



JIALIN FLANGE



JIALIN FLANGE



SPECIALIZE IN MANUFACTURING

LARGE DIAMETER FLANGE
HIGH AND MEDIUM PRESSURE FLANGE
NONSTANDARD FLANGE

ZHEJIANG JIALIN PIPE VALVE CO.,LTD
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ZHEJIANG JIALIN PIPE VALVE CO.,LTD



ZHEJIANG JIA PIPE VALVE CO.,LTD

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ANSI/ASME B16.5

Class 150

Class 300

Class 600

Class 900

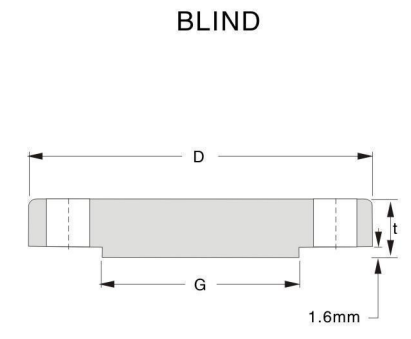
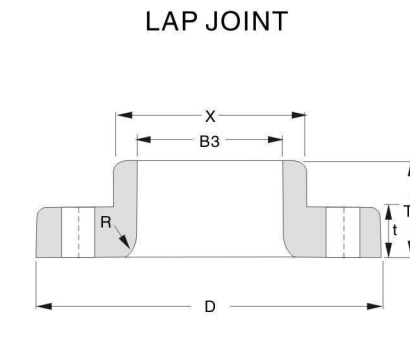
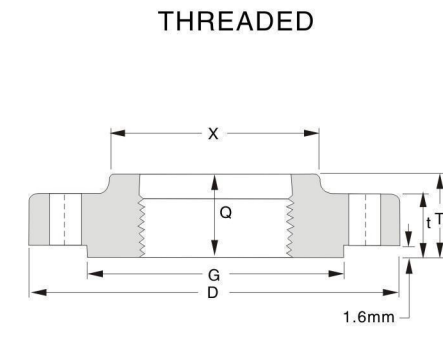
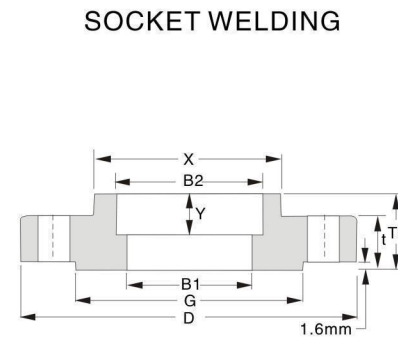
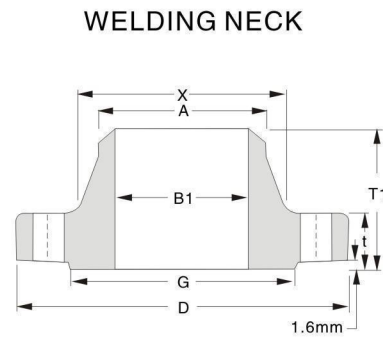
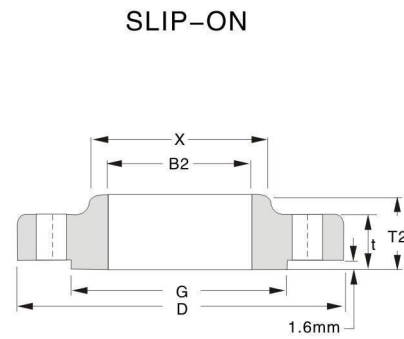
Tolerance

Welding Ends



■ Class 150 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		
					Welding Neck Socket Welding B1	Slip-on Socket Welding B2	Lap Joint B3	Welding Neck T1	Slip-on Threaded Socket Welding T2	Lap Joint T3
1/2	89	30.2	35.1	11.2	15.7	22.4	22.9	47.8	15.7	15.7
3/4	99	38.1	42.9	12.7	20.8	27.7	28.2	52.3	15.7	15.7
1	108	49.3	50.8	14.2	26.7	34.5	35.1	55.6	17.5	17.5
1 1/4	117	58.7	63.5	15.7	35.1	43.2	43.7	57.2	20.6	20.6
1 1/2	127	65.0	73.2	17.5	40.9	49.5	50.0	62.0	22.4	22.4
2	152	77.7	91.9	19.1	52.6	62.0	62.5	63.5	25.4	25.4
2 1/2	178	90.4	104.6	22.4	62.7	74.7	75.4	69.9	28.4	28.4
3	191	108.0	127.0	23.9	78.0	90.7	91.4	69.9	30.2	30.2
3 1/2	216	122.2	139.7	23.9	90.2	103.4	104.1	71.4	31.8	31.8
4	229	134.9	157.2	23.9	102.4	116.1	116.8	76.2	33.3	33.3
5	254	163.6	185.7	23.9	128.3	143.8	144.5	88.9	36.6	36.6
6	279	192.0	213	25.4	154.2	170.7	171.5	88.9	39.6	39.6
8	343	246.1	269.7	28.4	202.7	221.5	222.3	101.6	44.5	44.5
10	406	304.8	323.9	30.2	254.5	276.4	277.4	101.6	49.3	49.3
12	483	365.3	381.0	31.8	304.8	327.2	328.2	114.3	55.6	55.6
14	533	400.1	412.8	35.1	336.6	359.2	360.2	127.0	57.2	79.2
16	597	457.2	469.9	36.6	387.4	410.5	411.2	127.0	63.5	87.2
18	635	505.0	533.4	39.6	438.2	461.8	462.3	139.7	68.3	96.8
20	699	558.8	584.2	42.9	489.0	513.1	514.4	144.5	73.2	103.1
24	813	663.4	692.2	47.8	590.6	616.0	616.0	152.4	82.6	111.3

- Notes:
 (1) For the 'Bore' (B1) other than standard wall thickness, refer to page 16.
 (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 or tapered within the limits of 7 degrees.

Unit: mm

Diam. of Hub at Bevel A	Radius of Fillet R	Thread Length Q	Depth of socket Y	DRILLING			BOLTING			Nominal Pipe Size	
				Bolt Circle Diam	Num-ber of Holes	Diam of Holes	Diam of Bolts (inch)	Machine Bolt Length Raised Face	Stud Bolt Length Raised Face Ring Joint		
21.3	3.0	15.7	9.7	60.5	4	15.7	1/2	50.8	57.2	-	1/2
26.7	3.0	15.7	11.2	69.9	4	15.7	1/2	50.8	63.5	-	3/4
33.5	3.0	17.5	12.7	79.2	4	15.7	1/2	57.2	63.5	76.2	1
42.2	4.8	20.6	14.2	88.9	4	15.7	1/2	57.2	69.9	82.6	1 1/4
48.3	6.4	22.4	15.7	98.6	4	15.7	1/2	63.5	69.9	82.6	1 1/2
60.5	7.9	25.4	17.5	120.7	4	19.1	5/8	69.9	82.6	95.3	2
73.2	7.9	28.4	19.1	139.7	4	19.1	5/8	76.2	88.9	101.6	2 1/2
88.9	9.7	30.2	20.6	152.4	4	19.1	5/8	76.2	88.9	101.6	3
101.6	9.7	31.8	22.4	177.8	8	19.1	5/8	76.2	88.9	101.6	3 1/2
114.3	11.2	33.3	23.9	190.5	8	19.1	5/8	76.2	88.9	101.6	4
141.2	11.2	36.6	23.9	213	8	22.4	3/4	82.6	95.3	108.0	5
168.4	12.7	39.6	26.9	241.3	8	22.4	3/4	82.6	101.6	114.3	6
219.2	12.7	44.5	31.8	298.5	8	22.1	3/4	88.9	108.0	120.7	8
273.1	12.7	49.3	33.3	362.0	12	25.4	7/8	101.6	114.3	127.0	10
323.9	12.7	55.6	39.6	431.8	12	25.4	7/8	101.6	120.7	133.4	12
355.6	12.7	57.2	41.4	476.3	12	28.4	1	114.3	133.4	146.1	14
406.4	12.7	63.5	44.5	539.8	16	28.4	1	114.3	133.4	146.1	16
457.2	12.7	68.3	49.3	577.9	16	31.8	1 1/8	127.0	146.1	158.8	18
508.0	12.7	73.2	54.1	635.0	20	31.3	1 1/8	139.7	158.8	171.5	20
609.6	12.7	82.6	63.5	749.3	20	35.1	1 1/4	152.4	171.5	184.2	24

- (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 in size up to 3 inch, over 3 inch, over 3 inch is at the manufacturer's option.



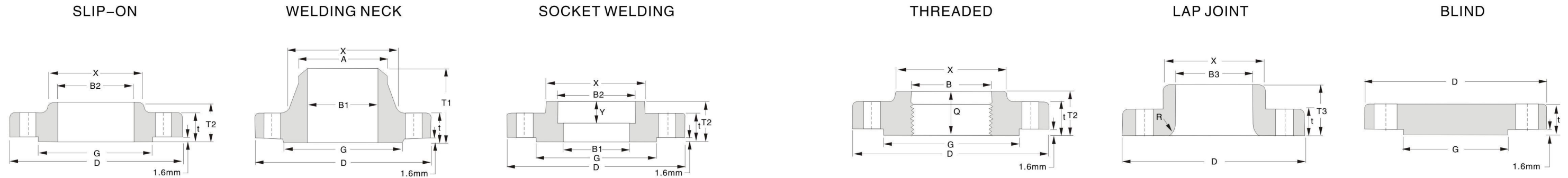
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■ Class 300 flanges

■ Class 300 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		
					Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Counter Bore Min Threaded	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint
	D	X	G	t	B1	B2	B3	B	T1	T2	T3
1/2	95	38.1	35.1	14.2	15.7	22.4	22.9	23.6	52.3	22.4	22.4
3/4	117	47.8	42.9	15.7	20.8	27.7	28.2	29.0	57.2	25.4	25.4
1	124	53.8	50.8	17.5	26.7	34.5	35.1	35.8	62.0	26.9	26.9
1 1/4	133	63.5	63.5	19.1	35.1	43.2	43.7	44.5	65.0	26.9	26.9
1 1/2	155	69.9	73.2	20.6	40.9	49.5	50.0	50.5	68.3	30.2	30.2
2	165	84.1	91.9	22.4	52.6	62.0	62.5	63.5	69.9	33.3	33.3
2 1/2	191	100.1	104.6	25.4	62.7	74.7	75.4	76.2	76.2	38.1	38.1
3	210	117.3	127.0	28.4	78.0	90.7	91.4	92.2	79.2	42.9	42.9
3 1/2	229	133.4	139.7	30.2	90.2	103.4	104.1	104.9	81.0	44.5	44.5
4	254	146.1	157.2	31.8	102.4	116.1	116.8	117.6	85.9	47.8	47.8
5	279	177.8	185.7	35.1	128.3	143.8	144.5	144.5	98.6	50.8	50.8
6	318	206.2	215.9	36.6	154.2	170.7	171.5	171.5	98.6	52.3	52.3
8	381	260	269.7	41.1	202.7	221.5	222.3	222.3	111.3	62.0	62.0
10	445	320.5	323.9	47.8	254.5	276.4	277.4	276.4	117.3	66.5	95.3
12	521	374.7	381.0	50.8	304.8	327.2	328.2	328.7	130.0	73.2	101.6
14	584	425.5	412.8	53.8	336.6	359.2	360.2	360.4	142.7	76.2	111.3
16	48	482.6	469.9	57.2	387.4	410.5	411.2	411.2	146.1	82.6	120.7
18	711	533.4	533.4	60.5	438.2	461.8	462.3	462.0	158.8	88.9	130.0
20	775	587.2	584.2	63.5	489.0	513.1	514.4	512.8	162.1	95.3	139.7
24	914	701.5	692.2	69.9	590.6	616.0	616.0	614.4	168.1	106.4	152.4

- Notes:
 (1) For the 'Bore' (B1) other than standard wall thickness, refer to page 16.
 (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.

