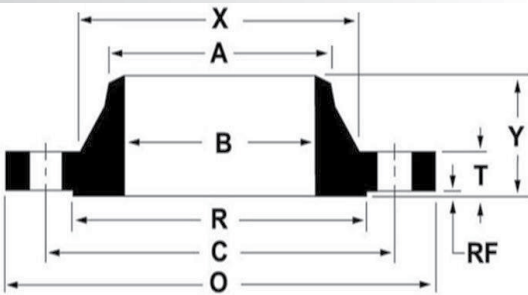


FLANGES

ANSI B16.5 CLASS 900 WELDING NECK FLANGES



All dimensions are in inches.

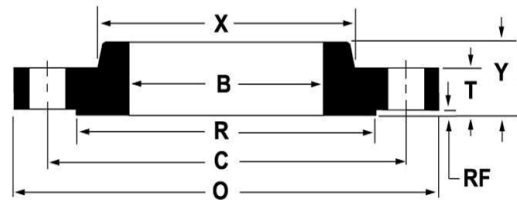
These flanges will be supplied with a 1/16" raised face unless otherwise specified.

Flat face option available.

| Nominal Pipe Size | Outside Diameter (O) | Thickness (T) | Raised Face Diameter (R) | Length Thru Hub (Y) | Hub Diameter (X) | Bore (B) | Approximate Weight (lbs) | Bolt Circle (C) | Number of Holes | Diameter of Holes |
|-------------------|----------------------|---------------|--------------------------|---------------------|------------------|------------------------|--------------------------|-----------------|-----------------|-------------------|
| inch | inch | inch | inch | inch | inch | inch | lbs | inch | count | inch |
| 1/2" | 4.75" | 0.88" | 1.38" | 2.38" | 1.50" | Specified by Purchaser | 5 | 3.25" | 4 | 0.88" |
| 3/4" | 5.13" | 1.00" | 1.69" | 2.75" | 1.75" | | 6 | 3.50" | 4 | 0.88" |
| 1" | 5.88" | 1.13" | 2.00" | 2.88" | 2.06" | | 9 | 4.00" | 4 | 1.00" |
| 1 1/4" | 6.25" | 1.13" | 2.50" | 2.88" | 2.50" | | 10 | 4.38" | 4 | 1.00" |
| 1 1/2" | 7.00" | 1.25" | 2.88" | 3.25" | 2.75" | | 13 | 4.88" | 4 | 1.13" |
| 2" | 8.50" | 1.50" | 3.63" | 4.00" | 4.13" | | 25 | 6.50" | 8 | 1.00" |
| 2 1/2" | 9.63" | 1.63" | 4.13" | 4.06" | 4.88" | | 36 | 7.50" | 8 | 1.13" |
| 3" | 9.50" | 1.50" | 5.00" | 4.00" | 5.00" | | 31 | 7.50" | 8 | 1.00" |
| 4" | 11.50" | 1.75" | 6.19" | 4.50" | 6.25" | | 53 | 9.25" | 8 | 1.25" |
| 5" | 13.75" | 2.00" | 7.31" | 5.00" | 7.50" | | 86 | 11.00" | 8 | 1.38" |
| 6" | 15.00" | 2.19" | 8.50" | 5.50" | 9.25" | | 110 | 12.50" | 12 | 1.25" |
| 8" | 18.50" | 2.50" | 10.63" | 6.38" | 11.75" | | 175 | 15.50" | 12 | 1.50" |
| 10" | 21.50" | 2.75" | 12.75" | 7.25" | 14.50" | | 260 | 18.50" | 16 | 1.50" |
| 12" | 24.00" | 3.13" | 15.00" | 7.88" | 16.50" | | 325 | 21.00" | 20 | 1.50" |
| 14" | 25.25" | 3.38" | 16.25" | 8.38" | 17.75" | | 400 | 22.00" | 20 | 1.63" |
| 16" | 27.75" | 3.50" | 18.50" | 8.50" | 20.00" | | 495 | 24.25" | 20 | 1.75" |
| 18" | 31.00" | 4.00" | 21.00" | 9.00" | 22.25" | | 680 | 27.00" | 20 | 2.00" |
| 20" | 33.75" | 4.25" | 23.00" | 9.75" | 24.50" | | 830 | 29.50" | 20 | 2.13" |
| 24" | 41.00" | 5.50" | 27.25" | 11.50" | 29.50" | | 1500 | 35.50" | 20 | 2.63" |

FLANGES

ANSI B16.5 CLASS 900 SLIP-ON FLANGES



All dimensions are in inches.

