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CATALOG

FLANGES

ASME B16.5



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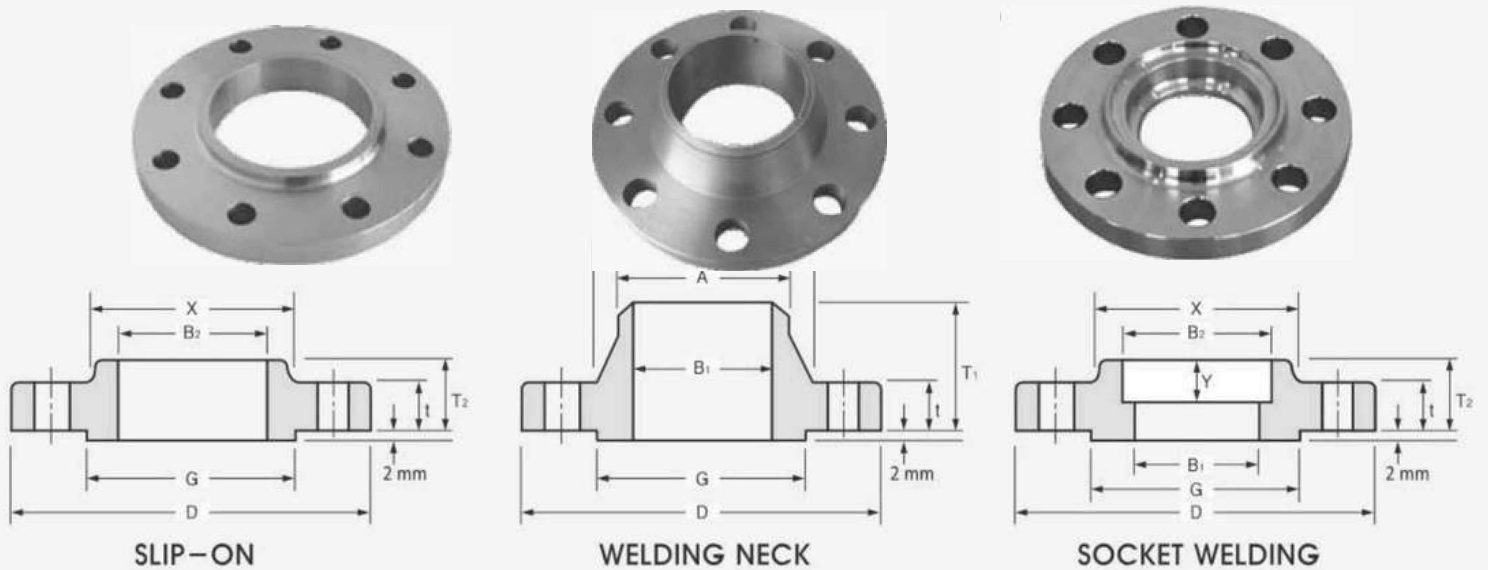




ANSI FLANGES

- Class 150 Flanges
- Class 300 Flanges
- Class 400 Flanges
- Class 600 Flanges
- Class 900 Flanges
- Class 1500 Flanges
- Class 2500 Flanges

CLASS 150 FLANGES



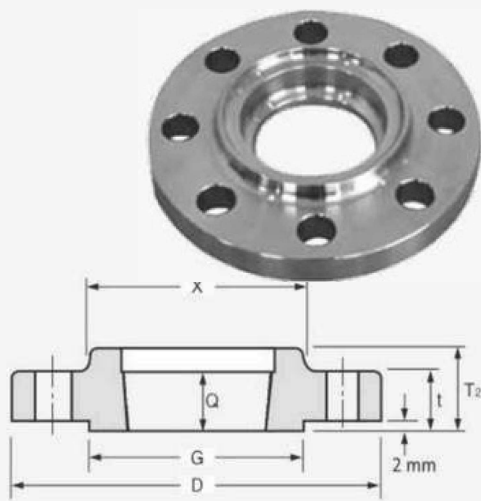
ANSI B16.5 FORGED FLANGES

Unit : mm

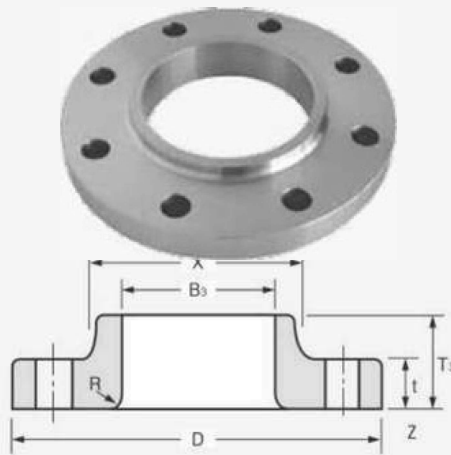
Nominal Pipe Size	Outside Diam. D	Diam. at Base of Hub X	O. D. of Raised Face G	Thick-ness t	BORE			LENGTH THRU HUB			Diam. of Hub at Bevel A	Radius of Fillet R	Thread Length Q
					Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint			
					B ₁	B ₂	B ₃	T ₁	T ₂	T ₃			
1/2	90	30	34.90	9.6	15.7	22.4	22.9	46	14	16	21.3	3	16
3/4	100	38	42.90	11.21	20.8	27.7	28.2	51	14	16	26.7	3	16
1	110	49	50.80	2.71	26.7	34.5	35.1	54	16	17	33.4	3	17
1 1/4	115	59	63.50	4.31	35.1	43.2	43.7	56	19	21	42.2	5	21
1 1/2	125	65	73.0	5.91	40.9	49.5	50.0	60	21	22	48.3	6	22
2	150	78	92.10	7.52	52.6	62.0	62.5	62	24	25	60.3	8	25
2 1/2	180	90	104.81	0.72	62.7	74.7	75.4	68	27	29	73.0	8	29
3	190	108	27.01	2.32	78.0	90.7	91.4	68	29	30	88.9	10	30
3 1/2	215	122	39.71	2.32	90.2	103.4	104.1	70	30	32	101.6	10	32
4	230	135	57.21	2.32	102.4	116.1	116.8	75	32	33	114.3	11	33
5	255	164	85.72	2.32	128.3	143.8	144.5	87	35	35	141.3	11	36
6	280	192	15.92	3.92	154.2	170.7	171.5	87	38	40	168.3	13	40
8	345	246	69.93	7.02	202.7	221.5	222.3	100	43	44	219.1	13	44
10	405	305	23.83	8.63	254.5	276.4	277.4	100	48	49	273.0	13	49
12	485	365	81.04	0.23	304.8	327.2	328.2	113	54	56	323.8	13	56
14	535	400	12.84	3.43	336.6	359.2	360.2	125	56	79	355.6	13	57
16	595	457	69.95	5.03	387.4	410.5	411.2	125	62	87	406.4	13	64
18	635	505	33.45	8.14	438.2	461.8	462.3	138	67	97	457.0	13	68
20	700	559	84.26	1.34	489.0	531.1	514.4	143	71	103	508.0	13	73
24	815	663	92.2	6.1	590.6	616.0	616.0	151	81	111	610.0	13	83

Notes:

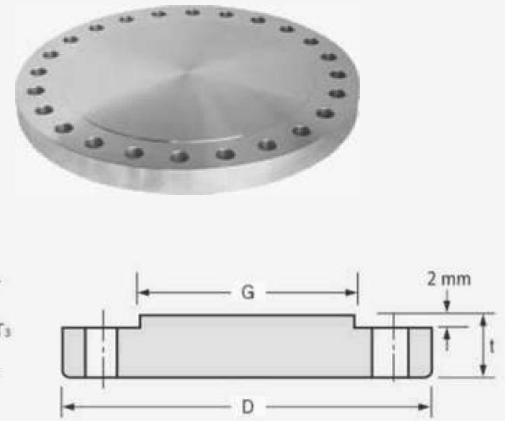
- (1) All Dimensions are in mm.
- (2) Class 150 flanges except Lap Joint will be furnished with 0.06" (1.6mm) raised face, which is included in 'Thickness' (t) and 'Length through Hub' (T₁),(T₂).
- (3) For Slip-on, Threaded, Socket Welding and Lap Joint Flanges, the hubs can be shaped either vertical from base to top or tapered within the limits of 7 degrees.



