



# A.V. FORGING

ENGINEERED FOR STRENGTH.  
BUILT FOR RELIABILITY.

## PREMIUM QUALITY FORGED FLANGES FOR EVERY APPLICATION

We manufacture a wide range of forged flanges that meet international standards and deliver exceptional performance in the most demanding environments.

QUALITY | STRENGTH | TRUST



HIGH  
STRENGTH



PRECISION  
MANUFACTURING



TRUSTED  
WORLDWIDE



### OUR RANGE OF FLANGES



WELD NECK  
FLANGES



SLIP-ON  
FLANGES



BLIND  
FLANGES



THREADED  
FLANGES



LAP JOINT  
FLANGES



SOCKET WELD  
FLANGES



#### QUALITY ASSURANCE

Stringent quality control  
at every stage



#### ADVANCED MANUFACTURING

State-of-the-art forging  
and machining facilities



#### GLOBAL PRESENCE

Serving industries  
across the world



#### CUSTOMER FOCUSED

Dedicated to delivering  
value and trust



#### A.V. FORGING

Opp. Hansa Industrial Park,  
Bhagwanpura Barwala Road  
Derabassi - 140507 (Punjab)



+91 8219741125  
+91 8950212448



info@avforging.com  
export@avforging.com



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BUILT STRONG.  
BUILT TO LAST.





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**PRECISION FORGED  
FLANGES**

QUALITY | STRENGTH | TRUST

## SLIP-ON WELD FLANGE

Slip-On Weld Flanges are slipped over the pipe or tube and welded (usually both inside and outside) to provide strength and to prevent leaks.

These flanges are at the low cost end of the scale, and do not require high accuracy when cutting the pipe or tube to length. They can sometimes have a boss or hub, and can be made with a bore to suit pipe or tube.



HIGH STRENGTH  
& DURABILITY



PRECISE  
DIMENSIONS



LEAK-PROOF  
PERFORMANCE



COST-EFFECTIVE  
SOLUTION



WIDE RANGE OF  
SIZES & CLASSES

### APPLICATIONS



Oil & Gas Industry



Petrochemical Plants



Water Treatment Plants



Power Generation



General Industrial  
Piping Systems

### MATERIALS

Carbon Steel, Stainless Steel,  
Alloy Steel, Duplex & Super Duplex,  
Nickel Alloys

### STANDARDS

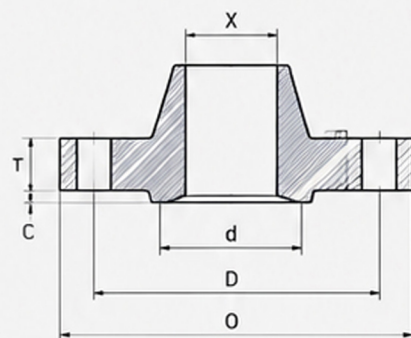
- ASME B16.5
- EN 1092-1
- MSS SP-44
- API 6A (on request)

### TYPES AVAILABLE

- Slip-On Weld Flange (SO)
- Raised Face (RF)
- Flat Face (FF)
- Ring Type Joint (RTJ)

### DIMENSIONAL TABLE (ASME B16.5)

| NPS<br>(Inch) | DN<br>(mm) | FLANGE DIMENSIONS         |                        |                               |                        |                       |                         |                 |                        |
|---------------|------------|---------------------------|------------------------|-------------------------------|------------------------|-----------------------|-------------------------|-----------------|------------------------|
|               |            | O<br>(Overall Dia.)<br>mm | C<br>(Thickness)<br>mm | D<br>(Bolt Circle Dia.)<br>mm | d<br>(Bore Dia.)<br>mm | T<br>(Hub Dia.)<br>mm | X<br>(Hub Length)<br>mm | No. of<br>Holes | H<br>(Hole Dia.)<br>mm |
| 1/2           | 15         | 89                        | 11.2                   | 60.5                          | 22.4                   | 35                    | 15.7                    | 4               | 15.7                   |
| 3/4           | 20         | 98                        | 12.7                   | 69.9                          | 27.7                   | 43                    | 15.7                    | 4               | 15.7                   |
| 1             | 25         | 108                       | 14.2                   | 79.2                          | 34.5                   | 51                    | 17.5                    | 4               | 15.7                   |
| 1 1/4         | 32         | 117                       | 15.7                   | 88.9                          | 43.2                   | 63                    | 20.6                    | 4               | 15.7                   |
| 1 1/2         | 40         | 127                       | 17.5                   | 98.6                          | 49.5                   | 73                    | 22.4                    | 4               | 15.7                   |
| 2             | 50         | 152                       | 19.1                   | 120.7                         | 62.0                   | 92                    | 25.4                    | 4               | 19.1                   |
| 2 1/2         | 65         | 178                       | 22.4                   | 139.7                         | 74.7                   | 105                   | 28.4                    | 4               | 19.1                   |
| 3             | 80         | 191                       | 23.9                   | 152.4                         | 90.7                   | 127                   | 30.2                    | 4               | 19.1                   |
| 4             | 100        | 229                       | 23.9                   | 190.5                         | 116.1                  | 157                   | 33.3                    | 8               | 19.1                   |
| 6             | 150        | 279                       | 25.4                   | 241.3                         | 170.7                  | 216                   | 35.1                    | 8               | 22.4                   |
| 8             | 200        | 343                       | 28.4                   | 298.5                         | 221.5                  | 270                   | 39.6                    | 8               | 22.4                   |
| 10            | 250        | 406                       | 30.2                   | 361.9                         | 276.4                  | 324                   | 41.4                    | 12              | 25.4                   |
| 12            | 300        | 483                       | 31.8                   | 431.8                         | 327.2                  | 381                   | 44.5                    | 12              | 25.4                   |
| 14            | 350        | 533                       | 35.1                   | 476.3                         | 359.2                  | 413                   | 47.8                    | 12              | 28.4                   |
| 16            | 400        | 597                       | 36.6                   | 539.8                         | 410.0                  | 470                   | 50.8                    | 16              | 28.4                   |
| 18            | 450        | 635                       | 39.6                   | 577.9                         | 461.8                  | 533                   | 52.3                    | 16              | 31.8                   |
| 20            | 500        | 698                       | 42.9                   | 635.0                         | 513.6                  | 584                   | 55.6                    | 20              | 31.8                   |
| 24            | 600        | 813                       | 47.8                   | 749.3                         | 616.0                  | 692                   | 63.5                    | 20              | 35.1                   |



#### NOTE:

- Dimensions are in millimeters (mm).
- Class 150 dimensions shown.
- Other classes (300, 600, 900, 1500, 2500) available on request.
- Custom sizes and special materials available as per requirements.



+91 8219741125  
+91 8950212448



info@avforging.com



www.avforging.com



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**Table Flanges**



**Raised Face Weld Neck Flanges**



**Threaded Flanges**



**Raised Face Slip-On (left)  
and Socketweld Flanges**

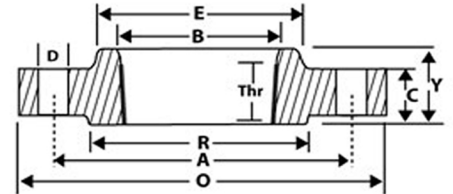
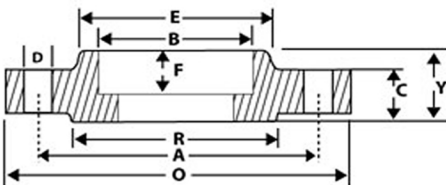
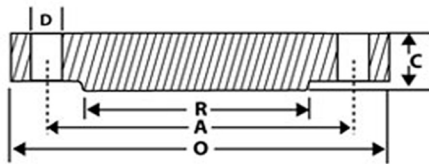
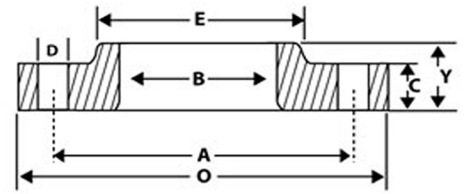
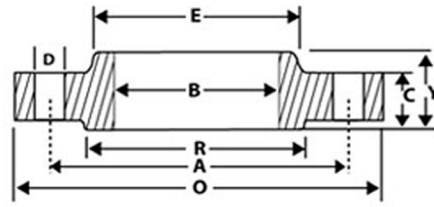
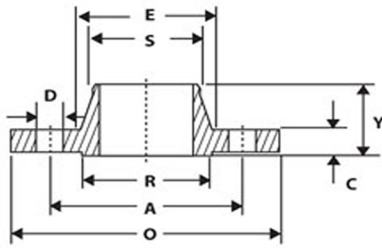