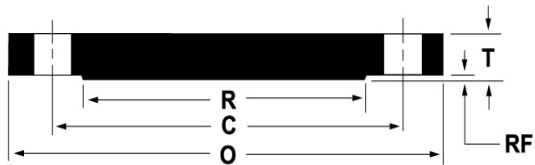
These flanges will be supplied with a 1/16" raised face unless otherwise specified.

Flat face option available

| Nominal Pipe Size | Outside Diameter (O) | Thickness (T) | Raised Face Diameter (R) | Length Thru Hub (Y) | Hub Diameter (X) | Bore (B) | Approximate Weight (lbs) | Bolt Circle (C) | Number of Holes | Diameter of Holes |
|-------------------|----------------------|---------------|--------------------------|---------------------|------------------|----------|--------------------------|-----------------|-----------------|-------------------|
| inch | inch | inch | inch | inch | inch | inch | lbs | inch | count | inch |
| 1/2" | 4.75" | 0.88" | 1.38" | 1.25" | 1.50" | 0.88" | 4 | 3.25" | 4 | 0.88" |
| 3/4" | 5.13" | 1.00" | 1.69" | 1.38" | 1.75" | 1.09" | 5 | 3.50" | 4 | 0.88" |
| 1" | 5.88" | 1.13" | 2.00" | 1.63" | 2.06" | 1.36" | 8 | 4.00" | 4 | 1.00" |
| 1 1/4" | 6.25" | 1.13" | 2.50" | 1.63" | 2.50" | 1.70" | 9 | 4.38" | 4 | 1.00" |
| 1 1/2" | 7.00" | 1.25" | 2.88" | 1.75" | 2.75" | 1.95" | 12 | 4.88" | 4 | 1.13" |
| 2" | 8.50" | 1.50" | 3.63" | 2.25" | 4.13" | 2.44" | 25 | 6.50" | 8 | 1.00" |
| 2 1/2" | 9.63" | 1.63" | 4.13" | 2.50" | 4.88" | 2.94" | 36 | 7.50" | 8 | 1.13" |
| 3" | 9.50" | 1.50" | 5.00" | 2.13" | 5.00" | 3.57" | 26 | 7.50" | 8 | 1.00" |
| 4" | 11.50" | 1.75" | 6.19" | 2.75" | 6.25" | 4.57" | 53 | 9.25" | 8 | 1.25" |
| 5" | 13.75" | 2.00" | 7.31" | 3.13" | 7.50" | 5.66" | 83 | 11.00" | 8 | 1.38" |
| 6" | 15.00" | 2.19" | 8.50" | 3.38" | 9.25" | 6.72" | 110 | 12.50" | 12 | 1.25" |
| 8" | 18.50" | 2.50" | 10.63" | 4.00" | 11.75" | 8.72" | 170 | 15.50" | 12 | 1.50" |
| 10" | 21.50" | 2.75" | 12.75" | 4.25" | 14.50" | 10.88" | 245 | 18.50" | 16 | 1.50" |
| 12" | 24.00" | 3.13" | 15.00" | 4.63" | 16.50" | 12.88" | 325 | 21.00" | 20 | 1.50" |
| 14" | 25.25" | 3.38" | 16.25" | 5.13" | 17.75" | 14.14" | 400 | 22.00" | 20 | 1.63" |
| 16" | 27.75" | 3.50" | 18.50" | 5.25" | 20.00" | 16.16" | 425 | 24.25" | 20 | 1.75" |
| 18" | 31.00" | 4.00" | 21.00" | 6.00" | 22.25" | 18.18" | 600 | 27.00" | 20 | 2.00" |
| 20" | 33.75" | 4.25" | 23.00" | 6.25" | 24.50" | 20.20" | 730 | 29.50" | 20 | 2.13" |
| 24" | 41.00" | 5.50" | 27.25" | 8.00" | 29.50" | 24.25" | 1400 | 35.50" | 20 | 2.63" |