THREADED



LAP JOINT



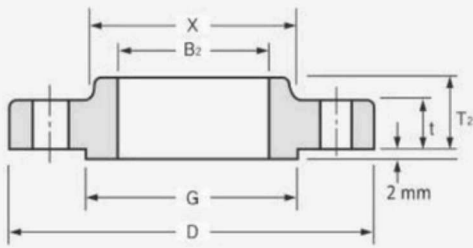
BLIND

Unit : mm

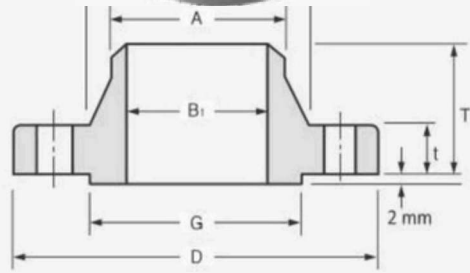
Nominal Pipe Size	Depth of Socket Y	DRILLING			BOLTING				APPROXIMATE WEIGHT									
		Bolt Circle Diam	Number of Holes	Diam of Holes	Diam of Bolts (inch)	Machine Bolt Length			Welding Neck		Slip-on and Threaded		Lap Joint		Blind		Socket Welding	
						Raised Face	Raised Face	Ring Joint	Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg	lb
1/2	10	60.5	4	15.7	1/2	50.8	57.2	-	0.51	1.10	0.47	1.00	0.51	1.00	0.47	1.00	0.47	1.00
3/4	11	69.9	4	15.7	1/2	50.8	63.5	-	0.73	1.60	0.58	1.30	0.64	1.40	0.63	1.40	0.59	1.30
1	13	79.2	4	15.7	1/2	57.2	63.5	76.2	1.07	2.40	0.86	1.90	0.93	1.80	0.94	2.10	0.87	1.90
1 1/4	14	88.9	4	15.7	1/2	57.2	69.9	82.6	1.40	3.10	1.08	2.40	1.16	2.00	1.23	2.70	1.11	2.40
1 1/2	16	98.6	4	15.7	1/2	63.5	69.9	82.6	1.81	4.00	1.41	3.10	1.51	3.30	1.62	3.60	1.45	3.20
2	17	120.7	4	19.1	5/8	69.9	82.6	95.3	2.59	5.70	2.26	5.00	2.38	5.20	2.64	5.80	2.33	5.00
2 1/2	19	139.7	4	19.1	5/8	76.2	88.9	101.6	4.28	9.40	3.43	7.60	3.60	7.90	4.06	9.00	3.55	7.80
3	21	152.4	4	19.1	5/8	76.2	88.9	101.6	5.18	11.40	3.87	8.50	4.04	8.90	4.90	10.80	4.02	8.90
3 1/2	-	177.8	8	19.1	5/8	76.2	88.9	101.6	5.45	12.00	4.99	11.00	4.99	11.00	5.90	13.00	4.99	11.00
4	-	190.5	8	19.1	5/8	76.2	88.9	101.6	7.32	16.10	5.75	12.70	5.96	13.00	7.41	16.30	5.99	13.20
5	-	215.9	8	22.4	3/4	82.6	95.3	108.0	8.91	19.60	6.22	13.70	6.44	14.00	8.76	19.30	6.68	14.70
6	-	241.3	8	22.4	3/4	82.6	101.6	114.3	11.26	24.80	7.38	16.30	7.59	16.70	11.31	24.90	7.99	17.60
8	-	298.5	8	22.4	3/4	88.9	108.0	120.7	17.68	39.00	12.36	27.30	12.66	27.90	19.92	43.90	13.29	29.30
10	-	362.0	12	25.4	7/8	101.6	114.3	127.0	24.79	54.70	17.10	37.70	16.78	37.00	29.39	64.80	19.50	43.00
12	-	431.8	12	25.4	7/8	101.6	120.7	133.4	38.98	85.90	27.68	61.00	28.30	62.40	43.70	96.30	29.03	64.00
14	-	476.3	12	28.4	1	114.3	133.4	146.1	51.71	114.00	35.20	77.60	41.50	91.50	59.42	140.00	38.56	85.00
16	-	539.8	16	28.4	1	114.3	133.4	146.1	64.41	142.00	42.18	93.00	52.98	116.80	77.11	170.00	44.49	98.00
18	-	577.9	16	31.8	1 1/8	127.0	146.1	158.8	74.84	165.00	49.71	109.60	59.00	130.00	94.80	209.00	54.43	120.00
20	-	635.0	20	31.8	1 1/8	139.7	158.8	171.5	89.36	197.00	65.50	140.00	72.12	159.00	123.38	272.00	70.31	155.00
24	-	749.3	20	35.1	1 1/4	152.4	171.5	184.2	119.66	263.80	90.50	199.50	99.02	218.30	188.24	415.00	95.25	210.00

- (4) Blind Flanges may be made with the same hub as that used for Slip-on Flanges or without hub.
- (5) The gasket surface and backside (bearing surface for bolting) are made parallel within 1 degree.
To accomplish parallelism, spot facing is carried out according to MSS SP-9, without reducing thickness (t).
- (6) Depth of Socket (Y) is covered by ANSI B16.5 only sizes through 3 inch, over 3 inch is at the manufacturer's option.

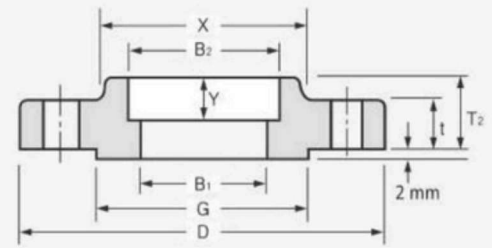
CLASS 300 FLANGES



SLIP-ON



WELDING NECK



SOCKET WELDING

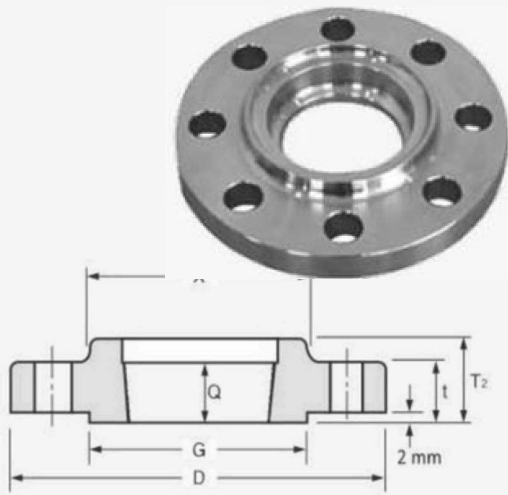
ANSI B16.5 FORGED FLANGES

Unit : mm

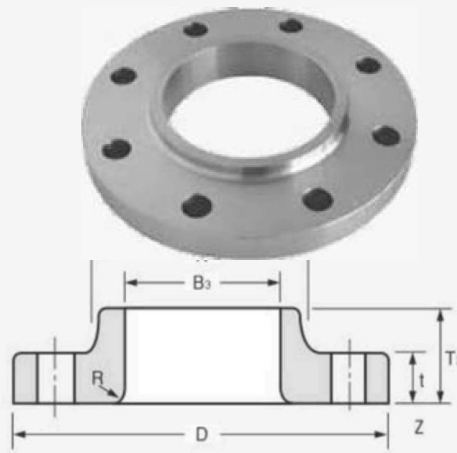
Nominal Pipe Size	Outside Diam.	Diam. at Base of Hub	O. D. of Raised Face	Thick-ness	BORE				LENGTH THRU HUB			Diam. of Hub at Bevel	Radius of Fillet	Thread Length
					Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Counter Bore Min. Threaded Min.	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint			
					B ₁	B ₂	B ₃	B	T ₁	T ₂	T ₃			
D	X	G	t	B ₁	B ₂	B ₃	B	T ₁	T ₂	T ₃	A	R	Q	
1/2	95	38	34.90	12.7	15.7	22.4	22.9	23.6	51	21	22	21.3	3	16
3/4	115	48	42.90	14.3	20.8	27.7	28.2	29.0	56	24	25	26.7	3	16
1	125	54	50.80	15.9	26.7	34.5	35.1	35.8	60	25	27	33.4	3	18
1 1/4	135	64	63.50	17.5	35.1	43.2	43.7	44.5	64	25	27	42.2	5	21
1 1/2	155	70	73.0	19.1	40.9	49.5	50.0	50.5	67	29	30	48.3	6	23
2	165	84	92.10	20.7	52.6	62.0	62.5	63.5	68	32	33	60.3	8	29
2 1/2	190	100	104.8	23.9	62.7	74.7	75.4	76.2	75	37	38	73.0	8	32
3	210	117	127.0	27.0	78.0	90.7	91.4	92.2	78	41	43	88.9	10	32
3 1/2	230	133	139.7	28.6	90.2	103.4	104.1	104.9	79	43	44	101.6	10	37
4	255	146	157.2	30.2	102.4	116.1	116.8	117.6	84	46	48	114.3	11	37
5	280	178	185.7	33.4	128.3	143.8	144.5	144.5	97	49	51	141.3	11	43
6	320	206	215.9	35.0	154.2	170.7	171.5	171.5	97	51	52	168.3	13	47
8	380	260	269.9	39.7	202.7	221.5	222.3	222.3	110	60	62	219.1	13	51
10	445	321	323.8	46.1	254.5	276.4	277.4	276.4	116	65	95	273.0	13	56
12	520	375	381.0	49.3	304.8	327.2	328.2	328.7	129	71	102	323.8	13	61
14	585	425	412.8	52.4	336.6	359.2	360.2	360.4	141	75	111	355.6	13	64
16	650	483	469.9	55.6	387.4	410.5	411.2	411.2	144	81	121	406.4	13	69
18	710	533	533.4	58.8	438.2	461.8	462.3	462.0	157	87	130	457.0	13	70
20	775	587	584.2	62.0	489.0	513.1	514.4	512.8	160	94	140	508.0	13	74
24	915	702	692.2	68.3	590.6	616.0	616.0	614.4	167	105	152	610.0	13	83

Notes:

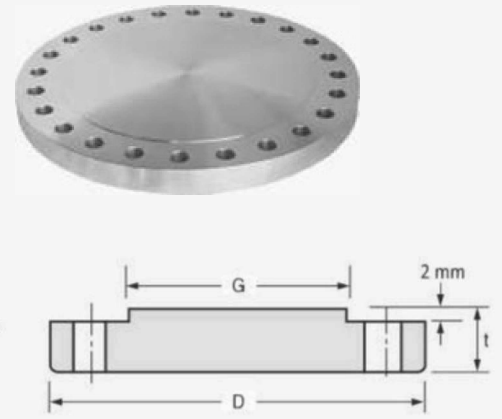
- (1) All Dimensions are in mm.
- (2) Class 300 flanges except Lap Joint will be furnished with 0.06" (1.6mm) raised face, which is included in 'Thickness' (t) and 'Length through Hub' (T₁), (T₂).
- (3) For Slip-on, Threaded, Socket Welding and Lap Joint Flanges, the hubs can be shaped either vertical from base to or tapered within the limits of 7 degrees.