**Raised Face Blind Flanges**



**Blind Plate Flanges**





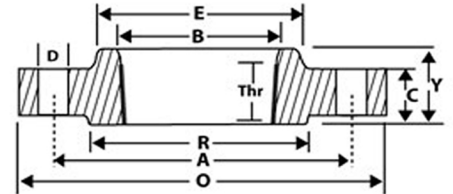
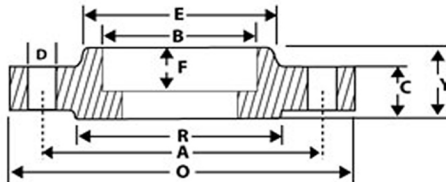
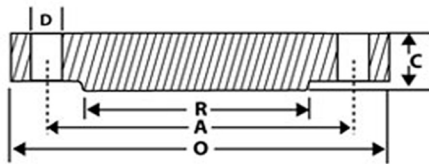
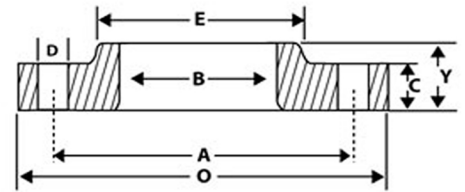
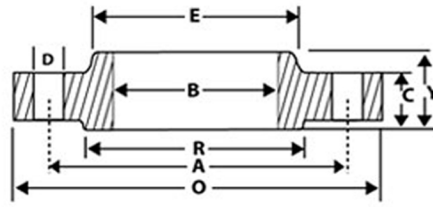
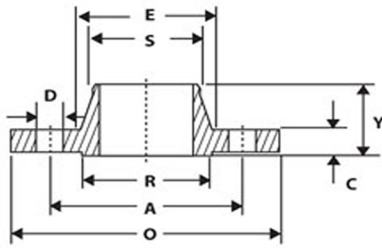
DIMENSIONS OF CLASS 150 FLANGES (ANSI B 16.5) (in mm)

| Nominal   |     | Flange | Dia of      | Dia of Bolt Holes | No. of | Thickness of Flange | Diameter at Weld Bevel | Dia of Hub | Length Through Hub |      |      | Bore 'B'  |      | Dia of | Depth of | Length    |
|-----------|-----|--------|-------------|-------------------|--------|---------------------|------------------------|------------|--------------------|------|------|-----------|------|--------|----------|-----------|
| Pipe Size |     | Dia    | Bolt Circle | 'D'               | Holes  | 'C'                 |                        | 'E'        |                    |      |      |           |      | R/F    | Socket   | of        |
|           |     | 'O'    | 'A'         |                   |        |                     |                        |            | S/O & S/W          | W/N  | L/J  | S/O & S/W | L/J  | R      | F        | Threading |
|           |     |        |             |                   |        |                     |                        |            | Y                  | Y    | Y    | B         | B    |        |          |           |
| 1/2"      | 15  | 88.9   | 60.3        | 15.9              | 4      | 11.1                | 21.3                   | 30.2       | 15.9               | 47.6 | 15.9 | 22.3      | 22.9 | 34.9   | 9.5      | 15.9      |
| 3/4"      | 20  | 98.4   | 69.8        | 15.9              | 4      | 12.7                | 26.7                   | 38.1       | 15.9               | 52.4 | 15.9 | 27.7      | 28.2 | 42.9   | 11.1     | 15.9      |
| 1"        | 25  | 107.9  | 79.4        | 15.9              | 4      | 14.3                | 33.5                   | 49.2       | 17.5               | 55.6 | 17.5 | 34.5      | 35   | 50.8   | 12.7     | 17.5      |
| 1 ¼"      | 32  | 117.5  | 88.9        | 15.9              | 4      | 15.9                | 42.2                   | 58.7       | 20.6               | 57.1 | 20.6 | 43.2      | 43.7 | 63.5   | 14.3     | 20.6      |
| 1 ½"      | 40  | 127    | 98.4        | 15.9              | 4      | 17.5                | 48.3                   | 65.1       | 22.2               | 61.9 | 22.2 | 49.5      | 50   | 73     | 15.9     | 22.2      |
| 2"        | 50  | 152.4  | 120.6       | 19                | 4      | 19                  | 60.4                   | 77.8       | 25.4               | 63.5 | 25.4 | 62        | 62.5 | 92.1   | 17.5     | 25.4      |
| 2 ½"      | 65  | 177.8  | 139.7       | 19                | 4      | 22.2                | 73.1                   | 90.5       | 28.6               | 69.8 | 28.6 | 74.7      | 75.4 | 105    | 19       | 28.6      |
| 3"        | 80  | 190.5  | 152.4       | 19                | 4      | 23.8                | 88.9                   | 107.9      | 30.2               | 69.8 | 30.2 | 90.7      | 91.4 | 127    | 20.6     | 30.2      |
| 3 ½"      | 90  | 216    | 177.8       | 19                | 8      | 23.8                | 101.6                  | 122.2      | 31.7               | 71.4 | 31.7 | 103.4     | 104  | 140    | 20.6     | 31.7      |
| 4"        | 100 | 228.6  | 190.5       | 19                | 8      | 23.8                | 114.3                  | 134.9      | 33.3               | 76.2 | 33.3 | 116.1     | 117  | 157    | 23.8     | 33.3      |
| 5"        | 125 | 254    | 215.9       | 22.2              | 8      | 23.8                | 141.2                  | 163.5      | 36.5               | 88.9 | 36.5 | 143.8     | 145  | 186    | 23.8     | 36.5      |
| 6"        | 150 | 279.4  | 241.3       | 22.2              | 8      | 25.4                | 168.4                  | 192.1      | 39.7               | 88.9 | 39.7 | 170.7     | 171  | 216    | 27       | 39.7      |
| 8"        | 200 | 342.9  | 298.4       | 22.2              | 8      | 28.6                | 219.2                  | 246.1      | 44.4               | 102  | 44.4 | 221.5     | 222  | 270    | 31.7     | 44.4      |
| 10"       | 250 | 406.4  | 361.9       | 25.4              | 12     | 30.2                | 273                    | 304.8      | 49.2               | 102  | 49.2 | 276.3     | 277  | 324    | 33.3     | 49.2      |
| 12"       | 300 | 482.6  | 431.8       | 25.4              | 12     | 31.8                | 323.8                  | 365.1      | 55.6               | 114  | 55.6 | 327.1     | 328  | 381    | 39.7     | 55.6      |
| 14"       | 350 | 533.4  | 476.2       | 28.6              | 12     | 34.9                | 355.6                  | 400        | 57.1               | 127  | 79.4 | 359.1     | 360  | 413    | 41.3     | 57.1      |
| 16"       | 400 | 596.9  | 539.7       | 28.6              | 16     | 36.5                | 406.4                  | 457.2      | 63.5               | 127  | 87.3 | 410.5     | 411  | 470    | 44.4     | 63.5      |
| 18"       | 450 | 635    | 577.8       | 31.7              | 16     | 39.7                | 457.2                  | 504.8      | 68.3               | 140  | 96.8 | 461.8     | 462  | 533    | 49.2     | 68.3      |
| 20"       | 500 | 698.5  | 635         | 31.7              | 20     | 42.9                | 508                    | 558.8      | 73                 | 145  | 103  | 513.1     | 514  | 584    | 54       | 73        |
| 24"       | 600 | 812.8  | 749.3       | 34.9              | 20     | 47.6                | 609.6                  | 663.6      | 82.5               | 152  | 111  | 615.9     | 616  | 692    | 63.5     | 82.5      |

Class 150 Flanges are durable, high-performance piping components manufactured from stainless steel, carbon steel, ductile iron, and other premium materials. Designed for reliable sealing and secure pipe connections, they offer excellent corrosion resistance, strength, and long service life. Available in Welding Neck, Slip-On, Blind, Threaded, Lap Joint, and Socket Weld types, these flanges are widely used in oil & gas, petrochemical, power, and water treatment industries.