Unit: mm

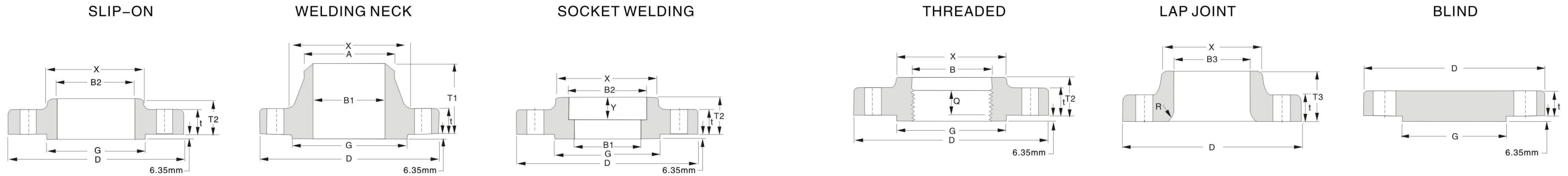
Diam. of Hub at Bevel	Radius of Fillet	Thread Length	Depth of socket	DRILLING			BOLTING			Nominal Pipe Size	
				Bolt Circle Diam	Num-ber of Holes	Diam of Holes	Diam of Bolts (inch)	Machine Bolt Length	Stud Bolt Length		
A	R	Q	Y				Raised Face	Raised Face	Ring Joint		
21.3	3.0	15.7	9.7	66.5	4	15.7	1/2	57.2	63.5	76.2	1/2
26.7	3.0	15.7	11.2	82.6	4	19.1	5/8	63.5	76.2	88.9	3/4
33.5	3.0	17.5	12.7	88.9	4	19.1	5/8	63.5	76.2	88.9	1
42.2	4.8	20.6	14.2	98.6	4	19.1	5/8	69.9	82.6	95.3	1 1/4
48.3	6.4	22.4	15.7	114.3	4	22.4	3/4	76.2	88.9	101.6	1 1/2
60.5	7.9	28.4	17.5	127.0	8	19.1	5/8	76.2	88.9	101.6	2
73.2	7.9	31.8	19.1	149.4	8	22.4	3/4	82.6	101.6	114.3	2 1/2
88.9	9.7	31.8	20.6	168.1	8	22.4	3/4	88.9	108.0	120.7	3
101.6	9.7	36.6	22.4	184.2	8	22.4	3/4	95.3	108.0	127.0	3 1/2
114.3	11.2	36.6	23.9	200.2	8	22.4	3/4	95.3	114.3	127.0	4
141.2	11.2	42.9	23.9	235.0	8	22.4	3/4	108.0	120.7	133.4	5
168.4	12.7	46.0	26.9	269.7	12	22.4	3/4	108.0	120.7	139.7	6
219.2	12.7	50.8	31.8	330.2	12	25.4	7/8	120.7	139.7	152.4	8
273.1	12.7	55.6	33.3	387.4	16	28.4	1	139.7	158.8	171.5	10
323.9	12.7	60.5	39.6	450.9	16	31.8	1 1/8	146.1	171.5	184.2	12
355.6	12.7	63.5	41.4	514.4	20	31.8	1 1/8	158.8	177.8	190.5	14
406.4	12.7	68.3	44.5	571.5	20	35.1	1 1/4	165.1	190.5	203.2	16
457.2	12.7	69.9	49.3	628.7	24	35.1	1 1/4	171.5	196.9	209.6	18
508.0	12.7	73.2	54.1	685.8	24	35.1	1 1/4	184.2	203.2	222.3	20
609.6	12.7	82.6	63.5	812.8	24	41.1	1 1/2	203.2	228.6	254.0	24

- (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 in size up to 3 inch, over 3 inch, over 3 inch is at the manufacturer's option.



■ Class 600 flanges

■ Class 600 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		
					Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Counter Bore Min Threaded	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint
	D	X	G	t	B1	B2	B3	B	T1	T2	T3
1/2	95	38.1	35.1	14.2	See Note(1) To be specified by purchaser	22.4	22.9	23.6	52.3	22.4	22.4
3/4	117	47.8	42.9	15.7		27.7	28.2	29.0	57.2	25.4	25.4
1	124	53.8	50.8	17.5		34.5	35.1	35.8	62.0	26.9	26.9
1 1/4	133	63.5	63.5	20.6		43.2	43.7	44.5	66.5	28.4	28.4
1 1/2	155	69.9	73.2	22.4		49.5	50.0	50.5	69.9	31.8	31.8
2	165	84.1	91.9	25.4		62.0	62.5	63.5	73.2	36.6	36.6
2 1/2	191	100.1	104.6	28.4		74.7	75.4	76.2	79.2	41.1	41.1
3	210	117.3	127.0	31.8		90.7	91.4	92.2	82.6	46.0	46.0
3 1/2	229	133.4	139.7	35.1		103.4	104.1	104.9	85.9	49.3	49.3
4	273	152.4	157.2	38.1		116.2	116.8	117.6	101.6	53.8	53.8
5	330	189.0	185.7	44.5		143.8	144.5	144.5	114.3	60.5	60.5
6	356	222.3	215.9	47.8		170.7	171.5	171.5	117.3	66.5	66.5
8	419	273.1	269.7	55.6		221.5	222.3	222.3	133.4	76.2	76.2
10	508	342.9	323.9	63.5		276.4	277.4	276.4	152.4	85.9	111.3
12	559	400.1	381.0	66.5		327.2	328.2	328.7	155.4	91.9	117.3
14	603	431.8	412.8	69.9		359.2	360.2	360.4	165.1	93.7	127.0
16	686	495.3	469.9	76.2	410.5	411.2	411.2	177.8	106.4	139.7	
18	743	546.1	533.4	82.6	461.8	462.3	462.0	184.2	117.3	152.4	
20	813	609.6	584.2	88.9	513.1	514.4	512.8	190.5	127.0	165.1	
24	940	717.6	692.2	101.6	616.0	616.0	614.4	203.2	139.7	184.2	

- Notes:
 (1) For the inside diameter of pipes (corresponding to 'Bore' (B1) of welding Neck Flanges), refer to page 16.
 (2) Class 600 flanges except lap joint will be furnished with 0.25" 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 shaped either vertical from base to top or tapered within the limits of 7 degrees.

Unit: mm

Diam. of Hub at Bevel	Radius of Fillet	Thread Length	Depth of socket	DRILLING			BOLTING			Nominal Pipe Size	
				Bolt Circle Diam	Number of Holes	Diam of Holes	Diam of Bolts (inch)	Stud Bolt Length			
A	R	Q	Y					0.25" Raised face	Male-Female Tongue-Groove	Ring Joint	
21.3	3.0	15.7	9.7	66.5	4	15.7	1/2	76.2	69.9	76.2	1/2
26.7	3.0	15.7	11.2	82.6	4	19.1	5/8	88.9	82.6	88.9	3/4
33.5	3.0	17.5	12.7	88.9	4	19.1	5/8	88.9	82.6	88.9	1
42.2	4.8	20.6	14.2	98.6	4	19.1	5/8	95.3	88.9	95.3	1 1/4
48.3	6.4	22.4	15.7	114.3	4	22.4	3/4	108.0	101.6	108.0	1 1/2
60.5	7.9	28.4	17.5	127.0	8	19.1	5/8	108.0	101.6	108.0	2
73.2	7.9	31.8	19.1	149.4	8	22.4	3/4	120.7	114.3	120.7	2 1/2
88.9	9.7	35.1	20.6	168.1	8	22.4	3/4	127.0	120.7	127.0	3
101.6	9.7	39.6	22.4	184.2	8	25.4	7/8	139.7	133.4	139.7	3 1/2
114.3	11.2	41.1	23.9	215.9	8	25.4	7/8	146.1	139.7	146.1	4
141.2	11.2	47.8	23.9	266.7	8	28.4	1	165.1	158.8	165.1	5
168.4	12.7	50.8	26.9	292.1	12	28.4	1	171.5	165.1	171.5	6
219.2	12.7	57.2	31.8	349.3	12	31.8	1 1/8	190.5	184.2	196.9	8
273.1	12.7	65.0	33.3	431.8	16	35.1	1 1/4	215.9	209.6	215.9	10
323.9	12.7	69.9	39.6	489.0	20	35.1	1 1/4	222.3	215.9	222.3	12
355.6	12.7	73.2	41.4	527.1	20	38.1	1 3/8	235.0	228.6	235.0	14
406.4	12.7	77.7	44.5	603.3	20	41.1	1 1/2	254.0	247.7	254.0	16
457.2	12.7	79.2	49.3	654.1	20	44.5	1 5/8	273.1	266.7	273.1	18
508.0	12.7	82.6	54.1	723.9	24	44.5	1 5/8	285.8	279.4	292.1	20
609.6	12.7	91.9	63.5	838.2	24	50.8	1 7/8	330.2	323.9	336.6	24

- (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 size 1/2" to 31 1/2" are the same as for class 1500 flanges.
 (7) Depth of socket (Y) is covered by ANSI B16.5 only in size up to 3 inch, over 3 inch is at the manufacture's option.



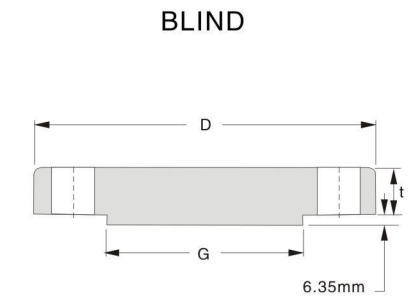
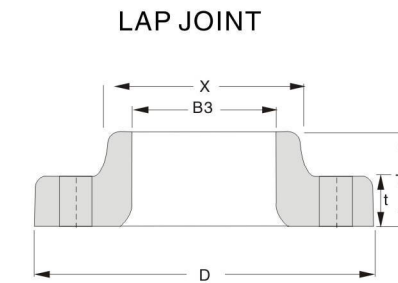
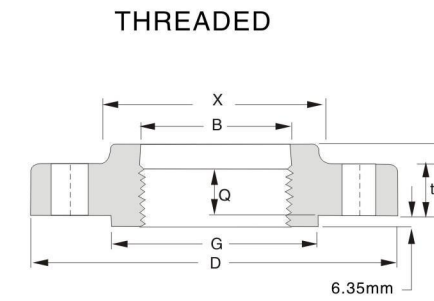
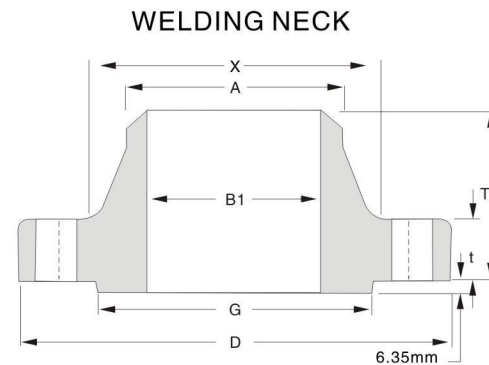
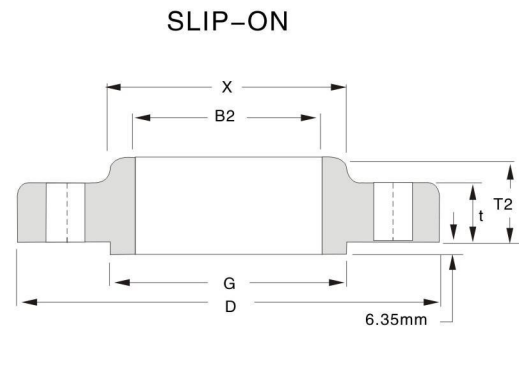
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■ Class 900 flanges

■ 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		
					Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Counter Bore Min Threaded	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint
	D	X	G	t	B1	B2	B3	B	T1	T2	T3
1/2	121	38.1	35.1	22.4		22.4	22.9	23.6	60.5	31.8	31.8
3/4	130	44.5	42.9	25.4		27.7	28.2	29.0	69.9	35.1	35.1
1	149	52.3	50.8	28.4		34.5	35.1	35.8	73.2	41.1	41.1
1 1/4	159	63.5	63.5	28.4		43.2	43.07	44.5	73.2	41.1	41.1
1 1/2	178	69.9	73.2	31.8		49.5	50.0	50.5	82.6	44.5	44.5
2	216	104.6	91.9	38.1		62.0	62.5	63.5	101.6	57.2	57.2
2 1/2	244	124.0	104.6	41.1		74.7	75.4	76.2	104.6	63.5	63.5
3	241	127.0	127.0	38.1		90.7	91.4	92.2	101.6	53.8	53.8
4	292	158.8	157.2	44.5		116.1	116.8	117.6	114.3	69.9	69.9
5	349	190.5	185.7	50.8		143.8	144.5	144.5	127.0	79.2	79.2
6	381	235.0	215.9	55.6		170.7	171.5	171.5	139.7	85.9	85.9
8	470	298.5	269.7	63.5		221.5	222.3	222.3	162.1	101.6	114.3
10	546	368.3	323.9	69.9		276.4	277.4	276.4	184.2	108.0	127.0
12	610	419.1	381.0	79.2		327.2	328.2	328.7	200.2	117.3	142.7
14	641	450.9	412.8	85.9		359.2	360.2	360.2	212.9	130.0	155.4
16	705	508.0	469.9	88.9		410.5	411.2	411.02	215.9	133.4	165.1
18	787	565.2	533.4	101.6		461.8	462.3	462.0	228.6	152.4	190.5
20	857	622.3	584.2	108.0		513.1	514.4	512.8	247.7	158.8	209.6
24	1041	749.3	692.2	139.7		616.0	616.0	614.4	292.1	203.2	266.7