THREADED



LAP JOINT



BLIND

Unit : mm

Nominal Pipe Size	Depth of Socket Y	DRILLING			BOLTING				APPROXIMATE WEIGHT									
		Bolt Circle Diam	Number of Holes	Diam of Holes	Diam of Bolts (inch)	Machine Bolt Length		Stud Bolt Length	Welding Neck		Slip-on and Threaded		Lap Joint		Blind		Socket Welding	
						Raised Face	Raised Face		Ring Joint	Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg
1/2	10	66.5	4	15.7	1/2	57.2	63.5	76.2	0.78	1.70	0.62	1.40	0.61	1.30	0.62	1.40	0.62	1.40
3/4	11	82.6	4	19.1	5/8	63.5	76.2	88.9	1.34	3.00	1.15	2.50	1.15	2.50	1.16	2.50	1.19	2.60
1	13	88.9	4	19.1	5/8	63.5	76.2	88.9	1.64	3.60	1.39	3.10	1.38	3.00	1.42	3.00	1.44	3.20
1 1/4	14	98.6	4	19.1	5/8	69.9	82.6	95.3	2.06	4.50	1.67	3.70	1.66	3.70	1.79	3.90	1.73	3.80
1 1/2	16	114.3	4	22.4	3/4	76.2	88.9	101.6	3.06	6.70	2.53	5.60	2.52	5.60	2.68	5.90	2.62	5.80
2	17	127.0	8	19.1	5/8	76.2	88.9	101.6	3.40	7.50	2.80	6.20	2.79	6.20	3.09	6.80	2.94	6.50
2 1/2	19	149.4	8	22.4	3/4	82.6	101.6	114.3	5.31	11.70	4.25	9.40	4.22	9.30	4.75	10.50	4.49	9.90
3	21	168.1	8	22.4	3/4	88.9	108.0	120.7	7.32	16.10	5.81	12.80	5.78	12.70	6.79	14.90	6.20	13.70
3 1/2	-	184.2	8	22.4	3/4	95.3	108.0	127.0	8.17	18.00	7.72	17.00	7.72	17.00	9.53	21.00		
4	-	200.2	8	22.4	3/4	95.3	114.3	127.0	11.30	24.90	10.13	22.30	10.07	22.20	12.00	26.50		
5	-	235.0	8	22.4	3/4	108.0	120.7	133.4	15.12	33.30	12.58	27.70	12.52	27.60	15.96	35.20		
6	-	269.7	12	22.4	3/4	108.0	120.7	139.7	19.68	43.40	16.04	35.40	15.95	35.20	21.20	46.70		
8	-	330.2	12	25.4	7/8	120.7	139.7	152.4	30.48	67.20	24.50	54.00	24.37	53.70	34.60	76.30		
10	-	387.4	16	28.4	1	139.7	158.8	171.5	43.74	96.40	34.16	75.30	39.92	88.00	55.34	122.00		
12	-	450.9	16	31.8	1 1/8	146.1	171.5	184.2	64.41	142.00	51.26	113.00	58.70	129.40	78.90	174.00		
14	-	514.4	20	31.8	1 1/8	158.8	177.8	190.5	88.30	194.70	72.12	159.00	83.46	184.00	107.05	236.00		
16	-	571.5	20	35.1	1 1/4	165.1	190.5	203.2	112.94	249.00	90.40	199.30	106.14	234.00	139.25	307.00		
18	-	628.7	24	35.1	1 1/4	171.5	196.9	209.6	138.34	305.00	109.00	240.30	133.95	295.30	176.90	396.00		
20	-	685.8	24	35.1	1 1/4	184.2	203.2	222.3	167.37	369.00	136.00	300.00	157.65	347.60	223.17	492.00		
24	-	812.8	24	41.1	1 1/2	203.2	228.6	254.0	235.41	519.00	204.00	449.70	240.40	530.00	342.00	754.00		

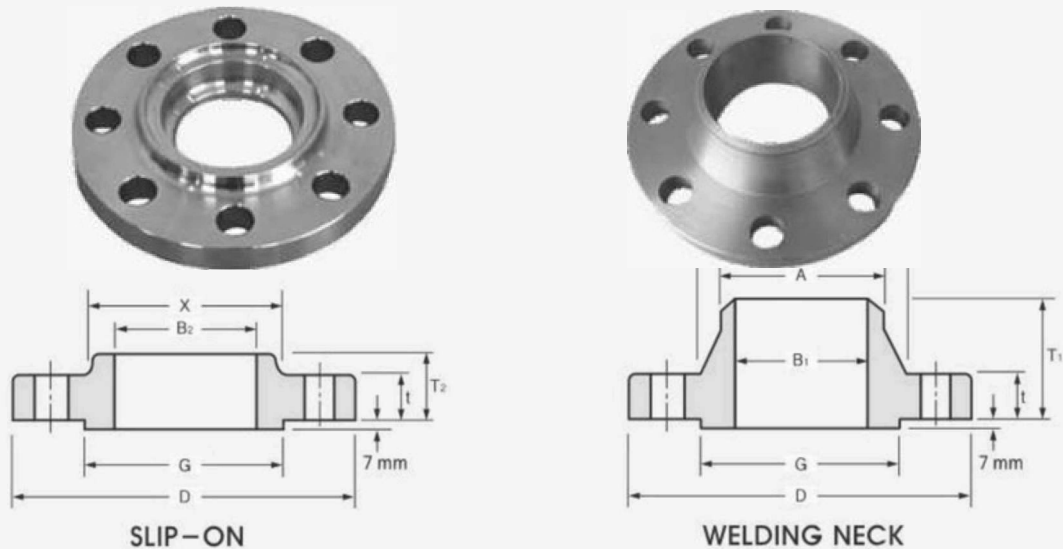
(4) Blind Flanges may be made with the same hub as that used for Slip-on Flanges or without hub.

(5) The gasket surface and backside (bearing surface for bolting) are made parallel within 1 degree.

To accomplish parallelism, spot facing is carried out according to MSS SP-9, without reducing thickness (t).

(6) Depth of Socket (Y) is covered by ANSI B16.5 only is sizes through 3 inch, over 3 inch is at the manufacturer's option.

CLASS 400 FLANGES

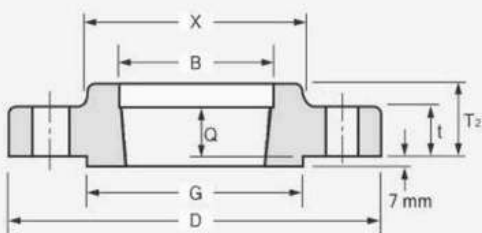


ANSI B16.5 FORGED FLANGES

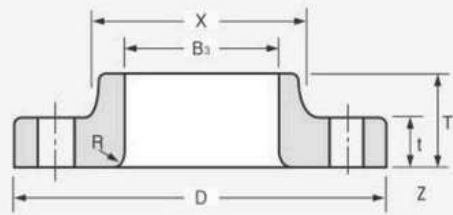
Unit : mm

Nominal Pipe Size	Outside Diam. D	Diam. at Base of Hub X	O. D. of Raised Face G	Thick-ness t	BORE				LENGTH THRU HUB			Diam. of Hub at Bevel A	
					Welding Neck B ₁	Slip-on B ₂	Lap Joint B ₃	Counter Bore Min. B	Welding Neck T ₁	Slip-on And Threaded T ₂	Lap Joint T ₃		
1/2	95	38	34.90	14.3	See Note(1) To be specified by purchaser.		22.4	22.9	23.6	52	22	22	21.3
3/4	115	48	42.90	15.9			27.7	28.2	29.0	57	25	25	26.7
1	125	54	50.80	17.5			34.5	35.1	35.8	62	27	27	33.4
1 1/4	135	64	63.50	20.7			43.2	43.7	44.5	67	29	29	42.2
1 1/2	155	70	73.09	22.3			49.5	50.0	50.5	70	32	32	48.3
2	165	84	2.10	25.4			62.0	62.5	63.5	73	37	37	60.3
2 1/2	190	100	104.8	28.6			74.7	75.4	76.2	79	41	41	73.0
3	210	117	127.0	31.8			90.7	91.4	92.2	83	46	46	88.9
3 1/2	230	133	139.7	35.0			103.4	104.1	104.9	86	49	49	101.6
4	255	146	157.2	35.0			116.1	116.8	117.6	89	51	51	114.3
5	280	178	185.7	38.1			143.8	144.5	144.5	102	54	54	141.3
6	320	206	215.9	41.3			170.7	171.5	171.5	103	57	57	168.3
8	380	260	269.9	47.7			221.5	222.3	222.3	117	68	68	219.1
10	445	321	323.8	54.0			276.4	277.4	276.4	124	73	102	273.0
12	520	375	381.0	57.2			327.2	328.2	328.7	137	79	108	323.8
14	585	425	412.8	60.4			359.2	360.2	360.4	149	84	117	355.6
16	650	483	469.9	63.5		410.5	411.2	411.2	152	94	127	406.4	
18	710	533	533.4	66.7		461.8	462.3	462.0	165	98	137	457.0	
20	775	587	584.2	69.9		513.1	514.4	512.8	168	102	146	508.0	
24	915	702	692.2	76.2		616.0	616.0	614.4	175	114	159	610.0	

- Notes:**
- (1) All Dimensions are in mm.
 - (2) Class 400 flanges except Lap Joint will be furnished with 0.25" (6.35mm) raised face, which is not included in 'Thickness' (t) and 'Length through Hub' (T₁),(T₂).
 - (3) For Slip-on, Threaded and Lap Joint Flanges, the hubs can be shaped either vertical from base to top or tapered within the limits of 7 degrees.



