

FLANGES



GOLDEN HIGHPOPE INDUSTRIAL INC.
EVERBEST VALVES & FITTINGS MFG. CO., LTD (For China's Shipment)

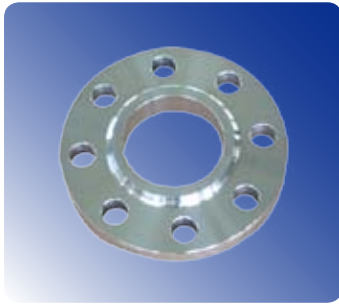
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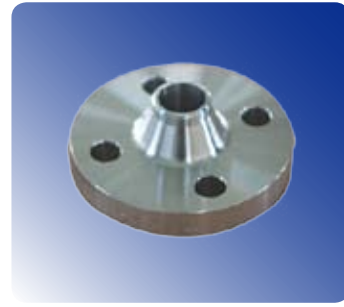
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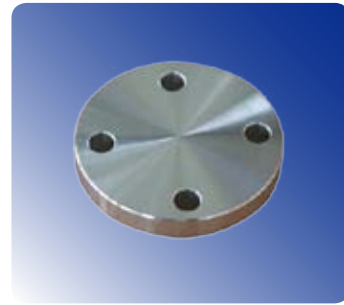
Slip-on Flange



Welding Neck Flange



Threaded Flange



Blind Flange

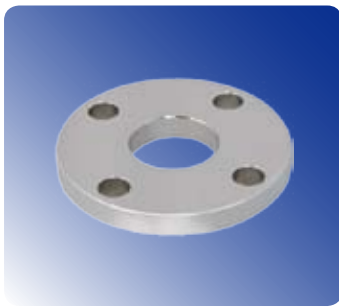
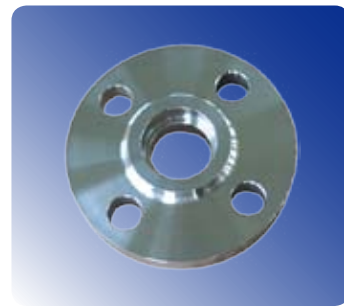
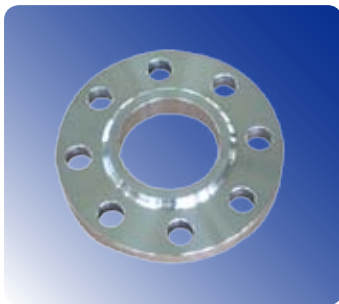


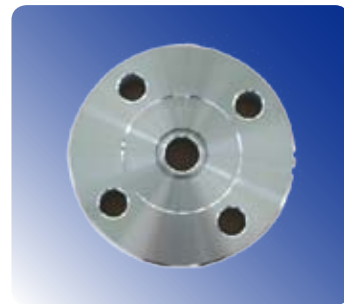
Plate Flange



Socket Welding Flange



Lap Joint Flange

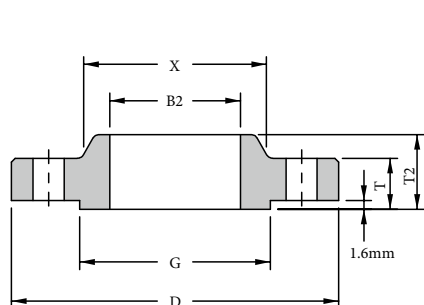


Special Flange

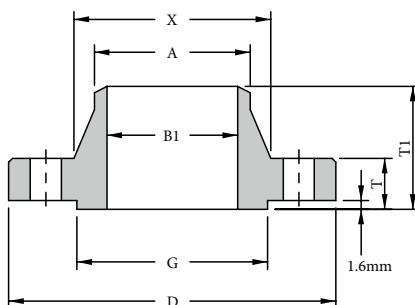
Material Matching

Material Standard	Chemical Composition(%)										
	C	Mn	P	S	Si	Cr	Ni	Mo	N	Ti	Cu
	Max	Max	Max	Max	Max	Max	Max	Max	Max		Max
1.4301	0.070	2.00	0.045	0.015	1.00	17.00~19.50	8.00~10.50		0.11		
A182 F304	0.080	2.00	0.045	0.030	1.00	18.00~20.00	8.00~11.00		0.10		
A182 F304H	0.04~0.10	2.00	0.045	0.030	1.00	18.00~20.00	8.00~11.00		0.10		
SUS F304	0.080	2.00	0.040	0.030	1.00	18.00~20.00	8.00~11.00				
0Cr18Ni9	0.070	2.00	0.035	0.030	1.00	17.00~19.00	8.00~11.00				
1.4307	0.030	2.00	0.045	0.015	1.00	17.50~19.05	8.00~10.00		0.11		
A182 F304L	0.030	2.00	0.045	0.030	1.00	18.00~20.00	8.00~13.00		0.10		
SUS F304L	0.030	2.00	0.040	0.030	1.00	18.00~20.00	9.00~13.00				
00Cr19Ni10	0.030	2.00	0.035	0.030	1.00	18.00~20.00	8.00~12.00				
1.4401	0.070	2.00	0.045	0.015	1.00	16.50~18.50	10.00~13.00	2.00~5.00	0.11		
A182 F316	0.080	2.00	0.045	0.030	1.00	16.00~18.00	10.00~14.00	2.00~3.00	0.10		
A182 F316L	0.04~0.10	2.00	0.045	0.030	1.00	16.00~18.00	10.00~14.00	2.00~3.00	0.10		
SUS F316	0.080	2.00	0.040	0.030	1.00	16.00~18.00	10.00~14.00	2.00~3.00			
0Cr17Ni12Mo2	0.080	2.00	0.035	0.030	1.00	16.00~18.00	10.00~14.00	2.00~3.00			
1.4404	0.030	2.00	0.045	0.015	1.00	16.50~18.50	10.00~13.00	2.00~2.50	0.11		
A182 F316L	0.030	2.00	0.045	0.030	1.00	16.00~18.00	10.00~15.00	2.00~3.00	0.10		
SUS 316L	0.030	2.00	0.040	0.030	1.00	16.00~18.00	12.00~15.00	2.00~3.00			
0Cr17Ni14Mo2	0.030	2.00	0.035	0.030	1.00	16.00~18.00	12.00~15.00	2.00~3.00			
1.4541	0.080	2.00	0.045	0.015	1.00	17.00~19.00	9.00~13.00			5%C to 0.70	
A182 F321	0.080	2.00	0.045	0.030	1.00	17.00~19.00	9.00~12.00			5%C to 0.70	
SUS 321	0.080	2.00	0.040	0.030	1.00	17.00~19.00	9.00~12.00			5%C to 0.70	
0Cr18Ni10Ti	0.080	2.00	0.035	0.030	1.00	17.00~19.00	9.00~12.00			5%C to 0.70	
1Cr18Ni9Ti	0.120	2.00	0.035	0.030	1.00	17.00~19.00	8.00~10.00			5(C%-0.02) to 0.80	
1.4571	0.080	2.00	0.045	0.015	1.00	16.50~18.50	10.50~13.50	2.00~2.50		5%C to 0.70	
0Cr18Ni12Mo2Ti	0.080	2.00	0.035	0.030	1.00	16.00~19.00	11.00~14.00	1.80~2.50		5%C to 0.70	
SS400			0.050	0.050							
SUS F304	0.15	1.00	0.040	0.030	0.50	11.50~13.00					
Q235A	0.14~0.22	0.30~0.65	0.045	0.050	0.30						
20#	0.17~0.23	0.60~1.00	0.030	0.020	0.17~0.37	0.25	0.25				0.25
16Mn	0.13~0.19	1.20~1.60	0.030	0.020	0.20~0.60	0.30	0.30				0.25
SA105	0.35	0.60~1.05	0.030	0.040	0.10~0.35	0.30	0.30	0.40	V Max 0.05	Nb Max 0.02	0.25

