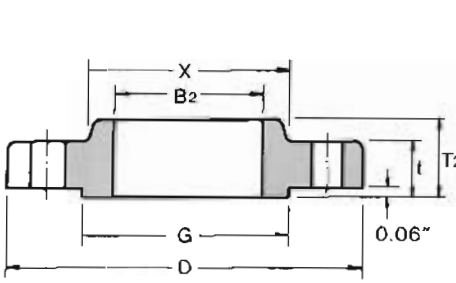
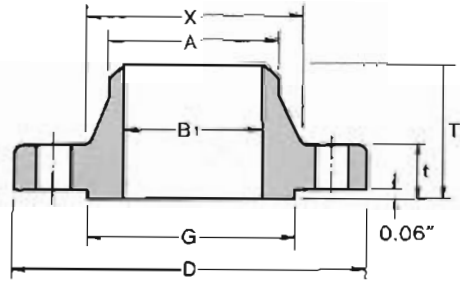


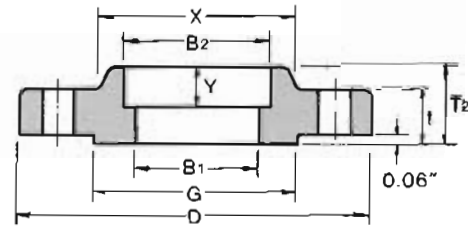
CLASS 150 FLANGES



SLIP-ON



WELDING NECK



SOCKET WELDING

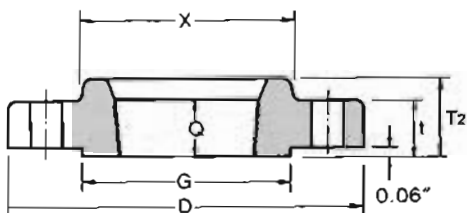
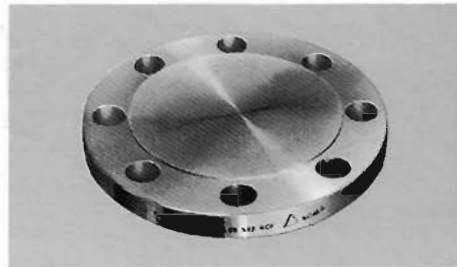
ANSI B16.5 FORGED FLANGES