THREADED



LAP JOINT



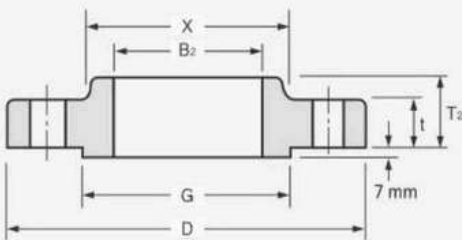
BLIND

Unit : mm

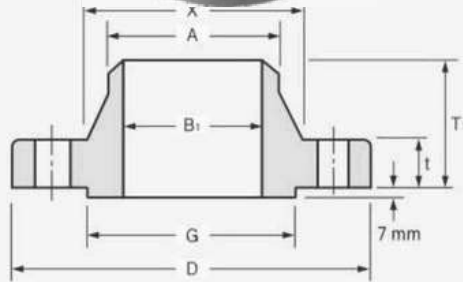
Nominal Pipe Size	Radius of Fillet	Thread Length	DRILLING			BOLTING				APPROXIMATE WEIGHT							
			Bolt Circle Diam	Number of Holes	Diam of Holes	Diam of Bolts INCHES	Stud Bolt Length			Welding Neck		Slip-on and Threaded		Lap Joint		Blind	
							0.25" Raised Face	Male-Female Tongue-Groove	Ring Joint	Kg	lb	Kg	lb	Kg	lb	Kg	lb
1/2	3	16	66.7	4	15.87	1/2	76.2	69.9	76.2	1.36	3.00	0.91	2.00	0.80	1.80	0.91	2.00
3/4	3	16	82.6	4	19.05	5/8	88.9	82.6	88.9	1.59	3.50	1.36	3.00	1.36	3.00	1.40	3.00
1	3	18	88.9	4	19.05	5/8	88.9	82.6	88.9	1.81	4.00	1.59	3.50	1.59	3.50	1.70	3.80
1 1/4	5	21	98.4	4	19.05	5/8	95.3	88.9	95.3	2.50	5.50	2.10	4.60	2.04	4.50	2.27	5.00
1 1/2	6	23	114.3	4	22.22	3/4	108.0	101.6	108.0	3.63	8.00	3.10	6.80	2.95	6.50	3.40	7.50
2	8	29	127	8	19.05	5/8	108.0	101.6	108.0	4.54	10.00	3.63	8.00	3.63	8.00	4.40	9.70
2 1/2	8	32	149.2	8	22.22	3/4	120.7	114.3	120.7	6.35	14.00	5.44	12.00	4.99	11.00	6.80	15.00
3	10	35	168.3	8	22.22	3/4	127.0	120.7	127.0	8.17	18.00	7.26	16.00	6.35	14.00	8.90	19.60
3 1/2	10	40	184.2	8	25.4	7/8	139.7	133.4	139.7	11.80	26.00	9.53	21.00	9.08	20.00	13.17	29.00
4	11	37	200	8	25.4	7/8	139.7	133.4	139.7	13.61	30.00	10.89	24.00	9.98	22.00	14.40	31.70
5	11	43	235	8	25.4	7/8	146.1	139.7	146.1	17.69	39.00	14.07	31.00	13.15	29.00	19.50	43.00
6	13	46	269.9	12	25.4	7/8	152.4	146.1	152.4	22.23	49.00	19.98	44.00	16.78	37.00	27.67	61.00
8	13	51	330	12	28.57	1	171.5	165.1	171.5	35.38	78.00	30.40	67.00	26.16	59.00	45.36	100.00
10	13	56	387.4	16	31.75	1 1/8	190.5	184.2	190.5	49.89	110.00	41.28	91.00	43.09	95.00	68.00	150.00
12	13	61	450.8	16	34.92	1 1/4	203.2	196.9	203.2	72.57	160.00	59.02	130.00	68.95	152.00	98.00	216.00
14	13	64	514.4	20	34.92	1 1/4	209.6	203.2	209.6	105.69	233.00	81.72	180.00	95.25	210.00	131.66	290.00
16	13	69	571.5	20	38.1	1 3/8	222.3	215.9	222.3	133.30	294.00	106.69	235.00	127.00	280.00	167.00	368.00
18	13	70	628.6	24	38.1	1 3/8	228.6	222.3	228.6	158.90	350.30	129.39	285.30	156.49	345.00	206.57	455.40
20	13	74	685.8	24	41.27	1 1/2	241.3	235.0	247.7	193.00	425.50	152.00	335.00	190.51	420.00	261.00	575.40
24	13	83	812.8	24	47.62	1 3/4	266.7	260.4	279.4	281.48	620.50	231.54	510.50	278.96	615.00	395.00	870.80

- (4) Blind Flanges may be made with the same hub as that used for Slip-on Flanges or without hub.
- (5) The gasket surface and backside (bearing surface for bolting) are made parallel within 1 degree.
To accomplish parallelism, spot facing is carried out according to MSS SP-9, without reducing thickness (t).
- (6) Dimensions of sizes 1/2" through 3-1/2" are the same as for Class 600 Flanges

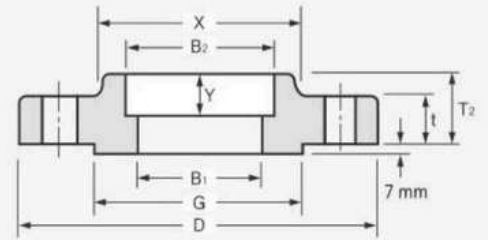
CLASS 600 FLANGES



SLIP-ON



WELDING NECK



SOCKET WELDING

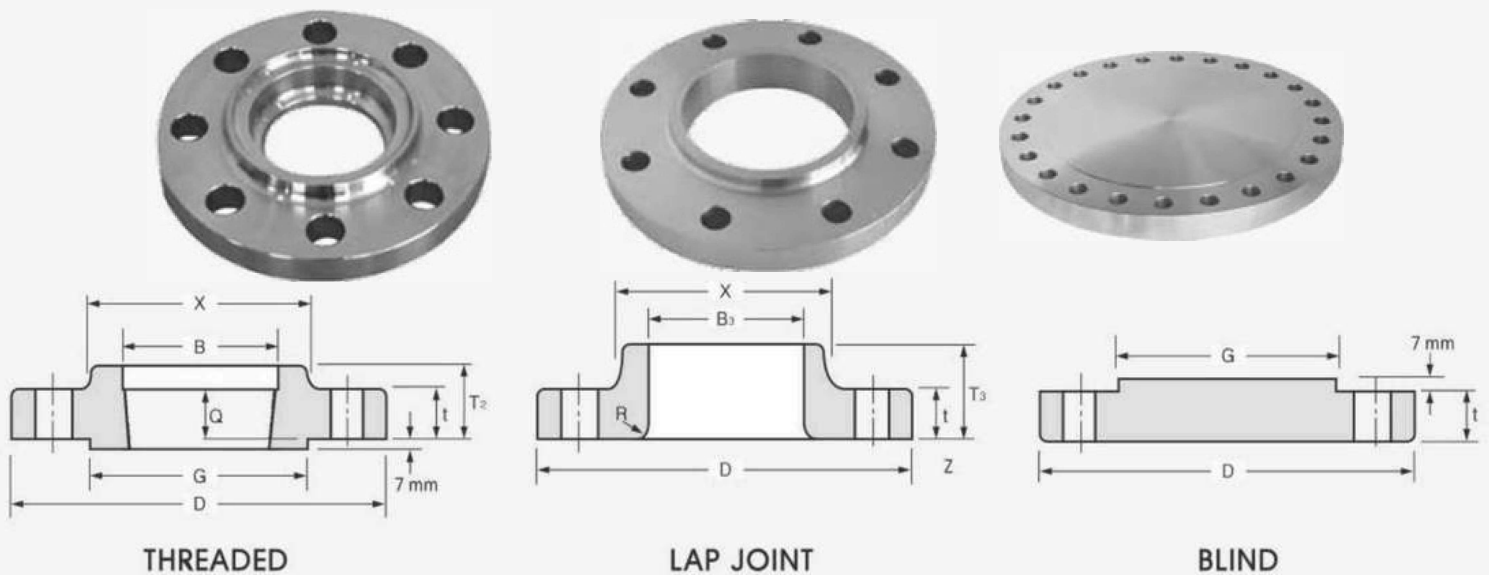
ANSI B16.5 FORGED FLANGES

Unit : mm

Nominal Pipe Size	Outside Diam. D	Diam. at Base of Hub X	O. D. of Raised Face G	Thick-ness t	BORE				LENGTH THRU HUB			Diam. of Hub at Bevel A	Radius of Fillet R	Thread Length Q
					Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Counter Bore Min. B	Welding Neck T1	Slip-on Threaded Socket Welding T2	Lap Joint T3			
					B1	B2	B3							
1/2	95	38	34.90	14.3		22.4	22.9	23.6	52	22	22	21.3	3	16
3/4	115	48	42.90	15.9		27.7	28.2	29.0	57	25	25	26.7	3	16
1	125	54	50.80	17.5		34.5	35.1	35.8	62	27	27	33.4	3	18
1 1/4	135	64	63.50	20.7		43.2	43.7	44.5	67	29	29	42.2	5	21
1 1/2	155	70	73.0	22.3		49.5	50.0	50.5	70	32	32	48.3	6	23
2	165	84	92.10	25.4		62.0	62.5	63.5	73	37	37	60.3	8	29
2 1/2	190	100	104.8	28.6		74.7	75.4	76.2	79	41	41	73.0	8	32
3	210	117	127.0	31.8		90.7	91.4	92.2	83	46	46	88.9	10	35
3 1/2	230	133	139.7	35.0		103.4	104.1	104.9	86	49	49	101.6	10	40
4	275	152	157.2	38.1		116.1	116.8	117.6	102	54	54	114.3	11	42
5	330	189	185.7	44.5		143.8	144.5	144.5	114	60	60	141.3	11	48
6	355	222	215.9	47.7		170.7	171.5	171.5	117	67	67	168.3	13	51
8	420	273	269.9	55.6		221.5	222.3	222.3	133	76	76	219.1	13	58
10	510	343	323.8	63.5		276.4	277.4	276.4	152	86	111	273.0	13	66
12	560	400	381.0	66.7		327.2	328.2	328.7	156	92	117	323.8	13	70
14	605	432	412.8	69.9		359.2	360.2	360.4	165	94	127	355.6	13	74
16	685	495	469.9	76.2		410.5	411.2	411.2	178	106	140	406.4	13	78
18	745	546	533.4	82.6		461.8	462.3	462.0	184	117	152	457.0	13	80
20	815	610	584.2	88.9		513.1	514.4	512.8	190	127	165	508.0	13	83
24	940	718	692.2	101.6		616.0	616.0	614.4	203	140	184	610.0	13	93

Notes:

- (1) All Dimensions are in mm.
- (2) Class 600 flanges except Lap Joint will be furnished with 0.25" (6.35mm) raised face, which is not included in 'Thickness' (t) and 'Length through Hub' (T1),(T2).
- (3) For Slip-on, Threaded, Lap Joint and Socket Welding Flanges, the hubs can be shaped either vertical from base to top or tapered within the limits of 7 degrees.