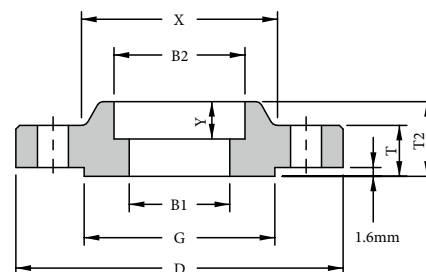
Class 150



Slip-on



Welding Neck

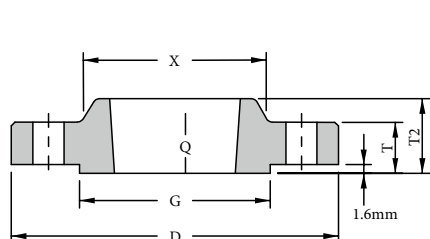


Socket Welding

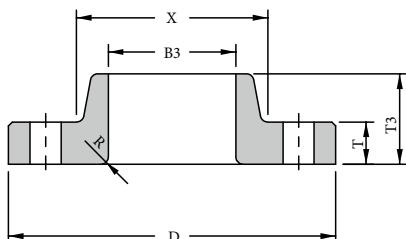
ANSI/ASME B 16.5

Nominal Pipe Size	Out- Side Diam	O.D of Raised Face	Diam at Base of Hub	Thickness	Broe			Length Thru Hub			Diam.of Hub at Bevel	Radius of Fillet	Threaded Length
					Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint			
	D	G	X	T	B1	B2	B3	T1	T2	T3	A	R	Q
1/2"	88.9	35.1	30.2	11.2	15.7	22.4	22.9	47.8	15.7	15.7	21.3	3.0	15.7
3/4"	98.6	42.9	38.1	12.7	20.8	27.7	28.2	52.3	15.7	15.7	26.7	3.0	15.7
1"	108.0	50.8	49.3	14.2	26.7	34.5	35.1	55.6	17.5	17.5	33.5	3.0	17.5
1-1/4"	117.0	63.5	58.7	15.7	35.1	43.2	43.7	57.2	20.6	20.6	42.2	4.8	20.6
1-1/2"	127.0	73.2	65.0	17.5	40.9	49.5	50.0	62.0	22.4	22.4	48.3	6.4	22.4
2"	152.4	91.9	77.7	19.1	52.6	62.0	62.5	63.5	25.4	25.4	60.5	7.9	28.4
2-1/2"	177.8	104.6	90.4	22.4	62.7	74.7	75.4	69.9	28.4	28.4	73.2	7.9	31.8
3"	190.5	127.0	108.0	23.9	78.0	90.7	91.4	69.9	30.2	30.2	88.9	9.7	31.8
3-1/2"	215.9	139.7	122.2	23.9	90.2	103.4	104.0	71.4	31.8	31.8	101.6	9.7	36.6
4"	228.6	157.2	134.9	23.9	102.4	116.1	116.8	76.2	33.3	33.3	114.3	11.2	36.6
5"	254.0	185.7	163.6	23.9	128.3	143.8	144.5	88.9	36.6	36.6	141.2	11.2	42.9
6"	279.4	215.9	192.0	25.4	154.2	170.7	171.5	88.9	39.6	39.6	168.4	12.7	46.0
8"	342.9	269.7	246.1	28.4	202.7	221.5	222.3	101.6	44.5	44.5	219.2	12.7	50.8
10"	406.4	323.9	304.8	30.2	254.5	276.4	277.4	101.6	49.3	49.3	273.1	12.7	55.6
12"	482.6	381.0	365.3	31.8	304.8	327.2	328.2	114.3	55.6	55.6	323.9	12.7	60.5
14"	533.4	412.8	400.1	35.1	336.6	359.2	360.2	127.0	57.2	79.2	355.6	12.7	63.5
16"	596.9	469.9	457.2	36.6	387.4	410.5	411.2	127.0	63.5	87.4	406.4	12.7	68.3
18"	635.0	533.4	505.0	39.6	438.2	461.8	462.3	139.7	68.3	96.8	457.2	12.7	69.9
20"	698.5	584.2	558.8	42.9	489.0	513.1	514.4	144.5	73.2	103.1	508.0	12.7	73.2
24"	812.8	692.2	663.4	47.8	590.6	616.0	616.0	152.4	82.6	111.3	609.6	12.7	82.6