See Note(1) To be specified by purchaser

- Notes:
 (1) For the inside diameter of pipes (corresponding to 'Bore' (B1) of welding Neck Flanges), refer to page 16.
 (2) Class 900 flanges except lap joint will be furnished with 0.25" (6.25mm) 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

Diam. of Hub at Bevel	Radius of Fillet	Thread Length	DRILLING			BOLTING			Nominal Pipe Size	
			Bolt Circle Diam	Number of Holes	Diam of Holes	Diam of Bolts (inch)	Stud Bolt Length			
A	R	Q				0.25" Raised face	Male-Female Tongue-Groove	Ring Joint		
21.3	3.0	22.4	82.6	4	22.4	3/4	108.0	101.6	108.0	1/2
26.7	3.0	25.4	88.9	4	22.4	3/4	114.3	108.0	114.3	3/4
33.5	3.0	28.4	101.6	4	25.4	7/8	127.0	120.7	127.0	1
42.2	4.8	30.2	111.3	4	25.4	7/8	127.0	120.7	127.0	1 1/4
48.3	6.4	31.8	124.0	4	28.4	1	139.7	133.4	139.7	1 1/2
60.5	7.9	38.1	165.1	8	25.4	7/8	146.1	139.7	146.1	2
73.2	7.9	47.8	190.5	8	28.4	1	158.8	152.4	158.8	2 1/2
88.9	9.7	41.1	190.5	8	25.4	7/8	146.1	139.7	146.1	3
114.3	11.2	47.8	235.0	8	31.8	1 1/8	171.5	165.1	171.5	4
141.2	11.2	53.8	279.4	8	35.1	1 1/4	190.5	184.2	190.5	5
168.4	12.7	57.2	317.5	12	31.8	1 1/4	190.5	184.2	196.9	6
219.2	12.7	63.5	393.7	12	38.1	1 3/8	222.3	215.9	222.3	8
273.1	12.7	71.4	469.9	16	38.1	1 3/8	235.0	228.6	235.0	10
323.9	12.7	76.2	533.4	20	38.1	1 3/8	254.0	247.7	254.0	12
355.6	12.7	82.6	558.8	20	41.1	1 1/2	273.1	266.7	292.1	14
406.4	12.7	85.9	616.0	20	44.5	1 5/8	285.8	279.4	298.5	16
457.2	12.7	88.9	685.8	20	50.8	1 7/8	323.9	317.5	333.6	18
508.0	12.7	91.9	749.3	20	53.8	2	349.3	342.9	362.0	20
609.6	12.7	101.6	901.7	20	66.5	2 1/2	438.2	431.8	457.2	24

- (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 size 1/2" to 2 1/2" are the same as for class 1500 flanges.



■ **Tolerance** ANSI/ASME B16.5 FORGED FLANGES

■ **Welding Ends** ANSI/ASME B16.5 FORGED FLANGES

**THRED, SOCKET-WELDING
 SLIP-ON, LAP JOINT AND BLIND.**

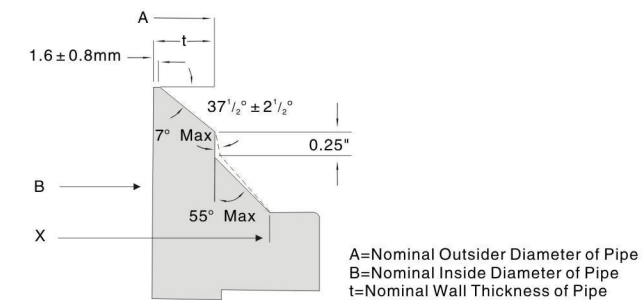
Outside Diameter	When O.D.is 24" or less	± 1/16(1.6mm) *
	When O.D.is Over 24"	± 1/8(3.2mm) *
Inside Diameter	Threaded	Within limits on boring gauge
	Socket-Welding, Slip-on and Lap joint	10" & Smaller +1/32"(0.8mm), -0" 12" & Larger +1/16"(1.6mm), -0
Outside Diameter of Hub	5" and Smaller	+3/32"(2.4mm) * -1/32"(0.8mm)
	6" and Larger	+5/32"(4.0mm) -1/32"(0.8mm)
Diameter of Contact Face	1/16" Raised Face	± 1/32(0.8mm)
	1/4" Raised Face Tongue & Groove Male, Female	± 1/64(0.4mm) *
Diameter of Counterbore	Same as for Inside Diameter	
	Bolt Circle	± 1/16(1.6mm)
Drilling	Bolt Hole Spacing	± 1/32(0.8mm)
	Eccentricity of Bolt Circle with Outside Diameter of Hub Respect to Facing	2 1/2" & Small 1/32" (0.8mm) Max. 3" & Larger 1/16" (1.6mm) Max
	Eccentricity of Bolt Circle with Respect to Bore	1/32" (0.8mm) Max.*
	Eccentricity of Facing with Respect to Bore	1/32" (0.8mm) Max.*
Thickness	18" and Smaller	+1/8" (3.2mm). -0"
	20" and Larger	+3/16" (4.8mm). -0"
Length Thru Hub	10" and Smaller	± 1/16" (1.6mm)
	12" and Larger	± 1/8" (3.2mm)

WELDING NECK

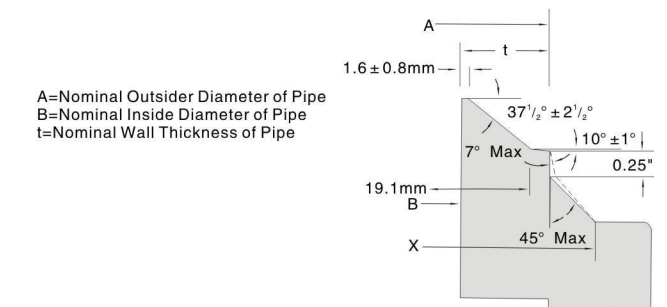
Outside Diameter	When O.D.is 24" or less	± 1/16(1.6mm)*
	When O.D.is Over 24"	± 1/8(3.2mm)*
Inside Diameter	10" and Smaller	± 1/32(0.8mm)
	12" to 18"	± 1/16(1.6mm)
	20" and Larger	+1/8"(3.2mm) -1/16"(1.6mm)
Diameter of Contact Face	1/16" Raised Face	± 1/32(0.8mm)
	1/4" Raised Face Tongue & Groove Male, Female	± 1/64(0.4mm)
Diameter of Hub at Base	When Hub Base is 24" or Smaller	± 1/16(1.6mm)*
	When Hub Base is Over 24"	± 1/8(3.2mm)*
Diameter of Hub at Point of Welding	5" and Smaller	+3/32" (2.4mm)* -1/32" (0.8mm)
	6" and Larger	+5/32" (4.0mm) -1/32" (0.8mm)
	Bolt Circle	± 1/16(1.6mm)
	Bolt Hole Spacing	± 1/32(0.8mm)
Drilling	Eccentricity of Bolt Circle with Respect to Facing	2 1/2" & Small 1/32" (0.8mm) Max. 3" & Larger 1/16" (1.6mm) Max.
	Eccentricity of Bolt Circle with Respect to Bore	1/32" (0.8mm) Max. *
	Eccentricity of Facing with Respect to Bore	1/32" (0.8mm) Max. *
Thickness	18" and Smaller	+1/8" (3.2mm). -0*
	20" and Larger	+3/16" (4.8mm). -0*
Length Thru Hub	10" and Smaller	± 1/16" (1.6mm)
	12" and Larger	± 1/8" (3.2mm)

NOTE:*This tolerance is not covered in ANSI/ASME B16.5, but maker's option.

**BEVEL FOR WALL THICKNESS (t)
 0.91 IN. TO 0.88 IN, INCLUSIVE**



**BEVEL FOR WALL THICKNESS (t)
 GREATER THAN 0.88 IN**

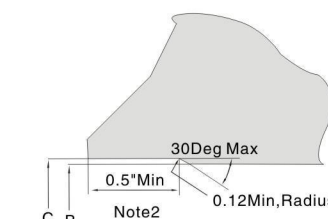


NOTE:

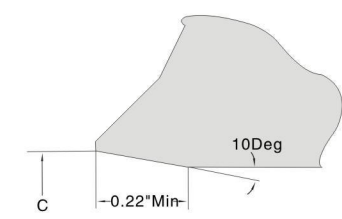
When the thickness of the hub at the bevel is greater than that of the pipe to which the flange is joined and the additional thickness is provided on the outside diameter, a taper weld having a slope not exceeding 1 to 3 may be employed or, alternatively, the greater outside diameter may be tapered, at the same maximum slope or less, from a point on the welding bevel equal to the OD at the mating pipe. Similarly, when the greater thickness is provided on the inside of the flange, it shall be taper-bored from the welding end at a slope not exceeding 1 to 3.

When flanges covered by this standard are intended for services with light wall, higher strength pipe, the thickness of the hub at the bevel may be greater than that of the pipe to which the flange is joined. Under these conditions a single taper hub may be provided and the outside diameter of the hub at the base (Dimension X) may also be modified.

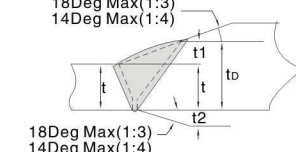
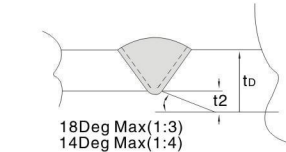
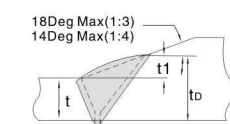
The additional thickness may be provided on either inside or outside or partially on each side, but the total additional thickness shall not exceed one-half times the nominal wall thickness of intended mating pipe.



INSIDE CONTOUR FOR USE WITH RECTANGULAR BACKING RING



INSIDE CONTOUR FOR USE WITH TAPER BACKING RING



BEVEL FOR OUTSIDE THICKNESS BEVEL FOR INSIDE THICKNESS BEVEL FOR COMBINED THICKNESS

NOTES:

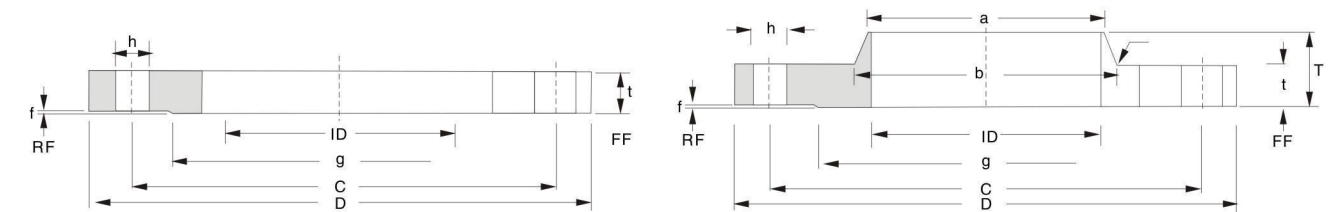
- (1) When the materials joined have equal minimum specified yield strength, there shall be no restriction on the minimum slope.
- (2) Neither t1, t2, nor their sum (t1+t2) shall exceed 0.5t.
- (3) When the minimum specified yield strengths of the sections to be joined are unequal, the value of tD shall at least equal times the ratio of minimum specified yield strength of the pipe to minimum yield strength of the flange.