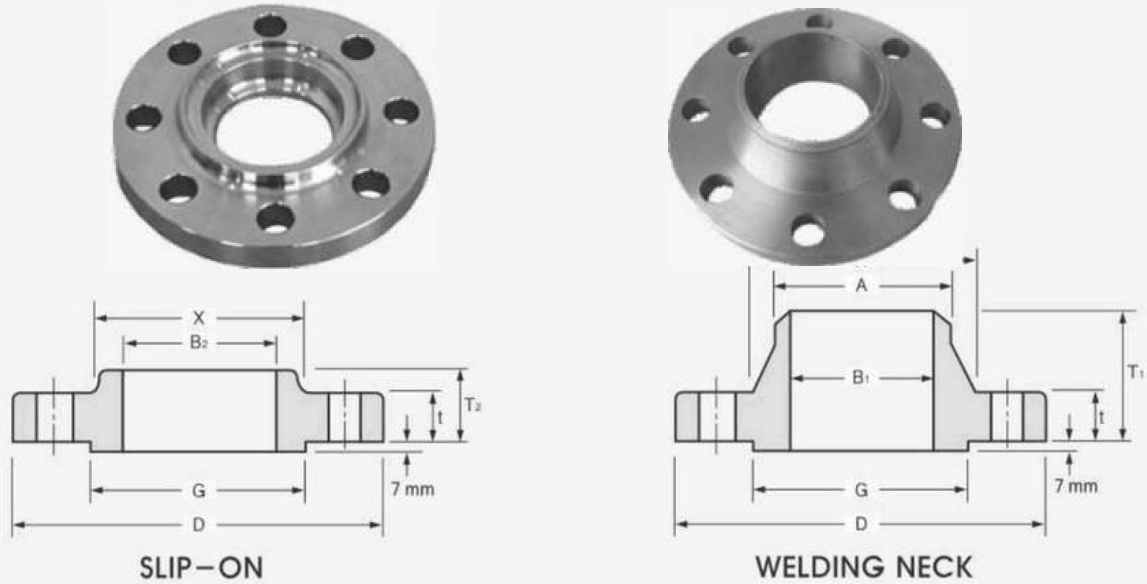


Unit : mm

Nominal Pipe Size	Depth of Socket Y	DRILLING			BOLTING				APPROXIMATE WEIGHT									
		Bolt Circle Diam	Number of Holes	Diam of Holes	Diam of Bolts (inch)	Stud Bolt Length			Welding Neck		Slip-on and Threaded		Lap Joint		Blind		Socket Welding	
						0.25" Raised Face	Male-Female Tongue-Groove	Ring Joint	Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg	lb
1/2	10	66.7	4	15.7	1/2	76.2	69.9	76.2	0.90	2.00	0.91	2.00	0.80	1.80	0.91	2.00	0.91	2.00
3/4	11	82.6	4	19.1	5/8	88.9	82.6	88.9	1.59	3.50	1.40	3.00	1.36	3.00	1.40	3.00	1.36	3.00
1	13	88.9	4	19.1	5/8	88.9	82.6	88.9	1.90	4.00	1.70	3.70	1.59	3.50	1.81	4.00	1.81	4.00
1 1/4	14	98.4	4	19.1	5/8	95.3	88.9	95.3	2.49	5.50	2.27	5.00	2.04	4.50	2.40	5.30	2.60	5.70
1 1/2	16	114.3	4	22.4	3/4	108.0	101.6	108.0	3.63	8.00	3.10	6.80	2.95	6.50	3.40	7.50	3.18	7.00
2	17	127	8	19.1	5/8	108.0	101.6	108.0	4.54	10.00	3.63	8.00	3.63	8.00	4.40	9.70	3.90	8.60
2 1/2	19	149.2	8	22.4	3/4	120.7	114.3	120.7	6.35	14.00	5.44	12.00	4.99	11.00	6.80	15.00	5.90	13.00
3	21	168.3	8	22.4	3/4	127.0	120.7	127.0	8.16	18.00	7.26	16.00	6.35	14.00	8.90	19.60	7.40	16.30
3 1/2	-	184.2	8	25.4	7/8	139.7	133.4	139.7	11.80	26.00	9.53	21.00	9.08	20.00	13.17	29.00		
4	-	215.9	8	25.4	7/8	146.1	139.7	146.1	16.78	37.00	14.97	33.00	14.06	31.00	18.60	41.00		
5	-	266.7	8	28.4	1	165.1	158.8	165.1	30.87	68.00	28.50	62.80	27.50	60.60	30.84	68.00		
6	-	292.1	12	28.4	1	171.5	165.1	171.5	36.77	80.00	36.32	80.00	35.38	78.00	38.00	83.80		
8	-	349.2	12	31.8	1 1/8	190.5	184.2	196.9	50.80	112.00	44.00	97.00	50.80	112.00	62.20	137.00		
10	-	431.8	16	35.1	1 1/4	215.9	209.6	215.9	86.26	190.00	76.20	168.00	74.00	163.00	102.00	224.90		
12	-	489	20	35.1	1 1/4	222.3	215.9	222.3	102.51	226.00	97.52	215.00	108.86	240.00	132.00	291.00		
14	-	527	20	38.1	1 3/8	235.0	228.6	235.0	121.56	268.00	102.00	224.80	111.00	244.70	158.00	384.30		
16	-	603.2	20	41.1	1 1/2	254.0	247.7	254.0	177.06	290.00	147.82	330.20	165.71	365.30	224.73	495.40		
18	-	654	20	44.5	1 5/8	273.1	266.7	273.1	215.65	475.40	180.10	412.30	194.00	427.70	285.00	628.30		
20	-	723.9	24	44.5	1 5/8	285.8	279.4	292.1	267.86	590.50	231.54	510.50	258.78	570.50	365.00	804.70		
24	-	838.2	24	50.8	1 7/8	330.2	323.9	336.6	372.00	820.00	330.00	725.50	362.00	798.00	533.45	1176.0		

- (4) Blind Flanges may be made with the same hub as that used for Slip-on Flanges or without hub.
- (5) The gasket surface and backside (bearing surface for bolting) are made parallel within 1 degree.
To accomplish parallelism, spot facing is carried out according to MSS SP-9, without reducing thickness (t).
- (6) Dimensions of sizes 1/2" through 3-1/2" are the same as for Class 400 Flanges
- (7) Depth of Socket (Y) is covered by ANSI B16.5 only in sizes through 3 inch, over 3 inch is at the manufacturer's option.

