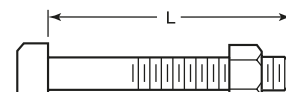
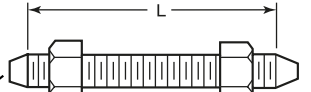


Threaded



Machine Bolt With Nuts



Stud Bolts With Nuts

Point height  
(Note 1)

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) | Length Through Hub (Y) | Minimum Thread Length Threaded (T) | Diameter of Bolt Circle (W) | Diameter of Bolt Holes (inch) | Number of Bolts | Diameter of Bolts (inch) | Length of Bolts (L) |            |                 |
|------------------------|-----|--------------------------------|------------------------------------------------|---------------------|------------------------|------------------------------------|-----------------------------|-------------------------------|-----------------|--------------------------|---------------------|------------|-----------------|
|                        |     |                                |                                                |                     |                        |                                    |                             |                               |                 |                          | Stud Bolts          |            | Machine Bolts   |
| inch                   | mm  |                                |                                                |                     |                        |                                    |                             |                               |                 |                          | 2mm Raised Face     | Ring Joint | 2mm Raised Face |
| 1/2"                   | 12  | 95                             | 12.7                                           | 38                  | 21                     | 16                                 | 66.7                        | 5/8                           | 4               | 1/2                      | 65                  | 75         | 55              |
| 3/4"                   | 18  | 115                            | 14.3                                           | 48                  | 24                     | 16                                 | 82.6                        | 3/4                           | 4               | 5/8                      | 75                  | 90         | 65              |
| 1"                     | 25  | 125                            | 15.9                                           | 54                  | 25                     | 18                                 | 88.9                        | 3/4                           | 4               | 5/8                      | 75                  | 90         | 65              |
| 1 1/4"                 | 31  | 135                            | 17.5                                           | 64                  | 25                     | 21                                 | 98.4                        | 3/4                           | 4               | 5/8                      | 85                  | 95         | 70              |
| 1 1/2"                 | 38  | 155                            | 19.1                                           | 70                  | 29                     | 23                                 | 114.3                       | 7/8                           | 4               | 3/4                      | 90                  | 100        | 75              |
| 2"                     | 50  | 165                            | 20.7                                           | 84                  | 32                     | 29                                 | 127.0                       | 3/4                           | 8               | 5/8                      | 90                  | 100        | 75              |
| 2 1/2"                 | 63  | 190                            | 23.9                                           | 100                 | 37                     | 32                                 | 149.2                       | 7/8                           | 8               | 3/4                      | 100                 | 115        | 85              |
| 3"                     | 75  | 210                            | 27.0                                           | 117                 | 41                     | 32                                 | 168.3                       | 7/8                           | 8               | 3/4                      | 110                 | 120        | 90              |
| 3 1/2"                 | 88  | 230                            | 28.6                                           | 133                 | 43                     | 37                                 | 184.2                       | 7/8                           | 8               | 3/4                      | 110                 | 125        | 95              |
| 4"                     | 100 | 255                            | 30.2                                           | 146                 | 46                     | 37                                 | 200.0                       | 7/8                           | 8               | 3/4                      | 115                 | 125        | 95              |
| 5"                     | 125 | 280                            | 33.4                                           | 178                 | 49                     | 43                                 | 235.0                       | 7/8                           | 8               | 3/4                      | 120                 | 135        | 110             |
| 6"                     | 150 | 320                            | 35.0                                           | 206                 | 51                     | 47                                 | 269.9                       | 7/8                           | 12              | 3/4                      | 120                 | 140        | 110             |
| 8"                     | 200 | 380                            | 39.7                                           | 260                 | 60                     | 51                                 | 330.2                       | 1 1/8                         | 12              | 7/8                      | 140                 | 150        | 120             |
| 10"                    | 250 | 445                            | 46.1                                           | 321                 | 65                     | 56                                 | 387.4                       | 1 1/8                         | 16              | 1                        | 160                 | 170        | 140             |
| 12"                    | 300 | 520                            | 49.3                                           | 375                 | 71                     | 61                                 | 450.8                       | 1 1/4                         | 16              | 1 1/8                    | 170                 | 185        | 145             |
| 14"                    | 350 | 585                            | 52.4                                           | 425                 | 75                     | 64                                 | 514.4                       | 1 1/4                         | 20              | 1 1/8                    | 180                 | 190        | 160             |
| 16"                    | 400 | 650                            | 55.6                                           | 483                 | 81                     | 69                                 | 571.5                       | 1 3/8                         | 20              | 1 1/4                    | 190                 | 205        | 165             |
| 18"                    | 450 | 710                            | 58.8                                           | 533                 | 87                     | 70                                 | 628.6                       | 1 3/8                         | 24              | 1 1/4                    | 195                 | 210        | 170             |
| 20"                    | 500 | 775                            | 62.0                                           | 587                 | 94                     | 74                                 | 685.8                       | 1 3/8                         | 24              | 1 1/4                    | 205                 | 220        | 185             |
| 22"                    | 550 | 840                            | 65.1                                           | 640                 | 100                    | ---                                | 743.0                       | 1 5/8                         | 24              | 1 1/2                    | 230                 | 255        | 205             |
| 24"                    | 600 | 915                            | 68.3                                           | 702                 | 105                    | 83                                 | 812.8                       | 1 5/8                         | 24              | 1 1/2                    | 230                 | 255        | 205             |

Note [1] This dimension is for large end of hub, which may be straight or tapered. Taper shall not exceed 7 deg on threaded, slip-on, socket-welding, and lapped flanges. This dimension is defined as the diameter at the intersection between the hub taper and back face of the flange.

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