Dimensions in inches

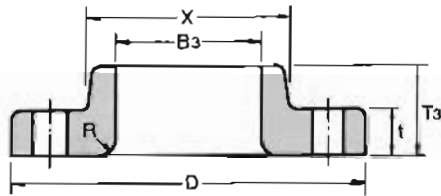
| Nominal Pipe Size | Outside Diam. D | Thick-ness t | O.D. of Raised Face G | Diam. at Base of Hub X | BORE | | | LENGTH THRU HUB | | | Diam. of Hub at Bevel A | Radius of Fillet R | Thread Length Q |
|---------------------|--------------------|-----------------|--------------------------|---------------------------|-----------------------------|------------------------|----------------|-----------------|---------------------------------|----------------|----------------------------|-----------------------|--------------------|
| | | | | | Welding Neck Socket Welding | Slip-on Socket Welding | Lap Joint | Welding Neck | Slip-on Threaded Socket Welding | Lap Joint | | | |
| | | | | | B ₁ | B ₂ | B ₃ | T ₁ | T ₂ | T ₃ | | | |
| 1/2 3/4 1 | 3.50 | 0.44 | 1.38 | 1.19 | 0.62 | 0.88 | 0.90 | 1.88 | 0.62 | 0.62 | 0.84 | 0.12 | 0.62 |
| | 3.88 | 0.50 | 1.69 | 1.50 | 0.82 | 1.09 | 1.11 | 2.06 | 0.62 | 0.62 | 1.05 | 0.12 | 0.62 |
| | 4.25 | 0.56 | 2.00 | 1.94 | 1.05 | 1.36 | 1.38 | 2.19 | 0.69 | 0.69 | 1.32 | 0.12 | 0.69 |
| 1 1/4 1 1/2 2 | 4.62 | 0.62 | 2.50 | 2.31 | 1.38 | 1.70 | 1.72 | 2.25 | 0.81 | 0.81 | 1.66 | 0.19 | 0.81 |
| | 5.00 | 0.69 | 2.88 | 2.56 | 1.61 | 1.95 | 1.97 | 2.44 | 0.88 | 0.88 | 1.90 | 0.25 | 0.88 |
| | 6.00 | 0.75 | 3.62 | 3.06 | 2.07 | 2.44 | 2.46 | 2.50 | 1.00 | 1.00 | 2.38 | 0.31 | 1.00 |
| 2 1/2 3 3 1/2 | 7.00 | 0.88 | 4.12 | 3.56 | 2.47 | 2.94 | 2.97 | 2.75 | 1.12 | 1.12 | 2.88 | 0.31 | 1.12 |
| | 7.50 | 0.94 | 5.00 | 4.25 | 3.07 | 3.57 | 3.60 | 2.75 | 1.19 | 1.19 | 3.50 | 0.38 | 1.19 |
| | 8.50 | 0.94 | 5.50 | 4.81 | 3.55 | 4.07 | 4.10 | 2.81 | 1.25 | 1.25 | 4.00 | 0.38 | 1.25 |
| 4 5 6 | 9.00 | 0.94 | 6.19 | 5.31 | 4.03 | 4.57 | 4.60 | 3.00 | 1.31 | 1.31 | 4.50 | 0.44 | 1.31 |
| | 10.00 | 0.94 | 7.31 | 6.44 | 5.05 | 5.66 | 5.69 | 3.50 | 1.44 | 1.44 | 5.56 | 0.44 | 1.44 |
| | 11.00 | 1.00 | 8.50 | 7.56 | 6.07 | 6.72 | 6.75 | 3.50 | 1.56 | 1.56 | 6.63 | 0.50 | 1.56 |
| 8 10 12 | 13.50 | 1.12 | 10.62 | 9.69 | 7.98 | 8.72 | 8.75 | 4.00 | 1.75 | 1.75 | 8.63 | 0.50 | 1.75 |
| | 16.00 | 1.19 | 12.75 | 12.00 | 10.02 | 10.88 | 10.92 | 4.00 | 1.94 | 1.94 | 10.75 | 0.50 | 1.94 |
| | 19.00 | 1.25 | 15.00 | 14.38 | 12.00 | 12.88 | 12.92 | 4.50 | 2.19 | 2.19 | 12.75 | 0.50 | 2.19 |
| 14 16 18 | 21.00 | 1.38 | 16.25 | 15.75 | 13.25 | 14.14 | 14.18 | 5.00 | 2.25 | 3.12 | 14.00 | 0.50 | 2.25 |
| | 23.50 | 1.44 | 18.50 | 18.00 | 15.25 | 16.16 | 16.19 | 5.00 | 2.50 | 3.44 | 16.00 | 0.50 | 2.50 |
| | 25.00 | 1.56 | 21.00 | 19.88 | 17.25 | 18.18 | 18.20 | 5.50 | 2.69 | 3.81 | 18.00 | 0.50 | 2.69 |
| 20 24 | 27.50 | 1.69 | 23.00 | 22.00 | 19.25 | 20.20 | 20.25 | 5.69 | 2.88 | 4.06 | 20.00 | 0.50 | 2.88 |
| | 32.00 | 1.88 | 27.25 | 26.12 | 23.25 | 24.25 | 24.25 | 6.00 | 3.25 | 4.38 | 24.00 | 0.50 | 3.25 |

Notes:

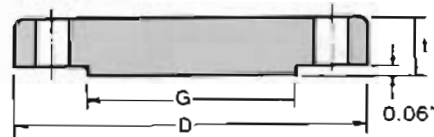
- (1) For the 'Bore' (B₁) other than Standard Wall Thickness, refer to page 61.
- (2) Class 150 flanges except Lap Joint will be furnished with 0.06" raised face, which is included in 'Thickness' (t) and 'Length through Hub' (T₁), (T₂).
- (3) For Slip-on, Threaded, Socket Welding and Lap Joint Flanges, the hubs can be shaped either vertical from base to top or tapered within the limits of 7 degrees.