FLANGES

ANSI B16.5 CLASS 900 BLIND FLANGES



| Nominal Pipe Size | Outside Diameter (O) | Thickness (T) | Raised Face Diameter (R) | Approximate Weight (lbs) | Bolt Circle (C) | Number of Holes | Diameter of Holes |
|-------------------|----------------------|---------------|--------------------------|--------------------------|-----------------|-----------------|-------------------|
| inch | inch | inch | inch | lbs | inch | count | inch |
| 1/2" | 4.75" | 0.88" | 1.38" | 4 | 3.25" | 4 | 0.88" |
| 3/4" | 5.13" | 1.00" | 1.69" | 6 | 3.50" | 4 | 0.88" |
| 1" | 5.88" | 1.13" | 2.00" | 8 | 4.00" | 4 | 1.00" |
| 1 1/4" | 6.25" | 1.13" | 2.50" | 9 | 4.38" | 4 | 1.00" |
| 1 1/2" | 7.00" | 1.25" | 2.88" | 13 | 4.88" | 4 | 1.13" |
| 2" | 8.50" | 1.50" | 3.63" | 25 | 6.50" | 8 | 1.00" |
| 2 1/2" | 9.63" | 1.63" | 4.13" | 35 | 7.50" | 8 | 1.13" |
| 3" | 9.50" | 1.50" | 5.00" | 29 | 7.50" | 8 | 1.00" |
| 4" | 11.50" | 1.75" | 6.19" | 54 | 9.25" | 8 | 1.25" |
| 5" | 13.75" | 2.00" | 7.31" | 87 | 11.00" | 8 | 1.38" |
| 6" | 15.00" | 2.19" | 8.50" | 115 | 12.50" | 12 | 1.25" |
| 8" | 18.50" | 2.50" | 10.63" | 200 | 15.50" | 12 | 1.50" |
| 10" | 21.50" | 2.75" | 12.75" | 290 | 18.50" | 16 | 1.50" |
| 12" | 24.00" | 3.13" | 15.00" | 415 | 21.00" | 20 | 1.50" |
| 14" | 25.25" | 3.38" | 16.25" | 520 | 22.00" | 20 | 1.63" |
| 16" | 27.75" | 3.50" | 18.50" | 600 | 24.25" | 20 | 1.75" |
| 18" | 31.00" | 4.00" | 21.00" | 850 | 27.00" | 20 | 2.00" |
| 20" | 33.75" | 4.25" | 23.00" | 1075 | 29.50" | 20 | 2.13" |
| 24" | 41.00" | 5.50" | 27.25" | 2025 | 35.50" | 20 | 2.63" |

All dimensions are in inches.

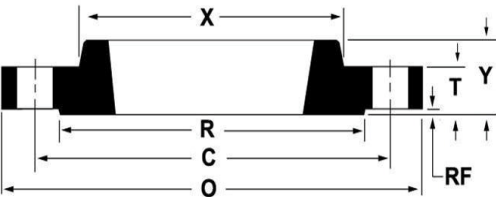
These flanges will be supplied with a 1/16" raised face unless otherwise specified.

