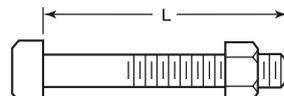
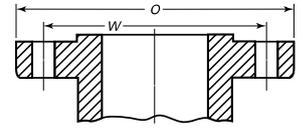


Slip-On Welding

* Referential photo



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 _f) | Diameter of Hub (X) | Length Through Hub (Y) | Bore Minimum (B) | 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 | 22.2 | 66.7 | 5/8 | 4 | 1/2 | 65 | 75 | 55 |
| 3/4" | 18 | 115 | 14.3 | 48 | 24 | 27.7 | 82.6 | 3/4 | 4 | 5/8 | 75 | 90 | 65 |
| 1" | 25 | 125 | 15.9 | 54 | 25 | 34.5 | 88.9 | 3/4 | 4 | 5/8 | 75 | 90 | 65 |
| 1 1/4" | 31 | 135 | 17.5 | 64 | 25 | 43.2 | 98.4 | 3/4 | 4 | 5/8 | 85 | 95 | 70 |
| 1 1/2" | 38 | 155 | 19.1 | 70 | 29 | 49.5 | 114.3 | 7/8 | 4 | 3/4 | 90 | 100 | 75 |
| 2" | 50 | 165 | 20.7 | 84 | 32 | 61.9 | 127.0 | 3/4 | 8 | 5/8 | 90 | 100 | 75 |
| 2 1/2" | 63 | 190 | 23.9 | 100 | 37 | 74.6 | 149.2 | 7/8 | 8 | 3/4 | 100 | 115 | 85 |
| 3" | 75 | 210 | 27.0 | 117 | 41 | 90.7 | 168.3 | 7/8 | 8 | 3/4 | 110 | 120 | 90 |
| 3 1/2" | 88 | 230 | 28.6 | 133 | 43 | 103.4 | 184.2 | 7/8 | 8 | 3/4 | 110 | 125 | 95 |
| 4" | 100 | 255 | 30.2 | 146 | 46 | 116.1 | 200.0 | 7/8 | 8 | 3/4 | 115 | 125 | 95 |
| 5" | 125 | 280 | 33.4 | 178 | 49 | 143.8 | 235.0 | 7/8 | 8 | 3/4 | 120 | 135 | 110 |
| 6" | 150 | 320 | 35.0 | 206 | 51 | 170.7 | 269.9 | 7/8 | 12 | 3/4 | 120 | 140 | 110 |
| 8" | 200 | 380 | 39.7 | 260 | 60 | 221.5 | 330.2 | 1 | 12 | 7/8 | 140 | 150 | 120 |
| 10" | 250 | 445 | 46.1 | 321 | 65 | 276.2 | 387.4 | 1 1/8 | 16 | 1 | 160 | 170 | 140 |
| 12" | 300 | 520 | 49.3 | 375 | 71 | 327.0 | 450.8 | 1 1/4 | 16 | 1 1/8 | 170 | 185 | 145 |
| 14" | 350 | 585 | 52.4 | 425 | 75 | 359.2 | 514.4 | 1 1/4 | 20 | 1 1/8 | 180 | 190 | 160 |
| 16" | 400 | 650 | 55.6 | 483 | 81 | 410.5 | 571.5 | 1 3/8 | 20 | 1 1/4 | 190 | 205 | 165 |
| 18" | 450 | 710 | 58.8 | 533 | 87 | 461.8 | 628.6 | 1 3/8 | 24 | 1 1/4 | 195 | 210 | 170 |
| 20" | 500 | 775 | 62.0 | 587 | 94 | 513.1 | 685.8 | 1 3/8 | 24 | 1 1/4 | 205 | 220 | 185 |
| 22" | 550 | 840 | 65.1 | 640 | 100 | 564.4 | 743.0 | 1 5/8 | 24 | 1 1/2 | 230 | 255 | 205 |
| 24" | 600 | 915 | 68.3 | 702 | 105 | 616.0 | 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.

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