THREADED



LAP JOINT



BLIND

Dimensions in inches

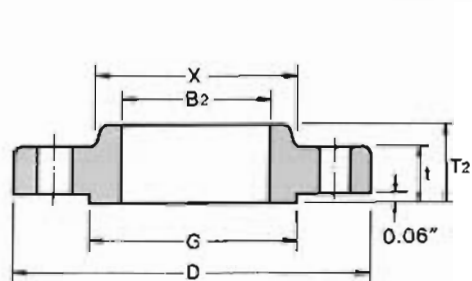
| Depth of Socket Y | DRILLING | | | BOLTING | | | APPROXIMATE WEIGHT | | | | | | | | | | | | Nominal Pipe Size | |
|----------------------|-------------------|-----------------|----------------|----------------|---------------------|------------------|--------------------|--------------|--------|----------------------|--------|-----------|--------|--------|--------|----------------|--------|-------|-------------------|-------|
| | Bolt Circle Diam. | Number of Holes | Diam. of Holes | Diam. of Bolts | Machine Bolt Length | Stud Bolt Length | | Welding Neck | | Slip-on and Threaded | | Lap Joint | | Blind | | Socket Welding | | | | |
| | | | | | | Raised Face | Raised Face | Ring Joint | Kg | lb. | Kg | lb. | Kg | lb. | Kg | lb. | Kg | lb. | | |
| 0.38 | 2.38 | 4 | 0.62 | 1/2 | 2.00 | 2.25 | - | 0.51 | 1.10 | 0.47 | 1.00 | 0.51 | 1.00 | 0.47 | 1.00 | 0.47 | 1.00 | 0.47 | 1.00 | 1/2 |
| 0.44 | 2.75 | 4 | 0.62 | 1/2 | 2.00 | 2.50 | - | 0.73 | 1.60 | 0.58 | 1.30 | 0.64 | 1.40 | 0.63 | 1.40 | 0.59 | 1.30 | 0.59 | 1.30 | 3/4 |
| 0.50 | 3.12 | 4 | 0.62 | 1/2 | 2.25 | 2.50 | 3.00 | 1.07 | 2.40 | 0.86 | 1.90 | 0.93 | 1.80 | 0.94 | 2.10 | 0.87 | 1.90 | 0.87 | 1.90 | 1 |
| 0.56 | 3.50 | 4 | 0.62 | 1/2 | 2.25 | 2.75 | 3.25 | 1.40 | 3.10 | 1.08 | 2.40 | 1.16 | 2.00 | 1.23 | 2.70 | 1.11 | 2.40 | 1.11 | 2.40 | 1 1/4 |
| 0.62 | 3.88 | 4 | 0.62 | 1/2 | 2.50 | 2.75 | 3.25 | 1.81 | 4.00 | 1.41 | 3.10 | 1.51 | 3.30 | 1.62 | 3.60 | 1.45 | 3.20 | 1.45 | 3.20 | 1 1/2 |
| 0.69 | 4.75 | 4 | 0.75 | 3/8 | 2.75 | 3.25 | 3.75 | 2.59 | 5.70 | 2.26 | 5.00 | 2.38 | 5.20 | 2.64 | 5.80 | 2.33 | 5.00 | 2.33 | 5.00 | 2 |
| 0.75 | 5.50 | 4 | 0.75 | 3/8 | 3.00 | 3.50 | 4.00 | 4.28 | 9.40 | 3.43 | 7.60 | 3.60 | 7.90 | 4.06 | 9.00 | 3.55 | 7.80 | 3.55 | 7.80 | 2 1/2 |
| 0.81 | 6.00 | 4 | 0.75 | 3/8 | 3.00 | 3.50 | 4.00 | 5.18 | 11.40 | 3.87 | 8.50 | 4.04 | 8.90 | 4.90 | 10.80 | 4.02 | 8.90 | 4.02 | 8.90 | 3 |