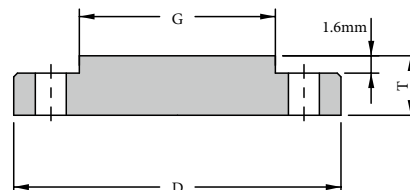
Class 150



Threaded



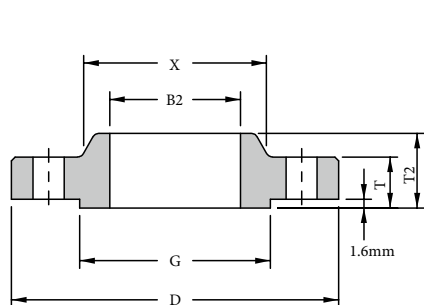
Lap Joint



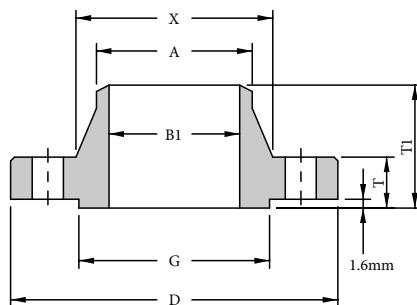
Blind

Nominal Pipe Size	Depth of Socket	Bore			Bolting			Approximate Weight					
		Bolt Circle Diam	Number of Holes	Diam of Holes	Diam of Bolt (inch)	Machine Bolt Length		Stud Bolt Length	Welding Neck	Slip-on and Threaded	Lap Joint	Blind	Socket Welding
	Y					Raised Face	Raised Face	Ring Joint	KG	KG	KG	KG	KG
1/2"	9.7	60.5	4	15.7	1/2"	50.8	57.2	-	0.52	0.47	0.51	0.47	0.47
3/4"	11.2	69.9	4	15.7	1/2"	50.8	63.5	-	0.52	0.75	0.70	0.63	0.76
1"	12.7	79.2	4	15.7	1/2"	57.2	63.5	76.2	1.00	0.86	0.93	0.95	0.87
1.1/4"	14.2	88.9	4	15.7	1/2"	57.2	69.9	82.6	1.40	1.40	1.40	1.40	1.43
1.1/2"	15.7	98.6	4	15.7	1/2"	63.5	69.9	82.6	1.81	1.41	1.51	1.62	1.45
2"	17.5	120.7	4	19.1	5/8"	69.9	82.6	95.3	2.80	2.26	2.38	2.64	2.33
2.1/2"	19.1	139.7	4	19.1	5/8"	76.2	88.9	101.6	4.28	3.43	3.60	4.06	3.55
3"	20.6	152.4	4	19.1	5/8"	76.2	88.9	101.6	5.18	4.00	4.04	5.00	4.15
3.1/2"	22.4	177.8	8	19.1	5/8"	76.2	88.9	101.6	5.50	5.00	4.99	5.90	5.00
4"	23.9	190.5	8	19.1	5/8"	76.2	88.9	101.6	7.32	5.75	5.96	7.50	5.99
5"	23.9	215.9	8	22.4	3/4"	82.6	95.3	108.0	8.91	6.51	6.44	9.00	6.96
6"	26.9	241.3	8	22.4	3/4"	82.6	101.6	114.3	11.26	7.81	7.70	12.00	8.41
8"	31.8	298.5	8	22.4	3/4"	88.9	108.0	120.7	18.00	13.00	12.66	20.00	13.93
10"	33.3	362.0	12	25.4	7/8"	101.6	114.3	127.0	25.00	17.10	17.00	30.00	19.50
12"	39.6	431.8	12	25.4	7/8"	101.6	120.7	133.4	38.98	27.68	28.30	44.00	29.03
14"	41.4	476.3	12	28.4	1"	114.3	133.4	146.1	51.71	35.20	41.50	64.00	38.56
16"	44.5	539.8	16	28.4	1"	114.3	133.4	146.1	64.41	45.00	52.98	78.00	47.37
18"	49.3	577.9	16	31.8	1.1/8"	127.0	146.1	158.8	74.84	54.00	68.00	95.00	58.72
20"	54.1	635.0	20	31.8	1.1/8"	139.7	158.8	171.5	89.36	73.00	85.00	125.00	77.81
24"	63.5	749.3	20	35.1	1.1/4"	152.4	171.5	184.2	119.66	96.00	120.00	190.00	100.75

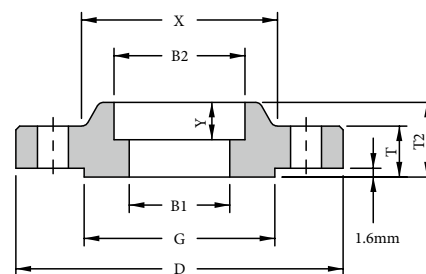
Class 300



Slip-on



Welding Neck

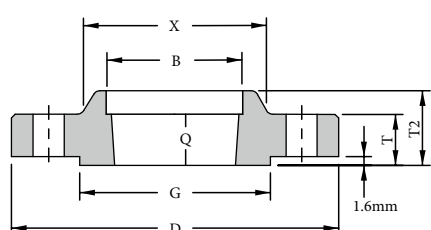


Socket Welding

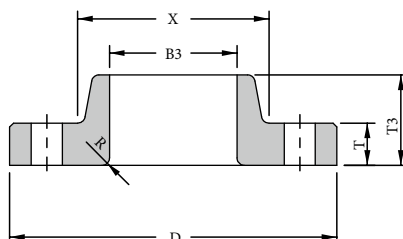
ANSI/ASME B 16.5

Nominal Pipe Size	Out-Side Diam	O.D of Raised Face	Diam at Base of Hub	Thick ness	Broe				Length Thru Hub			Diam.of Hub at Bevel	Radius of Fillet	Threaded 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			
	D	G	X	T	B1	B2	B3	B	T1	T2	T3	A	R	Q
1/2"	95.2	35.0	38.1	14.2	15.7	22.4	22.9	23.6	52.3	22.4	22.4	21.3	3.0	15.7
3/4"	117.3	42.9	47.8	15.7	20.8	27.7	28.2	29.0	57.2	25.4	25.4	26.7	3.0	15.7
1"	124.0	50.8	53.8	17.5	26.7	34.5	35.1	35.8	62.0	26.9	26.9	33.5	3.0	17.5
1-1/4"	133.4	63.5	63.5	19.1	35.1	43.2	43.7	44.5	65.0	26.9	26.9	42.2	4.8	20.6
1-1/2"	155.4	73.2	69.9	20.6	40.9	49.5	50.0	50.5	68.3	30.2	30.2	48.3	6.4	22.4
2"	165.1	91.9	84.1	22.1	52.6	62.0	62.5	63.5	69.9	33.3	33.3	60.5	7.9	28.4
2-1/2"	190.5	104.6	100.1	25.4	62.7	74.7	75.4	76.2	76.2	38.1	38.1	73.2	7.9	31.8
3"	209.6	127.0	117.3	28.4	78.0	90.7	91.4	92.2	79.2	42.9	42.9	88.9	9.7	31.8
3-1/2"	228.6	139.7	133.4	30.2	90.2	103.4	104.0	104.9	81.0	44.5	44.5	101.6	9.7	36.6
4"	254.0	157.2	146.1	31.8	102.4	116.1	116.8	117.6	85.9	47.8	47.8	114.3	11.2	36.6
5"	279.4	185.7	177.8	35.1	128.3	143.8	144.5	144.5	98.6	50.8	50.8	141.2	11.2	42.9
6"	317.5	215.9	206.2	36.6	154.2	170.7	171.5	171.5	98.6	52.6	52.3	168.4	12.7	46.0
8"	381.0	269.7	260.4	41.1	202.7	221.5	222.3	222.3	111.3	62.0	62.0	219.2	12.7	50.8
10"	444.5	323.9	320.5	47.8	254.5	276.4	277.4	276.4	117.3	66.5	95.3	273.1	12.7	55.6
12"	520.7	381.0	374.7	50.8	304.8	327.2	328.2	328.7	130.0	73.2	101.6	323.9	12.7	60.5
14"	584.2	412.8	425.5	53.8	336.6	359.2	360.2	360.4	142.7	76.2	111.3	355.6	12.7	63.5
16"	647.7	469.9	482.6	57.2	387.4	410.5	411.2	411.2	146.1	82.6	120.7	406.4	12.7	68.3
18"	711.2	533.4	533.4	60.5	438.2	461.8	462.3	462.0	158.8	88.9	130.0	457.2	12.7	69.9
20"	774.7	584.2	587.2	63.5	489.0	513.1	514.4	512.8	162.1	95.3	139.7	508.0	12.7	73.2
24"	914.4	692.2	701.5	69.8	590.6	616.0	616.0	614.4	168.1	106.4	152.4	609.6	12.7	82.6

