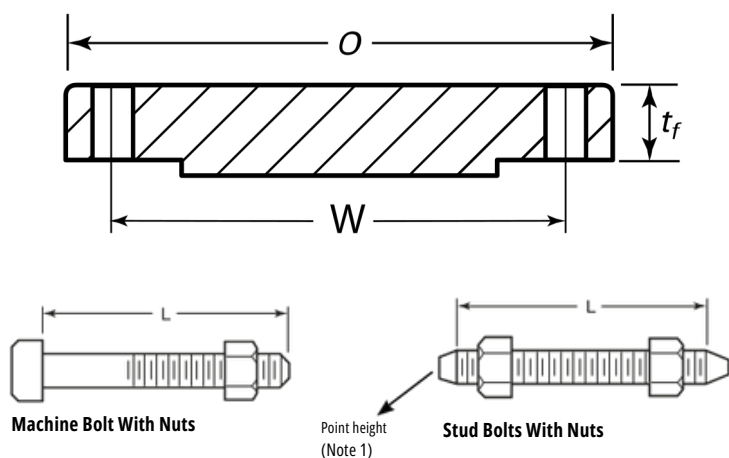
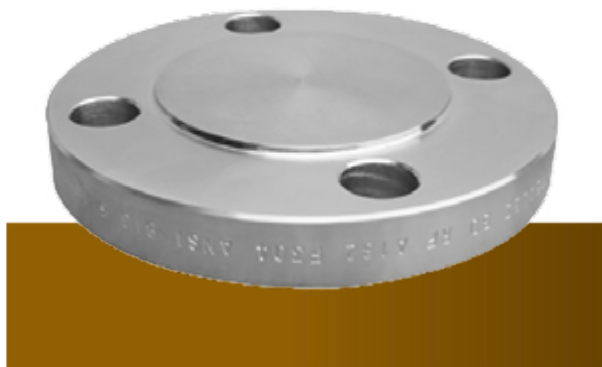




\* Referential photo



Dimensions are in mm

| Nominal<br>Pipe Size,<br>NPS | Outside<br>Diameter<br>of Flange<br>(O) | Minimum<br>Thickness of<br>Flange, (tf) | Diameter of<br>Bolt Circle<br>(W) | Diameter of<br>Bolt Holes<br>(inch) | Number of<br>Bolts | Diameter<br>of Bolts<br>(inch) | Length of Bolts (L)      |            |                          | Weight<br>Approx. (kg) |
|------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------|-------------------------------------|--------------------|--------------------------------|--------------------------|------------|--------------------------|------------------------|
|                              |                                         |                                         |                                   |                                     |                    |                                | Stud Bolts               |            | Machine<br>Bolts         |                        |
|                              |                                         |                                         |                                   |                                     |                    |                                | 1.5 mm<br>Raised<br>Face | Ring Joint | 1.5 mm<br>Raised<br>Face |                        |
| 1/2"                         | 89                                      | 9.7                                     | 60.5                              | 5/8                                 | 4                  | 1/2                            | 55                       | ...        | 50                       | 0.47                   |
| 3/4"                         | 99                                      | 11.2                                    | 69.8                              | 5/8                                 | 4                  | 1/2                            | 65                       | ...        | 50                       | 0.63                   |
| 1"                           | 108                                     | 12.7                                    | 79.2                              | 5/8                                 | 4                  | 1/2                            | 65                       | 75         | 55                       | 0.94                   |
| 1 1/4"                       | 117                                     | 14.2                                    | 88.9                              | 5/8                                 | 4                  | 1/2                            | 70                       | 85         | 55                       | 1.23                   |
| 1 1/2"                       | 127                                     | 15.9                                    | 98.6                              | 5/8                                 | 4                  | 1/2                            | 70                       | 85         | 65                       | 1.62                   |
| 2"                           | 152                                     | 17.5                                    | 120.6                             | 3/4                                 | 4                  | 5/8                            | 85                       | 95         | 70                       | 2.64                   |
| 2 1/2"                       | 178                                     | 20.6                                    | 139.7                             | 3/4                                 | 4                  | 5/8                            | 90                       | 100        | 75                       | 4.06                   |
| 3"                           | 190                                     | 22.4                                    | 152.4                             | 3/4                                 | 4                  | 5/8                            | 90                       | 100        | 75                       | 4.90                   |
| 3 1/2"                       | 216                                     | 22.4                                    | 177.8                             | 3/4                                 | 8                  | 5/8                            | 90                       | 100        | 75                       | -                      |
| 4"                           | 229                                     | 22.4                                    | 190.5                             | 3/4                                 | 8                  | 5/8                            | 90                       | 100        | 75                       | 7.41                   |
| 5"                           | 254                                     | 22.4                                    | 215.9                             | 7/8                                 | 8                  | 3/4                            | 95                       | 110        | 85                       | 8.76                   |
| 6"                           | 279                                     | 23.9                                    | 241.3                             | 7/8                                 | 8                  | 3/4                            | 100                      | 115        | 85                       | 11.31                  |
| 8"                           | 343                                     | 26.9                                    | 298.4                             | 7/8                                 | 8                  | 3/4                            | 110                      | 120        | 90                       | 19.92                  |
| 10"                          | 406                                     | 28.4                                    | 362.0                             | 1                                   | 12                 | 7/8                            | 115                      | 125        | 100                      | 29.39                  |
| 12"                          | 483                                     | 30.2                                    | 431.8                             | 1                                   | 12                 | 7/8                            | 120                      | 135        | 100                      | 43.70                  |
| 14"                          | 553                                     | 33.3                                    | 476.2                             | 1 1/8                               | 12                 | 1                              | 135                      | 145        | 115                      | 59.42                  |
| 16"                          | 597                                     | 35.1                                    | 539.8                             | 1 1/8                               | 16                 | 1                              | 135                      | 145        | 115                      | 77.11                  |
| 18"                          | 635                                     | 38.1                                    | 577.8                             | 1 1/4                               | 16                 | 1 1/8                          | 145                      | 160        | 125                      | 94.80                  |
| 20"                          | 698                                     | 41.1                                    | 635.0                             | 1 1/4                               | 20                 | 1 1/8                          | 160                      | 170        | 140                      | 123.38                 |
| 22"                          | 749                                     | 44.4                                    | 692.2                             | 1 3/8                               | 20                 | 1 1/4                          | 170                      | 185        | 150                      | -                      |
| 24"                          | 813                                     | 46.0                                    | 749.3                             | 1 3/8                               | 20                 | 1 1/4                          | 170                      | 185        | 150                      | 188.24                 |

\* Note : Dimensions, design and materials are subject to change without notice. Reference weights