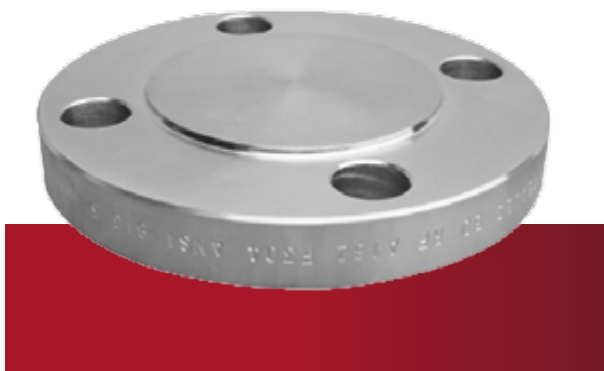
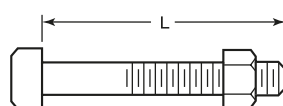
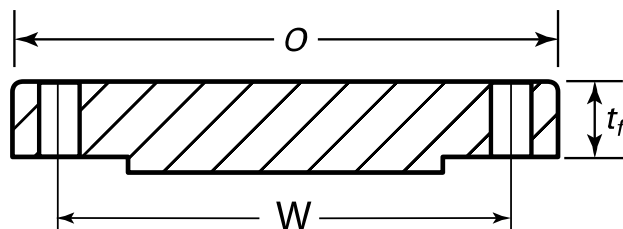
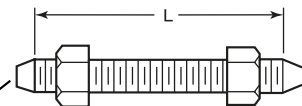




* Referential photo



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 _f)	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	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