CLASS 900 FLANGES

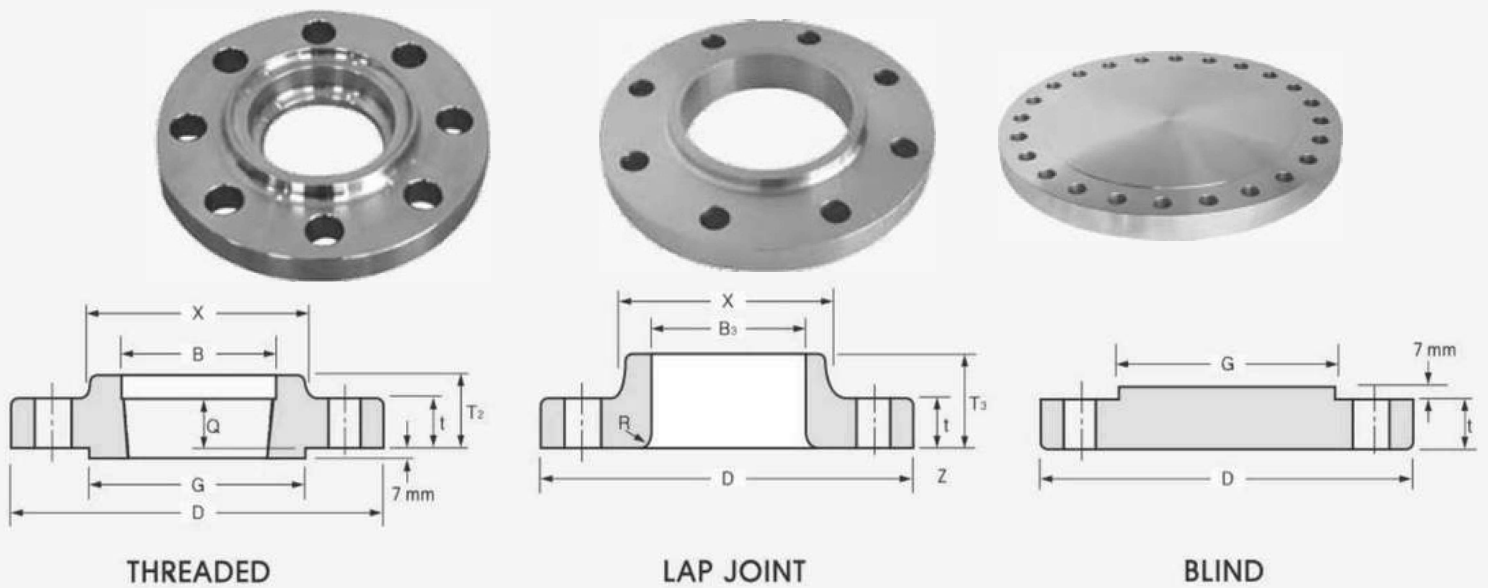


ANSI B16.5 FORGED FLANGES

Unit : mm

Nominal Pipe Size	Outside Diam.	Diam. at Base of Hub	O. D. of Raised Face	Thick-ness	BORE				LENGTH THRU HUB			Diam. of Hub at Bevel
					Welding Neck	Slip-on	Lap Joint	Counter Bore Min.	Welding Neck	Slip-on And Threaded	Lap Joint	
					B ₁	B ₂	B ₃	B	T ₁	T ₂	T ₃	
1/2	120	38	34.90	22.3	See Note(1) To be specified by purchaser.	22.4	22.9	23.6	60	32	32	21.3
3/4	130	44	42.90	25.4		27.7	28.2	29.0	70	35	35	26.7
1	150	52	50.80	28.6		34.5	35.1	35.8	73	41	41	33.4
1 1/4	160	64	63.50	28.6		43.2	43.7	44.5	73	41	41	42.2
1 1/2	180	70	73.0	31.8		49.5	50.0	50.5	83	44	44	48.3
2	215	105	92.10	38.1		62.0	62.5	63.5	102	57	57	60.3
2 1/2	245	124	104.8	41.3		74.7	75.4	76.2	105	64	64	73.0
3	240	127	127.0	38.1		90.7	91.4	92.2	102	54	54	88.9
4	290	159	157.2	44.5		116.1	116.8	117.6	114	70	70	114.3
5	350	190	185.7	50.8		143.8	144.5	144.5	127	79	79	141.3
6	380	235	215.9	55.6		170.7	171.5	171.5	140	86	86	168.3
8	470	298	269.9	63.5		221.5	222.3	222.3	162	102	114	219.1
10	545	368	323.8	69.9		276.4	277.4	276.4	184	108	127	273.0
12	610	419	381.0	79.4		327.2	328.2	328.7	200	117	143	323.8
14	640	451	412.8	85.8		359.2	360.2	360.4	213	130	156	355.6
16	705	508	469.9	88.9		410.5	411.2	411.2	216	133	165	406.4
18	785	565	533.4	101.6	461.8	462.3	462.0	229	152	190	457.0	
20	855	622	584.2	108.0	513.1	514.4	512.8	248	159	210	508.0	
24	1040	749	692.2	139.7	616.0	616.0	614.4	292	203	267	610.0	

- Notes:**
- (1) All Dimensions are in mm.
 - (2) Class 900 flanges except Lap Joint will be furnished with 0.25" (6.35mm) raised face, which is not included in 'Thickness' (t) and 'Length through Hub' (T₁),(T₂).
 - (3) For Slip-on, Threaded and Lap Joint Flanges, the hubs can be shaped either vertical from base to top or tapered within the limits of 7 degrees.



Unit :mm

Nominal Pipe Size	Radius of Fillet	Thread Length	Depth of Socket	DRILLING			BOLTING				APPROXIMATE WEIGHT							
				Bolt Circle Diam	Number of Holes	Diam of Holes	Diam of Bolts (inch)	Stud Bolt Length			Welding Neck		Slip-on and Threaded		Lap Joint		Blind	
								0.25" Raised Face	Male-Female Tongue-Groove	Ring Joint	Kg	lb	Kg	lb	Kg	lb	Kg	lb
1/2	3	23	10	82.6	4	22.4	3/4	108.0	101.6	108.0	2.10	4.60	1.81	4.00	1.81	4.00	1.90	4.20
3/4	3	26	11	88.9	4	22.4	3/4	114.3	108.0	114.3	2.72	6.00	2.40	5.30	2.30	5.00	2.70	6.00
1	3	29	13	101.6	4	25.4	7/8	127.0	120.7	127.0	3.86	8.50	3.41	7.50	3.40	7.50	4.09	9.00
1 1/4	5	31	14	111.3	4	25.4	7/8	127.0	120.7	127.0	4.54	10.00	4.10	9.00	4.09	9.00	4.54	10.00
1 1/2	6	32	16	124.0	4	28.4	1	139.7	133.4	139.7	5.90	13.00	5.45	12.00	5.40	11.90	5.90	13.00
2	8	39	17	165.1	8	25.4	7/8	146.1	139.7	146.1	10.89	24.00	9.98	22.00	9.53	21.00	11.34	25.00
2 1/2	8	48	19	190.5	8	28.4	1	158.8	152.4	158.8	16.33	36.00	15.80	34.80	13.15	29.00	16.00	35.30
3	10	42	-	190.5	8	25.4	7/8	146.1	139.7	146.1	15.00	33.00	11.80	26.00	11.34	25.00	13.17	29.00
4	11	48	-	235.0	8	31.8	1 1/8	171.5	165.1	171.5	23.13	51.00	23.20	51.00	22.60	48.50	24.50	54.00
5	11	54	-	279.4	8	35.1	1 1/4	190.5	184.2	190.5	38.50	84.90	37.65	83.00	36.74	81.00	39.46	87.00
6	13	58	-	317.5	12	31.8	1 1/8	190.5	184.2	196.9	49.89	110.00	48.30	106.50	47.50	104.70	51.50	113.50
8	13	64	-	393.7	12	38.1	1 3/8	222.3	215.9	222.3	79.45	175.00	75.00	166.30	86.00	189.60	89.00	106.20
10	13	72	-	469.9	16	38.1	1 3/8	235.0	228.6	235.0	118.04	260.00	111.13	245.00	125.64	277.00	131.54	290.00
12	13	77	-	533.4	20	38.1	1 3/8	254.0	247.7	254.0	157.00	346.00	146.00	321.80	167.00	368.00	187.00	412.30
14	13	83	-	558.8	20	41.1	1 1/2	273.1	266.7	292.1	181.60	400.40	172.36	380.00	180.07	397.00	224.07	494.00
16	13	86	-	616.0	20	44.5	1 5/8	285.8	279.4	298.5	224.73	495.50	192.95	425.40	211.11	465.40	272.40	600.50
18	13	89	-	685.8	20	50.8	1 7/8	323.9	317.5	333.6	308.72	680.60	272.40	600.50	295.10	650.60	385.90	850.80
20	13	93	-	749.3	20	53.8	2	349.3	342.9	362.0	376.82	830.70	331.42	730.60	367.74	810.70	488.00	1076.00
24	13	102	-	901.7	20	66.5	2 1/2	438.2	431.8	457.2	685.00	1510.00	632.00	1393.30	700.00	1543.00	905.00	1995.00

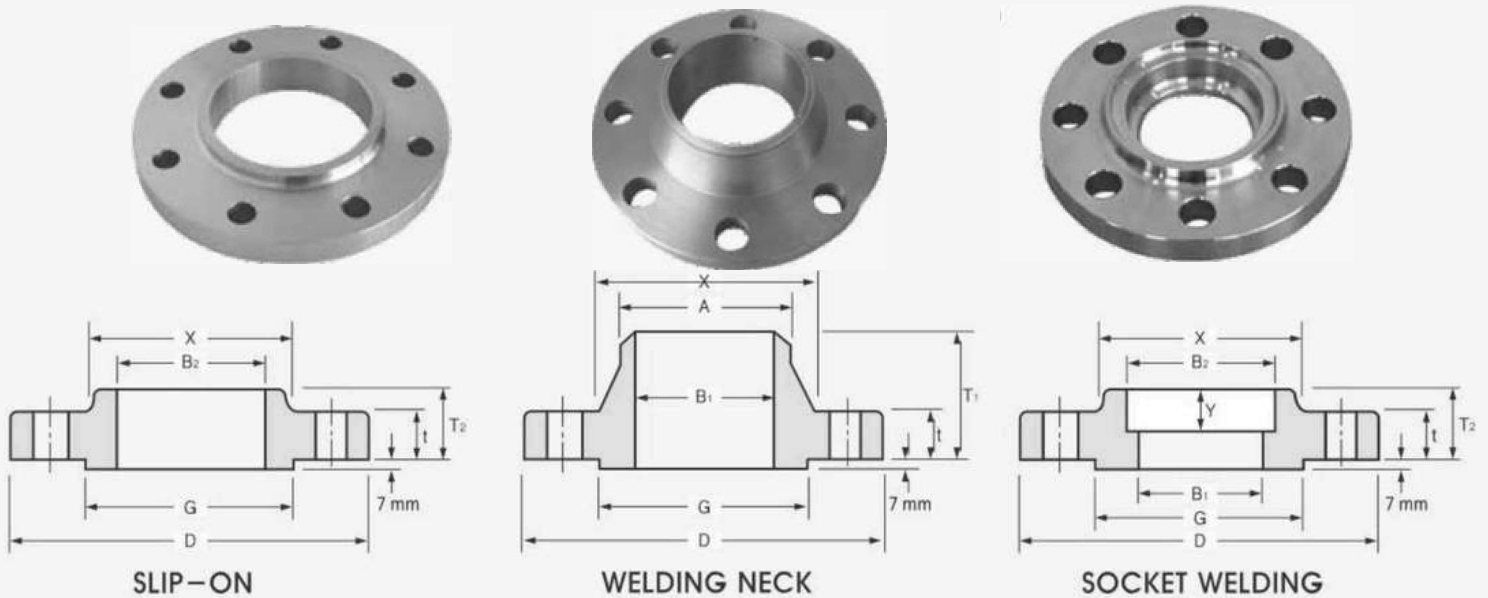
(4) Blind Flanges may be made with the same hub as that used for Slip-on Flanges or without hub.