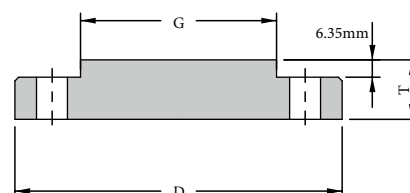
Class 300



Threaded



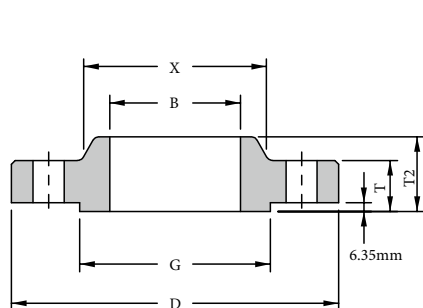
Lap Joint



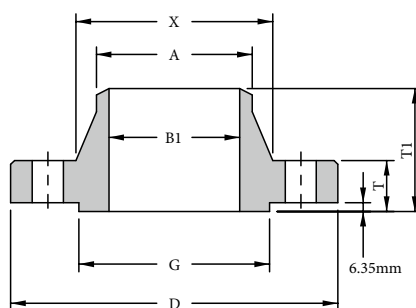
Blind

Nominal Pipe Size	Depth of Socket Y	Bore			Bolting			Approximate Weight					
		Bolt Circle Diam	Number of Holes	Diam of Holes	Diam of Bolt (inch)	Machine Bolt Length	Stud Bolt Length		Welding Neck KG	Slip-on and Threaded KG	Lap Joint KG	Blind KG	Socket Welding KG
							Raised Face	Ring Joint					
1/2"	9.7	66.5	4	15.7	1/2"	57.2	63.5	76.2	0.80	0.62	0.61	0.65	0.62
3/4"	11.2	82.6	4	19.1	5/8"	63.5	76.2	88.9	1.40	1.30	1.30	1.40	1.34
1"	12.7	88.9	4	19.1	5/8"	63.5	76.2	88.9	1.64	1.50	1.50	1.50	1.55
1.1/4"	14.2	98.6	4	19.1	5/8"	69.9	82.6	95.3	2.10	1.70	1.70	2.80	1.76
1.1/2"	15.7	114.3	4	22.4	3/4"	76.2	88.9	101.6	3.06	2.60	2.60	2.80	2.69
2"	17.5	127.0	8	19.1	5/8"	76.2	88.9	101.6	3.50	3.00	3.00	3.30	3.14
2.1/2"	19.1	149.4	8	22.4	3/4"	82.6	101.6	114.3	5.31	4.50	4.50	5.40	4.74
3"	20.6	168.1	8	22.4	3/4"	88.9	108.0	120.7	7.32	5.90	5.80	7.00	
3.1/2"	22.4	184.2	8	22.4	3/4"	95.3	108.0	127.0	8.20	7.72	7.72	9.53	6.29
4"	23.9	200.2	8	22.4	3/4"	95.3	114.3	127.0	11.30	10.13	10.07	12.00	-
5"	23.9	235.0	8	22.4	3/4"	108.0	120.7	133.4	15.12	13.00	13.00	16.00	-
6"	26.9	269.7	12	22.4	3/4"	108.0	120.7	139.7	20.00	17.00	16.00	22.00	-
8"	31.8	330.2	12	25.4	7/8"	120.7	139.7	152.4	30.48	26.00	25.00	36.00	-
10"	33.3	387.4	16	28.4	1"	139.7	158.8	171.5	43.74	34.16	39.32	55.34	-
12"	39.6	450.9	16	31.8	1.1/8"	146.1	171.5	184.2	64.41	51.26	60.00	80.00	-
14"	41.4	514.4	20	31.8	1.1/8"	158.8	177.8	190.5	88.30	75.00	85.00	110.00	-
16"	44.5	571.5	20	35.1	1.1/4"	165.1	190.5	203.2	115.00	94.00	112.00	139.25	-
18"	49.3	628.7	24	35.1	1.1/4"	171.5	196.9	209.6	143.00	109.00	135.00	178.00	-
20"	54.1	685.8	24	35.1	1.1/4"	184.2	203.2	222.3	175.00	136.00	165.00	223.17	-
24"	63.5	812.8	24	41.1	1.1/2"	203.0	228.6	254.0	260.00	245.00	250.00	355.00	-