■ 5K JIS B2220 KS B1503



JIS B2220/KS B1503
 5K
 10K
 16K
 20K
 TOLERANCE
 MATERIAL



Unit: mm

Nominal Size of Flange	Outside Dia. of Pipe	Inside Dia. of Flange ID	Outside Dia. of Flange D	Sectional Dimensions of Flange						Dia. of Bolt				Approx Weight (kg/w)
				t	T	Hub			Raised Face f	Dia. of Raised Face g	Dia. of Bolt Circle c	Number of Bolt Holes	Hole Dia. h	
						a	b	r						
(10)	17.3	17.8	75	9	-	-	-	-	1	39	55	4	12	0.27
15	21.7	22.2	80	9	-	-	-	-	1	44	60	4	12	0.30
(20)	27.2	27.7	85	10	-	-	-	-	1	49	65	4	12	0.37
25	34.0	34.5	95	10	-	-	-	-	1	59	75	4	12	0.45
(32)	42.7	43.2	115	12	-	-	-	-	2	70	90	4	15	0.78
40	48.6	49.1	120	12	-	-	-	-	2	75	95	4	15	0.83
50	60.5	61.1	130	14	-	-	-	-	2	85	105	4	15	1.07
65	76.3	77.1	155	14	-	-	-	-	2	110	130	4	15	1.49
80	89.1	90.0	180	14	-	-	-	-	2	121	145	4	19	1.99
(90)	101.6	102.6	190	14	-	-	-	-	2	131	155	4	19	2.09
100	114.3	115.4	200	16	-	-	-	-	2	141	165	8	19	2.39
125	139.8	141.2	235	16	-	-	-	-	2	176	200	8	19	3.23
150	165.2	166.6	265	18	-	-	-	-	2	206	230	8	19	4.41
(175)	190.7	192.1	300	18	-	-	-	-	2	232	260	8	23	5.51
200	216.3	218.0	320	20	-	-	-	-	2	252	280	8	23	6.33
(225)	241.8	243.7	345	20	-	-	-	-	2	277	305	12	23	6.64
250	267.4	269.5	385	22	-	-	-	-	2	317	345	12	23	9.45
300	318.5	321.0	430	22	-	-	-	-	3	360	390	12	23	10.30
350	355.6	358.1	480	24	-	-	-	-	3	403	435	12	25	14.00
400	406.4	409.0	540	24	-	-	-	-	3	463	495	16	25	16.90
450	457.2	460.0	605	24	40	495	500	5	3	523	555	16	25	24.80
500	508.0	511.0	655	24	40	546	552	5	3	573	605	20	25	26.90
550	558.8	562.0	720	26	42	597	603	5	3	630	665	20	27	34.10
600	609.9	613.0	770	26	44	648	654	5	3	680	715	20	27	37.50
650	660.4	664.0	825	26	48	702	708	5	3	735	770	24	27	42.80
700	711.2	715.0	875	26	48	751	758	5	3	785	820	24	27	45.40
750	762.0	766.0	945	28	52	802	810	5	3	840	880	24	33	57.40
800	812.8	817.0	995	28	52	854	862	5	3	890	930	24	33	60.08
850	863.6	868.0	1045	28	54	904	912	5	3	940	980	24	33	63.50
900	914.4	919.0	1095	30	56	956	964	5	3	990	1030	24	33	75.30
1000	1016.0	1021.0	1195	32	60	1058	1066	5	3	1090	1130	28	33	88.50



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■ 10K JIS B2220 KS B1503

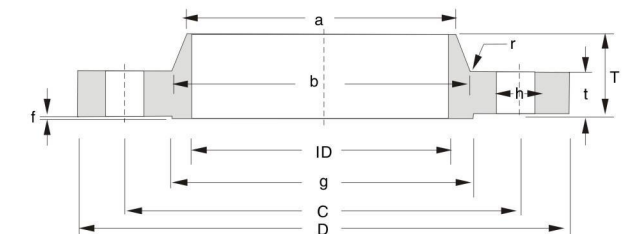
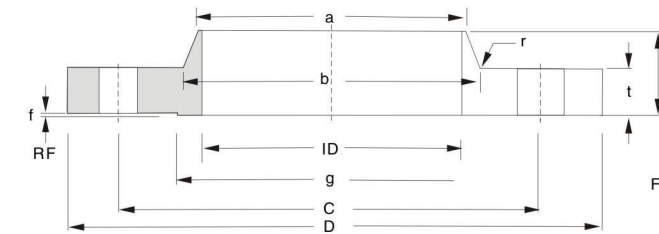
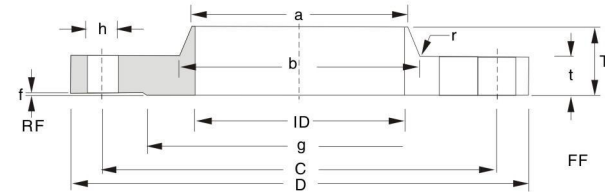
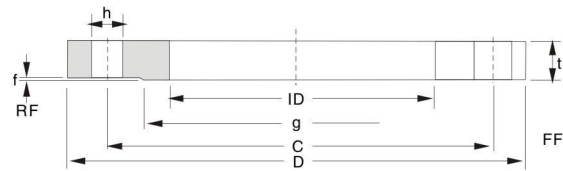
■ 16K JIS B2220 KS B1503

NOMINAL SIZE 10-225mm

NOMINAL SIZE 250-1000mm

NOMINAL SIZE 10-600mm

NOMINAL SIZE 650-1200mm



Unit: mm

Nominal Size of Flange	Outside Dia. of Pipe	Inside Dia. of Flange	Outside Dia. of Flange	Sectional Dimensions of Flange							Dia. of Bolt			Approx Weight (kg/w)
				t	T	Hub			Raised Face	Dia. of Raised Face	Bolt Circle dia. c	Number of Bolt Holes	Hole Dia. h	
						a	b	r						
10	17.3	17.8	90	12	-	-	-	-	1	46	65	4	15	0.52
15	21.7	22.2	95	12	-	-	-	-	1	51	70	4	15	0.57
20	27.2	27.7	100	14	-	-	-	-	1	56	75	4	15	0.73
25	34.0	34.5	125	14	-	-	-	-	1	67	90	4	19	1.13
32	42.7	43.2	135	16	-	-	-	-	2	76	100	4	19	1.48
40	48.6	49.1	140	16	-	-	-	-	2	81	105	4	19	1.56
50	60.5	61.1	155	16	-	-	-	-	2	96	120	4	19	1.88
65	76.3	77.1	175	18	-	-	-	-	2	116	140	4	19	2.60
80	89.1	90.0	185	18	-	-	-	-	2	126	150	8	19	2.61
(90)	101.6	102.6	195	18	-	-	-	-	2	136	160	8	19	2.76
100	114.3	115.4	210	18	-	-	-	-	2	151	175	8	19	3.14
125	139.8	141.2	250	20	-	-	-	-	2	182	210	8	23	4.77
150	165.2	166.6	280	22	-	-	-	-	2	212	240	8	23	6.34
(175)	190.7	192.1	305	22	-	-	-	-	2	237	265	12	23	6.82
200	216.3	218.0	330	22	-	-	-	-	2	262	290	12	23	7.53
(225)	241.8	243.7	350	22	-	-	-	-	2	282	310	12	23	7.74
250	267.4	269.5	400	24	36	288	292	6	2	324	355	12	25	12.70
300	318.5	321.0	445	24	38	340	346	6	3	368	400	16	25	13.80
350	355.6	358.1	490	26	42	380	386	6	3	413	445	16	25	18.20
400	406.4	409.0	560	28	44	436	442	6	3	475	510	16	27	25.20
450	457.2	460.0	620	30	48	496	502	6	3	530	565	20	27	33.00
500	508.0	511.0	675	30	48	548	554	6	3	585	620	20	27	37.60
550	558.8	562.0	745	32	52	604	610	6	3	640	680	20	33	49.70
600	609.6	613.0	795	32	52	656	662	6	3	690	730	24	33	52.60
650	660.4	664.0	845	34	56	706	712	6	3	740	780	24	33	60.60
700	711.2	715.0	905	34	58	762	770	6	3	800	840	24	33	70.60
750	762.0	766.0	970	36	62	816	824	6	3	855	900	24	33	85.80
800	812.8	817.0	1020	36	64	868	876	6	3	905	950	28	33	91.20
(850)	863.6	868.0	1070	36	66	920	928	6	3	955	1000	28	33	98.60
900	914.4	919.0	1120	38	70	971	979	6	3	1005	1050	28	33	109.00
1000	1016.0	1021.0	1235	40	74	1073	1081	6	3	1110	1160	28	39	133.00

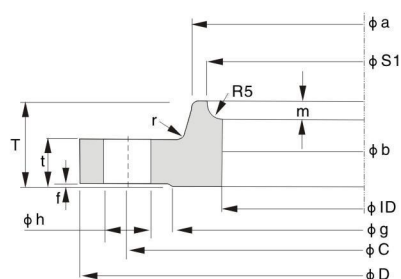
Unit: mm

Nominal Size of Flange	Outside Dia. of Pipe	Inside Dia. of Flange	Outside Dia. of Flange	Sectional Dimensions of Flange							Dia. of Bolt			Approx Weight (kg/w)
				t	T	Hub			Raised Face	Dia. of Raised Face	Bolt Circle dia. C	Number of Bolt Holes	Hole Dia. h	
						a	b	r						
10	17.3	17.8	90	12	16	26	28	4	1	46	65	4	15	0.52
15	21.7	22.2	95	12	16	30	32	4	1	51	70	4	15	0.58
20	27.2	27.7	100	14	20	38	42	4	1	56	75	4	15	0.75
25	34.0	34.5	125	14	20	46	50	4	1	67	90	4	19	1016
32	42.7	43.2	135	16	24	56	60	5	2	76	100	4	19	1053
40	48.6	49.1	140	16	26	62	66	5	2	81	105	4	19	1.64
50	60.5	61.1	155	16	24	76	80	5	2	96	120	8	19	1.83
65	76.3	77.1	175	18	26	94	98	5	2	116	140	8	19	2.58
80	89.1	90.0	200	20	28	108	112	6	2	132	160	8	23	3.66
(90)	101.6	102.6	210	20	30	120	124	6	2	145	170	8	23	3.95
100	114.3	115.4	225	22	34	134	138	6	2	160	185	8	23	4.94
125	139.8	141.2	270	22	34	164	170	6	2	195	225	8	25	7.00
150	165.2	166.6	305	24	38	196	202	6	2	230	260	12	26	9.62
200	216.3	218.0	350	26	40	244	252	6	2	275	305	12	26	12.10
250	267.4	269.5	430	28	44	304	312	6	2	345	380	12	27	20.00
300	318.5	321.0	480	30	48	354	364	8	3	395	430	16	27	24.40
350	355.6	358.1	540	34	52	398	408	8	3	440	480	16	33	35.00
400	406.4	409.0	605	38	60	446	456	10	3	495	540	16	33	46.20
450	457.2	460.0	675	40	64	504	514	10	3	560	605	20	33	61.90
500	508.0	511.0	730	42	68	558	568	10	3	615	660	20	33	73.25
(550)	558.8	562.0	795	44	70	612	622	10	3	670	720	20	39	88.10
600	609.6	613.0	945	46	74	666	676	10	3	720	770	24	39	98.80
(650)	660.4	664.0	895	48	77	704	726	10	5	770	820	24	39	101.00
700	711.2	715.0	960	50	80	754	776	10	5	820	875	24	42	120.00
(750)	762.0	766.0	1020	52	83	806	832	10	5	880	935	24	42	141.00
800	812.8	817.0	1085	54	86	865	885	10	5	930	990	24	48	161.00
(850)	836.6	868.0	1135	56	89	916	936	10	5	980	1040	24	48	177.00
900	914.4	919.0	1185	58	93	968	986	10	5	1030	1090	28	48	191.00
1000	1016.0	1021.0	1320	62	99	1070	1098	12	5	1140	1210	28	56	230.00
(1100)	1117.6	1123.0	1420	66	105	1180	1200	12	5	1240	1310	32	56	289.00
1200	1219.2	1224.0	1530	70	112	1282	1302	12	5	1350	1420	32	56	348.00