(5) The gasket surface and backside (bearing surface for bolting) are made parallel within 1 degree.

To accomplish parallelism, spot facing is carried out according to MSS SP-9, without reducing thickness (t).

(6) Dimensions of sizes 1/2" through 2 1/2" are the same as for Class 1500 Flanges

CLASS 1500 FLANGES

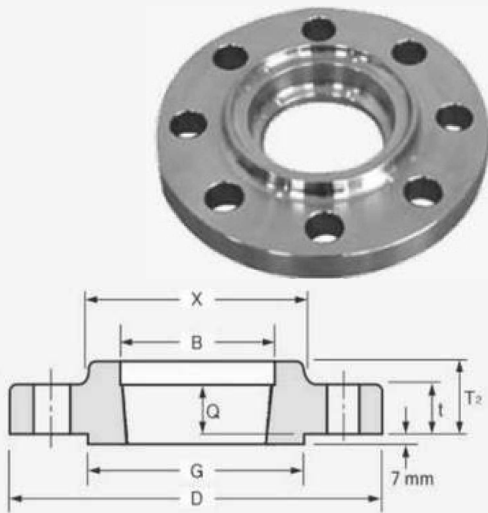


ANSI B16.5 FORGED FLANGES

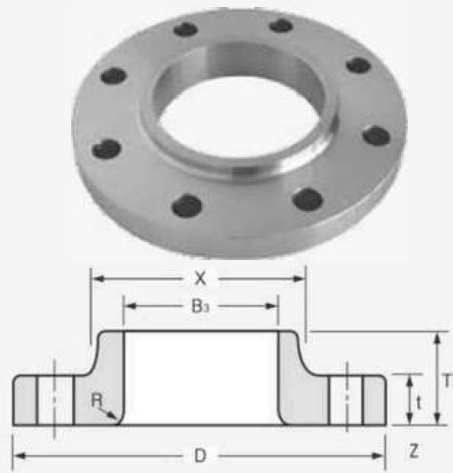
Unit : mm

Nominal Pipe Size	Outside Diam. D	Diam. at Base of Hub X	O. D. of Raised Face G	Thick-ness t	BORE				LENGTH THRU HUB			Diam. of Hub at Bevel A	Radius of Fillet R	Thread Length Q
					Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Counter Bore Min.	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint			
					B ₁	B ₂	B ₃	B	T ₁	T ₂	T ₃			
1/2	120	38	34.90	22.3		22.4	22.9	23.6	60	32	32	21.3	23.6	23
3/4	130	44	42.90	25.4		27.7	28.2	29.0	70	35	35	26.7	29.0	26
1	150	52	50.80	28.6		34.5	35.1	35.8	73	41	41	33.4	35.8	29
1 1/4	160	64	63.50	28.6		43.2	43.7	44.5	73	41	41	42.2	44.4	31
1 1/2	180	70	73.0	31.8		49.5	50.0	50.5	83	44	44	48.3	50.3	32
2	215	105	92.10	38.1		62.0	62.5	63.5	102	57	57	60.3	63.5	39
2 1/2	245	124	104.8	41.3		74.7	75.4	76.2	105	64	64	73.0	76.2	48
3	265	133	127.0	47.7		90.7	91.4	92.2	117	-	73	88.9	-	-
4	310	162	157.2	54.0		116.1	116.8	117.6	124	-	90	114.3	-	-
5	375	197	185.7	73.1		143.8	144.5	144.5	156	-	105	141.3	-	-
6	395	229	215.9	82.6		170.7	171.5	171.5	171	-	119	168.3	-	-
8	485	292	269.9	92.1		221.5	222.3	222.3	213	-	143	219.1	-	-
10	585	368	323.8	108.0		276.4	277.4	276.4	254	-	178	273.0	-	-
12	675	451	381.0	123.9		327.2	328.2	328.7	283	-	219	323.8	-	-
14	750	495	412.8	133.4		359.2	360.2	360.4	298	-	241	355.6	-	-
16	825	552	469.9	146.1		410.5	411.2	411.2	311	-	260	406.4	-	-
18	915	597	533.4	162.0		461.8	462.3	462.0	327	-	275	457.0	-	-
20	985	641	584.2	177.8		513.1	514.4	512.8	358	-	292	508.0	-	-
24	1170	762	692.2	203.2		616.0	616.0	614.4	406	-	330	610.0	-	-

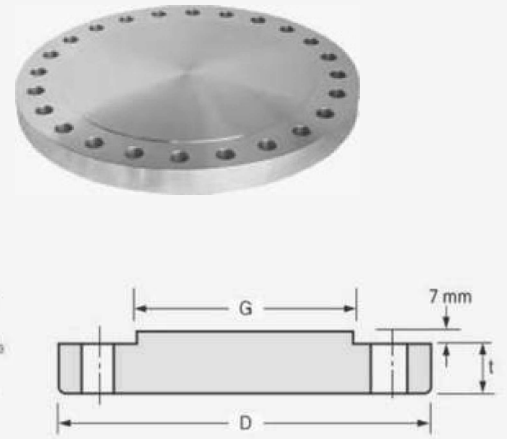
- Notes:**
- (1) All Dimensions are in mm.
 - (2) Class 1500 flanges except Lap Joint will be furnished with 0.25" (6.35mm) raised face, which is not included in 'Thickness' (t) and 'Length through Hub' (T₁), (T₂).
 - (3) For Slip-on, Threaded, Lap Joint and Socket Welding Flanges, the hubs can be shaped either vertical from base to top or tapered within the limits of 7 degrees.



THREADED



LAP JOINT



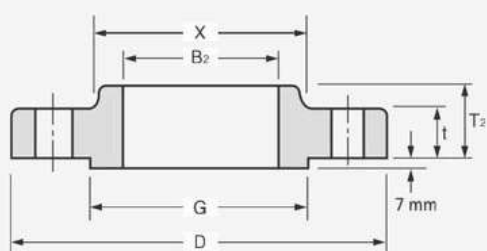
BLIND

Unit : mm

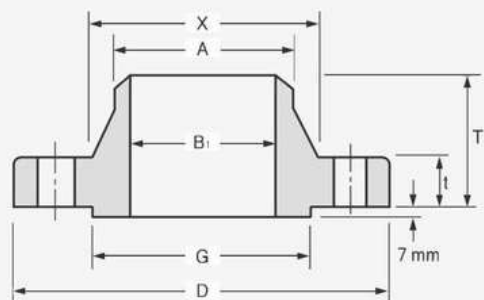
Nominal Pipe Size	Depth of Socket Y	DRILLING			BOLTING				APPROXIMATE WEIGHT									
		Bolt Circle Diam	Number of Holes	Diam of Holes	Diam of Bolts (inch)	Stud Bolt Length			Welding Neck		Slip-on and Threaded		Lap Joint		Blind		Socket Welding	
						0.25" Raised Face	Male-Female Tongue-Groove	Ring Joint	Kg	lb	Kg	lb	Kg	lb	Kg	lb	Kg	lb
1/2	10	82.6	4	22.4	3/4	108.0	101.6	108.0	2.10	4.60	1.80	4.00	1.80	4.00	1.90	4.00	1.81	4.00
3/4	11	88.9	4	22.4	3/4	114.3	108.0	114.3	2.72	6.00	2.27	5.00	2.27	5.00	2.72	6.00	2.81	6.20
1	13	101.6	4	25.4	7/8	127.0	120.7	127.0	3.86	8.50	3.40	7.50	3.40	7.50	4.08	9.00	3.61	8.00
1 1/4	14	111.3	4	25.4	7/8	127.0	120.7	127.0	4.54	10.00	4.10	9.00	4.09	10.80	4.30	9.50	4.99	11.00
1 1/2	16	124.0	4	28.4	1	139.7	133.4	139.7	5.90	13.00	5.45	12.00	5.40	11.90	5.90	13.00	6.76	14.90
2	17	165.1	8	25.4	7/8	146.1	139.7	146.1	10.89	24.00	10.50	23.00	9.53	21.00	11.30	25.00	10.89	24.00
2 1/2	19	190.5	8	28.4	1	158.8	152.4	158.8	16.34	36.00	15.80	34.80	13.15	29.00	16.00	35.30	16.34	36.00
3	-	203.2	8	31.8	1 1/8	177.8	171.5	177.8	21.79	48.00	21.77	48.00	17.24	38.00	21.79	48.00		
4	-	241.3	8	35.1	1 1/4	196.9	190.5	196.9	31.30	69.00	31.00	68.40	29.00	63.90	33.11	73.00		
5	-	292.1	8	41.1	1 1/2	247.7	241.3	247.7	59.02	130.00	58.80	129.60	54.00	119.00	60.00	132.30		
6	-	317.5	12	38.1	1 3/8	260.4	254.0	266.7	74.91	165.00	74.00	163.00	62.00	136.70	75.00	165.30		
8	-	393.7	12	44.5	1 5/8	292.1	285.8	323.9	123.83	273.00	117.73	258.00	129.73	236.00	136.98	302.00		
10	-	482.6	12	50.8	1 7/8	336.6	330.2	342.9	205.93	454.00	197.49	435.40	220.19	485.40	229.97	507.00		
12	-	571.5	16	53.8	2	374.7	368.3	387.4	306.00	674.60	264.00	582.00	286.02	630.60	316.00	696.70		
14	-	635.0	16	60.5	2 1/4	406.4	400.1	425.5	416.00	917.00	-	-	404.06	890.80	421.00	928.00		
16	-	704.9	16	66.5	2 1/2	444.5	438.2	469.9	567.50	1250.00	-	-	522.10	1151.00	559.00	1232.70		
18	-	774.7	16	73.2	2 3/4	495.3	489.0	527.1	736.00	1622.60	-	-	669.65	1476.30	761.00	1677.70		
20	-	831.9	16	79.2	3	539.8	533.4	565.2	929.00	2048.00	-	-	805.85	1776.60	976.00	2131.80		
24	-	990.6	16	91.9	3 1/2	616.0	609.6	647.7	1504.00	3315.70	-	-	1285.55	2834.00	1568.00	3456.80		

- (4) Blind Flanges may be made with the same hub as that used for Slip-on Flanges or without hub.
- (5) The gasket surface and backside (bearing surface for bolting) are made parallel within 1 degree.
To accomplish parallelism, spot facing is carried out according to MSS SP-9, without reducing thickness (t).
- (6) Dimensions of sizes 1/2" through 2 1/2" are the same as for Class 900 Flanges
- (7) Depth of Socket (Y) is covered by ANSI B16.5 only in sizes through 2 1/2 inch, over 2 1/2 inch is at the manufacturer's option.

