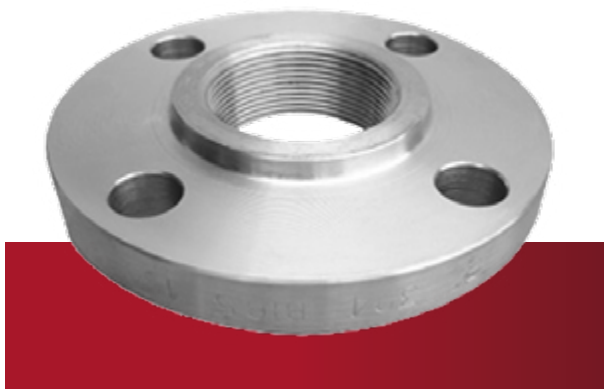
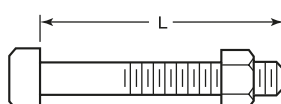
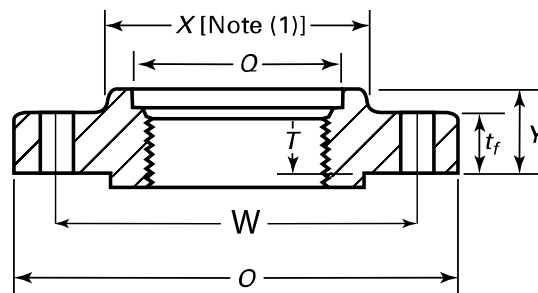
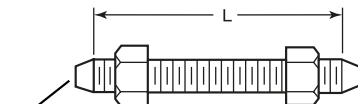




* Referential photo



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 Hub (X)	Length Through Hub (Y)	Minimum Thread Length Threaded (T)	Minimum Counter-bore (Q)	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											1.5mm Raised Face	Ring Joint	1.5mm Raised Face	
1/2"	95	12.7	38	21	16	23.6	66.7	5/8	4	1/2	65	75	55	0.62
3/4"	117	14.2	48	24	16	29.0	82.6	3/4	4	5/8	75	90	65	1.15
1"	124	15.7	54	25	18	35.8	88.9	3/4	4	5/8	75	90	65	1.39
1 1/4"	133	17.5	64	25	21	44.4	98.4	3/4	4	5/8	85	95	70	1.67
1 1/2"	155	19.0	70	29	22	50.3	114.3	7/8	4	3/4	90	100	75	2.53
2"	165	20.6	84	32	28	63.5	127.0	3/4	8	5/8	90	100	75	2.80
2 1/2"	190	23.9	100	37	32	76.2	149.2	7/8	8	3/4	100	115	85	4.25
3"	210	26.9	117	41	32	92.2	168.3	7/8	8	3/4	110	120	90	5.81
3 1/2"	229	28.4	133	43	37	104.9	184.2	7/8	8	3/4	110	125	95	-
4"	254	30.2	146	46	37	117.6	200.0	7/8	8	3/4	115	125	95	10.13
5"	279	33.3	178	49	43	144.5	235.0	7/8	8	3/4	120	135	110	12.58
6"	318	35.1	206	51	46	171.4	269.9	7/8	12	3/4	120	140	110	16.04
8"	381	39.6	260	60	51	222.2	330.2	1	12	7/8	140	150	120	24.50
10"	444	46.0	321	65	56	276.4	387.4	1 1/8	16	1	160	170	140	34.16
12"	521	49.3	375	72	60	328.7	450.8	1 1/4	16	1 1/8	170	185	145	51.26
14"	584	52.3	425	75	64	360.4	514.4	1 1/4	20	1 1/8	180	190	160	72.12
16"	648	55.6	483	81	68	411.2	571.5	1 3/8	20	1 1/4	190	205	165	90.40
18"	711	58.7	533	87	70	462.0	628.6	1 3/8	24	1 1/4	195	210	170	109.00
20"	775	62.0	587	94	73	512.8	685.8	1 3/8	24	1 1/4	205	220	185	136.00
22"	838	65.0	641	100	---	---	743.0	1 5/8	24	1 1/2	230	255	205	-
24"	914	68.3	702	105	83	614.4	812.8	1 5/8	24	1 1/2	230	255	205	204.00

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**