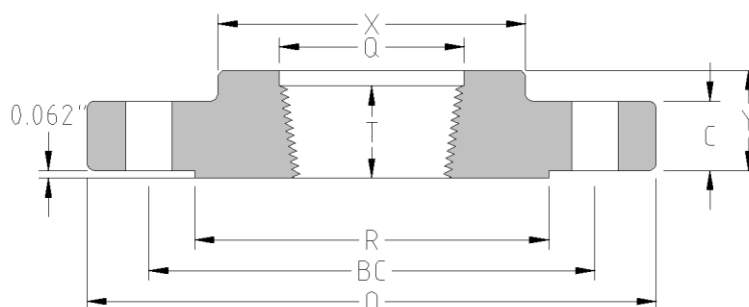


# Threaded Flange

## CLASS 150

### Inches / Pounds



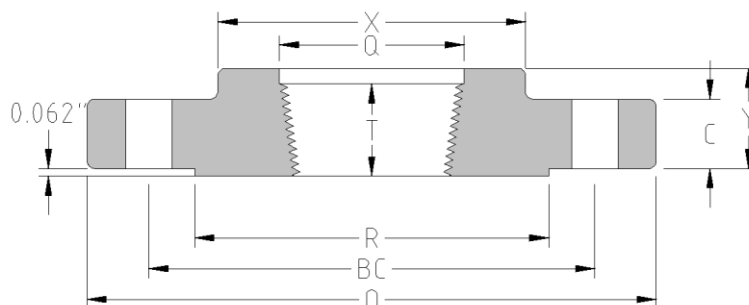
| Nominal Pipe Size | Outside Diam. of Flange (O) | Thick. of Flange (C) | Diam. of Raised Face (R) | Diam. of Hub at Base (X) | Length thru Hub (Y) | Min. Thread Length (T) | Min. Counter Bore (Q) | No. of Holes | Diam. of Holes | Diam. of Bolts | Diam. of Bolt Circle | Approx. Weight (in Pounds) |
|-------------------|-----------------------------|----------------------|--------------------------|--------------------------|---------------------|------------------------|-----------------------|--------------|----------------|----------------|----------------------|----------------------------|
| 1/2               | 3.50                        | 0.38                 | 1.38                     | 1.19                     | 0.62                | 0.62                   | —                     | 4            | 0.62           | 0.50           | 2.38                 | 1                          |
| 3/4               | 3.88                        | 0.44                 | 1.69                     | 1.50                     | 0.62                | 0.62                   | —                     | 4            | 0.62           | 0.50           | 2.75                 | 2                          |
| 1                 | 4.25                        | 0.5                  | 2.00                     | 1.94                     | 0.69                | 0.69                   | —                     | 4            | 0.62           | 0.50           | 3.12                 | 2                          |
| 1 1/4             | 4.62                        | 0.56                 | 2.50                     | 2.31                     | 0.81                | 0.81                   | —                     | 4            | 0.62           | 0.50           | 3.50                 | 3                          |
| 1 1/2             | 5.00                        | 0.63                 | 2.88                     | 2.56                     | 0.88                | 0.88                   | —                     | 4            | 0.62           | 0.50           | 3.88                 | 3                          |
| 2                 | 6.00                        | 0.69                 | 3.62                     | 3.06                     | 1.00                | 1.00                   | —                     | 4            | 0.75           | 0.62           | 4.75                 | 5                          |
| 2 1/2             | 7.00                        | 0.82                 | 4.12                     | 3.56                     | 1.12                | 1.12                   | —                     | 4            | 0.75           | 0.62           | 5.50                 | 7                          |
| 3                 | 7.50                        | 0.88                 | 5.00                     | 4.25                     | 1.19                | 1.19                   | —                     | 4            | 0.75           | 0.62           | 6.00                 | 8                          |
| 3 1/2             | 8.50                        | 0.88                 | 5.50                     | 4.81                     | 1.25                | 1.25                   | —                     | 8            | 0.75           | 0.62           | 7.00                 | 11                         |