**Note:** Thickness "C" includes a Raised Face (RF) thickness of 1.65 mm for Class 150 flanges.





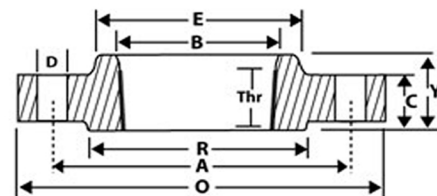
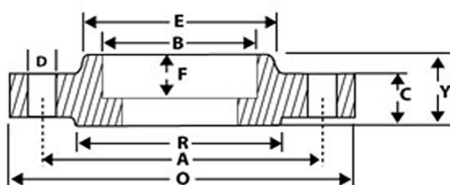
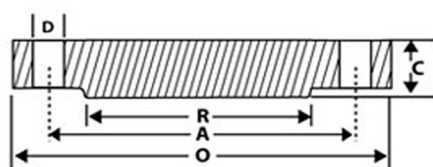
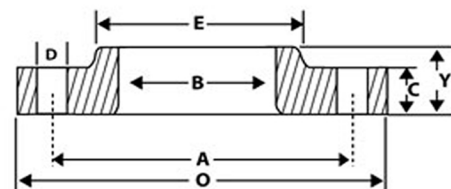
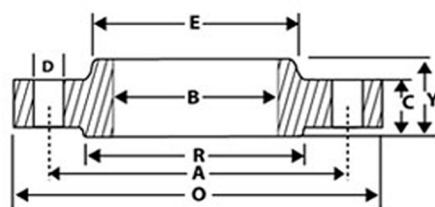
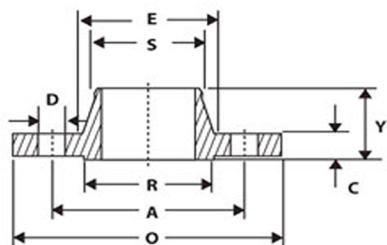
DIMENSIONS OF CLASS 300 FLANGES (ANSI B 16.5) (in mm)

| Nominal   |     | Flange | Dia of      | Dia of Bolt Holes | No. of | Thickness of Flange | Diameter at Weld Bevel | Dia of Hub | Length Through Hub |      |      | Bore 'B'  |      | Dia of | Depth of | Length    |
|-----------|-----|--------|-------------|-------------------|--------|---------------------|------------------------|------------|--------------------|------|------|-----------|------|--------|----------|-----------|
| Pipe Size |     | Dia    | Bolt Circle | 'D'               | Holes  | 'C'                 |                        | 'E'        |                    |      |      |           |      | R/F    | Socket   | of        |
|           |     | 'O'    | 'A'         |                   |        |                     |                        |            | S/O & S/W          | W/N  | L/J  | S/O & S/W | L/J  | R      | F        | Threading |
|           |     |        |             |                   |        |                     |                        |            | Y                  | Y    | Y    | B         | B    |        |          |           |
| 1/2"      | 15  | 95.2   | 66.7        | 15.9              | 4      | 14.3                | 21.3                   | 38.1       | 22.2               | 52.4 | 22.2 | 22.3      | 22.9 | 34.9   | 9.5      | 15.9      |
| 3/4"      | 20  | 117.5  | 82.5        | 19                | 4      | 15.9                | 26.7                   | 47.6       | 25.4               | 57.1 | 25.4 | 27.7      | 28.2 | 42.9   | 11.1     | 15.9      |
| 1"        | 25  | 123.8  | 88.9        | 19                | 4      | 17.5                | 33.5                   | 54         | 27                 | 61.9 | 27   | 34.5      | 35   | 50.8   | 12.7     | 17.5      |
| 1 ¼"      | 32  | 133.3  | 98.4        | 19                | 4      | 19                  | 42.2                   | 63.5       | 27                 | 65.1 | 27   | 43.2      | 43.7 | 63.5   | 14.3     | 20.6      |
| 1 ½"      | 40  | 155.6  | 114.3       | 22.2              | 4      | 20.6                | 48.3                   | 69.8       | 30.2               | 68.3 | 30.2 | 49.5      | 50   | 73     | 15.9     | 22.2      |
| 2"        | 50  | 165.1  | 127         | 19                | 8      | 22.2                | 60.4                   | 84.1       | 33.3               | 69.8 | 33.3 | 62        | 62.5 | 92.1   | 17.5     | 25.4      |
| 2 ½"      | 65  | 190.5  | 149.2       | 22.2              | 8      | 25.4                | 73.1                   | 100        | 38.1               | 76.2 | 38.1 | 74.7      | 75.4 | 105    | 19       | 28.6      |
| 3"        | 80  | 209.5  | 168.3       | 22.2              | 8      | 28.6                | 88.9                   | 117.5      | 42.9               | 79.4 | 42.9 | 90.7      | 91.4 | 127    | 20.6     | 30.2      |
| 3 ½"      | 90  | 228.5  | 184.2       | 22.2              | 8      | 30.2                | 101.6                  | 133.4      | 44.5               | 81   | 44.5 | 103.4     | 104  | 140    | 20.6     | 31.7      |
| 4"        | 100 | 254    | 200         | 22.2              | 8      | 31.8                | 114.3                  | 146        | 47.6               | 85.7 | 47.6 | 116.1     | 117  | 157    | 23.8     | 33.3      |
| 5"        | 125 | 279.4  | 234.9       | 22.2              | 8      | 34.9                | 141.2                  | 177.8      | 50.8               | 98.4 | 50.8 | 143.8     | 145  | 186    | -        | 36.5      |
| 6"        | 150 | 317.5  | 269.9       | 22.2              | 12     | 36.5                | 168.4                  | 206.4      | 52.4               | 98.4 | 52.4 | 170.7     | 171  | 216    | -        | 39.7      |
| 8"        | 200 | 381    | 330.2       | 25.4              | 12     | 41.3                | 219.2                  | 260.3      | 61.9               | 111  | 61.9 | 221.5     | 222  | 270    | -        | 44.4      |
| 10"       | 250 | 444.5  | 387.3       | 28.6              | 16     | 47.6                | 273                    | 320.7      | 66.7               | 118  | 95.2 | 276.3     | 277  | 324    | -        | 49.2      |
| 12"       | 300 | 520.7  | 450.8       | 31.7              | 16     | 50.8                | 323.8                  | 374.6      | 73                 | 130  | 102  | 327.1     | 328  | 381    | -        | 55.6      |
| 14"       | 350 | 584.2  | 514.3       | 31.7              | 20     | 54                  | 355.6                  | 425.4      | 76.2               | 143  | 111  | 359.1     | 360  | 413    | -        | 57.1      |
| 16"       | 400 | 647.7  | 571.5       | 34.9              | 20     | 57.2                | 406.4                  | 482.6      | 82.5               | 146  | 121  | 410.5     | 411  | 470    | -        | 63.5      |
| 18"       | 450 | 711.2  | 628.5       | 34.9              | 24     | 60.3                | 457.2                  | 533.4      | 88.9               | 159  | 130  | 461.8     | 462  | 533    | -        | 68.3      |
| 20"       | 500 | 774.7  | 685.8       | 34.9              | 24     | 63.5                | 508                    | 587.4      | 95.2               | 162  | 140  | 513.1     | 514  | 584    | -        | 73        |
| 24"       | 600 | 914.4  | 812.8       | 41.3              | 24     | 69.8                | 609.6                  | 701.7      | 106.4              | 168  | 152  | 615.9     | 616  | 692    | -        | 82.5      |

Class 300 Flanges are designed for higher-pressure piping applications, offering exceptional strength, reliability, and sealing performance. Manufactured in accordance with ANSI/ASME B16.5 standards, these flanges are available in various materials to suit demanding industrial environments. Common types include Welding Neck, Slip-On, Blind, Threaded, Lap Joint, and Socket Weld Flanges. Widely used in oil & gas, petrochemical, power generation, and process industries, Class 300 flanges ensure secure, leak-free connections and long-term durability.

