter of Flange O | Thickness of Flange Min. C | Thickness of Lap Joint Min. C | Diameter of Hub X | Hub Diameter Beginning of Chamfer Welding Neck A | Threaded/ Slip-On/ Socket Welding Y | Lapped Y | Welding Neck Y | Slip-On/ Socket Welding Min. B | Lapped Min. B | Welding Neck/ Socket Welding B1 | Diameter of Raised Face R | Height of Raised Face f | Corner Radius of Bore of Lapped Flange and Pipe r | Depth of Socket D | Diameter of Bolt Circle | Diameter of Bolt Holes | Number of Bolts | Diameter of Bolts (inch) | Length of Stud Bolts 1.6mm Raised Face | Length of Machine Bolts 1.6mm Raised Face |
| 15 | 1/2 | 88.9 | 9.7 | 11.2 | 30.2 | 21.3 | 14.2 | 15.7 | 46.0 | 22.4 | 22.9 | 35.1 | 1.6 | 3.0 | 9.7 | 60.5 | 15.9 | 4 | 1/2 | 57.2 | 50.8 | |
| 20 | 3/4 | 98.6 | 11.2 | 12.7 | 38.1 | 26.7 | 14.2 | 15.7 | 50.8 | 27.7 | 28.2 | 42.9 | 1.6 | 3.0 | 11.2 | 69.9 | 15.9 | 4 | 1/2 | 63.5 | 50.8 | |
| 25 | 1 | 108.0 | 12.7 | 14.2 | 49.3 | 33.5 | 15.7 | 17.5 | 53.8 | 34.5 | 35.1 | 50.8 | 1.6 | 3.0 | 12.7 | 79.2 | 15.9 | 4 | 1/2 | 63.5 | 57.2 | |
| 32 | 1-1/4 | 117.3 | 14.2 | 15.7 | 58.7 | 42.2 | 19.1 | 20.6 | 55.6 | 43.2 | 43.7 | 63.5 | 1.6 | 4.8 | 14.2 | 88.9 | 15.9 | 4 | 1/2 | 69.9 | 57.2 | |
| 40 | 1-1/2 | 127.0 | 15.7 | 17.5 | 65.0 | 48.3 | 20.6 | 22.4 | 60.5 | 49.5 | 50.0 | 73.2 | 1.6 | 6.4 | 15.7 | 98.6 | 15.9 | 4 | 1/2 | 69.9 | 63.5 | |
| 50 | 2 | 152.4 | 17.5 | 19.1 | 77.7 | 60.5 | 23.9 | 25.4 | 62.0 | 62.0 | 62.5 | 91.9 | 1.6 | 7.9 | 17.5 | 120.7 | 19.1 | 4 | 5/8 | 82.6 | 69.9 | |
| 65 | 2-1/2 | 177.8 | 20.6 | 22.4 | 90.4 | 73.2 | 26.9 | 28.4 | 68.3 | 74.7 | 75.4 | 104.6 | 1.6 | 7.9 | 19.1 | 139.7 | 19.1 | 4 | 5/8 | 88.9 | 76.2 | |
| 80 | 3 | 190.5 | 22.4 | 23.9 | 108.0 | 88.9 | 28.4 | 30.2 | 68.3 | 90.7 | 91.4 | 127.0 | 1.6 | 9.7 | 20.6 | 152.4 | 19.1 | 4 | 5/8 | 88.9 | 76.2 | |
| 90 | 3-1/2 | 215.9 | 22.4 | 23.9 | 122.2 | 101.6 | 30.2 | 31.8 | 69.9 | 103.4 | 104.1 | 139.7 | 1.6 | 9.7 | | 177.8 | 19.1 | 8 | 5/8 | 88.9 | 76.2 | |
| 100 | 4 | 228.6 | 22.4 | 23.9 | 134.9 | 114.3 | 31.8 | 33.3 | 74.7 | 116.1 | 116.8 | 157.2 | 1.6 | 11.2 | | 190.5 | 19.1 | 8 | 5/8 | 88.9 | 76.2 | |
| 125 | 5 | 254.0 | 22.4 | 23.9 | 163.6 | 141.2 | 35.1 | 36.6 | 87.4 | 143.8 | 144.5 | 185.7 | 1.6 | 11.2 | | 215.9 | 22.2 | 8 | 3/4 | 95.3 | 82.6 | |
| 150 | 6 | 279.4 | 23.9 | 25.4 | 192.0 | 168.4 | 38.1 | 39.6 | 87.4 | 170.7 | 171.5 | 215.9 | 1.6 | 12.7 | | 241.3 | 22.2 | 8 | 3/4 | 101.6 | 82.6 | |
| 200 | 8 | 342.9 | 26.9 | 28.4 | 246.1 | 219.2 | 42.9 | 44.5 | 100.1 | 221.5 | 222.3 | 269.7 | 1.6 | 12.7 | | 298.5 | 22.2 | 8 | 3/4 | 108.0 | 88.9 | |
| 250 | 10 | 406.4 | 28.4 | 30.2 | 304.8 | 273.1 | 47.8 | 49.3 | 100.1 | 276.4 | 277.4 | 323.9 | 1.6 | 12.7 | | 362.0 | 25.4 | 12 | 7/8 | 114.3 | 101.6 | |
| 300 | 12 | 482.6 | 30.2 | 31.8 | 365.3 | 323.9 | 53.8 | 55.6 | 112.8 | 327.2 | 328.2 | 381.0 | 1.6 | 12.7 | | 431.8 | 25.4 | 12 | 7/8 | 120.7 | 101.6 | |
| 350 | 14 | 533.4 | 33.3 | 35.1 | 400.1 | 355.6 | 55.6 | 79.2 | 125.5 | 359.2 | 360.2 | 412.8 | 1.6 | 12.7 | | 476.3 | 28.6 | 12 | 1 | 133.4 | 114.3 | |
| 400 | 16 | 596.9 | 35.1 | 36.6 | 457.2 | 406.4 | 62.0 | 87.4 | 125.5 | 410.5 | 411.2 | 469.9 | 1.6 | 12.7 | | 539.8 | 28.6 | 16 | 1 | 133.4 | 114.3 | |
| 450 | 18 | 635.0 | 38.1 | 39.6 | 505.0 | 457.2 | 66.5 | 96.8 | 138.2 | 461.8 | 462.3 | 533.4 | 1.6 | 12.7 | | 577.9 | 31.8 | 16 | 1-1/8 | 146.1 | 127.0 | |
| 500 | 20 | 698.5 | 41.1 | 42.9 | 558.8 | 508.0 | 71.4 | 103.1 | 142.7 | 513.1 | 514.4 | 584.2 | 1.6 | 12.7 | | 635.0 | 31.8 | 20 | 1-1/8 | 158.8 | 139.7 | |
| 600 | 24 | 812.8 | 46.0 | 47.8 | 663.4 | 609.6 | 81.0 | 111.3 | 150.9 | 616.0 | 616.0 | 692.2 | 1.6 | 12.7 | | 749.3 | 34.9 | 20 | 1-1/4 | 171.5 | 152.4 | |

