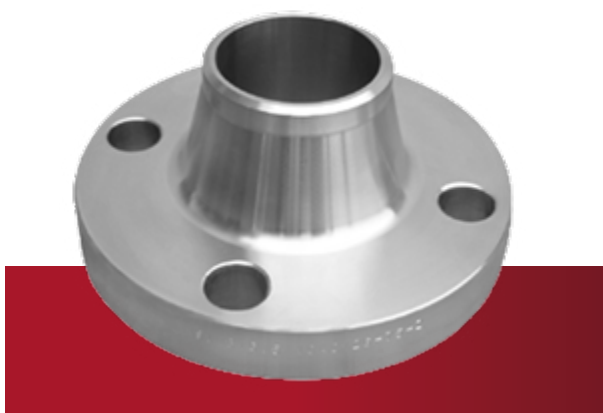
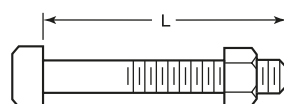
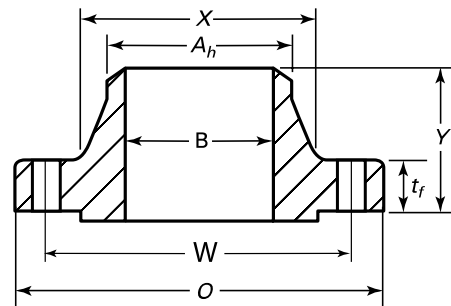
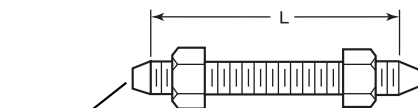




\* Referential photo



Machine Bolt With Nuts



Point height  
(Note 1)