| 0.88 | 7.00 | 8 | 0.75 | 3/8 | 3.00 | 3.50 | 4.00 | 5.45 | 12.00 | 4.99 | 11.00 | 4.99 | 11.00 | 5.90 | 13.00 | 4.99 | 11.00 | 4.99 | 11.00 | 3 1/2 |
| 0.94 | 7.50 | 8 | 0.75 | 3/8 | 3.00 | 3.50 | 4.00 | 7.32 | 16.10 | 5.75 | 12.70 | 5.96 | 13.00 | 7.41 | 16.30 | 5.99 | 13.20 | 5.99 | 13.20 | 4 |
| 0.94 | 8.50 | 8 | 0.88 | 3/4 | 3.25 | 3.75 | 4.25 | 8.91 | 19.60 | 6.22 | 13.70 | 6.44 | 14.00 | 8.76 | 19.30 | 6.68 | 14.70 | 6.68 | 14.70 | 5 |
| 1.06 | 9.50 | 8 | 0.88 | 3/4 | 3.25 | 4.00 | 4.50 | 11.26 | 24.80 | 7.38 | 16.30 | 7.59 | 16.70 | 11.31 | 24.90 | 7.99 | 17.60 | 7.99 | 17.60 | 6 |
| 1.25 | 11.75 | 8 | 0.88 | 3/4 | 3.50 | 4.25 | 4.75 | 17.68 | 39.00 | 12.36 | 27.30 | 12.66 | 27.90 | 19.92 | 43.90 | 13.29 | 29.30 | 13.29 | 29.30 | 8 |
| 1.31 | 14.25 | 12 | 1.00 | 7/8 | 4.00 | 4.50 | 5.00 | 24.79 | 54.70 | 17.10 | 37.70 | 16.78 | 37.00 | 29.39 | 64.80 | 19.50 | 43.00 | 19.50 | 43.00 | 10 |
| 1.56 | 17.00 | 12 | 1.00 | 7/8 | 4.00 | 4.75 | 5.25 | 38.98 | 85.90 | 27.68 | 61.00 | 28.30 | 62.40 | 43.70 | 96.30 | 29.03 | 64.00 | 29.03 | 64.00 | 12 |
| 1.63 | 18.75 | 12 | 1.12 | 1 | 4.50 | 5.25 | 5.75 | 51.71 | 114.00 | 35.20 | 77.60 | 41.50 | 91.50 | 59.42 | 140.00 | 38.56 | 85.00 | 38.56 | 85.00 | 14 |
| 1.75 | 21.25 | 16 | 1.12 | 1 | 4.50 | 5.25 | 5.75 | 64.41 | 142.00 | 42.18 | 93.00 | 52.98 | 116.80 | 77.11 | 170.00 | 44.49 | 98.00 | 44.49 | 98.00 | 16 |
| 1.94 | 22.75 | 16 | 1.25 | 1 1/8 | 5.00 | 5.75 | 6.25 | 74.84 | 165.00 | 49.71 | 109.60 | 59.00 | 130.00 | 94.80 | 209.00 | 54.43 | 120.00 | 54.43 | 120.00 | 18 |
| 2.13 | 25.00 | 20 | 1.25 | 1 1/8 | 5.50 | 6.25 | 6.75 | 89.36 | 197.00 | 65.50 | 140.00 | 72.12 | 159.00 | 123.38 | 272.00 | 70.31 | 155.00 | 70.31 | 155.00 | 20 |
| 2.50 | 29.50 | 20 | 1.38 | 1 1/4 | 6.00 | 6.75 | 7.25 | 119.66 | 263.80 | 90.50 | 199.50 | 99.02 | 218.30 | 188.24 | 415.00 | 95.25 | 210.00 | 95.25 | 210.00 | 24 |

(4) Blind Flanges may be made with the same hub as that used for Slip-on Flanges or without hub.

