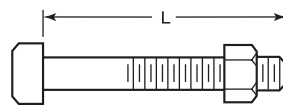
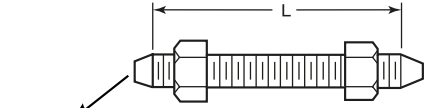


* Referential photo



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)	Minimum Thread Length Threaded (T)	Dia- meter of Bolt Circle (W)	Diameter of Bolt Holes (inch)	Number of Bolts	Diameter of Bolts (inch)	Length of Bolts (L)			Weight Approx. (Kg)
inch	mm										Stud Bolts		Machine Bolts	
											2mm Raised Face	Ring Joint	2mm Raised Face	
1/2"	12	90	9.6	30	14	16	60.3	5/8	4	1/2	55	...	50	50
3/4"	18	100	11.2	38	14	16	69.9	5/8	4	1/2	65	...	50	50
1"	25	110	12.7	49	16	17	79.4	5/8	4	1/2	65	75	55	55
1 1/4"	31	115	14.3	59	19	21	88.9	5/8	4	1/2	70	85	55	55
1 1/2"	38	125	15.9	65	21	22	98.4	5/8	4	1/2	70	85	65	65
2"	50	150	17.5	78	24	25	120.7	3/4	4	5/8	85	95	70	70
2 1/2"	63	180	20.7	90	27	29	139.7	3/4	4	5/8	90	100	75	75
3"	75	190	22.3	108	29	30	152.4	3/4	4	5/8	90	100	75	75
3 1/2"	88	215	22.3	122	30	32	177.8	3/4	8	5/8	90	100	75	-
4"	100	230	22.3	135	32	33	190.5	3/4	8	5/8	90	100	75	75
5"	125	255	22.3	164	35	36	215.9	7/8	8	3/4	95	110	85	85
6"	150	280	23.9	192	38	40	241.3	7/8	8	3/4	100	115	85	85
8"	200	345	27.0	246	43	44	298.5	7/8	8	3/4	110	120	90	90
10"	250	405	28.6	305	48	49	362.0	1	12	7/8	115	125	100	100
12"	300	485	30.2	365	54	56	431.8	1	12	7/8	120	135	100	100
14"	350	535	33.4	400	56	57	476.3	1 1/8	12	1	135	145	115	115
16"	400	595	35.0	457	62	64	539.8	1 1/8	16	1	135	145	115	115
18"	450	635	38.1	505	67	68	577.9	1 1/4	16	1 1/8	145	160	125	125
20"	500	700	41.3	559	71	73	635.0	1 1/4	20	1 1/8	160	170	140	140
22"	550	750	44.5	610	78	---	692.2	1 3/8	20	1 1/4	170	185	150	-
24"	600	815	46.1	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**