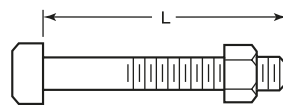
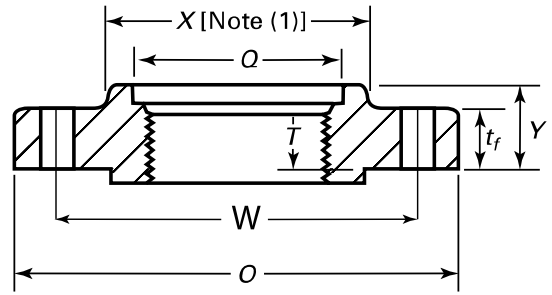
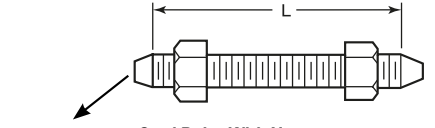


* Referential photo



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, (tf)	Diameter of Hub (X)	Length Through Hub (Y)	Minimum Thread Length Threaded (T)	Dia- meter of Bolt Circle (W)	Dia- meter 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"	89	9.7	30	14	16	60.5	5/8	4	1/2	55	...	50	50
3/4"	99	11.2	38	14	16	69.8	5/8	4	1/2	65	...	50	50
1"	108	12.7	49	16	18	79.2	5/8	4	1/2	65	75	55	55
1 1/4"	117	14.2	59	19	21	88.9	5/8	4	1/2	70	85	55	55
1 1/2"	127	15.9	65	21	22	98.6	5/8	4	1/2	70	85	65	65
2"	152	17.5	78	24	25	120.6	3/4	4	5/8	85	95	70	70
2 1/2"	178	20.6	90	27	28	139.7	3/4	4	5/8	90	100	75	75
3"	190	22.4	108	28	30	152.4	3/4	4	5/8	90	100	75	75
3 1/2"	216	22.4	122	30	32	177.8	3/4	8	5/8	90	100	75	-
4"	229	22.4	135	32	33	190.5	3/4	8	5/8	90	100	75	75
5"	254	22.4	164	35	37	215.9	7/8	8	3/4	95	110	85	85
6"	279	23.9	192	38	40	241.3	7/8	8	3/4	100	115	85	85
8"	343	26.9	246	43	44	298.4	7/8	8	3/4	110	120	90	90
10"	406	28.4	305	48	49	362.0	1	12	7/8	115	125	100	100
12"	483	30.2	365	54	56	431.8	1	12	7/8	120	135	100	100
14"	553	33.3	400	56	57	476.2	1 1/8	12	1	135	145	115	115
16"	597	35.1	457	62	64	539.8	1 1/8	16	1	135	145	115	115
18"	635	38.1	505	67	68	577.8	1 1/4	16	1 1/8	145	160	125	125
20"	698	41.1	559	71	73	635.0	1 1/4	20	1 1/8	160	170	140	140
22"	749	44.4	610	78	---	692.2	1 3/8	20	1 1/4	170	185	150	-
24"	813	46.0	663	81	83	749.3	1 3/8	20	1 1/4	170	185	150	150

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. Reference weights**

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