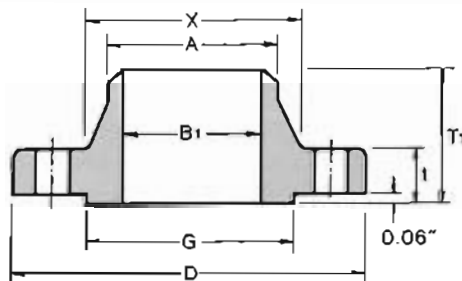
(5) The gasket surface and backside (bearing surface for bolting) are made parallel within 1 degree. To accomplish parallelism, spot facing is carried out according to MSS SP-9, without reducing thickness (t).

(6) Depth of Socket (Y) is covered by ANSI B16.5 only in sizes through 3 inch, over 3 inch is at the manufacturer's option.

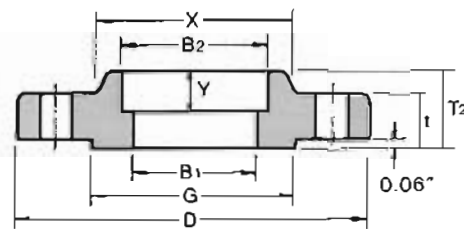
CLASS 300 FLANGES



SLIP-ON



WELDING NECK



SOCKET WELDING

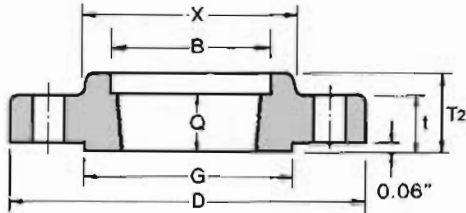
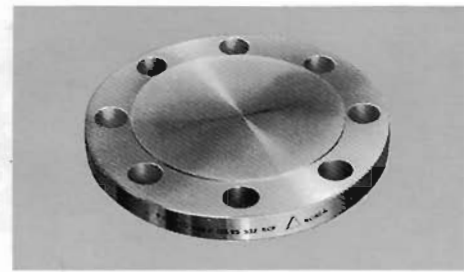
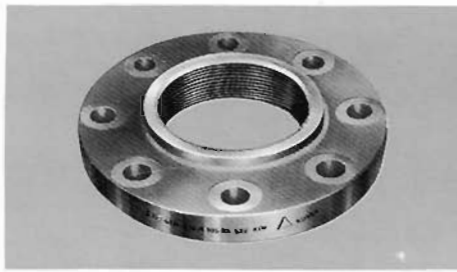
ANSI B16.5 FORGED FLANGES

