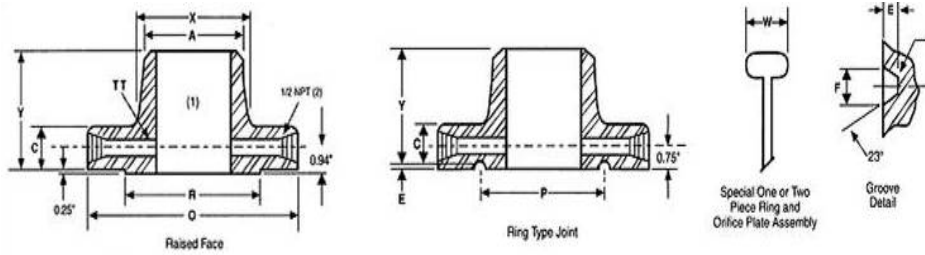


Welding Neck Orifice Class 900 Flanges



The welding neck flange is normally referred to as the "high hub" Flange. It is designed to transfer stresses to the pipe, thereby reducing high stress concentrations at the base of the Flange. The welding neck flange is the best designed butt-welded flange of those currently available because of its inherent structural value. It is expensive because of the design.

| | | | | | | | | | Drilling | | | | Ring Type Joint | | | |
|----|----------|--------|------------|----------|-------------|-----------|-------|----------------------------|-------------|----------|------------|-----------|-----------------|--------------|---------------|--------------|
| | Nom Size | OD | Thickne ss | OD of RF | Dia at Base | Dia Bevel | LTH | Dia of Pressure Connection | Bolt Circle | Hole Dia | # of holes | Pitch Dia | Groove Depth | Groove Width | Rad at Bottom | Spec Oval RH |
| | | O | C | R | X | A | Y | TT | | | | P | E | F | r max | W |
| in | 3 | 9.5 | 1.5 | 5 | 5 | 3.5 | 4 | 3/8 | 7.5 | 1 | 8 | 4.875 | 0.312 | 0.469 | 0.03 | 1.06 |
| mm | | 241.3 | 38.1 | 127 | 127 | 88.9 | 101.6 | 9.5 | 190.5 | 25.4 | | #### | 7.925 | 11.913 | 0.8 | 26.9 |
| in | 4 | 11.5 | 1.75 | 6.19 | 6.25 | 4.5 | 4.5 | 1/2 | 9.25 | 1.25 | 8 | 5.875 | 0.312 | 0.469 | 0.03 | 1.06 |
| mm | | 292.1 | 44.5 | 157.2 | 158.8 | 114.3 | 114.3 | 12.7 | 235 | 31.8 | | #### | 7.925 | 11.913 | 0.8 | 26.9 |
| in | 6 | 15 | 2.19 | 8.5 | 9.25 | 6.63 | 5.5 | 1/2 | 12.5 | 1.25 | 12 | 8.312 | 0.312 | 0.469 | 0.03 | 1.06 |
| mm | | 381 | 55.6 | 215.9 | 235 | 168.4 | 139.7 | 12.7 | 317.5 | 31.8 | | 211.125 | 7.925 | 11.913 | 0.8 | 26.9 |
| in | 8 | 18.5 | 2.5 | 10.62 | 11.75 | 8.63 | 6.38 | 1/2 | 15.5 | 1.5 | 12 | 10.625 | 0.312 | 0.469 | 0.03 | 1.06 |
| mm | | 469.9 | 63.5 | 269.7 | 298.5 | 219.2 | 162.1 | 12.7 | 393.7 | 38.1 | | #### | 7.925 | 11.913 | 0.8 | 26.9 |
| in | 10 | 21.5 | 2.75 | 12.75 | 14.5 | 10.75 | 7.25 | 1/2 | 18.5 | 1.5 | 16 | 12.75 | 0.312 | 0.469 | 0.03 | 1.06 |
| mm | | 546.1 | 69.9 | 323.9 | 368.3 | 273.1 | 184.2 | 12.7 | 469.9 | 38.1 | | #### | 7.925 | 11.913 | 0.8 | 26.9 |
| in | 12 | 24 | 3.12 | 15 | 16.5 | 12.75 | 7.88 | 1/2 | 21 | 1.5 | 20 | 15 | 0.312 | 0.469 | 0.03 | 1.06 |
| mm | | 609.6 | 79.2 | 381 | 419.1 | 323.9 | 200.2 | 12.7 | 533.4 | 38.1 | | #### | 7.925 | 11.913 | 0.8 | 26.9 |
| in | 14 | 25.25 | 3.38 | 16.25 | 17.75 | 14 | 8.38 | 1/2 | 22 | 1.62 | 20 | | | | | |
| mm | | 641.4 | 85.9 | 412.8 | 450.9 | 355.6 | 212.9 | 12.7 | 558.8 | 41.1 | | | | | | |
| in | 16 | 27.75 | 3.5 | 18.5 | 20 | 16 | 8.5 | 1/2 | 24.3 | 1.75 | 20 | | | | | |
| mm | | 704.9 | 88.9 | 469.9 | 508 | 406.4 | 215.9 | 12.7 | 616 | 44.5 | | | | | | |
| in | 18 | 31 | 4 | 21 | 22.25 | 18 | 9 | 1/2 | 27 | 2 | 20 | | | | | |
| mm | | 787.4 | 101.6 | 533.4 | 565.2 | 457.2 | 228.6 | 12.7 | 685.8 | 50.8 | | | | | | |
| in | 20 | 33.75 | 4.25 | 23 | 24.5 | 20 | 9.75 | 1/2 | 29.5 | 2.12 | 20 | | | | | |
| mm | | 857.3 | 108 | 584.2 | 622.3 | 508 | 247.7 | 12.7 | 749.3 | 53.8 | | | | | | |
| in | 24 | 41 | 5.5 | 27.25 | 29.5 | 24 | 11.5 | 1/2 | 35.5 | 2.62 | 20 | | | | | |
| mm | | 1041.4 | 139.7 | 692.2 | 749.3 | 609.6 | 292.1 | 12.7 | 901.7 | 66.5 | | | | | | |

1. Bore diameter to be specified by purchaser.
2. Other NPT and SW connections available upon request.

flange

forged flange

flanges

flange