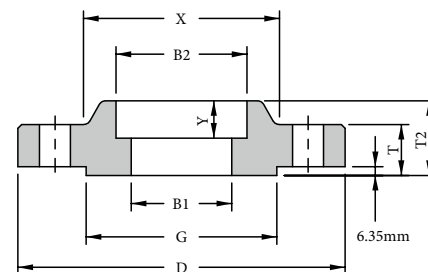
Class 600



Slip-on



Welding Neck

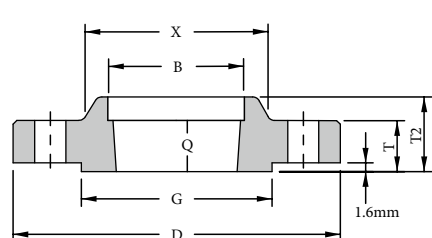


Socket Welding

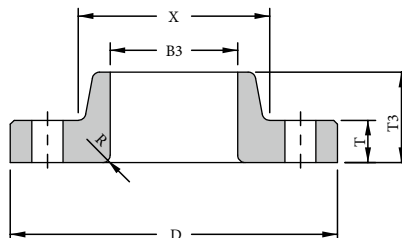
ANSI/ASME B 16.5

Nominal Pipe Size	Out- Side Diam	O.D of Raised Face	Diam at Base of Hub	Thick ness	Broe				Length Thru Hub			Diam.of Hub at Bevel	Radius of Fillet	Threaded 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			
					B1	B2	B3	B	T1	T2	T3			
1/2"	95	35.1	38.1	14.2	To Be Specified by Purchaser	22.4	22.9	23.6	52.3	22.4	22.4	21.3	3.0	15.7
3/4"	117	42.9	47.8	15.7		27.7	28.2	29.0	57.2	25.4	25.4	26.7	3.0	15.7
1"	124	50.8	53.8	17.5		34.5	35.1	35.8	62.0	26.9	26.9	33.4	3.0	17.5
1-1/4"	133	63.5	63.5	20.6		43.2	43.7	44.5	66.5	28.4	28.4	42.2	4.8	20.6
1-1/2"	155	73.2	69.9	22.4		49.5	50.0	50.5	69.9	31.8	31.8	48.3	6.4	22.4
2"	165	91.9	84.1	25.4		62.0	62.5	63.5	73.2	36.6	36.6	60.3	7.9	28.4
2-1/2"	191	104.6	100.1	28.4		74.7	75.4	76.2	79.2	41.1	41.1	73.0	7.9	31.8
3"	210	127.0	117.3	31.8		90.7	91.4	92.2	82.6	46.0	46.0	88.9	9.7	35.1
3-1/2"	229	139.7	133.4	35.1		103.4	104.1	104.9	85.9	49.3	49.3	101.6	9.7	39.6
4"	273	157.2	152.4	38.1		116.1	116.8	117.6	101.6	53.8	53.8	114.3	11.2	41.1
5"	330	185.7	189.0	44.5		143.8	144.5	144.5	114.3	60.5	60.5	141.2	11.2	47.8
6"	356	215.9	222.3	47.8		170.7	171.5	171.5	117.3	66.5	66.5	168.4	12.7	50.8
8"	419	269.7	273.1	55.6		221.5	222.3	222.3	133.4	76.2	76.2	219.1	12.7	57.2
10"	508	323.9	342.9	63.5		276.4	277.4	276.4	152.4	85.9	111.3	273.0	12.7	65.0
12"	559	381.0	400.1	66.5		327.2	328.7	328.7	155.4	91.9	117.3	323.8	12.7	69.9
14"	603	412.8	431.8	69.9		359.2	360.2	360.4	165.1	93.7	127.0	355.6	12.7	73.2
16"	686	469.9	495.3	76.2		410.5	411.2	411.2	177.8	106.4		406.4	12.7	77.7
18"	743	533.4	546.1	82.6		461.8	462.3	462.0	184.2	117.3	139.7	457.2	12.7	79.2
20"	813	584.2	609.6	88.9		513.1	514.4	512.8	190.5	127.0	152.4	508.0	12.7	82.6
24"	940	692.2	717.6	101.6		616.0	616.0	614.4	203.2	139.7	184.2	609.6	12.7	92.0

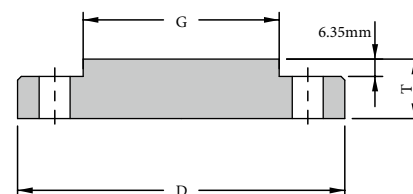
Class 600



Threaded



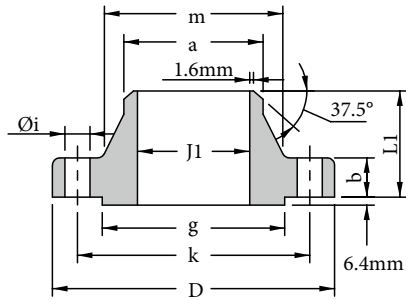
Lap Joint



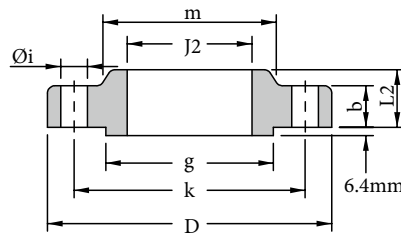
Blind

Nominal Pipe Size	Depth of Socket	Bore			Bolting				Approximate Weight				
		Bolt Circle Diam	Number of Holes	Diam of Holes	Diam of Bolt (inch)	Machine Bolt Length 0.25"Raised Face	Stud Bolt Length		Welding Neck KG	Slip-on and Threaded KG	Lap Joint KG	Blind KG	Socket Welding KG
	Male Tongue Groove						Ring Joint						
1/2"	9.7	66.5	4	15.7	1/2"	76.2	69.9	76.2	0.98	0.98	0.98	0.98	0.98
3/4"	11.2	82.6	4	19.1	5/8"	88.9	82.6	88.9	1.60	1.40	1.40	1.40	1.36
1"	12.7	88.9	4	19.1	5/8"	88.9	82.6	88.9	2.00	2.00	2.00	2.00	2.11
1.1/4"	14.2	98.6	4	19.1	5/8"	95.3	88.9	95.3	2.80	2.70	2.70	2.70	3.03
1.1/2"	15.7	114.3	4	22.4	3/4"	108.0	101.6	108.0	3.80	3.80	3.80	3.80	3.88
2"	17.5	127.0	8	19.1	5/8"	108.0	101.6	108.0	4.54	4.10	4.00	4.60	4.37
2.1/2"	19.1	149.4	8	22.4	3/4"	120.7	114.3	120.7	8.20	5.90	5.90	6.80	6.36
3"	20.6	168.1	8	22.4	3/4"	127.0	120.7	127.0	8.80	7.30	7.30	8.90	
3.1/2"	22.4	184.2	8	25.4	7/8"	139.7	133.4	139.7	12.00	9.53	9.40	13.17	
4"	23.9	215.9	8	25.4	7/8"	146.1	139.7	146.1	17.00	17.00	17.00	18.60	-
5"	23.9	266.7	8	28.4	1"	165.1	158.8	165.1	31.00	29.00	29.00	30.84	-
6"	26.9	292.1	12	28.4	1"	171.5	165.1	171.5	36.77	36.32	36.00	39.00	-
8"	31.8	349.3	12	31.8	1.1/8"	190.5	184.2	196.9	55.00	52.00	52.00	64.00	-
10"	33.3	431.8	16	35.1	1.1/4"	215.9	209.6	215.9	90.00	77.00	77.00	102.00	-
12"	39.6	489.0	20	35.1	1.1/4"	222.3	215.9	222.3	110.00	97.52	108.86	132.00	-
14"	41.4	527.1	20	38.1	1.3/8"	235.0	228.6	235.0	127.00	102.00	113.00	159.00	-
16"	44.5	603.3	20	41.1	1.1/2"	254.0	247.7	254.0	177.06	149.82	165.71	224.73	-
18"	49.3	654.1	20	44.5	1.5/8"	276.1	266.7	273.1	215.65	182.00	197.00	285.00	-
20"	54.1	723.9	24	44.5	1.5/8"	285.8	279.4	292.1	267.86	231.54	260.00	365.00	-
24"	63.5	838.2	24	50.8	1.7/8"	330.2	323.9	336.6	372.00	330.00	370.00	565.00	-