Flat face option available

FLANGES

ANSI B16.5 CLASS 900 THREADED FLANGES

| Nominal Pipe Size | Outside Diameter (O) | Thickness (T) | Raised Face Diameter (R) | Length Thru Hub (Y) | Hub Diameter (X) | Approximate Weight (lbs) | Bolt Circle (C) | Number of Holes | Diameter of Holes |
|-------------------|----------------------|---------------|--------------------------|---------------------|------------------|--------------------------|-----------------|-----------------|-------------------|
| inch | inch | inch | inch | inch | inch | lbs | inch | count | inch |
| 1/2" | 4.75" | 0.88" | 1.38" | 1.25" | 1.50" | 4 | 3.25" | 4 | 0.88" |
| 3/4" | 5.13" | 1.00" | 1.69" | 1.38" | 1.75" | 5 | 3.50" | 4 | 0.88" |
| 1" | 5.88" | 1.13" | 2.00" | 1.63" | 2.06" | 8 | 4.00" | 4 | 1.00" |
| 1 1/4" | 6.25" | 1.13" | 2.50" | 1.63" | 2.50" | 9 | 4.38" | 4 | 1.00" |
| 1 1/2" | 7.00" | 1.25" | 2.88" | 1.75" | 2.75" | 12 | 4.88" | 4 | 1.13" |
| 2" | 8.50" | 1.50" | 3.63" | 2.25" | 4.13" | 25 | 6.50" | 8 | 1.00" |
| 2 1/2" | 9.63" | 1.63" | 4.13" | 2.50" | 4.88" | 36 | 7.50" | 8 | 1.13" |
| 3" | 9.50" | 1.50" | 5.00" | 2.13" | 5.00" | 26 | 7.50" | 8 | 1.00" |
| 4" | 11.50" | 1.75" | 6.19" | 2.75" | 6.25" | 53 | 9.25" | 8 | 1.25" |
| 5" | 13.75" | 2.00" | 7.31" | 3.13" | 7.50" | 83 | 11.00" | 8 | 1.38" |
| 6" | 15.00" | 2.19" | 8.50" | 3.38" | 9.25" | 110 | 12.50" | 12 | 1.25" |
| 8" | 18.50" | 2.50" | 10.63" | 4.00" | 11.75" | 170 | 15.50" | 12 | 1.50" |
| 10" | 21.50" | 2.75" | 12.75" | 4.25" | 14.50" | 245 | 18.50" | 16 | 1.50" |
| 12" | 24.00" | 3.13" | 15.00" | 4.63" | 16.50" | 325 | 21.00" | 20 | 1.50" |
| 14" | 25.25" | 3.38" | 16.25" | 5.13" | 17.75" | 400 | 22.00" | 20 | 1.63" |
| 16" | 27.75" | 3.50" | 18.50" | 5.25" | 20.00" | 425 | 24.25" | 20 | 1.75" |
| 18" | 31.00" | 4.00" | 21.00" | 6.00" | 22.25" | 600 | 27.00" | 20 | 2.00" |
| 20" | 33.75" | 4.25" | 23.00" | 6.25" | 24.50" | 730 | 29.50" | 20 | 2.13" |
| 24" | 41.00" | 5.50" | 27.25" | 8.00" | 29.50" | 1400 | 35.50" | 20 | 2.63" |



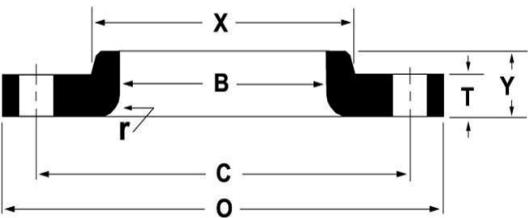
All dimensions are in inches.

These flanges will be supplied with a 1/16" raised face unless otherwise specified.

Flat face option available

FLANGES

ANSI B16.5 CLASS 900 LAP JOINT FLANGES

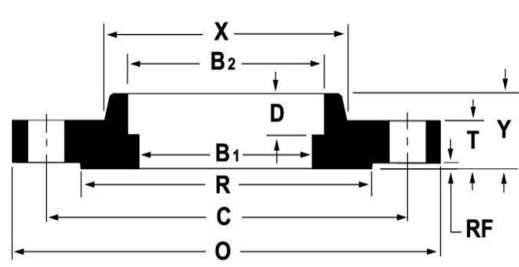


All dimensions are in inches.