| 4                 | 9.00                        | 0.88                 | 6.19                     | 5.31                     | 1.31                | 1.31                   | —                     | 8            | 0.75           | 0.62           | 7.50                 | 13                         |
| 5                 | 10.00                       | 0.88                 | 7.31                     | 6.44                     | 1.44                | 1.44                   | —                     | 8            | 0.88           | 0.75           | 8.50                 | 15                         |
| 6                 | 11.00                       | 0.94                 | 8.50                     | 7.56                     | 1.56                | 1.56                   | —                     | 8            | 0.88           | 0.75           | 9.50                 | 19                         |
| 8                 | 13.50                       | 1.06                 | 10.62                    | 9.69                     | 1.75                | 1.75                   | —                     | 8            | 0.88           | 0.75           | 11.75                | 30                         |
| 10                | 16.00                       | 1.13                 | 12.75                    | 12.00                    | 1.94                | 1.94                   | —                     | 12           | 1.00           | 0.88           | 14.25                | 43                         |
| 12                | 19.00                       | 1.19                 | 15.00                    | 14.38                    | 2.19                | 2.19                   | —                     | 12           | 1.00           | 0.88           | 17.00                | 64                         |
| 14                | 21.00                       | 1.32                 | 16.25                    | 15.75                    | 2.25                | 2.25                   | —                     | 12           | 1.12           | 1.00           | 18.75                | 90                         |
| 16                | 23.50                       | 1.38                 | 18.50                    | 18.00                    | 2.50                | 2.50                   | —                     | 16           | 1.12           | 1.00           | 21.25                | 98                         |
| 18                | 25.00                       | 1.5                  | 21.00                    | 19.88                    | 2.69                | 2.69                   | —                     | 16           | 1.25           | 1.13           | 22.75                | 130                        |
| 20                | 27.50                       | 1.63                 | 23.00                    | 22.00                    | 2.88                | 2.88                   | —                     | 20           | 1.25           | 1.12           | 25.00                | 165                        |
| 24                | 32.00                       | 1.82                 | 27.25                    | 26.12                    | 3.25                | 3.25                   | —                     | 20           | 1.38           | 1.25           | 29.50                | 220                        |