To be specified by the purchaser

| Size | | Approximate piece weight in Kilograms | | | | | |
|------|-------|---------------------------------------|-----------|---------|-----------|-------------|----------|
| DN | NPS | Blind | Weld Neck | Slip-On | Lap Joint | Socket Weld | Threaded |
| 15 | 1/2 | 0.47 | 0.51 | 0.47 | 0.51 | 0.47 | 0.47 |
| 20 | 3/4 | 0.63 | 0.73 | 0.58 | 0.64 | 0.59 | 0.58 |
| 25 | 1 | 0.94 | 1.07 | 0.86 | 0.93 | 0.87 | 0.86 |
| 32 | 1-1/4 | 1.23 | 1.40 | 1.08 | 1.16 | 1.11 | 1.08 |
| 40 | 1-1/2 | 1.62 | 1.81 | 1.41 | 1.51 | 1.45 | 1.41 |
| 50 | 2 | 2.64 | 2.59 | 2.26 | 2.38 | 2.33 | 2.26 |
| 65 | 2-1/2 | 4.06 | 4.28 | 3.43 | 3.60 | 3.55 | 3.43 |
| 80 | 3 | 4.90 | 5.18 | 3.87 | 4.04 | 4.02 | 3.87 |
| 90 | 3-1/2 | 5.90 | 5.45 | 4.99 | 4.99 | | 4.99 |
| 100 | 4 | 7.41 | 7.32 | 5.75 | 5.96 | | 5.75 |
| 125 | 5 | 8.76 | 8.91 | 6.22 | 6.44 | | 6.22 |
| 150 | 6 | 11.31 | 11.26 | 7.38 | 7.59 | | 7.38 |
| 200 | 8 | 19.92 | 17.68 | 12.36 | 12.66 | | 12.36 |
| 250 | 10 | 29.39 | 24.79 | 17.10 | 16.78 | | 17.10 |
| 300 | 12 | 43.70 | 38.98 | 27.68 | 28.30 | | 27.68 |
| 350 | 14 | 59.42 | 51.71 | 35.20 | 41.50 | | 35.20 |
| 400 | 16 | 77.11 | 64.41 | 42.18 | 52.98 | | 42.18 |
| 450 | 18 | 94.80 | 74.84 | 49.71 | 59.00 | | 49.71 |
| 500 | 20 | 123.38 | 89.36 | 65.50 | 72.12 | | 65.50 |
| 600 | 24 | 188.24 | 119.66 | 90.50 | 99.02 | | 90.50 |



Notes:

1. Flange Raised Face Diameter and Height are based on a standard Raised Face, other flange facing types will change the "R" and "f" dimensions
2. For Threaded Flanges in this Class a counterbore is not required.
3. All dimensions are converted from the ASME B16.5 inch system to millimetres using 1" = 25.4 mm and rounded to one decimal point, except where noted.
4. All weights are approximate only.