**Note:** Thickness "C" includes a Raised Face (RF) thickness of 1.65 mm for Class 300 flanges.





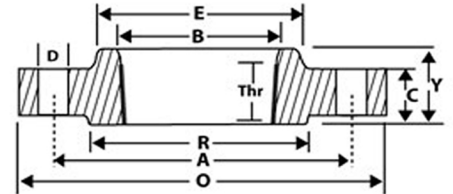
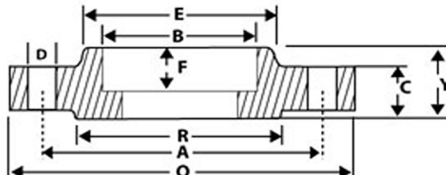
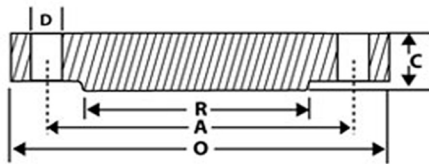
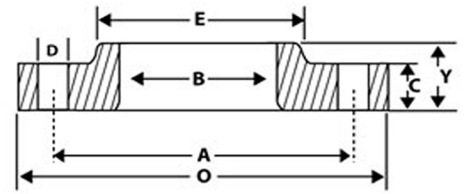
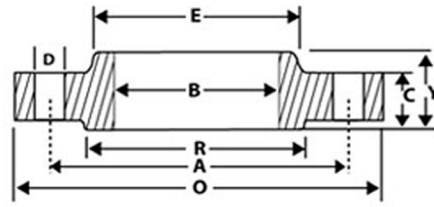
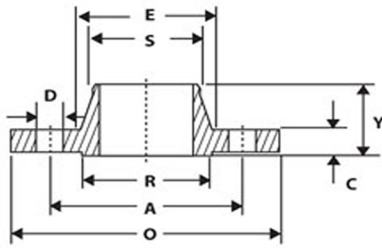
DIMENSIONS OF CLASS 600 FLANGES (ANSI B 16.5) (in mm)

| Nominal   |     | Flange | Dia of      | Dia of Bolt Holes | No. of | Thickness of Flange | Diameter at Weld Bevel | Dia of Hub | Length Through Hub |      |      | Bore 'B'  |      | Dia of | Depth of | Length    |
|-----------|-----|--------|-------------|-------------------|--------|---------------------|------------------------|------------|--------------------|------|------|-----------|------|--------|----------|-----------|
| Pipe Size |     | Dia    | Bolt Circle | 'D'               | Holes  | 'C'                 |                        | 'E'        |                    |      |      |           |      | R/F    | Socket   | of        |
|           |     | 'O'    | 'A'         |                   |        |                     |                        |            | S/O & S/W          | W/N  | L/J  | S/O & S/W | L/J  | R      | F        | Threading |
|           |     |        |             |                   |        |                     |                        |            | Y                  | Y    | Y    | B         | B    |        |          |           |
| 1/2"      | 15  | 95.2   | 66.7        | 15.9              | 4      | 14.3                | 21.3                   | 38.1       | 22.2               | 52.4 | 22.2 | 22.3      | 22.9 | 34.9   | 9.5      | 15.9      |
| 3/4"      | 20  | 117.5  | 82.5        | 19                | 4      | 15.9                | 26.7                   | 47.6       | 25.4               | 57.1 | 25.4 | 27.7      | 28.2 | 42.9   | 11.1     | 15.9      |
| 1"        | 25  | 123.8  | 88.9        | 19                | 4      | 17.5                | 33.5                   | 54         | 27                 | 61.9 | 27   | 34.5      | 35   | 50.8   | 12.7     | 17.5      |
| 1 ¼"      | 32  | 133.3  | 98.4        | 19                | 4      | 20.6                | 42.2                   | 63.5       | 28.6               | 66.7 | 28.6 | 43.2      | 43.7 | 63.5   | 14.3     | 20.6      |
| 1 ½"      | 40  | 155.6  | 114.3       | 22.2              | 4      | 22.2                | 48.3                   | 69.8       | 31.7               | 69.8 | 31.7 | 49.5      | 50   | 73     | 15.9     | 22.2      |
| 2"        | 50  | 165.1  | 127         | 19                | 8      | 25.4                | 60.4                   | 84.1       | 36.5               | 73   | 36.5 | 62        | 62.5 | 92.1   | 17.5     | 25.4      |
| 2 ½"      | 65  | 190.5  | 149.2       | 22.2              | 8      | 28.6                | 73.1                   | 100        | 41.3               | 79.4 | 41.3 | 74.7      | 75.4 | 105    | 19       | 28.6      |
| 3"        | 80  | 209.5  | 168.3       | 22.2              | 8      | 31.8                | 88.9                   | 117.5      | 46                 | 82.5 | 46   | 90.7      | 91.4 | 127    | -        | 30.2      |
| 3 ½"      | 90  | 228.5  | 184.2       | 22.2              | 8      | 34.9                | 101.6                  | 133.4      | 49.3               | 85.7 | 49.3 | 103.4     | 104  | 140    | -        | 31.7      |
| 4"        | 100 | 273    | 215.9       | 25.4              | 8      | 38.1                | 114.3                  | 152.4      | 54                 | 102  | 54   | 116.1     | 117  | 157    | -        | 33.3      |
| 5"        | 125 | 330.2  | 266.7       | 28.6              | 8      | 44.4                | 141.2                  | 188.9      | 60.3               | 114  | 60.3 | 143.8     | 145  | 186    | -        | 36.5      |
| 6"        | 150 | 355.6  | 292.1       | 28.6              | 12     | 47.6                | 168.4                  | 222.2      | 66.7               | 118  | 66.7 | 170.7     | 171  | 216    | -        | 39.7      |
| 8"        | 200 | 419.1  | 349.2       | 31.7              | 12     | 55.6                | 219.2                  | 273        | 76.2               | 133  | 76.2 | 221.5     | 222  | 270    | -        | 44.4      |
| 10"       | 250 | 508    | 431.8       | 34.9              | 16     | 63.5                | 273                    | 342.9      | 85.7               | 152  | 111  | 276.3     | 277  | 324    | -        | 49.2      |
| 12"       | 300 | 558.8  | 488.9       | 34.9              | 20     | 66.7                | 323.8                  | 400        | 92.1               | 156  | 117  | 327.1     | 328  | 381    | -        | 55.6      |
| 14"       | 350 | 603.2  | 527         | 38.1              | 20     | 69.9                | 355.6                  | 431.8      | 93.7               | 165  | 127  | 359.1     | 360  | 413    | -        | 57.1      |
| 16"       | 400 | 685.8  | 603.2       | 41.3              | 20     | 76.2                | 406.4                  | 495.3      | 106.4              | 178  | 140  | 410.5     | 411  | 470    | -        | 63.5      |
| 18"       | 450 | 742.9  | 654         | 44.4              | 24     | 82.6                | 457.2                  | 546.1      | 117.5              | 184  | 152  | 461.8     | 462  | 533    | -        | 68.3      |
| 20"       | 500 | 812.8  | 723.9       | 44.4              | 24     | 88.9                | 508                    | 609.6      | 127                | 191  | 165  | 513.1     | 514  | 584    | -        | 73        |
| 24"       | 600 | 939.8  | 838.2       | 50.8              | 24     | 101.6               | 609.6                  | 717.5      | 139.7              | 203  | 184  | 615.9     | 616  | 692    | -        | 82.5      |

Class 600 Flanges are high-pressure piping components engineered for superior strength, secure sealing, and reliable performance in demanding industrial applications. Manufactured to ANSI/ASME B16.5 standards, they are available in various materials and configurations, including Welding Neck, Slip-On, Blind, Threaded, Lap Joint, and Socket Weld Flanges. These flanges are widely used in oil & gas, petrochemical, power generation, and process industries where durability and leak-free operation are essential.

**Note:** Thickness "C" is exclusive of the Raised Face (RF) thickness of 6.25 mm for Class 600 flanges.



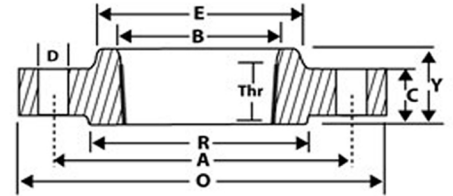
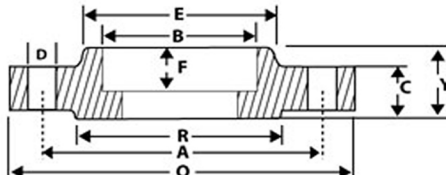
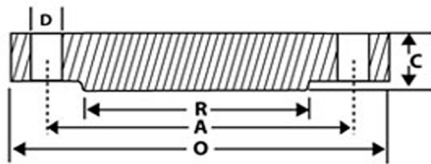
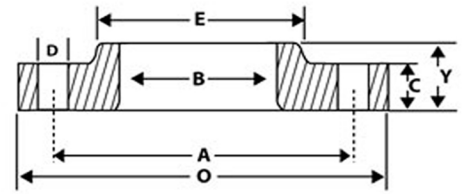
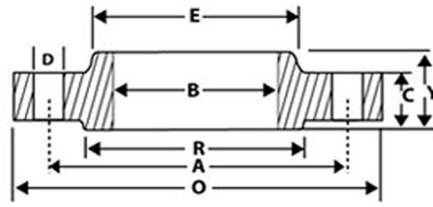
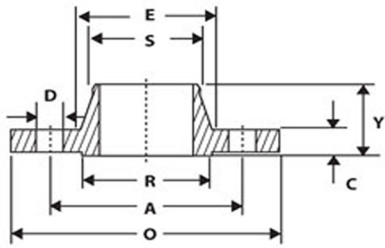