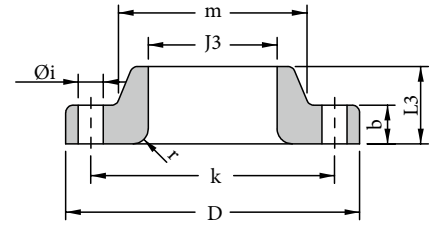
Class 900



Welding Neck



Slip-on

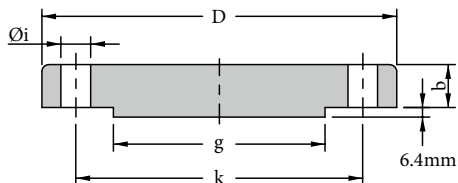


Lap Joint

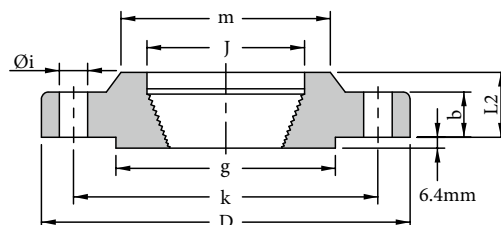
ANSI/ASME B 16.5

Pipe		Outside Diam	Bore				Thickness	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
DN	OD	D	J1	J2	J3	J	b	L1	L2	L3
1/2"	0.84		To Be Specified by Purchaser							
15	21.3									
3/4"	1.05									
20	26.7									
1"	1.315									
25	33.4									
1-1/4"	1.66									
32	42.2									
1-1/2"	1.90									
40	48.3									
2"	2.375									
50	60.3									
2-1/2"	2.875									
65	73.0									
3"	3.50	9.5		3.57	3.60	3.63	1.50	4.00	2.12	2.12
80	88.9	241.3		90.7	91.4	92.2	38.1	101.6	53.8	53.8
4"	4.50	11.5		4.57	4.60	4.63	1.75	4.50	2.75	2.75
100	114.3	292.1		116.1	116.8	117.6	44.4	114.3	69.9	69.9
5"	5.563	13.75		5.66	5.69	5.69	2.00	5.00	3.12	3.12
125	141.3	349.3		143.8	144.5	144.5	50.8	127.0	79.2	79.2
6"	6.625	15.00		6.72	6.75	6.75	2.19	5.50	3.38	3.38
150	168.3	381.0		170.7	171.5	171.5	55.6	139.7	85.9	85.9
8"	8.625	18.50		8.72	8.75	8.75	2.50	6.38	4.00	4.50
200	219.1	469.9		221.5	222.2	222.3	63.5	162.1	101.6	114.3
10"	10.75	21.50		10.88	10.92	10.88	2.75	7.25	4.25	5.00
250	273.0	546.1		276.4	277.4	276.4	69.9	184.2	107.9	127.0
12"	12.75	24.00		12.88	12.92	12.94	3.12	7.88	4.62	5.62
300	323.8	609.6		327.2	328.2	328.7	79.2	200.2	117.3	142.7
14"	14.0	25.25		14.14	14.18	14.19	3.38	8.38	5.12	6.12
350	355.6	641.4		359.2	360.2	360.4	85.9	212.9	130.0	155.4
16"	16.0	27.75		16.16	16.19	16.19	3.50	8.50	5.25	6.50
400	406.4	704.9		410.5	411.2	411.2	88.9	215.9	133.4	165.1
18"	18.0	31.00		18.18	18.20	8.19	4.00	9.00	6.00	7.50
450	457.2	787.4		461.8	462.3	462.0	101.6	228.6	152.4	190.5
20"	20.0	33.75		20.20	20.25	20.19	4.25	9.75	6.00	8.25
500	508.0	857.3		513.1	514.4	512.8	108.0	247.7	158.8	209.6
24"	24.0	41.00		24.25	24.25	24.19	5.50	11.50	8.00	10.50
600	609.6	1041.4		616.0	616.0	614.4	139.7	292.1	203.2	266.7

Class 900



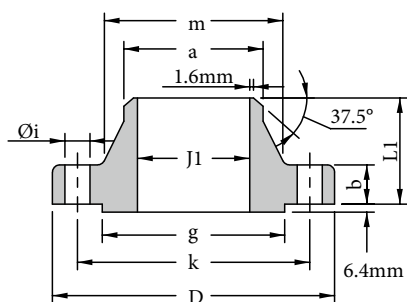
Blind



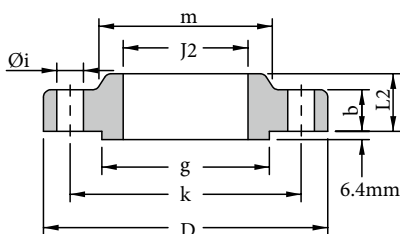
Threaded Type: Standard Taper Pipe Thread to ANSI B 2.1
Threaded

Diam of Hub at Bevel	Diam at Base of Hub	O.D. of Raised Face	Radius of Fillet	Threaded Length	Drilling			Pipe	
					Number of Holes	Diam of Holes	Bolt Circle Diam.		
a	m	g	r	h1		i	k	OD	Size
Use 1500lb dimension for these sizes								0.84 21.3	1/2" 15
								1.05 26.7	3/4" 20
								1.315 33.4	1" 25
								1.66 42.2	1.1/4" 32
								1.902 48.3	1.1/2" 40
								2.375 60.3	2" 50
								2.875 73.0	2.1/2" 65
3.50 88.9	5.00 127	5.00 127.0	0.38 9.7	1.62 41.1	8	1.00 25.4	7.50 190.5	3.50 88.9	3" 80
4.50 114.3	6.25 158.7	6.19 157.2	0.44 11.2	1.88 47.8	8	1.25 31.8	9.25 234.9	4.50 114.3	4" 100
5.563 141.3	7.50 190.5	7.31 185.7	0.44 11.2	2.12 53.8	8	1.38 35.1	11.00 279.4	5.563 141.3	5" 125
6.625 168.3	9.25 235	8.50 215.9	0.50 12.7	2.25 57.2	12	1.25 31.8	12.50 317.5	6.625 168.3	6" 150
8.625 219.1	11.75 298.5	10.62 269.7	0.50 12.7	2.50 63.5	12	1.50 38.1	15.50 393.7	8.625 219.1	8" 200
10.75 273.0	14.50 368.3	12.75 323.9	0.50 12.7	2.81 71.4	16	1.50 38.1	18.50 469.9	10.75 273.0	10" 250
12.75 323.8	16.50 419.1	15.00 381.0	0.50 12.7	3.00 76.2	20	1.50 38.1	21.00 533.4	12.75 323.8	12" 300
14.0 355.6	17.75 450.9	16.25 412.8	0.50 12.7	3.25 82.6	20	1.62 41.1	22.00 558.8	14.0 355.6	14" 350
16.0 406.4	20.00 508	18.50 469.9	0.50 12.7	3.38 85.9	20	1.75 44.5	24.25 616.0	16.0 406.4	16" 400
18.0 457.2	22.25 565.2	21.00 533.4	0.50 12.7	3.50 88.9	20	2.00 50.8	27.00 685.8	18.0 457.2	18" 450
20.0 508.0	24.50 622.3	23.00 584.2	0.50 12.7	3.62 91.9	20	2.12 53.8	29.50 749.3	20.0 508.0	20" 500
24.0 609.6	29.50 749.3	27.25 692.2	0.50 12.7	4.00 101.6	20	2.62 66.5	35.50 901.7	24.0 609.6	24" 600