*\* Dimensions conform to ASTM A/SA-105; ASME B16.5*

# Threaded Flange

## CLASS 300

### Inches / Pounds



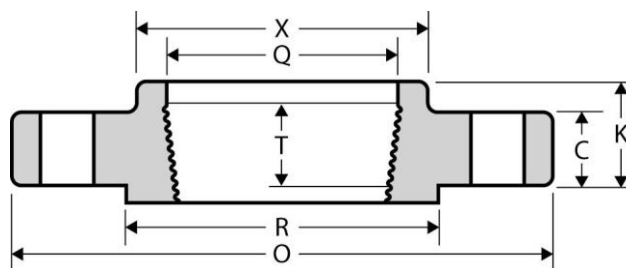
| Nominal Pipe Size | Outside Diam. of Flange (O) | Thick. of Flange (C) | Diam. of Raised Face (R) | Diam. of Hub at Base (X) | Length thru Hub (Y) | Min. Thread Length (T) | Min. Counter Bore (Q) | No. of Holes | Diam. of Holes | Diam. of Bolts | Diam. of Bolt Circle | Approx. Weight (in Pounds) |
|-------------------|-----------------------------|----------------------|--------------------------|--------------------------|---------------------|------------------------|-----------------------|--------------|----------------|----------------|----------------------|----------------------------|
| 1/2               | 3.75                        | 0.50                 | 1.38                     | 1.50                     | 0.88                | 0.62                   | 0.93                  | 4            | 0.62           | 0.50           | 2.62                 | 2                          |
| 3/4               | 4.62                        | 0.56                 | 1.69                     | 1.88                     | 1.00                | 0.62                   | 1.14                  | 4            | 0.75           | 0.62           | 3.25                 | 3                          |
| 1                 | 4.88                        | 0.63                 | 2.00                     | 2.12                     | 1.06                | 0.69                   | 1.41                  | 4            | 0.75           | 0.62           | 3.50                 | 3                          |
| 1 1/4             | 5.25                        | 0.69                 | 2.50                     | 2.50                     | 1.06                | 0.81                   | 1.75                  | 4            | 0.75           | 0.62           | 3.88                 | 4                          |
| 1 1/2             | 6.12                        | 0.75                 | 2.88                     | 2.75                     | 1.19                | 0.88                   | 1.99                  | 4            | 0.88           | 0.75           | 4.50                 | 6                          |
| 2                 | 6.50                        | 0.82                 | 3.62                     | 3.31                     | 1.31                | 1.12                   | 2.50                  | 8            | 0.75           | 0.62           | 5.00                 | 7                          |
| 2 1/2             | 7.50                        | 0.94                 | 4.12                     | 3.94                     | 1.50                | 1.25                   | 3.00                  | 8            | 0.88           | 0.75           | 5.88                 | 10                         |
| 3                 | 8.25                        | 1.06                 | 5.00                     | 4.62                     | 1.69                | 1.25                   | 3.63                  | 8            | 0.88           | 0.75           | 6.62                 | 13                         |
| 3 1/2             | 9.00                        | 1.13                 | 5.50                     | 5.25                     | 1.75                | 1.44                   | 4.13                  | 8            | 0.88           | 0.75           | 7.25                 | 17                         |
| 4                 | 10.00                       | 1.19                 | 6.19                     | 5.75                     | 1.88                | 1.44                   | 4.63                  | 8            | 0.88           | 0.75           | 7.88                 | 22                         |
| 5                 | 11.00                       | 1.32                 | 7.31                     | 7.00                     | 2.00                | 1.69                   | 5.69                  | 8            | 0.88           | 0.75           | 9.25                 | 28                         |
| 6                 | 12.50                       | 1.38                 | 8.50                     | 8.12                     | 2.06                | 1.81                   | 6.75                  | 12           | 0.88           | 0.75           | 10.62                | 39                         |
| 8                 | 15.00                       | 1.56                 | 10.62                    | 10.25                    | 2.44                | 2.00                   | 8.75                  | 12           | 1.00           | 0.88           | 13.00                | 58                         |
| 10                | 17.50                       | 1.82                 | 12.75                    | 12.62                    | 2.62                | 2.19                   | 10.88                 | 16           | 1.12           | 1.00           | 15.25                | 81                         |
| 12                | 20.50                       | 1.94                 | 15.00                    | 14.75                    | 2.88                | 2.38                   | 12.94                 | 16           | 1.25           | 1.12           | 17.75                | 115                        |
| 14                | 23.00                       | 2.06                 | 16.25                    | 16.75                    | 3.00                | 2.50                   | 14.19                 | 20           | 1.25           | 1.12           | 20.25                | 165                        |
| 16                | 25.50                       | 2.19                 | 18.50                    | 19.00                    | 3.25                | 2.69                   | 16.19                 | 20           | 1.38           | 1.25           | 22.50                | 190                        |
| 18                | 28.00                       | 2.32                 | 21.00                    | 21.00                    | 3.50                | 2.75                   | 18.19                 | 24           | 1.38           | 1.25           | 24.75                | 250                        |
| 20                | 30.50                       | 2.44                 | 23.00                    | 23.12                    | 3.75                | 2.88                   | 20.19                 | 24           | 1.38           | 1.25           | 27.00                | 315                        |
| 24                | 36.00                       | 2.69                 | 27.25                    | 27.62                    | 4.19                | 3.25                   | 24.19                 | 24           | 1.62           | 1.50           | 32.00                | 475                        |