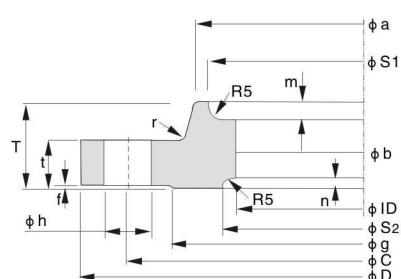


■ 20K JIS B2220 KS B1503

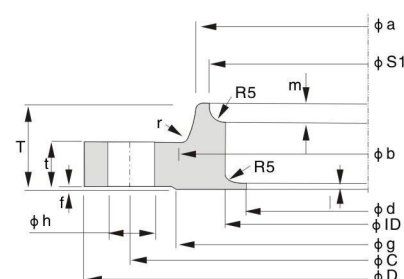
TYPE A
NOMINAL SIZE 10-50mm



TYPE B
NOMINAL SIZE 10-50mm



TYPE C
NOMINAL SIZE 65-600mm



Unit: mm

Nominal Size of Flange	Outside Dia. of Pipe	Inside Dia. of Flange	Outside Dia. of Flange	Sectional Dimensions of Flange								Bolt Hole			Reference					Approx Weight (kg/w)
				t	T	Hub			f	g	d	Bolt Circle Dia. C	Number of Bolt Holes	Hole Dia. h	S1	m	S2	n	l	
						a	b	r												
10	17.3	17.8	90	14	20	30	32	4	1	46	-	65	4	15	27	4	27	4.0	-	0.59
15	21.7	22.2	95	14	20	34	36	4	1	51	-	70	4	15	31	4	31	4.0	-	0.65
20	27.2	27.7	100	16	22	40	42	4	1	56	-	75	4	15	37	4	37	4.0	-	0.81
25	34.0	34.5	125	16	24	48	50	4	1	67	-	90	4	19	44	4	44	4.5	-	1.29
32	42.7	43.2	135	18	26	56	60	5	2	76	-	100	4	19	52	4	53	5.0	-	1.60
40	48.6	49.1	140	18	26	62	66	5	2	81	-	105	4	19	58	4	59	5.5	-	1.69
50	60.5	61.1	155	18	26	76	80	5	2	96	-	120	8	19	70	4	72	5.5	-	1.89
65	76.3	77.1	175	20	30	100	104	5	2	116	65.9	140	8	19	94	6	-	-	6	2.60
80	89.1	90.0	200	22	34	113	117	6	2	132	78.1	160	8	23	107	6	-	-	6	3.93
(90)	101.6	102.6	210	24	36	126	130	6	2	145	90.2	170	8	23	120	6	-	-	6	4.56
100	114.3	115.4	225	24	36	138	142	6	2	160	102.3	185	8	23	132	6	-	-	6	5.13
125	139.8	141.2	270	26	40	166	172	6	2	195	126.6	225	8	25	160	7	-	-	6	8.30
150	165.2	166.6	305	28	42	196	202	6	2	230	151.0	260	12	26	186	8	-	-	6	10.60
200	216.3	218.0	350	30	46	244	252	6	2	275	199.9	305	12	26	237	9	-	-	6	13.30
250	267.4	269.5	430	34	52	304	312	6	2	345	248.8	380	12	27	290	10	-	-	6	23.40
300	318.5	321.0	480	36	56	354	364	8	3	395	297.9	430	16	27	345	11	-	-	6	27.70
350	355.6	358.1	540	40	62	398	408	8	3	440	333.4	480	16	33	384	12	-	-	6	39.20
400	406.4	409.0	605	46	70	446	456	10	3	495	381.0	540	16	33	437	13	-	-	7	54.20
450	457.2	460.0	675	48	78	504	514	10	3	560	431.8	605	20	33	490	15	-	-	7	71.70
500	508.0	511.0	730	50	84	558	568	10	3	615	482.6	660	20	33	544	16	-	-	7	86.20
(550)	558.8	562.0	795	52	90	612	622	10	3	670	533.4	720	20	39	595	16	-	-	7	105.00
600	609.6	613.0	854	54	96	666	676	10	3	720	584.2	770	24	39	646	18	-	-	7	119.00

■ TOLERANCE MATERIAL

TOLERANCE
JIS B2203 KS B1502

Flange Section	Surface Condition	Basic Size	Dimensional Tolerance
Outside Dia.	D	300 & below	± 1
		300 to 600	± 1.5
		600 to 1000	± 2
		1000 to 1500	± 2.5
		over 1500	± 3
		100 & below	+0.5/0
Inside Dia.	Slip-on Flange	100 to 400	-1/0
		400 to 600	+1.5/0
		600 to 800	+2/0
		800 to 1000	+2.5/0
		over 1000	+3/0
		250 & below	+0.5
Bolt Hole	C	250 to 550	+0.6
		550 to 950	+0.8
		950 to 1350	+1
		over 1350	+1.5
		do	Finish

Flange Section	Surface Condition	Basic Size	Dimensional Tolerance	
Bolt Hole	Pitch of Hole-P	Dring Hole	± 0.5	
Dia. of Hub	Slip-on Flange(a)	Finish	220 & below	+1/0
			220 to 450	+1.5/0
			450 to 650	+2/0
			650 to 850	+2.5/0
			850 to 1000	+3/0
			over 1000	+3.5/0
Thickness	One-side Finish	20 & below	+1.5/0	
		20 to 50	+2/0	
		50 to 100	+3/0	
		Both-side		
Hub Height T	Flange with Pipe Inserted	Finish	20 & below	+1/0
			20 to 50	+1.5/0
			50 to 100	+2/0
	Flange with Butt Welded Pipe	Finish	200 & below	+2/0
			200 to 300	+3/0
			50 & below	± 1
50 to 100	± 1.5			
100 to 200	± 2			

MATERIAL
JIS B2220 KS B1503

Nominal Pressure	Type of Flange	Type of Materials	Material	
			KS	JIS
5K	Slip-on Welding	Carbon	KSD 3503 SS41	JIS G3101 SS41
10K	Bind	Steel	KSD 3710 SF40	JIS G3201=SF40A(1)
			KSD 4122SFVC1	JIS G3202 SFVC1
16K	Slip-on Welding	Carbon	KSD 3710 SF45(1)	JIS G3201 SF45A(1)
20K	Bind	Steel	KSD 4122SFVC2A	JIS G3202 SFVC 3A

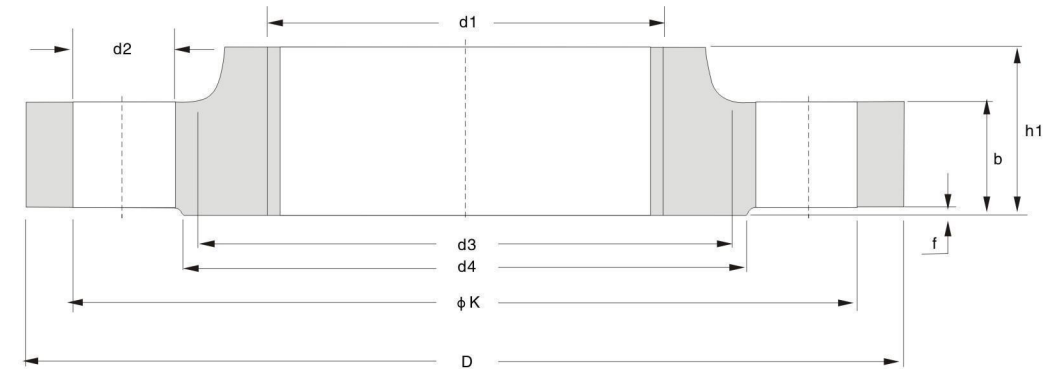
1.The carbon content shall not be more than 0.35%
 2.S20C and S25C was alternated with SF40A or SF45A in 1984 edition



■ DIN 2566 PN10 PN16



Hub bed Threaded Flanges



Unit: mm

DIN SERIES FLANGES
 DIN2566
 DIN2576
 DIN2632
 DIN2633
 DIN2634
 DIN2635
 DIN2642
 DIN2673

DN	d1		D	b	k	h1	d3	d4	f	Number of Holes	Diam of Bolts	D2	Approx. Weight
6	10.2	R1/8	75	12	50	18	20	32	2	4	M10	11	0.326
8	13.5	R1/4	80	12	55	18	25	38	2	4	M10	11	0.38
10	17.2	R3/8	90	14	60	20	30	40	2	4	M12	14	0.544
15	21.3	R1/2	95	14	65	20	35	45	2	4	M12	14	0.613
20	26.9	R3/4	105	16	75	24	45	58	2	4	M12	14	0.91
25	33.7	R1	115	16	85	24	52	68	2	4	M16	14	1.1
32	42.4	R1 1/4	140	16	100	26	60	78	2	4	M16	18	1.6
40	48.3	R1 1/2	150	16	110	26	70	88	3	4	M16	18	1.78
50	60.3	R2	165	18	125	28	85	102	3	4	M16	18	2.43
65	76.1	R2 1/2	185	18	145	32	105	122	3	4	M16	18	3.18
80	88.9	R3	200	20	160	34	118	138	3	8	M16	18	4.12
100	114.3	R4	220	20	180	38	140	158	3	8	M16	18	4.47



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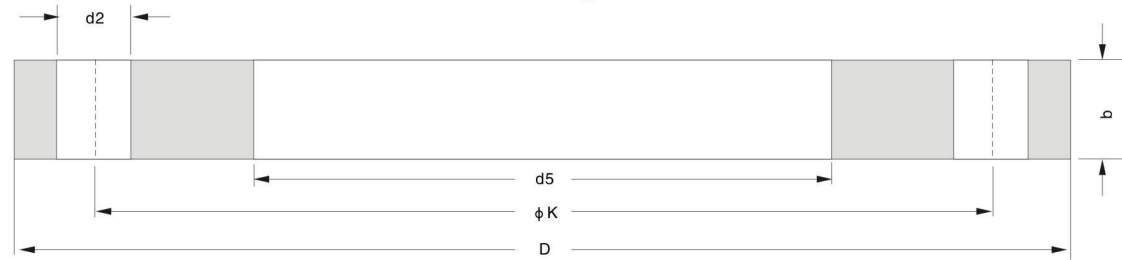
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■ DIN 2576 PN10

■ DIN 2632 PN10

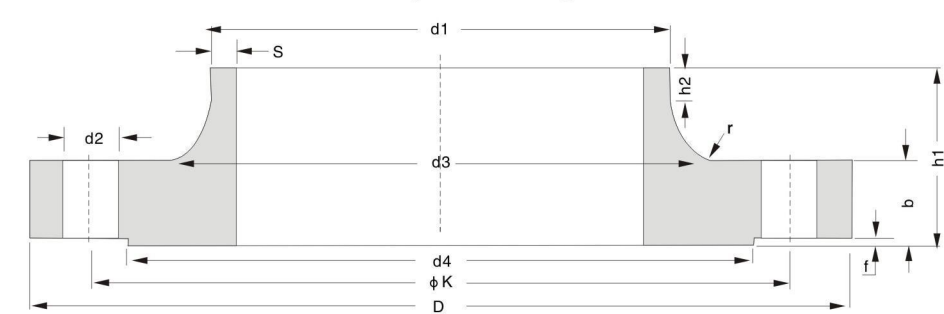
Plate Flanges



Unit: mm

DN	d1		d5	D	b	e	k	Number of Holes	Diam of Bolts	D2	Approx. Weight
	1	2									
10	-	14	14.5	90	14	5	60	4	M12	14	0.613
	17.2	-	17.7								0.605
15	-	20	21	95	14	5	65	4	M12	14	0.675
	21.3	-	22								0.669
20	-	25	26	105	16	5	75	4	M12	14	0.749
	26.9	-	27.6								0.936
25	-	30	31	115	16	5	85	4	M12	14	1.14
	33.7	-	34.4								1.11
32	-	38	39	140	16	5	100	4	M16	18	1.66
	42.4	-	43.1								1.62
40	-	44.5	45.5	150	16	5	110	4	M16	18	1.89
	48.3	-	49								1.86
50	-	57	58.1	165	18	6	125	4	M16	18	2.51
	60.3	-	61.1								2.47
65	76.1	-	77.1	185	18	6	145	4	M16	18	3.00
80	88.9	-	90.3	200	20	7	160	8	M16	18	3.79
100	-	108	109.6	220	20	7	180	8	M16	18	4.20
	114.3	-	115.9								4.03
125	-	133	134.8	250	22	7	210	8	M16	18	5.71
	139.7	-	141.6								5.46
150	-	159	161.1	285	22	7	240	8	M20	22	6.72
	168.3	-	170.5								6.57
(175)	193.7	-	196.1	315	24	-	270	8	M20	22	8.45
200	219.1	-	221.8	340	24	7	295	8	M20	22	9.31
250	-	267	270.2	395	26	7	350	12	M20	22	12.5
	273	-	276.2								11.9
300	323.9	-	327.6	445	26	7	400	12	M20	22	13.8
350	355.6	368	359.7	505	28	7	460	16	M20	22	20.6
	-	-	372.2								19.0
400	406.4	-	411	565	32	7	515	16	M24	26	27.9
	-	419	423.7								25.9
(450)	457	-	462.3	615	38	7	565	20	M24	26	35.6
500	508	-	513.6	670	38	7	620	20	M24	26	41.1