Stud Bolts With Nuts

Note 1: The length of the stud bolt does not include the height of the points

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Dimensions are in mm

| Nominal Pipe Size, NPS | Outside Diameter of Flange (O) | Minimum Thickness of Flange, (t <sub>f</sub> ) | Diameter of Hub (X) | Hub Diameter Beginning of Chamfer Welding Neck (A <sub>h</sub> ) | Length Through Hub (Y) | Bore (B) | Diameter of Bolt Circle (W) | Diameter of Bolt Holes (inch) | Number of Bolts | Diameter of Bolts (inch) | Length of Bolts (L) |            |                    | Weight Approx. (kg) |
|------------------------|--------------------------------|------------------------------------------------|---------------------|------------------------------------------------------------------|------------------------|----------|-----------------------------|-------------------------------|-----------------|--------------------------|---------------------|------------|--------------------|---------------------|
|                        |                                |                                                |                     |                                                                  |                        |          |                             |                               |                 |                          | Stud Bolts          |            | Machine Bolts      |                     |
|                        |                                |                                                |                     |                                                                  |                        |          |                             |                               |                 |                          | 1.5 mm Raised Face  | Ring Joint | 1.5 mm Raised Face |                     |
| 1/2"                   | 95                             | 12.7                                           | 38                  | 21.3                                                             | 51                     | 15.7     | 66.7                        | 5/8                           | 4               | 1/2                      | 65                  | 75         | 55                 | 0.78                |
| 3/4"                   | 117                            | 14.2                                           | 48                  | 26.7                                                             | 56                     | 20.8     | 82.6                        | 3/4                           | 4               | 5/8                      | 75                  | 90         | 65                 | 1.34                |
| 1"                     | 124                            | 15.7                                           | 54                  | 33.5                                                             | 60                     | 26.7     | 88.9                        | 3/4                           | 4               | 5/8                      | 75                  | 90         | 65                 | 1.64                |
| 1 1/4"                 | 133                            | 17.5                                           | 64                  | 42.2                                                             | 64                     | 35.1     | 98.4                        | 3/4                           | 4               | 5/8                      | 85                  | 95         | 70                 | 2.06                |
| 1 1/2"                 | 155                            | 19.0                                           | 70                  | 48.3                                                             | 67                     | 40.9     | 114.3                       | 7/8                           | 4               | 3/4                      | 90                  | 100        | 75                 | 3.06                |
| 2"                     | 165                            | 20.6                                           | 84                  | 60.5                                                             | 68                     | 52.6     | 127.0                       | 3/4                           | 8               | 5/8                      | 90                  | 100        | 75                 | 3.40                |
| 2 1/2"                 | 190                            | 23.9                                           | 100                 | 73.2                                                             | 75                     | 62.7     | 149.2                       | 7/8                           | 8               | 3/4                      | 100                 | 115        | 85                 | 5.31                |
| 3"                     | 210                            | 26.9                                           | 117                 | 88.9                                                             | 78                     | 78.0     | 168.3                       | 7/8                           | 8               | 3/4                      | 110                 | 120        | 90                 | 7.32                |
| 3 1/2"                 | 229                            | 28.4                                           | 133                 | 101.6                                                            | 80                     | 90.2     | 184.2                       | 7/8                           | 8               | 3/4                      | 110                 | 125        | 95                 | -                   |
| 4"                     | 254                            | 30.2                                           | 146                 | 114.3                                                            | 84                     | 102.4    | 200.0                       | 7/8                           | 8               | 3/4                      | 115                 | 125        | 95                 | 11.30               |
| 5"                     | 279                            | 33.3                                           | 178                 | 141.2                                                            | 97                     | 128.3    | 235.0                       | 7/8                           | 8               | 3/4                      | 120                 | 135        | 110                | 15.12               |
| 6"                     | 318                            | 35.1                                           | 206                 | 168.4                                                            | 97                     | 154.2    | 269.9                       | 7/8                           | 12              | 3/4                      | 120                 | 140        | 110                | 19.68               |
| 8"                     | 381                            | 39.6                                           | 260                 | 219.2                                                            | 110                    | 202.7    | 330.2                       | 1                             | 12              | 7/8                      | 140                 | 150        | 120                | 30.48               |
| 10"                    | 444                            | 46.0                                           | 321                 | 273.0                                                            | 116                    | 254.5    | 387.4                       | 1 1/8                         | 16              | 1                        | 160                 | 170        | 140                | 43.74               |
| 12"                    | 521                            | 49.3                                           | 375                 | 323.8                                                            | 129                    | 304.8    | 450.8                       | 1 1/4                         | 16              | 1 1/8                    | 170                 | 185        | 145                | 64.41               |
| 14"                    | 584                            | 52.3                                           | 425                 | 355.6                                                            | 141                    | [Note 1] | 514.4                       | 1 1/4                         | 20              | 1 1/8                    | 180                 | 190        | 160                | 88.30               |
| 16"                    | 648                            | 55.6                                           | 483                 | 406.4                                                            | 145                    | [Note 1] | 571.5                       | 1 3/8                         | 20              | 1 1/4                    | 190                 | 205        | 165                | 112.94              |
| 18"                    | 711                            | 58.7                                           | 533                 | 457.2                                                            | 157                    | [Note 1] | 628.6                       | 1 3/8                         | 24              | 1 1/4                    | 195                 | 210        | 170                | 138.34              |
| 20"                    | 775                            | 62.0                                           | 587                 | 508.0                                                            | 161                    | [Note 1] | 685.8                       | 1 3/8                         | 24              | 1 1/4                    | 205                 | 220        | 185                | 167.37              |
| 22"                    | 838                            | 65.0                                           | 641                 | 558.8                                                            | 164                    | [Note 1] | 743.0                       | 1 5/8                         | 24              | 1 1/2                    | 230                 | 255        | 205                | -                   |
| 24"                    | 914                            | 68.3                                           | 702                 | 609.6                                                            | 167                    | [Note 1] | 812.8                       | 1 5/8                         | 24              | 1 1/2                    | 230                 | 255        | 205                | 235.41              |

Note (1) To be specified by the purchaser.

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