DIMENSIONS OF CLASS 900 FLANGES (ANSI B 16.5) (in mm)

| Nominal   |     | Flange | Dia of      | Dia of Bolt Holes | No. of | Thickness of Flange | Diameter at Weld Bevel | Dia of Hub | Length Through Hub |      |      | Bore 'B'  |      | Dia of | Depth of | Length    |
|-----------|-----|--------|-------------|-------------------|--------|---------------------|------------------------|------------|--------------------|------|------|-----------|------|--------|----------|-----------|
| Pipe Size |     | Dia    | Bolt Circle | 'D'               | Holes  | 'C'                 |                        | 'E'        |                    |      |      |           |      | R/F    | Socket   | of        |
|           |     | 'O'    | 'A'         |                   |        |                     |                        |            | S/O & S/W          | W/N  | L/J  | S/O & S/W | L/J  | R      | F        | Threading |
|           |     |        |             |                   |        |                     |                        |            | Y                  | Y    | Y    | B         | B    |        |          |           |
| 1/2"      | 15  | 95.2   | 66.7        | 15.9              | 4      | 14.3                | 21.3                   | 38.1       | 22.2               | 52.4 | 22.2 | 22.3      | 22.9 | 34.9   | 9.5      | 15.9      |
| 3/4"      | 20  | 117.5  | 82.5        | 19                | 4      | 15.9                | 26.7                   | 47.6       | 25.4               | 57.1 | 25.4 | 27.7      | 28.2 | 42.9   | 11.1     | 15.9      |
| 1"        | 25  | 123.8  | 88.9        | 19                | 4      | 17.5                | 33.5                   | 54         | 27                 | 61.9 | 27   | 34.5      | 35   | 50.8   | 12.7     | 17.5      |
| 1 ¼"      | 32  | 133.3  | 98.4        | 19                | 4      | 20.6                | 42.2                   | 63.5       | 28.6               | 66.7 | 28.6 | 43.2      | 43.7 | 63.5   | 14.3     | 20.6      |
| 1 ½"      | 40  | 155.6  | 114.3       | 22.2              | 4      | 22.2                | 48.3                   | 69.8       | 31.7               | 69.8 | 31.7 | 49.5      | 50   | 73     | 15.9     | 22.2      |
| 2"        | 50  | 165.1  | 127         | 19                | 8      | 25.4                | 60.4                   | 84.1       | 36.5               | 73   | 36.5 | 62        | 62.5 | 92.1   | 17.5     | 25.4      |
| 2 ½"      | 65  | 190.5  | 149.2       | 22.2              | 8      | 28.6                | 73.1                   | 100        | 41.3               | 79.4 | 41.3 | 74.7      | 75.4 | 105    | 19       | 28.6      |
| 3"        | 80  | 209.5  | 168.3       | 22.2              | 8      | 31.8                | 88.9                   | 117.5      | 46                 | 82.5 | 46   | 90.7      | 91.4 | 127    | -        | 30.2      |
| 3 ½"      | 90  | 228.5  | 184.2       | 22.2              | 8      | 34.9                | 101.6                  | 133.4      | 49.3               | 85.7 | 49.3 | 103.4     | 104  | 140    | -        | 31.7      |
| 4"        | 100 | 273    | 215.9       | 25.4              | 8      | 38.1                | 114.3                  | 152.4      | 54                 | 102  | 54   | 116.1     | 117  | 157    | -        | 33.3      |
| 5"        | 125 | 330.2  | 266.7       | 28.6              | 8      | 44.4                | 141.2                  | 188.9      | 60.3               | 114  | 60.3 | 143.8     | 145  | 186    | -        | 36.5      |
| 6"        | 150 | 355.6  | 292.1       | 28.6              | 12     | 47.6                | 168.4                  | 222.2      | 66.7               | 118  | 66.7 | 170.7     | 171  | 216    | -        | 39.7      |
| 8"        | 200 | 419.1  | 349.2       | 31.7              | 12     | 55.6                | 219.2                  | 273        | 76.2               | 133  | 76.2 | 221.5     | 222  | 270    | -        | 44.4      |
| 10"       | 250 | 508    | 431.8       | 34.9              | 16     | 63.5                | 273                    | 342.9      | 85.7               | 152  | 111  | 276.3     | 277  | 324    | -        | 49.2      |
| 12"       | 300 | 558.8  | 488.9       | 34.9              | 20     | 66.7                | 323.8                  | 400        | 92.1               | 156  | 117  | 327.1     | 328  | 381    | -        | 55.6      |
| 14"       | 350 | 603.2  | 527         | 38.1              | 20     | 69.9                | 355.6                  | 431.8      | 93.7               | 165  | 127  | 359.1     | 360  | 413    | -        | 57.1      |
| 16"       | 400 | 685.8  | 603.2       | 41.3              | 20     | 76.2                | 406.4                  | 495.3      | 106.4              | 178  | 140  | 410.5     | 411  | 470    | -        | 63.5      |
| 18"       | 450 | 742.9  | 654         | 44.4              | 24     | 82.6                | 457.2                  | 546.1      | 117.5              | 184  | 152  | 461.8     | 462  | 533    | -        | 68.3      |
| 20"       | 500 | 812.8  | 723.9       | 44.4              | 24     | 88.9                | 508                    | 609.6      | 127                | 191  | 165  | 513.1     | 514  | 584    | -        | 73        |
| 24"       | 600 | 939.8  | 838.2       | 50.8              | 24     | 101.6               | 609.6                  | 717.5      | 139.7              | 203  | 184  | 615.9     | 616  | 692    | -        | 82.5      |

Class 900 Flanges are premium high-pressure flanges designed for critical piping systems requiring exceptional strength, reliability, and sealing integrity. Manufactured in accordance with ANSI/ASME B16.5 standards, these flanges are suitable for demanding applications in oil & gas, petrochemical, power generation, chemical processing, and offshore industries. Available in Welding Neck, Slip-On, Blind, Threaded, Lap Joint, and Socket Weld types, Class 900 flanges provide secure, leak-proof connections and outstanding performance under high-pressure and high-temperature operating conditions.

Note: Thickness "C" is exclusive of the Raised Face (RF) thickness of 6.25 mm for Class 900 flanges.

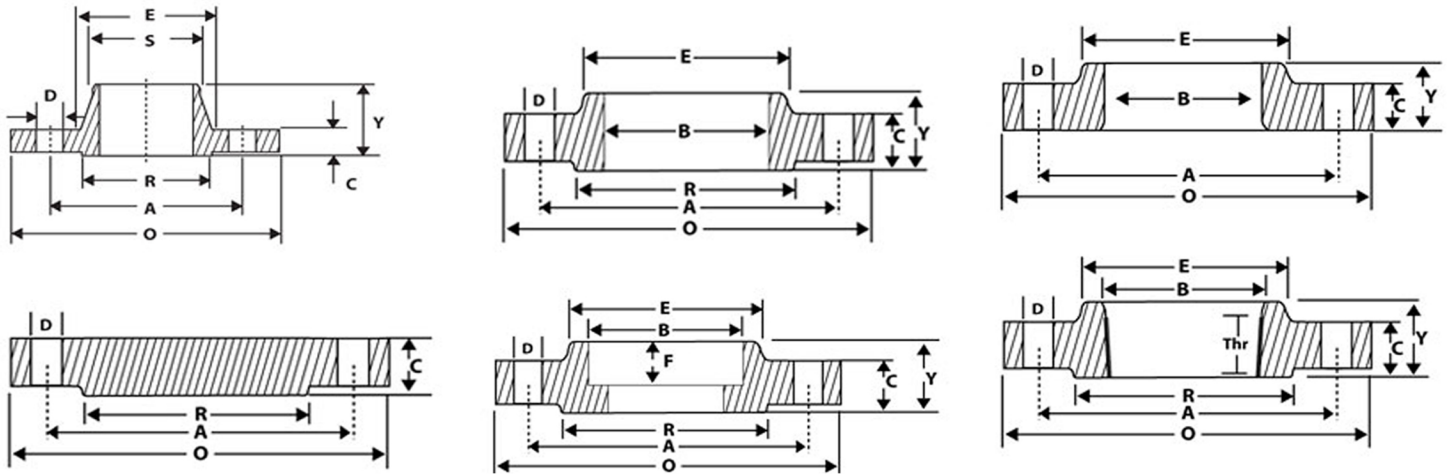


DIMENSIONS OF CLASS 1500 FLANGES (ANSI B 16.5) (in mm)