*\* Dimensions conform to ASTM A/SA-105; ASME B16.5*

# Threaded Flange

## CLASS 600

### Inches / Pounds



| Nominal Pipe Size | Outside Diam. of Flange (O) | Thick. of Flange (C) | Diam. of Raised Face (R) | Diam. of Hub at Base (X) | Length thru Hub (K) | Min. Thread Length (T) | Min. Counter Bore (Q) | No. of Holes | Diam. of Holes | Diam. of Bolts | Diam. of Bolt Circle | Approx. Weight (in Pounds) |
|-------------------|-----------------------------|----------------------|--------------------------|--------------------------|---------------------|------------------------|-----------------------|--------------|----------------|----------------|----------------------|----------------------------|
| 1/2               | 3.75                        | 0.56                 | 1.38                     | 1.50                     | 0.88                | 0.62                   | 0.93                  | 4            | 0.62           | 0.50           | 2.62                 | 2                          |
| 3/4               | 4.62                        | 0.62                 | 1.69                     | 1.88                     | 1.00                | 0.62                   | 1.14                  | 4            | 0.75           | 0.62           | 3.25                 | 3                          |
| 1                 | 4.88                        | 0.69                 | 2.00                     | 2.12                     | 1.06                | 0.69                   | 1.41                  | 4            | 0.75           | 0.62           | 3.50                 | 4                          |
| 1 1/4             | 5.25                        | 0.81                 | 2.50                     | 2.50                     | 1.12                | 0.81                   | 1.75                  | 4            | 0.75           | 0.62           | 3.88                 | 5                          |
| 1 1/2             | 6.12                        | 0.88                 | 2.88                     | 2.75                     | 1.25                | 0.88                   | 1.99                  | 4            | 0.88           | 0.75           | 4.50                 | 7                          |
| 2                 | 6.50                        | 1.00                 | 3.62                     | 3.31                     | 1.44                | 1.12                   | 2.50                  | 8            | 0.75           | 0.62           | 5.00                 | 9                          |
| 2 1/2             | 7.50                        | 1.12                 | 4.12                     | 3.94                     | 1.62                | 1.25                   | 3.00                  | 8            | 0.88           | 0.75           | 5.88                 | 13                         |
| 3                 | 8.25                        | 1.25                 | 5.00                     | 4.62                     | 1.81                | 1.38                   | 3.63                  | 8            | 0.88           | 0.75           | 6.62                 | 16                         |
| 3 1/2             | 9.00                        | 1.38                 | 5.50                     | 5.25                     | 1.94                | 1.56                   | 4.13                  | 8            | 1.00           | 0.88           | 7.25                 | 21                         |
| 4                 | 10.75                       | 1.50                 | 6.19                     | 6.00                     | 2.12                | 1.62                   | 4.63                  | 8            | 1.00           | 0.88           | 8.50                 | 37                         |
| 5                 | 13.00                       | 1.75                 | 7.31                     | 7.44                     | 2.38                | 1.88                   | 5.69                  | 8            | 1.12           | 1.00           | 10.50                | 63                         |
| 6                 | 14.00                       | 1.88                 | 8.50                     | 8.75                     | 2.62                | 2.00                   | 6.75                  | 12           | 1.12           | 1.00           | 11.50                | 80                         |
| 8                 | 16.50                       | 2.19                 | 10.62                    | 10.75                    | 3.00                | 2.25                   | 8.75                  | 12           | 1.25           | 1.12           | 13.75                | 115                        |
| 10                | 20.00                       | 2.50                 | 12.75                    | 13.50                    | 3.38                | 2.56                   | 10.88                 | 16           | 1.38           | 1.25           | 17.00                | 170                        |
| 12                | 22.00                       | 2.62                 | 15.00                    | 15.75                    | 3.62                | 2.75                   | 12.94                 | 20           | 1.38           | 1.25           | 19.25                | 200                        |
| 14                | 23.75                       | 2.75                 | 16.25                    | 17.00                    | 3.69                | 2.88                   | 14.19                 | 20           | 1.50           | 1.38           | 20.75                | 230                        |
| 16                | 27.00                       | 3.00                 | 18.50                    | 19.50                    | 4.19                | 3.06                   | 16.19                 | 20           | 1.62           | 1.50           | 23.75                | 330                        |
| 18                | 29.25                       | 3.25                 | 21.00                    | 21.50                    | 4.62                | 3.12                   | 18.19                 | 20           | 1.75           | 1.63           | 25.75                | 400                        |
| 20                | 32.00                       | 3.50                 | 23.00                    | 24.00                    | 5.00                | 3.25                   | 20.19                 | 24           | 1.75           | 1.62           | 28.50                | 510                        |
| 24                | 37.00                       | 4.00                 | 27.25                    | 28.25                    | 5.50                | 3.62                   | 24.19                 | 24           | 2.00           | 1.88           | 33.00                | 730                        |

*\* Dimensions conform to ASTM A/SA-105N; ASME B16.5*