| Nominal Pipe Size | Outside Diameter (O) | Thickness (T) | Length Thru Hub (Y) | Hub Diameter (X) | Radius (r) | Bore (B) | Approximate Weight (lbs) | Bolt Circle (C) | Number of Holes | Diameter of Holes |
|-------------------|----------------------|---------------|---------------------|------------------|------------|----------|--------------------------|-----------------|-----------------|-------------------|
| inch | inch | inch | inch | inch | inch | inch | lbs | inch | count | inch |
| 1/2" | 4.75" | 0.88" | 1.38" | 1.25" | 0.13" | 1.50" | 0.9 | 4.00" | 3.25 | 4.00" |
| 3/4" | 5.13" | 1.00" | 1.69" | 1.38" | 0.13" | 1.75" | 1.11 | 5.00" | 3.5 | 4.00" |
| 1" | 5.88" | 1.13" | 2.00" | 1.63" | 0.13" | 2.06" | 1.38 | 8.00" | 4 | 4.00" |
| 1 1/4" | 6.25" | 1.13" | 2.50" | 1.63" | 0.19" | 2.50" | 1.72 | 9.00" | 4.38 | 4.00" |
| 1 1/2" | 7.00" | 1.25" | 2.88" | 1.75" | 0.25" | 2.75" | 1.97 | 12.00" | 4.88 | 4.00" |
| 2" | 8.50" | 1.50" | 3.63" | 2.25" | 0.31" | 4.13" | 2.46 | 25.00" | 6.5 | 8.00" |
| 2 1/2" | 9.63" | 1.63" | 4.13" | 2.50" | 0.31" | 4.88" | 2.97 | 35.00" | 7.5 | 8.00" |
| 3" | 9.50" | 1.50" | 2.13" | 5.00" | 0.38" | 3.60" | 25 | 7.50" | 8 | 1.00" |
| 4" | 11.50" | 1.75" | 2.75" | 6.25" | 0.44" | 4.60" | 51 | 9.25" | 8 | 1.25" |
| 5" | 13.75" | 2.00" | 3.13" | 7.50" | 0.50" | 5.69" | 81 | 11.00" | 8 | 1.38" |
| 6" | 15.00" | 2.19" | 3.38" | 9.25" | 0.50" | 6.75" | 105 | 12.50" | 12 | 1.25" |
| 8" | 18.50" | 2.50" | 4.50" | 11.75" | 0.50" | 8.75" | 190 | 15.50" | 12 | 1.50" |
| 10" | 21.50" | 2.75" | 5.00" | 14.50" | 0.50" | 10.92" | 275 | 18.50" | 16 | 1.50" |
| 12" | 24.00" | 3.13" | 5.63" | 16.50" | 0.50" | 12.92" | 370 | 21.00" | 20 | 1.50" |
| 14" | 25.25" | 3.38" | 6.13" | 17.75" | 0.50" | 14.18" | 415 | 22.00" | 20 | 1.63" |
| 16" | 27.75" | 3.50" | 6.50" | 20.00" | 0.50" | 16.19" | 465 | 24.25" | 20 | 1.75" |
| 18" | 31.00" | 4.00" | 7.50" | 22.25" | 0.50" | 18.20" | 650 | 27.00" | 20 | 2.00" |
| 20" | 33.75" | 4.25" | 8.25" | 24.50" | 0.50" | 20.25" | 810 | 29.50" | 20 | 2.13" |
| 24" | 41.00" | 5.50" | 10.50" | 29.50" | 0.50" | 24.25" | 1550 | 35.50" | 20 | 2.63" |

FLANGES

ANSI B16.5 CLASS 900 SOCKET-WELD FLANGES



| Nominal Pipe Size | Outside Diameter (O) | Thickness (T) | Raised Face Diameter (R) | Length Thru Hub (Y) | Hub Diameter (X) | Bore (B ₁) | Bore (B ₂) | Depth of Socket (D) | Approximate Weight (lbs) | Bolt Circle (C) | Number of Holes | Diameter of Holes |
|-------------------|----------------------|---------------|--------------------------|---------------------|------------------|------------------------|------------------------|---------------------|--------------------------|-----------------|-----------------|-------------------|
| inch | inch | inch | inch | inch | inch | inch | inch | inch | lbs | inch | count | inch |
| 1/2" | 4.75" | 0.88" | 1.38" | 1.25" | 1.50" | Specified by Purchaser | 0.88" | 0.38" | 4 | 3.25" | 4 | 0.88" |
| 3/4" | 5.13" | 1.00" | 1.69" | 1.38" | 1.75" | Specified by Purchaser | 1.09" | 0.44" | 5 | 3.50" | 4 | 0.88" |
| 1" | 5.88" | 1.13" | 2.00" | 1.63" | 2.06" | Specified by Purchaser | 1.36" | 0.50" | 8 | 4.00" | 4 | 1.00" |
| 1 1/4" | 6.25" | 1.13" | 2.50" | 1.63" | 2.50" | Specified by Purchaser | 1.70" | 0.56" | 9 | 4.38" | 4 | 1.00" |
| 1 1/2" | 7.00" | 1.25" | 2.88" | 1.75" | 2.75" | Specified by Purchaser | 1.95" | 0.63" | 12 | 4.88" | 4 | 1.13" |
| 2" | 8.50" | 1.50" | 3.63" | 2.25" | 4.13" | Specified by Purchaser | 2.44" | 0.69" | 25 | 6.50" | 8 | 1.00" |
| 2 1/2" | 9.63" | 1.63" | 4.13" | 2.50" | 4.88" | Specified by Purchaser | 2.94" | 0.75" | 36 | 7.50" | 8 | 1.13" |

All dimensions are in inches.

These flanges will be supplied with a 1/16" raised face unless otherwise specified.

Flat face option available.

Standard Bore will be furnished unless otherwise specified.