| Nominal   |     | Flange | Dia of      | Dia of Bolt Holes | No. of | Thickness of Flange | Diameter at Weld Bevel | Dia of Hub | Length Through Hub |      |      | Bore 'B'  |      | Dia of | Depth of | Length    |
|-----------|-----|--------|-------------|-------------------|--------|---------------------|------------------------|------------|--------------------|------|------|-----------|------|--------|----------|-----------|
| Pipe Size |     | Dia    | Bolt Circle | 'D'               | Holes  | 'C'                 |                        | 'E'        |                    |      |      |           |      | R/F    | Socket   | of        |
|           |     | 'O'    | 'A'         |                   |        |                     |                        |            | S/O & S/W          | W/N  | L/J  | S/O & S/W | L/J  | R      | F        | Threading |
|           |     |        |             |                   |        |                     |                        |            | Y                  | Y    | Y    | B         | B    |        |          |           |
| 1/2"      | 15  | 120.6  | 82.5        | 22.2              | 4      | 22.2                | 21.3                   | 38.1       | 31.7               | 60.3 | 31.7 | 22.3      | 22.9 | 34.9   | 9.5      | 22.2      |
| 3/4"      | 20  | 130.2  | 88.9        | 22.2              | 4      | 25.4                | 26.7                   | 44.4       | 34.9               | 69.8 | 34.9 | 27.7      | 28.2 | 42.9   | 11.1     | 25.4      |
| 1"        | 25  | 149.2  | 101.6       | 25.4              | 4      | 28.6                | 33.5                   | 52.4       | 41.3               | 73   | 41.3 | 34.5      | 35   | 50.8   | 12.7     | 28.6      |
| 1 ¼"      | 32  | 158.7  | 111.1       | 25.4              | 4      | 28.6                | 42.2                   | 63.5       | 41.3               | 73   | 41.3 | 43.2      | 43.7 | 63.5   | 14.3     | 30.2      |
| 1 ½"      | 40  | 177.8  | 123.8       | 28.6              | 4      | 31.8                | 48.3                   | 69.8       | 44.4               | 82.5 | 44.4 | 49.5      | 50   | 73     | 15.9     | 31.7      |
| 2"        | 50  | 215.9  | 165.1       | 25.4              | 8      | 38.1                | 60.4                   | 104.8      | 57.1               | 102  | 57.1 | 62        | 62.5 | 92.1   | 17.5     | 38.1      |
| 2 ½"      | 65  | 244.5  | 190.5       | 28.6              | 8      | 41.3                | 73.1                   | 123.8      | 63.5               | 124  | 63.5 | 74.7      | 75.4 | 105    | 19       | 47.6      |
| 3"        | 80  | 266.7  | 203.2       | 31.7              | 8      | 47.6                | 88.9                   | 133.3      | 73                 | 118  | 73   | 90.7      | 91.4 | 127    | -        | 50.8      |
| 4"        | 100 | 311.1  | 241.3       | 34.9              | 8      | 54                  | 114.3                  | 161.9      | 90.5               | 123  | 90.5 | 116.1     | 117  | 157    | -        | 57.1      |
| 5"        | 125 | 374.6  | 292.1       | 41.3              | 8      | 73                  | 141.2                  | 196.8      | 104.8              | 156  | 105  | 143.8     | 145  | 186    | -        | 63.5      |
| 6"        | 150 | 393.7  | 317.5       | 38.1              | 12     | 82.6                | 168.4                  | 228.6      | 119.1              | 171  | 119  | 170.7     | 171  | 216    | -        | 69.8      |
| 8"        | 200 | 482.6  | 393.7       | 44.4              | 12     | 92.1                | 219.2                  | 292.1      | 142.9              | 213  | 143  | 221.5     | 222  | 270    | -        | 76.2      |
| 10"       | 250 | 584.2  | 482.6       | 50.8              | 12     | 107.9               | 273                    | 368.3      | 158.7              | 254  | 178  | 276.3     | 277  | 324    | -        | 84.1      |
| 12"       | 300 | 673.1  | 571.5       | 54                | 16     | 123.8               | 323.8                  | 450.8      | 181                | 283  | 219  | 327.1     | 328  | 381    | -        | 92.1      |
| 14"       | 350 | 749.5  | 635         | 60.5              | 16     | 133.4               | 355.6                  | 495.3      | -                  | 299  | 241  | 359.1     | 360  | 413    | -        | -         |
| 16"       | 400 | 825.5  | 704.9       | 66.5              | 16     | 146.1               | 406.4                  | 552.5      | -                  | 311  | 260  | 410.5     | 411  | 470    | -        | -         |
| 18"       | 450 | 914.5  | 774.7       | 73.5              | 16     | 162                 | 457.2                  | 596.9      | -                  | 327  | 276  | 461.8     | 462  | 533    | -        | -         |
| 20"       | 500 | 984    | 831.9       | 79.5              | 16     | 177.8               | 508                    | 641.4      | -                  | 356  | 292  | 513.1     | 514  | 584    | -        | -         |
| 24"       | 600 | 1169   | 990.6       | 92                | 16     | 203.2               | 609.6                  | 762        | -                  | 406  | 330  | 615.9     | 616  | 692    | -        | -         |

**Note:** Thickness 'C' specified for Class 1500 Flanges is exclusive of the Raised Face (RF) thickness of 6.25 mm. The dimensions provided represent the flange body thickness only. Where Raised Face flanges are supplied, an additional 6.25 mm RF height shall be considered in the overall flange thickness, in accordance with applicable ASME B16.5 standards. This ensures accurate dimensional calculations for installation, mating flange alignment, and gasket seating requirements.

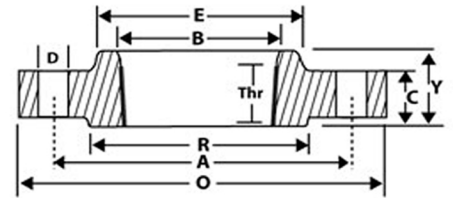
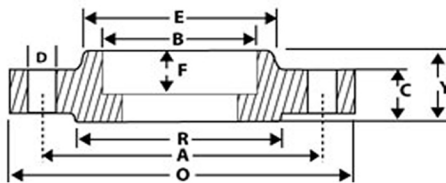
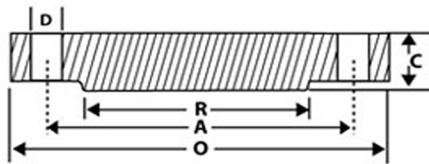
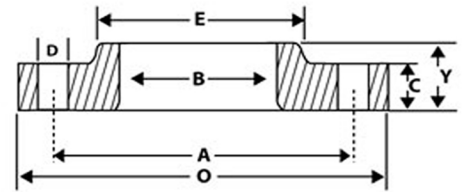
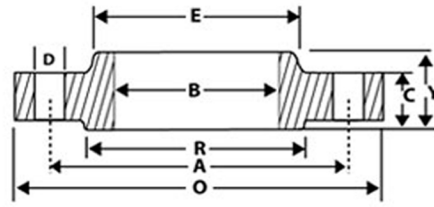
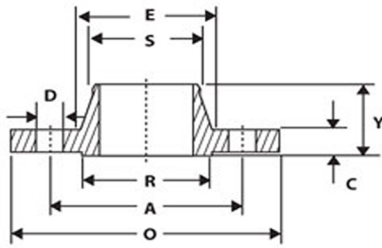