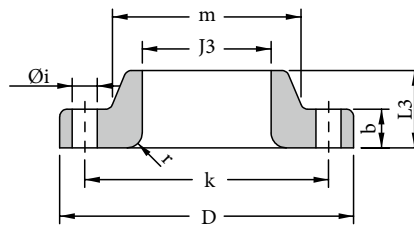
Class 1500



Welding Neck



Slip-on

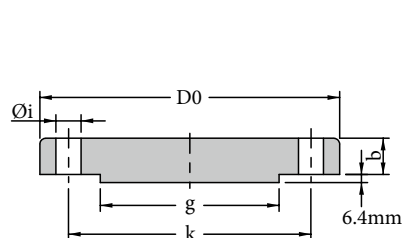


Lap Joint

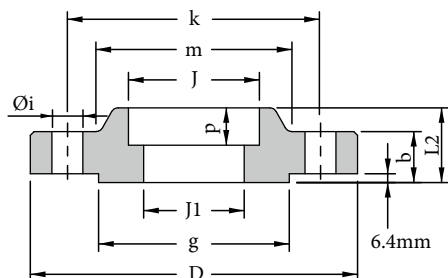
ANSI/ASME B 16.5

Pipe		Outside Diam	Bore				Thickness	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
DN	OD	D	J1	J2	J3	J	b	L1	L2	L3
1/2"	0.84	4.75	To Be Specified by Purchaser	0.88	0.90	0.93	0.88	2.38	1.25	1.25
15	21.3	120.7		22.4	22.9	23.6	22.4	60.5	31.8	31.8
3/4"	1.05	5.12		1.09	1.11	1.14	1.00	2.75	1.38	1.38
20	26.7	130.0		27.7	28.2	29.0	25.4	69.9	35.1	35.1
1"	1.315	5.88		1.36	1.38	1.41	1.12	2.88	1.62	1.62
25	33.4	149.4		34.5	35.1	35.8	28.4	73.2	41.1	41.1
1-1/4"	1.66	6.25		1.70	1.72	1.75	1.12	2.88	1.62	1.62
32	42.2	158.8		43.2	43.7	44.5	28.4	73.2	41.1	41.1
1-1/2"	1.90	7.00		1.95	1.97	1.99	1.25	3.25	1.75	1.75
40	48.3	177.8		49.5	50.0	50.0	31.8	82.6	44.5	44.5
2"	2.375	8.50		2.44	2.46	2.50	1.50	4.00	2.25	2.25
50	60.3	215.9		62.0	62.5	63.5	38.1	101.6	57.2	57.2
2-1/2"	2.875	9.62		2.94	2.97	3.00	1.62	4.12	2.50	2.50
65	73.0	244.3		74.7	75.4	76.2	41.1	104.6	63.5	63.5
3"	3.50	10.50		-	3.60	3.63	1.88	4.62	-	2.88
80	88.9	266.7		-	91.4	92.2	47.8	117.3	-	73.2
4"	4.50	12.25		-	4.60	4.63	2.12	4.88	-	3.56
100	114.3	311.2		-	116.8	117.6	53.8	124.0	-	90.4
5"	5.563	14.75		-	5.69	5.69	2.88	6.12	-	4.12
125	141.3	374.7		-	144.5	144.5	73.2	155.4	-	104.6
6"	6.625	15.50		-	6.75	6.75	3.25	6.75	-	4.69
150	168.3	393.7		-	171.5	171.5	82.6	171.5	-	119.1
8"	8.625	19.00		-	8.75	8.75	3.62	8.38	-	5.62
200	219.1	482.6		-	222.3	222.3	91.9	212.9	-	142.8
10"	10.75	23.00		-	10.92	10.88	4.25	10.00	-	7.00
250	273.0	584.2		-	277.4	276.4	108.0	254.0	-	177.8
12"	12.75	26.50		-	12.92	12.94	4.88	11.12	-	8.62
300	323.8	673.1		-	328.2	328.7	124.0	282.4	-	218.9
14"	14.0	29.50		-	14.18	-	5.25	11.75	-	9.50
350	355.6	749.3		-	360.2	-	133.4	298.5	-	241.3
16"	16.0	32.50		-	16.19	-	5.75	12.25	-	10.25
400	406.4	825.5		-	411.2	-	146.1	311.2	-	260.4
18"	18.0	36.00		-	18.20	-	6.38	12.88	-	10.88
450	457.2	914.4		-	462.3	-	162.1	327.2	-	276.4
20"	20.0	38.75		-	20.25	-	7.00	14.00	-	11.50
500	508.0	984.3		-	514.4	-	177.8	355.6	-	292.1
24"	24.0	46.00		-	24.25	-	8.00	16.00	-	13.00
600	609.6	1168.4		-	616.0	-	203.2	406.4	-	330.2