Welding Neck Flanges



Unit: mm

DN	d1		D	b	k	h1	d3	s	r	h2	d4	f	Number of Holes	Diam of Bolts	d2	Approx. Weight
	1	2														
DN 10 to DN 150 use DIN 2633 PN 16 dimensions																
200	219.1	-	304	24	295	62	235	5.9	10	16	268	3	8	M20	22	11.30
250	-	267	395	26	350	68	285	6.3	12	16	320	3	12	M20	22	14.7
	273	-														
300	323.9	-	445	26	400	68	344	7.1	12	16	370	4	12	M20	22	17.4
350	355.6	-	505	26	460	68	385	7.1	12	16	430	4	16	M20	22	23.6
	-	368														21.6
400	406.4	-	565	26	515	72	440	7.1	12	16	482	4	16	M24	26	28.6
	-	419														26.2
500	508	-	670	28	620	75	542	7.1	12	16	585	4	20	M24	26	38.1
600	610	-	780	28	725	80	642	7.1	12	18	685	5	20	M27	30	44.6
700	711	-	895	30	840	80	745	8	12	18	800	5	24	M27	30	62.4
800	813	-	1015	32	950	90	850	8	12	18	905	5	24	M30	33	84.1
900	914	-	1115	34	1050	95	950	10	12	20	1005	5	28	M30	33	98.5
1000	1016	-	1230	34	1160	95	1052	10	16	20	1110	5	28	M33	36	115.0
1200	1220	-	1455	38	1380	115	1255	11	16	25	1330	5	32	M36	39	182
1400	1420	-	1675	42	1590	120	1460	12	16	25	1535	5	36	M39	42	248
1600	1620	-	1915	46	1820	130	1665	14	16	25	1760	5	40	M45	48	347
1800	1820	-	2115	50	2020	140	1868	15	16	30	1960	5	44	M45	48	430
2000	2020	-	2325	54	2230	150	2072	16	16	30	2170	5	48	M45	48	539
2200	2220	-	2550	58	2440	160	2275	18	18	35	2370	6	52	M52	56	658
2400	2420	-	2760	62	2650	170	2478	20	18	35	2570	6	56	M52	56	825
2600	2620	-	2960	66	2850	180	2680	22	18	40	2780	6	60	M52	56	979
2800	2820	-	3180	70	3070	190	2882	22	18	40	3000	6	64	M52	56	1156
3000	3020	-	3405	75	3290	200	3085	24	18	45	3210	6	68	M56	62	1402



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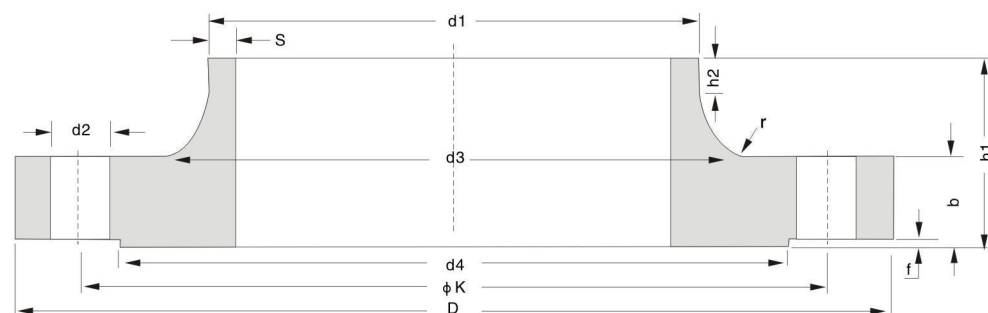
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■ DIN 2633 PN16

■ DIN 2634 PN25

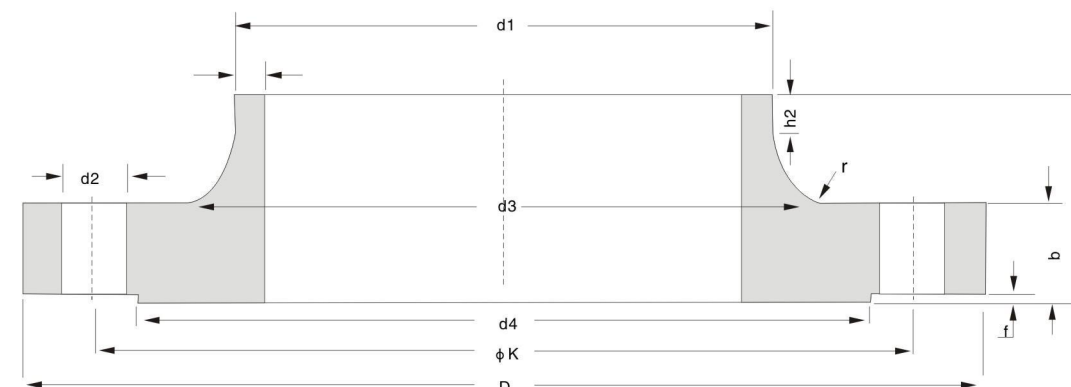
Welding Neck Flanges



Unit: mm

DN	d1		D	b	k	h1	d3	s	r	h2	d4	f	Number of Holes	Diam of Bolts	d2	Approx. Weight
	1	2														
10	-	14	90	14	60	35	25	1.8	4	6	40	2	4	M12	14	0.580
	17.2	-					28									
15	-	20	95	14	65	35	30	2	4	6	45	2	4	M12	14	0.648
	21.3	-					32									
20	-	25	105	16	75	38	38	2.3	4	6	58	2	4	M12	14	0.952
	26.9	-					40									
25	-	30	115	16	85	38	42	2.6	4	6	68	2	4	M12	14	1.140
	33.7	-					45									
32	-	38	140	16	100	40	52	2.6	6	6	78	2	4	M16	18	1.69
	42.4	-					56									
40	-	44.5	150	16	110	42	60	2.6	6	7	88	3	4	M16	18	1.86
	48.3	-					64									
50	-	57	165	18	125	45	72	2.9	6	8	102	3	4	M16	18	2.53
	60.3	-					75									
65	76.1	-	185	18	145	45	90	2.9	6	10	122	3	4	M16	18	3.06
80	88.9	-	200	20	160	50	105	3.2	8	10	138	3	8	M16	18	3.70
100	-	108	220	20	180	52	125	3.6	8	12	158	3	8	M16	18	4.62
	114.3	-					131									
125	-	133	250	22	210	55	150	4	8	12	188	3	8	M16	18	6.30
	139.7	-					156									
150	-	159	285	22	240	55	175	4.5	10	12	212	3	8	M20	22	7.75
	168.3	-					184									
(175)	193.7	-	315	24	270	60	210	5.4	10	12	242	3	8	M20	22	9.85
200	219.1	-	340	24	295	62	235	5.9	10	16	268	3	12	M20	22	11.00
250	-	267	405	26	355	70	285	6.3	12	16	320	3	12	M24	26	15.6
	273	-					292									
300	323.9	-	460	28	410	78	344	7.1	12	16	378	4	12	M24	26	22.0
350	355.6	-	520	30	470	82	390	8	12	16	438	4	16	M24	26	31.2
	-	368														28.8
400	406.4	-	580	32	525	85	445	8	12	16	490	4	16	M27	30	39.3
	-	419														36.3
500	508	-	715	34	650	90	548	8	12	16	610	4	20	M30	33	61.0
600	610	-	840	36	770	95	652	8.8	12	18	725	5	20	M33	36	75.4
700	711	-	910	36	840	100	755	8.8	12	18	795	5	24	M33	36	77.0
800	813	-	1025	38	950	105	855	10	12	20	900	5	24	M36	39	101.0
900	914	-	1125	40	1050	110	955	10	12	20	1000	5	28	M36	39	122.0
1000	1016	-	1255	42	1170	120	1058	10	16	22	1115	5	28	M39	42	162.0
1200	1220	-	1485	48	1390	130	1262	12.5	16	30	1330	5	32	M45	48	243
1400	1420	-	1685	52	1590	145	1465	14.2	16	30	1530	5	36	M45	48	323
1600	1620	-	1930	58	1820	160	1668	16	16	35	1750	5	40	M52	56	479
1800	1820	-	2130	62	2020	170	1870	17.5	16	35	1950	5	44	M52	56	599
2000	2020	-	2345	66	2230	180	2072	20	16	40	2150	5	48	M56	62	719

Welding Neck Flanges



Unit: mm

DN	d1		D	b	k	h1	d3	s	r	h2	d4	f	Number of Holes	Diam of Bolts	d2	Approx. Weight
	1	2														
DN 10 to DN 150 use DIN 2635 PN 40 dimensions																
(175)	193.7	-	330	28	280	75	218	5.6	10	15	248	3	12	M24	26	13.4
200	219.1	-	360	30	310	80	244	6.3	10	16	278	3	12	M24	26	17.0
250	-	267	425	32	370	88	292	7.1	12	18	335	3	12	M27	30	24.4
	273	-					298									
300	323.9	-	485	34	430	92	352	8	12	18	395	4	16	M27	30	31.2
350	355.6	-	555	38	490	100	398	8	12	20	450	4	16	M30	33	47.2
	-	368														44.2
400	4.6.4	-	620	40	550	110	452	8.8	12	20	505	4	16	M33	36	61.7
	-	419														57.9
500	508	-	730	44	660	125	558	10	12	20	615	4	20	M33	36	89.6
600	610	-	845	46	770	125	660	11	12	20	720	5	20	M36	39	104
700	711	-	960	46	875	125	760	12.5	12	20	820	5	24	M39	42	136
800	813	-	1085	50	990	135	865	14.2	12	22	930	5	24	M45	48	186
900	914	-	1185	54	1090	145	968	16	12	24	1030	5	28	M45	48	236
1000	1016	-	1320	58	1210	155	1070	17.5	16	24	1140	5	28	M52	56	307



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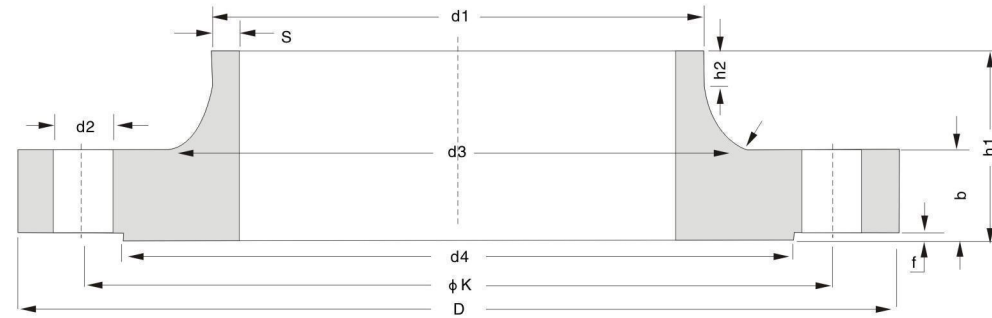
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■ DIN2635 PN40

■ DIN 2642 PN10

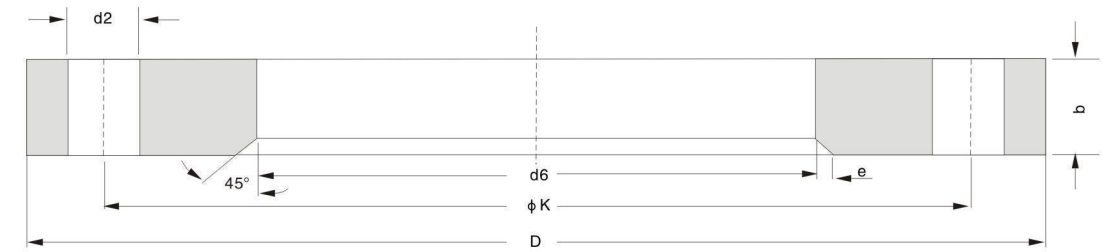
Welding Neck Flanges



Unit: mm

DN	d1		D	b	k	h1	d3	s	r	h2	d4	f	Number of Holes	Diam of Bolts	d2	Approx. Weight
	1	2														
10	-	14	90	16	60	35	25	1.8	4	6	40	2	4	M12	14	0.661
	17.2	-														
15	-	20	95	16	65	38	30	2	4	6	45	2	4	M12	14	0.746
	21.3	-														
20	-	25	105	18	75	40	38	2.3	4	6	58	2	4	M12	14	1.06
	26.9	-														
25	-	30	115	18	85	40	42	2.6	4	6	68	2	4	M12	14	1.29
	33.7	-														
32	-	38	140	18	100	42	52	2.6	6	7	78	2	4	M16	18	1.88
	42.4	-														
40	-	44.5	150	18	110	45	60	2.6	6	8	88	3	4	M16	18	2.33
	48.3	-														
50	-	57	165	20	125	48	72	2.9	6	10	102	3	4	M16	18	2.82
	60.3	-														
65	76.1	-	185	22	145	52	90	2.9	6	12	122	3	4	M16	18	3.74
80	88.9	-	200	24	160	58	105	3.2	8		138	3	8	M16	18	4.75
100	-	108	235	24	190	65	128	3.6	8	12	162	3	8	M20	22	6.52
	114.3	-														
125	-	133	270	26	220	68	155	4	8	12	188	3	8	M24	26	9.07
	139.7	-														
150	-	159	300	28	250	75	182	4.5	10	15	218	3	8	M24	26	11.8
	168.3	-														
(175)	193.7	-	350	32	295	82	218	5.6	10	18	260	3	12	M27	30	18.2
200	219.1	-	375	34	320	88	244	6.3	10		285	3	12	M27	30	21.5
250	-	267	450	38	385	105	298	7.1	12	18	345	3	12	M30	33	34.9
	273	-														
300	323.9	-	515	42	450	115	362	8	12		410	4	16	M30	33	49.7
350	355.6	-	580	46	510	125	408	8.8	12	20	465	4	16	M33	36	68.1
	-	368														
400	406.4	-	660	50	585	135	462	11	12	20	535	4	16	M36	39	96.5
	-	419														
500	508	-	755	52	670	140	562	14.2	12		615	4	20	M39		117