DIMENSIONS OF CLASS 2500 FLANGES (ANSI B 16.5) (in mm)

| Nominal   |     | Flange | Dia of      | Dia of Bolt Holes | No. of | Thickness of Flange | Diameter at Weld Bevel | Dia of Hub | Length Through Hub |           |      | Bore 'B' |           | Dia of | Depth of | Length |           |
|-----------|-----|--------|-------------|-------------------|--------|---------------------|------------------------|------------|--------------------|-----------|------|----------|-----------|--------|----------|--------|-----------|
| Pipe Size |     | Dia    | Bolt Circle | 'D'               | Holes  | 'C'                 |                        | 'E'        |                    |           |      |          |           | R/F    | Socket   | of     |           |
|           |     | 'O'    | 'A'         |                   |        |                     |                        |            |                    | S/O & S/W | W/N  | L/J      | S/O & S/W | L/J    | R        | F      | Threading |
|           |     |        |             |                   |        |                     |                        |            |                    | Y         | Y    | Y        | B         | B      |          |        |           |
| 1/2"      | 15  | 133.3  | 88.9        | 22.2              | 4      | 30.2                | 21.3                   | 42.9       | 39.7               | 73.3      | 39.7 | 22.3     | 22.9      | 34.9   | -        | 28.6   |           |
| 3/4"      | 20  | 139.7  | 95.2        | 22.2              | 4      | 31.7                | 26.7                   | 50.8       | 42.9               | 79.4      | 42.9 | 27.7     | 28.2      | 42.9   | -        | 31.7   |           |
| 1"        | 25  | 158.7  | 107.9       | 25.4              | 4      | 34.9                | 33.5                   | 57.1       | 47.7               | 88.9      | 47.7 | 34.5     | 35        | 50.8   | -        | 34.9   |           |
| 1 ¼"      | 32  | 184.1  | 130.2       | 28.6              | 4      | 38.1                | 42.2                   | 73         | 52.4               | 95.2      | 52.4 | 43.2     | 43.7      | 63.5   | -        | 38.1   |           |
| 1 ½"      | 40  | 203.2  | 146         | 31.7              | 4      | 44.4                | 48.3                   | 79.4       | 60.3               | 111       | 60.3 | 49.5     | 50        | 73     | -        | 44.4   |           |
| 2"        | 50  | 234.9  | 171.4       | 28.6              | 8      | 50.8                | 60.4                   | 95.2       | 69.8               | 127       | 69.8 | 62       | 62.5      | 92.1   | -        | 50.8   |           |
| 2 ½"      | 65  | 266.7  | 196.8       | 31.7              | 8      | 57.1                | 73.1                   | 114.3      | 79.4               | 143       | 79.4 | 74.7     | 75.4      | 105    | -        | 57.1   |           |
| 3"        | 80  | 304.8  | 228.6       | 34.9              | 8      | 66.7                | 88.9                   | 133.3      | 92.1               | 168       | 92.1 | 90.7     | 91.4      | 127    | -        | 63.5   |           |
| 4"        | 100 | 355.6  | 273         | 41.3              | 8      | 76.2                | 114.3                  | 165.1      | 107.9              | 191       | 108  | 116.1    | 117       | 157    | -        | 69.8   |           |
| 5"        | 125 | 419.1  | 323.8       | 47.6              | 8      | 92.1                | 141.2                  | 203.2      | 130                | 129       | 130  | 143.8    | 145       | 186    | -        | 76.2   |           |
| 6"        | 150 | 482.6  | 368.3       | 54                | 8      | 107.9               | 168.4                  | 234.9      | 152.4              | 273       | 152  | 170.7    | 171       | 216    | -        | 82.5   |           |
| 8"        | 200 | 552.4  | 438.1       | 54                | 12     | 127                 | 219.2                  | 304.8      | 177.8              | 318       | 178  | 221.5    | 222       | 270    | -        | 95.2   |           |
| 10"       | 250 | 673.1  | 539.7       | 66.7              | 12     | 165.1               | 273                    | 374.6      | 228.6              | 419       | 229  | 276.3    | 277       | 324    | -        | 107.9  |           |
| 12"       | 300 | 762    | 619.1       | 73                | 12     | 184.1               | 323.8                  | 441.3      | 254                | 464       | 254  | 327.1    | 328       | 381    | -        | 120.6  |           |
|           |     |        |             |                   |        |                     |                        |            |                    |           |      |          |           |        |          |        |           |

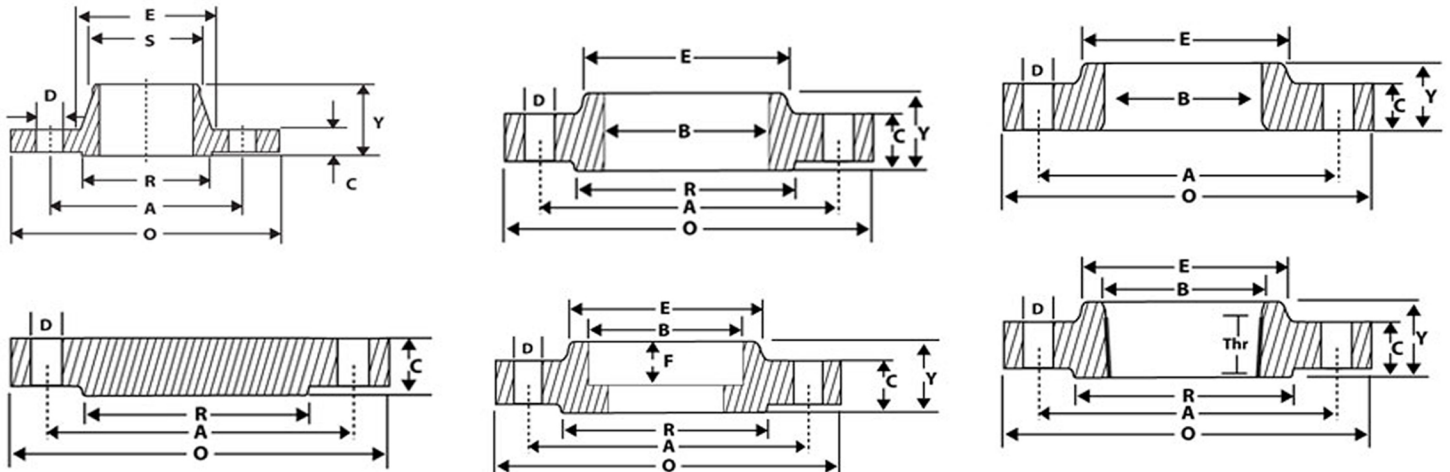
**Note:** Thickness 'C' specified for Class 2500 Flanges is exclusive of the Raised Face (RF) thickness of 7.0 mm. The stated dimension represents only the flange body thickness and does not include the Raised Face height. For Raised Face flanges, an additional 7.0 mm RF thickness shall be added to determine the overall flange thickness, in accordance with ASME B16.5 requirements. This distinction is important for accurate dimensional verification, flange alignment, gasket seating, and installation planning in high-pressure piping systems.



WELDING NECK FLANGES BORES (in inches)