Dimensions in inches

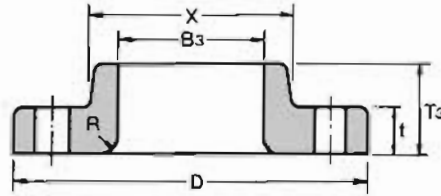
| Nominal Pipe Size | Outside Diam. | Thick-ness | O.D. of Raised Face | Diam. at Base of Hub | BORE | | | | LENGTH THRU HUB | | | Diam. of Hub at Bevel | Radius of Fillet | Thread Length |
|-------------------|---------------|------------|---------------------|----------------------|-----------------------------|------------------------|-----------|---------------------------------|-----------------|---------------------------------|----------------|-----------------------|------------------|---------------|
| | | | | | Welding Neck Socket Welding | Slip-on Socket Welding | Lap Joint | Counter Bore Min. Threaded Min. | Welding Neck | Slip-on Threaded Socket Welding | Lap Joint | | | |
| | | | | | D | t | G | X | B ₁ | B ₂ | B ₃ | | | |
| 1/2 | 3.75 | 0.56 | 1.38 | 1.50 | 0.62 | 0.88 | 0.90 | 0.93 | 2.06 | 0.88 | 0.88 | 0.84 | 0.12 | 0.62 |
| 3/4 | 4.62 | 0.62 | 1.69 | 1.88 | 0.82 | 1.09 | 1.11 | 1.14 | 2.25 | 1.00 | 1.00 | 1.05 | 0.12 | 0.62 |
| 1 | 4.88 | 0.69 | 2.00 | 2.12 | 1.05 | 1.36 | 1.38 | 1.41 | 2.44 | 1.06 | 1.06 | 1.32 | 0.12 | 0.69 |
| 1 1/4 | 5.25 | 0.75 | 2.50 | 2.50 | 1.38 | 1.70 | 1.72 | 1.75 | 2.56 | 1.06 | 1.06 | 1.66 | 0.19 | 0.81 |
| 1 1/2 | 6.12 | 0.81 | 2.88 | 2.75 | 1.61 | 1.95 | 1.97 | 1.99 | 2.69 | 1.19 | 1.19 | 1.90 | 0.25 | 0.88 |
| 2 | 6.50 | 0.88 | 3.62 | 3.31 | 2.07 | 2.44 | 2.46 | 2.50 | 2.75 | 1.31 | 1.31 | 2.38 | 0.31 | 1.12 |
| 2 1/2 | 7.50 | 1.00 | 4.12 | 3.94 | 2.47 | 2.94 | 2.97 | 3.00 | 3.00 | 1.50 | 1.50 | 2.88 | 0.31 | 1.25 |
| 3 | 8.25 | 1.12 | 5.00 | 4.62 | 3.07 | 3.57 | 3.60 | 3.63 | 3.12 | 1.69 | 1.69 | 3.50 | 0.38 | 1.25 |
| 3 1/2 | 9.00 | 1.19 | 5.50 | 5.25 | 3.55 | 4.07 | 4.10 | 4.13 | 3.19 | 1.75 | 1.75 | 4.00 | 0.38 | 1.44 |
| 4 | 10.00 | 1.25 | 6.19 | 5.75 | 4.03 | 4.57 | 4.60 | 4.63 | 3.38 | 1.88 | 1.88 | 4.50 | 0.44 | 1.44 |
| 5 | 11.00 | 1.38 | 7.31 | 7.00 | 5.05 | 5.66 | 5.69 | 5.69 | 3.88 | 2.00 | 2.00 | 5.56 | 0.44 | 1.69 |
| 6 | 12.50 | 1.44 | 8.50 | 8.12 | 6.07 | 6.72 | 6.75 | 6.75 | 3.88 | 2.06 | 2.06 | 6.63 | 0.50 | 1.81 |
| 8 | 15.00 | 1.62 | 10.62 | 10.25 | 7.98 | 8.72 | 8.75 | 8.75 | 4.38 | 2.44 | 2.44 | 8.63 | 0.50 | 2.00 |
| 10 | 17.50 | 1.88 | 12.75 | 12.62 | 10.02 | 10.88 | 10.92 | 10.88 | 4.62 | 2.62 | 3.75 | 10.75 | 0.50 | 2.19 |
| 12 | 20.50 | 2.00 | 15.00 | 14.75 | 12.00 | 12.88 | 12.92 | 12.94 | 5.12 | 2.88 | 4.00 | 12.75 | 0.50 | 2.38 |
| 14 | 23.00 | 2.12 | 16.25 | 16.75 | 13.25 | 14.14 | 14.18 | 14.19 | 5.62 | 3.00 | 4.38 | 14.00 | 0.50 | 2.50 |
| 16 | 25.50 | 2.25 | 18.50 | 19.00 | 15.25 | 16.16 | 16.19 | 16.19 | 5.75 | 3.25 | 4.75 | 16.00 | 0.50 | 2.69 |
| 18 | 28.00 | 2.38 | 21.00 | 21.00 | 17.25 | 18.18 | 18.20 | 18.19 | 6.25 | 3.50 | 5.12 | 18.00 | 0.50 | 2.75 |
| 20 | 30.50 | 2.50 | 23.00 | 23.12 | 19.25 | 20.20 | 20.25 | 20.19 | 6.38 | 3.75 | 5.50 | 20.00 | 0.50 | 2.88 |
| 24 | 36.00 | 2.75 | 27.25 | 27.62 | 23.25 | 24.25 | 24.25 | 24.19 | 6.62 | 4.19 | 6.00 | 24.00 | 0.50 | 3.25 |