Loose Plate Flanges



Unit: mm

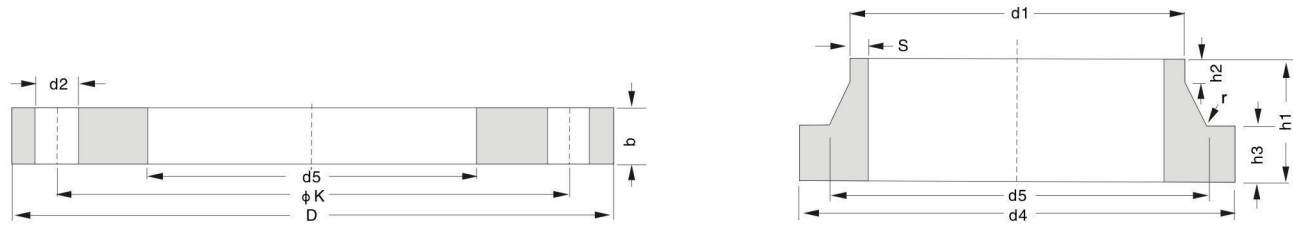
DN	d1		D	D6	b	k	e	Number of Holes	Diam of Bolts	d2	d5	h3	d4	h4 Max.	s1 min.	s2 min.	r	Approx. Weight	
	1	2																Flange	Hub
10	-	14	90	16	14	60	3	4	M12	14	14.5	10	40	9	1.8	3	3	0.599	0.087
	17.2	-																	
15	-	20	95	22	14	65	3	4	M12	14	21	10	45	9	2	3	3	0.689	0.105
	21.3	-																	
20	-	25	105	28	14	75	3	4	M12	14	26	12	58	12	2	3	3	0.806	0.203
	26.9	-																	
25	-	30	115	33	16	85	4	4	M12	14	31	12	68	15	2	3	4	1.11	0.276
	33.7	-																	
32	-	38	140	42	16	100	4	4	M16	18	39	12	78	15	2.6	3.5	4	1.64	0.343
	42.4	-																	
40	-	44.5	150	50	16	110	4	4	M16	18	45.5	12	88	17	2.6	3.5	4	1.86	0.426
	48.3	-																	
50	-	57	165	62	16	125	5	4	M16	18	58.1	14	102	23	2.6	3.5	5	2.20	0.618
	60.3	-																	
65	76.1	-	185	81	16	145	5	4	M16	18	77.1	14	122	23	2.6	3.5	5	2.62	0.786
80	88.9	-	200	94	18	160	5	8	M16	18	90.3	16	138	23	3.2	4	5	2.32	1.10
100	-	108	220	113	18	180	5	8	M16	18	109.6	16	158	28	3.2	4	5	3.67	1.31
	114	-																	
125	-	133	250	138	18	210	5	8	M16	18	134.8	18	188	30	3.2	4	5	4.54	1.96
	140	-																	
150	-	159	285	164	18	240	5	8	M20	22	161.1	18	212	30	3.2	4	5	5.60	2.18
	168	-																	
200	219	-	340	225	20	295	5	8	M20	22	221.8	20	268	30	3.2	4	5	7.46	3.10
250	-	267	395	273	22	350	5	12	M20	22	270.2	22	320	30	4	5	5	10.3	4.22
	273	-																	
300	324	-	445	329	26	400	5	12	M20	22	327.6	22	370	35	4	5	5	14.0	4.85
350	356	-	505	362	28	460	6	16	M20	22	359.7	22	430	-	-	-	6	18.5	6.71
	-	368																	
400	406	-	565	413	32	515	6	16	M24	26	411	24	482	-	-	-	6	25.0	8.28
	-	419																	
500	508	-	670	517	38	620	6	20	M24	26	513.6	26	585	-	-	-	6	37.0	11.5
600	610	-	780	618	44	725	7	20	M27	30	616.6	26	685	-	-	-	7	56.3	15.6
700	711	-	895	721	50	840	7	24	M27	30	718.6	28	800	-	-	-	7	80.4	23.2
800	813	-	1015	824	56	950	7	24	M30	30	821.5	30	905	-	-	-	7	113.2	29.2



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■ DIN 2673 PN10

Loose Plate Flanges With Weld-neck Collar



Unit: mm

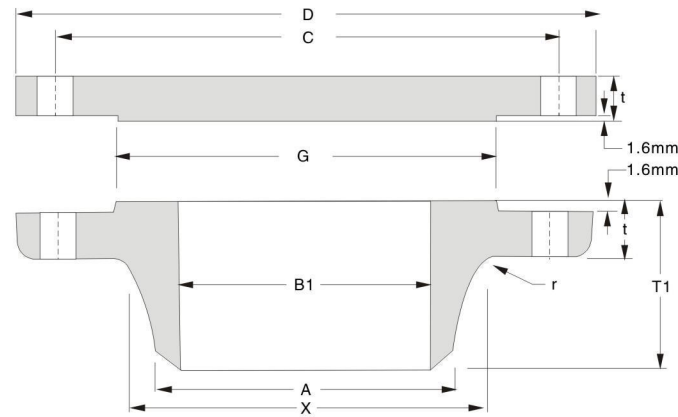
DN	d1	D	d5	b	k	Number of Holes	Diam of Bolts	d2	d4	h1	h3	d3	s	r	h2	Approximate Weight	
																Flansch kg	Bund kg
10	14	90	25	14	60	4	M12 (1/2")	14	40	35	10	22	1.8	2	6	0.566	0.117
	25																
15	20	95	32	14	65				28	2	2	6	0.622	0.151			
	34																
20	25	105	38	14	75				35	2.3	2	6	0.747	0.273			
	40																
25	30	115	45	16	85				40	2.6	2	6	1.01	0.372			
	48																
32	38	140	55	16	100				50	2.6	2	6	1.50	0.485			
	60																
40	44.5	150	62	16	110				58	2.6	2	7	1.71	0.610			
	66																
50	57	165	75	16	125				70	2.6	2	8	2.00	0.888			
	78																
65	76.1	185	92	16	145				88	2.9	2	10	2.41	1.13			
	102																
80	88.9	200	108	18	160				102	3.2	2	10	3.00	1.60			
	128																
100	108	220	128	18	180				122	3.6	2	12	3.26	2.01			
	135																
125	133	250	152	18	210				148	4	3	12	4.07	2.86			
	158																
150	159	285	178	18	240				172	4.5	3	12	5.05	3.26			
	188																
200	216	340	235	20	295	230	5.9	3	12	6.70	5.13						
	238																
250	267	395	288	22	350	282	6.3	3	16	9.09	7.18						
	294																
300	318	445	338	26	400	332	7.1	3	16	12.5	8.50						
	344																
350	356	505	376	28	460	370	7.1	4	16	16.6	10.9						
	388																
400	406	565	430	32	515	426	7.1	4	16	22.4	14.2						
	442																
500	508	670	533	38	620	528	7.1	4	16	32.5	19.4						
	545																
600	610	780	633	44	725	628	7.1	4	18	47.2	24.1						
	645																
700	711	895	740	50	840	735	8	5	18	67.6	34.4						
	748																
800	813	1015	843	56	950	838	8	5	18	97.0	44.1						
	850																
900	914	1115	947	62	1050	940	10	5	20	117	54.1						
	952																
1000	1016	1230	1050	68	1160	1044	10	5	20	152	69.2						
	1055																
1200	1220	1455	1260	80	1380	1250	11	6	25	235	111						



MSS SP44
 Class 150 Flanges
 Class 300 Flanges
 Material Specifications



■ Class 150 Flanges



MAA SP-44 FORGED FLANGES

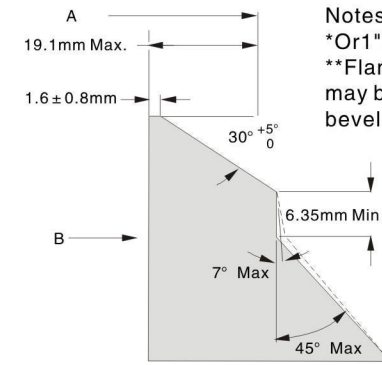
Unit: mm

Nominal Pipe Size	Outside Diam. D	O. D. of Raised Face G	Diam. At Base of Hub X	Thickness t	BORE	
					Wall Thickness	
					9.5mm	12.7mm
					B1	
12	483	381.0	365.3	31.8	304.8	298.5
14	533	412.8	400.1	35.1	336.6	330.2
16	597	469.9	457.2	36.6	387.4	381.0
18	635	533.4	505.0	39.6	438.2	431.8
20	699	584.2	558.8	42.9	489.0	482.6
22	749	641.4	609.6	46.0	539.8	533.4
24	813	692.2	663.4	47.8	590.6	594.2
26	870	749.3	676.1	68.3	641.4	635.0
28	927	800.1	726.9	71.4	692.2	685.8
30	984	857.3	781.1	74.7	743.0	736.6
32	1060	914.4	731.9	80.8	793.8	787.4
34	1111	965.2	882.7	82.6	844.6	838.2
36	1168	1022.4	933.5	90.4	895.4	889.0
38	1238	1073.2	990.6	87.4	946.5	939.8
40	1289	1124.0	1041.4	90.4	997.0	990.6
42	1346	1193.8	1092.2	96.8	1047.8	1041.4
44	1403	1044.6	1143.0	101.6	1098.6	1092.2
46	1454	1295.4	1196.8	103.1	1149.4	1143.0
48	1511	1358.9	1247.6	108.0	1200.2	1193.8
50	1568	1409.7	1301.8	111.3	1251.0	1244.6
52	1626	1460.5	1352.6	115.8	1306.8	1295.4
54	1683	1511.3	1403.4	120.7	1352.6	1346.2
56	1746	1574.8	1457.5	124.0	1403.4	1397.0
58	1803	1625.6	1508.3	128.5	1454.2	1447.8
60	1854	1676.4	1559.1	121.8	1505.2	1498.6

- Notes:
 (1)For the 'Bore' (B1) other than wall thickness 0.375" and 0.500", refer to page 32.
 (2)Class 150 flanges will be furnished with 0.06" raised face, which is included in 'thickness' (t) and 'Length through Hub' (T1)
 (3)Dimensional tolerances are in accordance with ANSI/ASME B16.5.

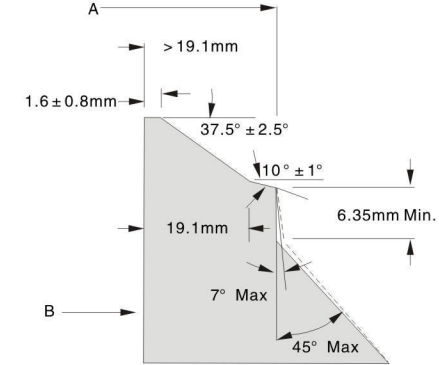
■ Class 150 Flanges

Welding-ends for welding-neck flanges



BEVEL FOR WALL THICKNESS
 *0.75"IN.(20mm)OR LESS.