| Nom    | Outsi | Sched  | Sched  | Sched  | Std.  | Sched  | Sched  | Extra  | Sched  | Sched  | Sched  | Sched  | Sched  | Double |
|--------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pipe   | Diam  | 10     | 20     | 30     | Wall  | 40     | 60     | Strong | 80     | 100    | 120    | 140    | 160    | Extra  |
| Size   |       |        |        |        |       |        |        |        | Strong |        |        |        |        |        |
| 1/2"   | 0.84  | 0.674  | -      | -      | 0.622 | 0.622  | -      | 0.546  | 0.546  | -      | -      | -      | 0.464  | 0.252  |
| 3/4"   | 1.05  | 0.884  | -      | -      | 0.824 | 0.824  | -      | 0.742  | 0.742  | -      | -      | -      | 0.612  | 0.434  |
| 1"     | 1.315 | 1.097  | -      | -      | 1.049 | 1.049  | -      | 0.957  | 0.957  | -      | -      | -      | 0.815  | 0.599  |
| 1.1/4" | 1.66  | 1.442  | -      | -      | 1.38  | 1.38   | -      | 1.278  | 1.278  | -      | -      | -      | 1.16   | 0.896  |
| 1.1/2" | 1.9   | 1.682  | -      | -      | 1.61  | 1.61   | -      | 1.5    | 1.5    | -      | -      | -      | 1.338  | 1.1    |
| 2"     | 2.375 | 2.157  | -      | -      | 2.067 | 2.067  | -      | 1.939  | 1.939  | -      | -      | -      | 1.687  | 1.503  |
| 2.1/2" | 2.875 | 2.635  | -      | -      | 2.469 | 2.469  | -      | 2.323  | 2.323  | -      | -      | -      | 2.125  | 1.771  |
| 3"     | 3.5   | 3.26   | -      | -      | 3.068 | 3.068  | -      | 2.9    | 2.9    | -      | -      | -      | 2.624  | 2.3    |
| 3-1/2" | 4     | 3.76   | -      | -      | 3.548 | 3.548  | -      | 3.364  | 3.364  | -      | -      | -      | -      | 2.728  |
| 4"     | 4.5   | 4.26   | -      | -      | 4.026 | 4.026  | -      | 3.826  | 3.826  | -      | 3.624  | -      | 3.438  | 3.152  |
| 5"     | 5.563 | 5.295  | -      | -      | 5.047 | 5.047  | -      | 4.813  | 4.813  | -      | 4.563  | -      | 4.313  | 4.063  |
| 6"     | 6.625 | 6.357  | -      | -      | 6.065 | 6.065  | -      | 5.761  | 5.761  | -      | 5.501  | -      | 5.187  | 4.897  |
| 8"     | 8.625 | 8.329  | 8.125  | 8.071  | 7.981 | 7.981  | 7.813  | 7.625  | 7.625  | 7.437  | 7.187  | 7.001  | 6.813  | 6.875  |
| 10"    | 10.75 | 10.42  | 10.25  | 10.136 | 10.02 | 10.02  | 9.75   | 9.75   | 9.562  | 9.312  | 9.062  | 8.75   | 8.5    | 8.75   |
| 12"    | 12.75 | 10.42  | 10.25  | 12.09  | 12    | 11.938 | 11.626 | 11.75  | 11.374 | 11.062 | 10.75  | 10.5   | 10.126 | 10.75  |
| 14"    | 14    | 13.5   | 13.376 | 13.25  | 13.25 | 13.124 | 12.812 | 13     | 12.5   | 12.124 | 11.814 | 11.5   | 11.188 | -      |
| 16"    | 16    | 15.5   | 15.376 | 15.25  | 15.25 | 15     | 14.688 | 15     | 14.312 | 13.938 | 13.564 | 13.124 | 12.812 | -      |
| 18"    | 18    | 17.5   | 17.376 | 17.124 | 17.25 | 16.876 | 16.5   | 17     | 16.124 | 15.688 | 15.25  | 14.876 | 14.438 | -      |
| 20"    | 20    | 19.5   | 19.25  | 19     | 19.25 | 18.812 | 18.376 | 19     | 17.938 | 17.438 | 17     | 16.5   | 16.062 | -      |
| 24"    | 24    | 23.5   | 23.25  | 22.876 | 23.25 | 22.624 | 22.062 | 23     | 21.562 | 20.938 | 20.376 | 19.876 | 19.312 | -      |
| 30"    | 30    | 29.376 | 29     | 28.75  | 29.25 | -      | -      | 29     | -      | -      | -      | -      | -      | -      |
| 36"    | 36    | 35.376 | 35     | 34.75  | 35.25 | 34.5   | -      | 35     | -      | -      | -      | -      | -      | -      |
| 42"    | 42    | -      | -      | -      | 41.25 | -      | -      | 41     | -      | -      | -      | -      | -      | -      |





ANSI FLANGES WEIGHT (KGS)

| Nom<br>Pipe<br>Size | 150# |      |      | 300# |      |      | 600# |      |      | 900# |      |      | 1500# |      |      | 2500# |     |     |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|-----|-----|
|                     | WN   | S/O  | B/K  | WN   | S/O  | B/K  | WN   | S/O  | B/K  | WN   | S/O  | B/K  | WN    | S/O  | B/K  | WN    | S/O | B/K |
| 1/2"                | 0.7  | 0.4  | 0.5  | 0.8  | 0.7  | 0.8  | 0.9  | 0.8  | 0.8  | 2.1  | 1.8  | 1.9  | 2.1   | 1.8  | 1.9  | 3.2   | 3   | 3   |
| 3/4"                | 0.8  | 0.7  | 0.8  | 1.4  | 1.2  | 1.2  | 1.6  | 1.4  | 1.4  | 2.7  | 2.4  | 2.7  | 2.7   | 2.4  | 2.7  | 3.6   | 4   | 4.5 |
| 1"                  | 1.1  | 0.8  | 0.9  | 1.7  | 1.4  | 1.5  | 1.9  | 1.7  | 1.7  | 3.9  | 3.6  | 3.7  | 3.9   | 3.6  | 3.7  | 5.4   | 5   | 5   |
| 1.1/4"              | 1.5  | 1.2  | 1.3  | 2.2  | 1.8  | 2    | 2.6  | 2.1  | 2.4  | 4.5  | 4.1  | 4.3  | 4.5   | 4.1  | 4.3  | 7.8   | 8   | 8   |
| 1.1/2"              | 1.8  | 1.4  | 1.6  | 3.2  | 2.7  | 2.9  | 3.6  | 3.1  | 3.4  | 6.2  | 5.4  | 5.9  | 6.2   | 5.4  | 5.9  | 11.5  | 11  | 11  |
| 2"                  | 2.7  | 2.2  | 2.6  | 3.6  | 3.2  | 3.5  | 4.7  | 3.9  | 4.4  | 11.3 | 10.5 | 11.3 | 11.3  | 10.5 | 11.3 | 19    | 17  | 17  |
| 2.1/2"              | 4.4  | 3.5  | 4.1  | 5.4  | 4.5  | 5.3  | 4.8  | 5.4  | 6.8  | 16.3 | 15.8 | 16   | 16.3  | 15.8 | 16   | 24    | 25  | 25  |
| 3"                  | 5.2  | 3.8  | 5.1  | 7.3  | 5.9  | 7.2  | 8.7  | 7.3  | 8.9  | 15   | 12.3 | 16.8 | 21    | 21.5 | 19.5 | 42.6  | 38  | 39  |
| 3-1/2"              | 6.4  | 5    | 6.5  | 8.9  | 7.5  | 9.2  | 11.6 | 9    | 12.7 | -    | -    | -    | -     | -    | -    | -     | -   | -   |
| 4"                  | 7.5  | 5.6  | 7.5  | 11.8 | 10   | 12.2 | 18.4 | 16.5 | 18.6 | 24   | 23.2 | 24.5 | 31.8  | 31   | 33   | 64    | 58  | 60  |
| 5"                  | 9.2  | 6.5  | 9.2  | 16   | 12.5 | 16   | 31   | 28.5 | 30.8 | 38.5 | 37.5 | 39.5 | 59    | 58.8 | 60   | 111   | 95  | 101 |
| 6"                  | 11   | 8.1  | 11.8 | 20.2 | 16.5 | 22   | 37   | 36.2 | 38   | 50   | 48.3 | 51.5 | 72    | 74   | 75   | 171   | 146 | 156 |
| 8"                  | 18.4 | 13   | 20.4 | 31.2 | 25.5 | 36   | 54.5 | 51.5 | 62.2 | 85   | 75   | 89   | 124   | 112  | 125  | 261   | 220 | 242 |
| 10"                 | 25.5 | 18.4 | 31   | 44.3 | 35   | 55   | 98.5 | 76.2 | 102  | 123  | 110  | 131  | 207   | 184  | 215  | 485   | 420 | 465 |
| 12"                 | 37   | 28.5 | 47   | 63.5 | 52   | 82.5 | 105  | 89.5 | 132  | 168  | 146  | 187  | 306   | 264  | 316  | 698   | 590 | 665 |
| 14"                 | 51   | 37.5 | 60   | 86   | 73   | 108  | 150  | 102  | 158  | 198  | 172  | 224  | 416   | -    | -    | -     | -   | -   |
| 16"                 | 61.5 | 44.5 | 61   | 112  | 88   | 139  | 177  | 150  | 225  | 225  | 192  | 259  | 567   | -    | -    | -     | -   | -   |
| 18"                 | 71.5 | 54   | 93   | 141  | 115  | 178  | 228  | 180  | 285  | 318  | 272  | 383  | 736   | -    | -    | -     | -   | -   |
| 20"                 | 85   | 72   | 127  | 173  | 139  | 228  | 285  | 231  | 365  | 376  | 330  | 482  | 929   | -    | -    | -     | -   | -   |
| 24"                 | 119  | 95   | 190  | 248  | 212  | 350  | 372  | 330  | 532  | 680  | 632  | 905  | 1504  | -    | -    | -     | -   | -   |

## Weld Neck Flanges:-

Weld Neck Flanges feature a long tapered hub and a bore that matches the pipe's inside diameter, providing smooth flow with minimal turbulence and erosion. Their butt-welded connection offers excellent strength and reliability, making them ideal for high-pressure, high-temperature, and critical service applications.

## Available Types:

- 1- Weld Neck Flanges – Raised Face (RF)
- 2- Weld Neck Flanges – Flat Face (FF)





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