Notes:

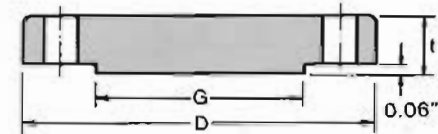
- (1) For the 'Bore' (B₁) other than Standard Wall Thickness, refer to page 61.
- (2) Class 300 flanges except Lap Joint will be furnished with 0.06" raised face, which is included in 'Thickness' (t) and 'Length through Hub' (T₁), (T₂).
- (3) For Slip-on, Threaded, Socket Welding and Lap Joint Flanges, the hubs can be shaped either vertical from base to or tapered within the limits of 7 degrees.



THREADED



LAP JOINT



BLIND

Dimensions in inches

| Depth of Socket | DRILLING | | | BOLTING | | | APPROXIMATE WEIGHT | | | | | | | | | | Nominal Pipe Size | |
|-----------------|-------------------|-----------------|----------------|----------------|---------------------|------------------|--------------------|--------------|--------|----------------------|--------|-----------|--------|--------|--------|----------------|-------------------|-------|
| | Bolt Circle Diam. | Number of Holes | Diam. of Holes | Diam. of Bolts | Machine Bolt Length | Stud Bolt Length | | Welding Neck | | Slip-on and Threaded | | Lap Joint | | Blind | | Socket Welding | | |
| | | | | | | Raised Face | Ring Joint | Kg | lb. | Kg | lb. | Kg | lb. | Kg | lb. | Kg | | lb. |
| Y | | | | | | | | | | | | | | | | | | |
| 0.38 | 2.62 | 4 | 0.62 | 1/2 | 2.25 | 2.50 | 3.00 | 0.78 | 1.70 | 0.62 | 1.40 | 0.61 | 1.30 | 0.62 | 1.40 | 0.62 | 1.40 | 1/2 |
| 0.44 | 3.25 | 4 | 0.75 | 5/8 | 2.50 | 3.00 | 3.50 | 1.34 | 3.00 | 1.15 | 2.50 | 1.15 | 2.50 | 1.16 | 2.50 | 1.19 | 2.60 | 3/4 |
| 0.50 | 3.50 | 4 | 0.75 | 5/8 | 2.50 | 3.00 | 3.50 | 1.64 | 3.60 | 1.39 | 3.10 | 1.38 | 3.00 | 1.42 | 3.00 | 1.44 | 3.20 | 1 |
| 0.56 | 3.88 | 4 | 0.75 | 5/8 | 2.75 | 3.25 | 3.75 | 2.06 | 4.50 | 1.67 | 3.70 | 1.66 | 3.70 | 1.79 | 3.90 | 1.73 | 3.80 | 1 1/2 |
| 0.62 | 4.50 | 4 | 0.88 | 3/4 | 3.00 | 3.50 | 4.00 | 3.06 | 6.70 | 2.53 | 5.60 | 2.52 | 5.60 | 2.68 | 5.90 | 2.62 | 5.80 | 1 1/2 |
| 0.69 | 5.00 | 8 | 0.75 | 3/8 | 3.00 | 3.50 | 4.00 | 3.40 | 7.50 | 2.80 | 6.20 | 2.79 | 6.20 | 3.09 | 6.80 | 2.94 | 6.50 | 2 |
| 0.75 | 5.88 | 8 | 0.88 | 3/4 | 3.25 | 4.00 | 4.50 | 5.31 | 11.70 | 4.25 | 9.40 | 4.22 | 9.30 | 4.75 | 10.50 | 4.49 | 9.90 | 2 1/2 |