- Notes:
 *Or 1" at manufacturer's option
 **Flanges sizes 24" and smaller may be furnished with 37-1/2° bevel at manufacturer's option



BEVEL FOR WALL THICKNESS
 GREATER THAN 0.75IN.(20mm)

Unit: mm

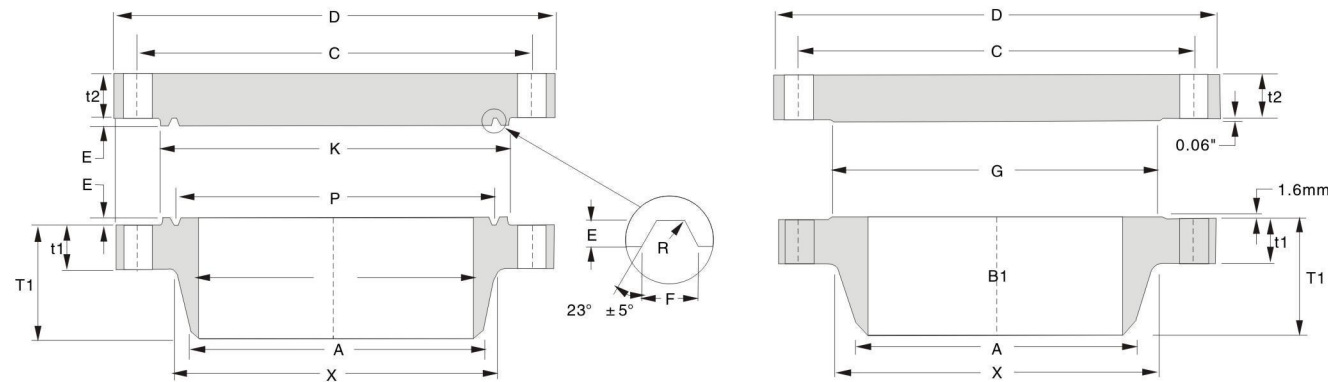
Length Thru Hub T1	Diam. of Hub Bevel A	Radius of Fillet r	Bolt Circle Diam C	DRILLING		Nominal Pipe Size
				Number of Holes	Diam of Holes	
114.3	323.9	9.7	431.8	12	25.4	12
127.0	355.6	9.7	476.3	12	28.4	14
127.0	406.4	9.7	539.8	16	28.4	16
139.7	457.2	9.7	577.9	16	31.8	18
144.5	508.0	9.7	635.0	20	31.8	20
149.4	558.8	9.7	692.2	20	35.1	22
152.4	609.6	9.7	749.3	20	35.1	24
120.7	to be specified by purchaser	9.7	806.5	24	35.1	26
125.5		11.2	863.6	28	35.1	28
136.7		11.2	914.4	28	35.1	30
144.5		11.2	977.9	28	41.1	32
149.4		12.7	1028.7	32	41.1	34
157.0		12.7	1085.9	32	41.1	36
157.2		12.7	1149.4	32	41.1	38
163.6		12.7	1200.2	36	41.1	40
171.5		12.7	1257.3	32	41.1	42
177.8		12.7	1314.5	40	41.1	44
185.7		12.7	1365.3	40	41.1	46
192.0		12.7	1422.4	44	41.1	48
203.2		12.7	1479.6	44	47.8	50
209.6		12.7	1536.7	44	47.8	52
215.9		12.7	1593.9	44	47.8	54
228.6		12.7	1651.0	48	47.8	56
235.0		12.7	1708.2	48	47.8	58
239.8	12.7	1759.0	52	47.8	60	

- (4)Maximum pressure rating for raised face flanges is 285 psi (19.5BARS) at atmospheric temperature.
 (5)Flange dimensions of size 12" (304.8mm) to 24" (609.6mm) (except 22") are in accordance with ANSI/ASME B16.5.

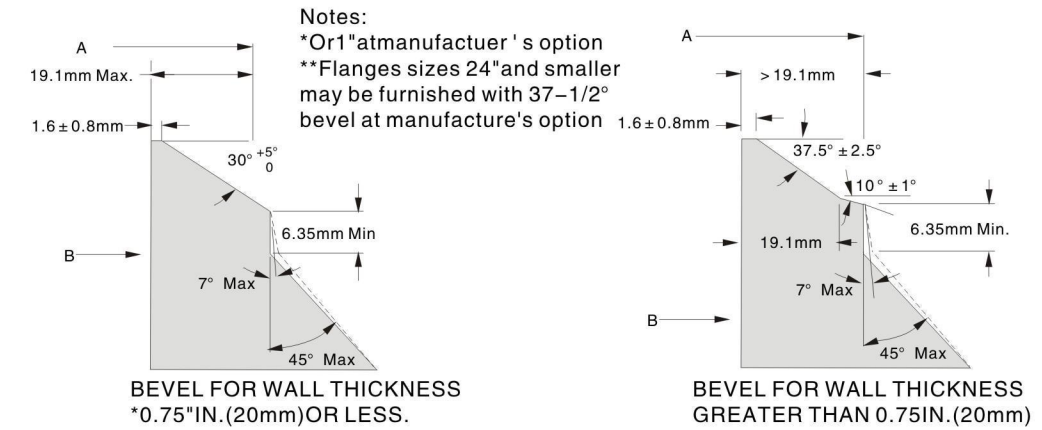


■ Class 300 Flanges

■ Class 300 Flanges



Welding-ends for welding-neck flanges



MAA SP-44 FORGED FLANGES

Unit: mm

Nominal Pipe Size	Outside Diam. D	O.D. of Raised Face G	Dima. At Base of Hub X	Thickness		BORE Wall Thickness		Length Thru Hub T1	Diam. of Hub at Bevel A
				Welding Neck t1	Blind t2	9.5mm	12.7mm		
						B1			
12	521	381.0	374.7	50.8	50.8	304.8	298.5	130.0	323.9
14	584	412.8	425.5	53.8	53.8	336.6	330.2	142.7	355.6
16	648	469.9	482.6	57.2	57.2	387.4	381.0	146.0	406.4
18	711	533.4	533.4	60.5	60.5	468.2	431.8	158.8	457.2
20	775	584.2	587.2	63.5	63.5	489.0	482.6	162.1	508.2
22	838	641.4	641.4	66.5	66.5	539.8	533.4	165.1	558.8
24	914	692.2	701.5	69.9	69.9	590.6	584.2	168.1	609.6
26	972	749.3	720.9	79.2	84.1	641.4	635.0	184.2	666.8
28	1035	800.1	774.7	85.9	90.4	692.2	685.8	196.9	717.6
30	1092	857.3	827.0	91.9	95.3	743.0	736.6	209.6	768.4
32	1149	914.4	881.1	98.6	100.1	793.8	787.4	222.3	819.2
34	1207	965.2	936.8	101.6	104.6	844.6	838.2	231.6	871.7
36	1270	1022.4	990.6	104.6	111.3	895.4	889.0	241.3	922.5
38	1168	1028.7	993.6	108.0	108.0	946.2	939.8	180.8	
40	1238	1085.9	1047.8	114.3	114.3	997.0	990.6	193.5	
42	1289	1136.7	1098.6	119.1	119.1	1047.8	1041.4	200.2	
44	1353	1193.8	1149.4	124.0	124.0	1198.6	1092.2	206.2	
46	1416	1244.6	1203.5	128.5	128.5	1149.4	1143.0	215.9	
48	1467	1301.8	1254.3	133.4	133.4	1200.2	1193.8	223.8	
50	1530	1358.9	1305.1	139.7	139.7	1251.0	1244.6	231.6	
52	1581	1409.7	1355.9	144.5	144.5	1301.8	1295.4	238.3	
54	1657	1466.9	1409.7	152.4	152.4	1352.6	1346.2	252.5	
56	1708	1517.7	1463.5	153.9	153.9	1403.4	1397.0	260.4	
58	1759	1574.8	1514.3	158.8	158.8	1454.2	1447.8	266.7	
60	1810	1625.6	1565.1	163.6	163.6	1505.0	1498.6	273.1	

to be specified by purchaser

- Notes:
 (1) For the 'Bore' (B1) other than wall thickness 9.5mm and 12.7mm, refer to page 32.
 (2) Class 300 flanges will be furnished with 0.06" (1.6mm) raised face, which is included in 'thickness' (t) and 'Length through Hub' (T1)
 (3) Dimensional tolerances are in accordance with ANSI/ASME B16.5.

Unit: mm

Radius of Fillet r	DRILLING			Pitch Diam P	GROOVE DIMENSIONS			Diam and Raised Face K	Ring of Groove Number	Nominal Pipe Size
	Boit Circle Diam C	Number of Holes	Diam. of Holes		Width F	Depth E	Radius R			
9.7	450.9	16	31.8	381.0	11.9	7.9	0.8	412.8	R57	12
9.7	514.4	20	31.8	419.1	11.9	7.9	0.8	457.2	R61	14
9.7	571.5	20	35.1	469.9	11.9	7.9	0.8	508.0	R65	16
9.7	628.7	24	35.1	533.4	11.9	7.9	0.8	574.5	R69	18
9.7	685.8	24	35.1	584.2	13.5	9.5	1.5	635.0	R73	20
9.7	743.0	24	41.1	635.0	15.1	11.1	1.5	685.8	R81	22
9.7	812.8	24	41.1	692.2	16.7	11.1	1.5	749.3	R77	24
9.7	876.3	28	44.5	749.3	19.8	12.7	1.5	809.8	R93	26
11.2	939.8	28	44.5	800.1	19.8	12.7	1.5	860.6	R94	28
11.2	997.0	28	47.8	857.3	19.8	12.7	1.5	917.4	R95	30
11.2	1054.1	28	50.8	914.4	23.0	14.3	1.5	984.3	R96	32
12.7	1104.9	28	50.8	965.2	23.0	14.3	1.5	1035.1	R97	34
12.7	1168.4	32	53.8	1022.4	23.0	14.3	1.5	1092.2	R98	36
12.7	1092.2	32	41.1							38
12.7	1155.7	32	44.5							40
12.7	1206.5	32	44.5							42
12.7	1263.7	32	47.8							44
12.7	1320.8	28	50.8							46
12.7	1371.6	32	50.8							48
12.7	1428.8	32	53.8							50
12.7	1479.6	32	53.8							52
12.7	1549.4	28	60.5							54
12.7	1600.2	28	60.5							56
12.7	1651.0	32	60.5							58
12.7	1701.8	32	60.5							60

- (4) Maximum pressure rating for raised face flanges is 740 psi (51BARS) at atmospheric temperature.
 (5) Flange dimensions of size 12" to 24" (except 22") are in accordance with ANSI/ASME B16.5.
 (6) For sizes 26" larger, diameter of Hub at bevel (A) are in accordance with ASME boiler and pressure vessel code.



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Material Specifications

A.MATERIALS

- a.The steel used in the manufacture of these flanges shall be selected to meet the following requirements.
- b.The F48 and higher grades of class 400, 600 and 900 flanges shall be killed steel.
- c.The steel used shall be suitable for field welding to other flanges, or pipe manufactured under ASTM specifications A105,A53,A106,A381,or API Standards 5L and 5LX.
- d.The steel used shall have a maximum carbon content of 0.35 and a carbon equivalent computed by the following equation:

$$CE=C+\frac{Mn}{6}+\frac{Si+Cr+Mo}{5}+\frac{Ni+Cu}{15}$$

that should not exceed 0.50%,based on check analysis. If the carbon equivalent factor exceeds 0.50%,the acceptance of the flanges shall be based on agreement between purchaser and manufacturer.

- a.The choice and used of alloying elements, combined with the elements within the limits prescribed in paragraph A.point d. to give the required tensile properties prescribed in paragraph A point f. shall be made by HOLIWAY and included and reported in the chemical analysis to identify the type of steel.
- b.The steel used shall have tensile properties conforming to the requirements prescribed in following table.

B.HEAT TREATMENT

The F42 and higher grades of flanges of all pressure classes and the class 400 and higher classes of Grade F36 flanges shall be normalized or quenched and tempered.

C.TEST SPECIMEN

The test specimens may be taken from the forgings or, at the manufacturers' option, from the billets or forging bar entering into the finished product, provided such test blank has undergone relatively the same forming and the equivalent heat Treatment as the finished flange. The dimensions of the test blank must be such as to adequately reflect the heat treatment properties of the hub of the flange.

MSS SP44 FORGED FLANGES

Grade	Yield Point		Tensile Strength Min.		Elongation in 2"Min.Percent
	KSI	Mpa	KSI	Mpa	
F36	36	248	60	414	20
F42	42	290	60	414	20
F46	46	317	60	414	20
F48	48	331	62	427	20
F50	50	345	64	441	20
F52	52	359	66	455	20
F56	56	386	68	469	20
F60	60	414	75	517	20
F65	65	448	77	531	18

ZHEJIANG JIALIN PIPE VALVE CO.,LTD

The quality of after-sales service commitment

With the further development of national market economy,the increasingly fierce market competition,the majority of users are increasingly high demand for the product,and the after sale service requirements are also increasing,therefore, the quality management department of our company to meet the market requirements,set up special after sale service team,equipped with a full-time staff responsible for handling I company's products after sale service.Also our company in the aspect of internal quality management has also made many efforts,won the ISO9001 quality certification and API-6D certification and pressure pipeline license for special equipment,our company can do.

Fist: Products with inspection certificate of quality and specifications,to ensure that the user can use the products of our company installed correctly.

Second: Our company guarantee the factory's products are all manufactured in accordance with relevant international standards and inspection,unqualified products will not be leaving the factory.We guarantee strict compliance,to honor four packages of products,strict implementation of the relevant provisions of national service of industrial products,Products shipped from the factory within 18 months from the date,specified in the product description under normal operating conditions the company will be responsible for the quality of the warranty period intact.

Third: If the user of our products quality objection, that after receiving user objection after 2 hours to handle the views. If you need to solve, ensure to send professional and technical service personnel, and ensure quality issues are not resolved not to evacuate staff.On the quality of the products of each piece of user feedback and treatment results of our company will be archived.

Above three points is my company' s commitment to after-sales service. Warmly welcome the masses of users criticism against, please put forward valuable opinion,reference to improvement.Sincerely hope to cooperate happily between us.