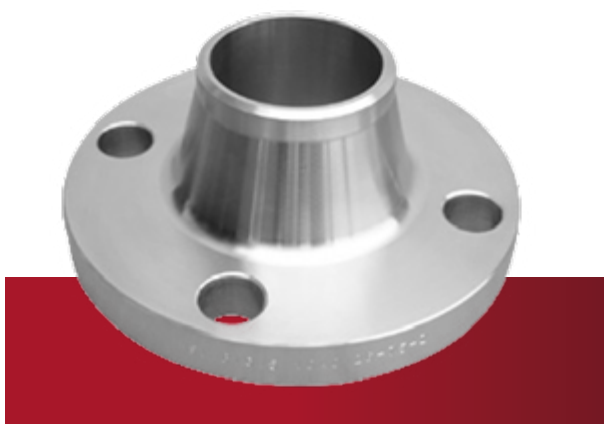
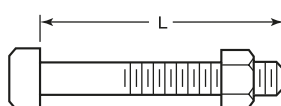
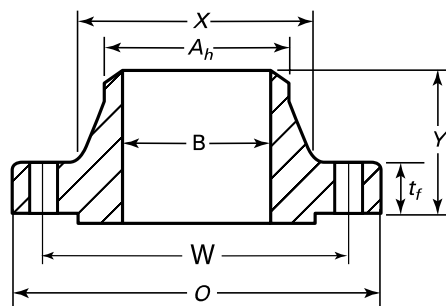
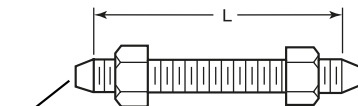




\* Referential photo



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      |                     |
| inch                   |                                |                                                |                     |                                                                  |                        |          |                             |                               |                 |                          | 1.5 mm Raised Face  | Ring Joint | 1.5 mm Raised Face |                     |
| 1/2"                   | 89                             | 9.7                                            | 30                  | 21.3                                                             | 46                     | 15.7     | 60.5                        | 5/8                           | 4               | 1/2                      | 55                  | ...        | 50                 | 0.51                |
| 3/4"                   | 99                             | 11.2                                           | 38                  | 26.7                                                             | 51                     | 20.8     | 69.8                        | 5/8                           | 4               | 1/2                      | 65                  | ...        | 50                 | 0.73                |
| 1"                     | 108                            | 12.7                                           | 49                  | 33.5                                                             | 54                     | 26.7     | 79.2                        | 5/8                           | 4               | 1/2                      | 65                  | 75         | 55                 | 1.07                |
| 1 1/4"                 | 117                            | 14.2                                           | 59                  | 42.2                                                             | 56                     | 35.1     | 88.9                        | 5/8                           | 4               | 1/2                      | 70                  | 85         | 55                 | 1.40                |
| 1 1/2"                 | 127                            | 15.9                                           | 65                  | 48.3                                                             | 60                     | 40.9     | 98.6                        | 5/8                           | 4               | 1/2                      | 70                  | 85         | 65                 | 1.81                |
| 2"                     | 152                            | 17.5                                           | 78                  | 60.5                                                             | 62                     | 52.6     | 120.6                       | 3/4                           | 4               | 5/8                      | 85                  | 95         | 70                 | 2.59                |
| 2 1/2"                 | 178                            | 20.6                                           | 90                  | 73.2                                                             | 68                     | 62.7     | 139.7                       | 3/4                           | 4               | 5/8                      | 90                  | 100        | 75                 | 4.28                |
| 3"                     | 190                            | 22.4                                           | 108                 | 88.9                                                             | 68                     | 78.0     | 152.4                       | 3/4                           | 4               | 5/8                      | 90                  | 100        | 75                 | 5.18                |
| 3 1/2"                 | 216                            | 22.4                                           | 122                 | 101.6                                                            | 70                     | 90.2     | 177.8                       | 3/4                           | 8               | 5/8                      | 90                  | 100        | 75                 | -                   |
| 4"                     | 229                            | 22.4                                           | 135                 | 114.3                                                            | 75                     | 102.4    | 190.5                       | 3/4                           | 8               | 5/8                      | 90                  | 100        | 75                 | 7.32                |
| 5"                     | 254                            | 22.4                                           | 164                 | 141.2                                                            | 87                     | 128.3    | 215.9                       | 7/8                           | 8               | 3/4                      | 95                  | 110        | 85                 | 8.91                |
| 6"                     | 279                            | 23.9                                           | 192                 | 168.4                                                            | 87                     | 154.2    | 241.3                       | 7/8                           | 8               | 3/4                      | 100                 | 115        | 85                 | 11.26               |
| 8"                     | 343                            | 26.9                                           | 246                 | 219.2                                                            | 100                    | 202.7    | 298.4                       | 7/8                           | 8               | 3/4                      | 110                 | 120        | 90                 | 17.68               |
| 10"                    | 406                            | 28.4                                           | 305                 | 273.0                                                            | 100                    | 254.5    | 362.0                       | 1                             | 12              | 7/8                      | 115                 | 125        | 100                | 24.79               |
| 12"                    | 483                            | 30.2                                           | 365                 | 323.8                                                            | 113                    | 304.8    | 431.8                       | 1                             | 12              | 7/8                      | 120                 | 135        | 100                | 38.98               |
| 14"                    | 553                            | 33.3                                           | 400                 | 355.6                                                            | 125                    | [Note 1] | 476.2                       | 1 1/8                         | 12              | 1                        | 135                 | 145        | 115                | 51.71               |
| 16"                    | 597                            | 35.1                                           | 457                 | 406.4                                                            | 125                    | [Note 1] | 539.8                       | 1 1/8                         | 16              | 1                        | 135                 | 145        | 115                | 64.41               |
| 18"                    | 635                            | 38.1                                           | 505                 | 457.2                                                            | 138                    | [Note 1] | 577.8                       | 1 1/4                         | 16              | 1 1/8                    | 145                 | 160        | 125                | 74.84               |
| 20"                    | 698                            | 41.1                                           | 559                 | 508.0                                                            | 143                    | [Note 1] | 635.0                       | 1 1/4                         | 20              | 1 1/8                    | 160                 | 170        | 140                | 89.36               |
| 22"                    | 749                            | 44.4                                           | 610                 | 558.8                                                            | 148                    | [Note 1] | 692.2                       | 1 3/8                         | 20              | 1 1/4                    | 170                 | 185        | 150                | -                   |
| 24"                    | 813                            | 46.0                                           | 663                 | 609.6                                                            | 151                    | [Note 1] | 749.3                       | 1 3/8                         | 20              | 1 1/4                    | 170                 | 185        | 150                | 119.66              |

Note (1) To be specified by the purchaser.

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