CLASS 2500 FLANGES



SLIP-ON



WELDING NECK

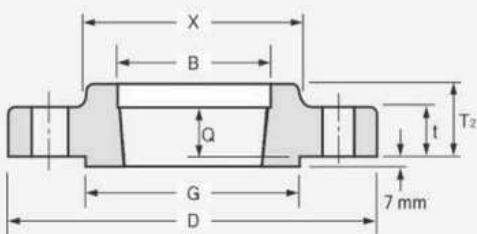
ANSI B16.5 FORGED FLANGES

Unit : mm

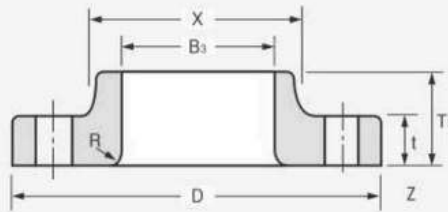
Nominal Pipe Size	Outside Diam.	Diam. at Base of Hub	O. D. of Raised Face	Thick-ness	BORE				LENGTH THRU HUB			Diam. of Hub at Bevel	Radius of Fillet	Thread Length
					Welding Neck	Slip-on	Lap Joint	Counter Bore Min.	Welding Neck	Slip-on and Threaded	Lap Joint			
					B ₁	B ₂	B ₃	B	T ₁	T ₂	T ₃			
1/2	135	43	34.90	30.2	To be specified by purchaser.	22.4	22.9	23.6	73	40	40	21.3	3	29
3/4	140	51	42.90	31.8		27.7	28.2	29.0	79	43	43	26.7	3	32
1	160	57	50.80	35.0		34.5	35.1	35.8	89	48	48	33.4	3	35
1 1/4	185	73	63.50	38.1		43.2	43.7	44.5	95	52	52	42.2	5	39
1 1/2	205	79	73.0	44.5		49.5	50.0	50.5	111	60	60	48.3	6	45
2	235	95	92.10	50.9		62.0	62.5	63.5	127	70	70	60.3	8	51
2 1/2	265	114	104.8	57.2		74.7	75.4	76.2	143	79	79	73.0	8	58
3	305	133	127.0	66.7		90.7	91.4	92.2	168	-	92	88.9	10	-
4	355	165	157.2	76.2		116.1	116.8	117.6	190	-	108	114.3	11	-
5	42	203	185.7	92.1		143.8	144.5	144.5	229	-	130	141.3	11	-
6	485	235	215.9	108.0		170.7	171.5	171.5	273	-	152	168.3	13	-
8	550	305	269.9	127.0		221.5	222.3	222.3	318	-	178	219.1	13	-
10	675	375	323.8	165.1	276.4	277.4	276.4	419	-	229	273.0	13	-	
12	760	441	381.0	184.2	327.2	328.2	328.7	464	-	254	323.8	13	-	

Notes:

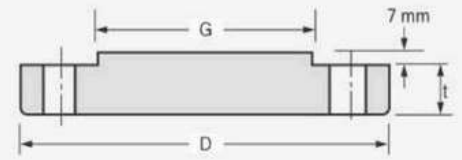
- (1) All Dimensions are in mm.
- (2) Class 2500 flanges except Lap Joint will be furnished with 0.25" (6.35mm) raised face, which is not included in 'Thickness' (t) and 'Length through Hub' (T₁),(T₂).
- (3) For Slip-on, Threaded and Lap Joint Flanges, the hubs can be shaped either vertical from base to top or tapered within the limits of 7 degrees.



THREADED



LAP JOINT



BLIND

Unit : mm

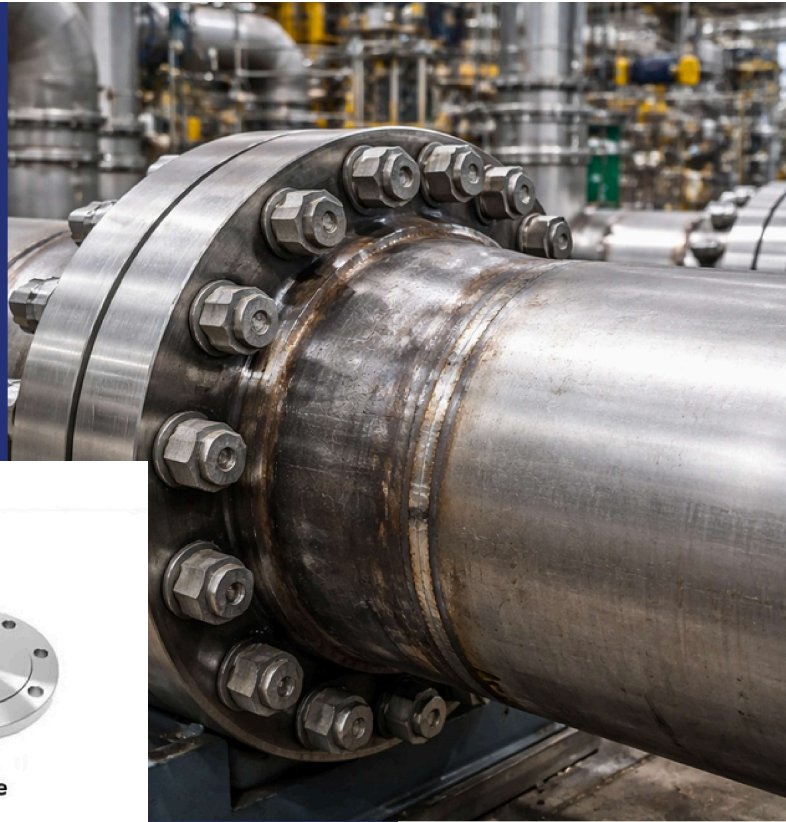
Nominal Pipe Size	DRILLING			BOLTING				APPROXIMATE WEIGHT							
				Stud Bolt Length				Welding Neck		Slip-on and Threaded		Lap Joint		Blind	
	Bolt Circle Diam	Number of Holes	Diam of Holes	Diam of Bolts (inch)	0.25" Raised Face	Male-Female Tongue-Groove	Ring Joint	Kg	lb	Kg	lb	Kg	lb	Kg	lb
1/2	88.9	4	22.4	3/4	120.7	114.3	120.7	3.18	7.00	3.18	7.00	3.00	6.60	3.18	7.00
3/4	95.3	4	22.4	3/4	127.0	120.7	127.0	4.08	9.00	4.08	9.00	3.63	8.00	4.08	10.00
1	108.0	4	25.4	7/8	139.7	133.4	139.7	5.45	12.00	5.44	12.00	4.99	11.00	5.44	12.00
1 1/4	130.0	4	28.4	1	152.4	146.1	152.4	9.07	20.00	8.16	18.00	7.26	16.00	8.16	18.00
1 1/2	146.1	4	31.8	1 1/8	171.5	165.1	171.5	11.35	25.00	11.00	24.30	9.99	22.00	10.44	23.00
2	171.5	8	28.4	1	177.8	171.5	177.8	19.07	42.00	17.25	38.00	16.80	37.00	17.71	39.00
2 1/2	196.9	8	31.8	1 1/8	196.9	190.5	203.2	23.61	52.00	24.97	55.00	24.06	53.00	25.42	56.00
3	228.6	8	35.1	1 1/4	222.3	215.9	228.6	42.68	94.00	37.68	83.00	36.32	80.00	39.04	86.00
4	273.1	8	41.1	1 1/2	254.0	247.7	260.4	64.00	141.00	58.00	127.90	54.48	120.00	60.38	133.00
5	323.9	8	47.8	1 3/4	298.5	292.1	311.2	110.68	244.00	95.25	210.00	92.53	204.00	101.15	223.00
6	368.2	8	53.8	2	342.9	336.6	355.6	176.46	378.00	146.51	323.00	143.01	315.30	156.63	345.30
8	438.2	12	53.8	2	381.0	374.7	393.7	261.27	576.00	219.99	485.00	213.38	470.40	240.62	530.50
10	539.8	12	66.5	2 1/2	489.0	482.6	508.0	484.43	1068.00	419.57	925.00	408.60	900.80	465.36	1026.00
12	619.3	12	73.2	2 3/4	539.8	533.4	558.8	692.35	1526.30	590.20	1301.00	572.95	1263.00	664.06	1464.00

(4) Blind Flanges may be made with the same hub as that used for Slip-on Flanges or without hub.

(5) The gasket surface and backside (bearing surface for bolting) are made parallel within 1 degree.

To accomplish parallelism, spot facing is carried out according to MSS SP-9, without reducing thickness (t).

(6) Class 2500 Slip-on Flanges are not covered by ANSI B16.5, slip-on flanges are at the manufacturer's option.



Types of Flanges



Socket Weld
Flange



Threaded
Flange



Weld Neck
Flange



Blind
Flange



Slip On
Flange



Elbow Type
Flange



Orifice
Flange



Lap Joint Flange



Cast Iron
Flange



Square
Flange



Expanding
Flange

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