| 0.81 | 6.62 | 8 | 0.88 | 3/4 | 3.50 | 4.25 | 4.75 | 7.32 | 16.10 | 5.81 | 12.80 | 5.78 | 12.70 | 6.79 | 14.90 | 6.20 | 13.70 | 3 |
| 0.88 | 7.25 | 8 | 0.88 | 3/4 | 3.75 | 4.25 | 5.00 | 8.17 | 18.00 | 7.72 | 17.00 | 7.72 | 17.00 | 9.53 | 21.00 | | | 3 1/2 |
| 0.94 | 7.88 | 8 | 0.88 | 3/4 | 3.75 | 4.50 | 5.00 | 11.30 | 24.90 | 10.13 | 22.30 | 10.07 | 22.20 | 12.00 | 26.50 | | | 4 |
| 0.94 | 9.25 | 8 | 0.88 | 3/4 | 4.25 | 4.75 | 5.25 | 15.12 | 33.30 | 12.58 | 27.70 | 12.52 | 27.60 | 15.96 | 35.20 | | | 5 |
| 1.06 | 10.62 | 12 | 0.88 | 3/4 | 4.25 | 4.75 | 5.50 | 19.68 | 43.40 | 16.04 | 35.40 | 15.95 | 35.20 | 21.20 | 46.70 | | | 6 |
| 1.25 | 13.00 | 12 | 1.00 | 7/8 | 4.75 | 5.50 | 6.00 | 30.48 | 67.20 | 24.50 | 54.00 | 24.37 | 53.70 | 34.80 | 76.30 | | | 8 |
| 1.31 | 15.25 | 16 | 1.12 | 1 | 5.50 | 6.25 | 6.75 | 43.74 | 96.40 | 34.16 | 75.30 | 39.92 | 88.00 | 55.34 | 122.00 | | | 10 |
| 1.56 | 17.75 | 16 | 1.25 | 1 1/8 | 5.75 | 6.75 | 7.25 | 64.41 | 142.00 | 51.26 | 113.00 | 58.70 | 129.40 | 78.90 | 174.00 | | | 12 |
| 1.63 | 20.25 | 20 | 1.25 | 1 1/8 | 6.25 | 7.00 | 7.50 | 88.30 | 194.70 | 72.12 | 159.00 | 83.46 | 184.00 | 107.05 | 236.00 | | | 14 |
| 1.75 | 22.50 | 20 | 1.38 | 1 1/4 | 6.50 | 7.50 | 8.00 | 112.94 | 249.00 | 90.40 | 199.30 | 106.14 | 234.00 | 139.25 | 307.00 | | | 16 |
| 1.94 | 24.75 | 24 | 1.38 | 1 1/4 | 6.75 | 7.75 | 8.25 | 138.34 | 305.00 | 109.00 | 240.30 | 133.95 | 295.30 | 176.90 | 396.00 | | | 18 |
| 2.13 | 27.00 | 24 | 1.38 | 1 1/2 | 7.25 | 8.00 | 8.75 | 167.37 | 369.00 | 136.00 | 300.00 | 157.65 | 347.60 | 223.17 | 492.00 | | | 20 |
| 2.50 | 32.00 | 24 | 1.62 | 1 1/2 | 8.00 | 9.00 | 10.00 | 235.41 | 519.00 | 204.00 | 449.70 | 240.40 | 530.00 | 342.00 | 754.00 | | | 24 |

(4) Blind Flanges may be made with the same hub as that used for Slip-on Flanges or without hub.

(5) The gasket surface and backside (bearing surface for bolting) are made parallel within 1 degree. To accomplish parallelism, spot facing is carried out according to MSS SP-9, without reducing thickness (t).

(6) Depth of Socket (Y) is covered by ANSI B16.5 only is sizes through 3 inch, over 3 inch is at the manufacturer's option.