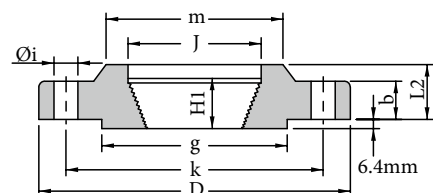
Class 1500



Blind



Socket Welding

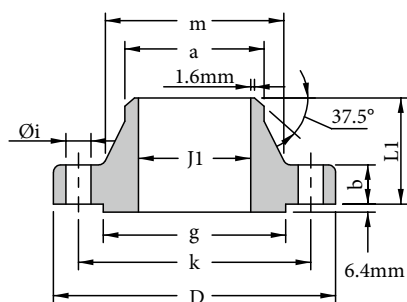


Threaded Type: Standard Taper Pipe Thread to ANSI B 2.1

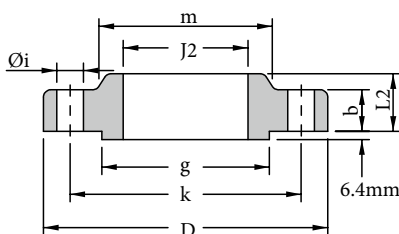
Threaded

Diam of Hub at Bevel	Diam at Base of Hub	O.D. of Raised Face	Radius of Fillet	Threaded Length	Drilling			Pipe	
					Number of Holes	Diam of Holes	Bolt Circle Diam.		
a	m	g	r	h1		i	k	OD	Size
0.84 21.3	1.50 38.1	1.38 35.1	0.12 3.0	0.88 22.4	0.38 9.7	4	0.88 22.4	0.84 82.6	1/2" 15
1.05 26.7	1.75 44.5	1.69 42.9	0.12 3.0	1.00 25.4	0.44 11.2	4	0.88 22.4	1.05 88.9	3/4" 20
1.315 33.4	2.06 52.3	2.00 50.8	0.12 3.0	1.12 28.4	0.50 12.7	4	1.00 25.4	1.315 101.6	1" 25
1.66 42.2	2.50 63.5	2.50 63.5	0.19 4.8	1.19 30.2	0.56 14.2	4	1.00 25.4	1.66 111.3	1.1/4" 32
1.90 48.3	2.75 69.9	2.88 73.2	0.25 6.4	1.25 31.8	0.62 15.7	4	1.12 28.4	1.90 124.0	1.1/2" 40
2.375 60.3	4.12 104.6	3.62 91.9	0.31 7.9	1.50 38.1	0.69 17.5	8	1.00 25.4	2.375 165.1	2" 50
2.875 73.0	4.88 124.0	4.12 104.6	0.31 7.9	1.88 47.8	0.75 19.1	8	1.12 28.4	2.875 190.5	2.1/2" 65
3.50 88.9	5.25 133.4	5.00 127.0	0.38 9.7	2.00 50.8	-	8	1.25 31.8	3.50 203.2	3" 80
4.50 114.3	6.38 162.1	6.19 157.2	0.44 11.2	2.25 57.2	-	8	1.38 35.1	4.50 241.3	4" 100
5.563 141.3	7.75 196.9	7.31 185.7	0.44 11.2	2.50 63.5	-	8	1.62 41.1	5.563 292.1	5" 125
6.625 168.3	9.00 228.6	8.50 215.9	0.50 12.7	2.75 69.9	-	12	1.50 38.1	6.625 317.5	6" 150
8.625 219.1	11.5 292.1	10.62 269.7	0.50 12.7	3.00 76.2	-	12	1.75 44.5	8.625 393.7	8" 200
10.75 273.0	14.50 368.3	12.75 323.9	0.50 12.7	3.31 84.1	-	12	2.00 50.8	10.75 482.6	10" 250
12.75 323.8	17.75 450.9	15.00 381.0	0.50 12.7	3.62 91.9	-	16	2.12 53.8	12.75 571.5	12" 300
14.0 355.6	19.50 495.3	16.25 412.8	0.50 12.7	-	-	16	2.38 60.5	14.0 635.9	14" 350
16.0 406.4	21.75 552.5	18.50 469.9	0.50 12.7	-	-	16	2.62 66.5	16.0 704.9	16" 400
18.0 457.2	23.50 596.9	21.00 533.4	0.50 12.7	-	-	16	2.88 73.2	18.0 774.7	18" 450
20.0 508.0	25.25 641.4	23.00 584.2	0.50 12.7	-	-	16	3.12 79.2	20.0 831.9	20" 500
24.0 609.6	30.00 762.0	27.25 692.2	12.7	-	-	16	3.62 91.9	24.0 990.6	24" 600

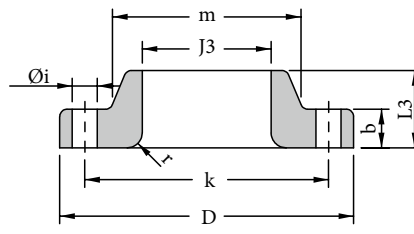
Class 2500



Welding Neck



Slip-on

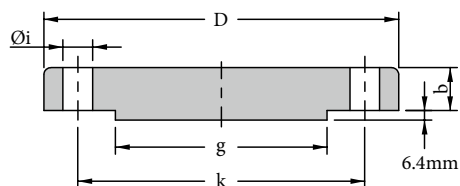


Lap Joint

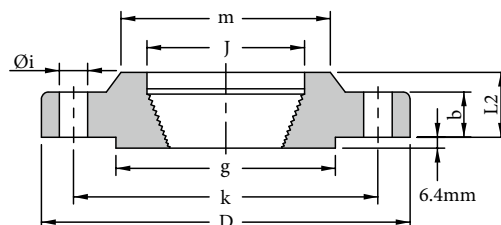
ANSI/ASME B 16.5

Pipe		Outside Diam	Bore				Thickness	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
DN	OD	D	J1	J2	J3	J	b	L1	L2	L3
1/2" 15	0.84 21.3	5.25 133.4	To Be Specified by Purchaser	0.88 22.4	0.90 22.9	0.93 23.6	1.19 30.2	2.88 73.2	1.56 39.6	1.56 39.6
3/4" 20	1.05 26.7	5.50 139.7		1.09 27.7	1.11 28.2	1.14 29.0	1.25 31.8	3.12 79.2	1.69 42.9	1.69 42.9
1" 25	1.315 33.4	6.25 158.8		1.36 34.5	1.38 35.1	1.41 35.8	1.38 35.1	3.50 88.9	1.88 47.8	1.88 47.8
1-1/4" 32	1.66 42.2	7.25 184.2		1.70 43.2	1.72 43.7	1.75 44.5	1.50 38.1	3.75 95.3	2.06 52.3	2.06 52.3
1-1/2" 40	1.90 48.3	8.00 203.2		1.95 49.5	1.97 50.0	1.99 50.0	1.75 44.5	4.38 111.3	2.38 60.5	2.38 60.5
2" 50	2.375 60.3	9.25 235.0		2.44 62.0	2.46 62.5	2.50 63.5	2.00 50.8	5.00 127.0	2.75 69.9	2.75 69.9
2-1/2" 65	2.875 73.0	10.50 266.7		2.94 74.7	2.97 75.4	3.00 76.2	2.25 57.2	5.62 142.7	3.12 79.2	3.12 79.2
3" 80	3.50 88.9	12.00 304.8		3.57 90.7	3.60 91.4	3.63 92.2	2.62 66.5	6.62 168.1	3.62 91.9	3.62 91.9
4" 100	4.50 114.3	14.00 355.6		4.57 116.1	4.60 116.8	4.63 117.6	3.00 76.2	7.50 190.5	4.25 108.0	4.25 108.0
5" 125	5.563 141.3	16.50 419.1		5.66 143.8	5.69 144.5	5.69 144.5	3.62 91.9	9.00 228.6	5.12 130.0	5.12 130.0
6" 150	6.625 168.3	19.00 482.6		6.72 170.7	6.75 171.5	6.75 171.5	4.25 108.0	10.75 273.1	6.00 152.4	6.00 152.4
8" 200	8.625 219.1	21.75 552.5		8.72 221.5	8.75 222.3	8.75 222.3	5.00 127.0	12.50 317.5	7.00 177.8	7.00 177.8
10" 250	10.75 273.0	26.50 673.1		10.88 276.4	10.92 277.4	10.88 276.4	6.50 165.1	16.50 419.1	9.00 228.6	9.00 228.6
12" 300	12.75 323.8	30.00 762.0		12.88 327.2	12.92 328.2	12.94 328.7	7.25 184.2	18.25 463.6	10.00 254.0	10.00 254.0

Class 2500



Blind

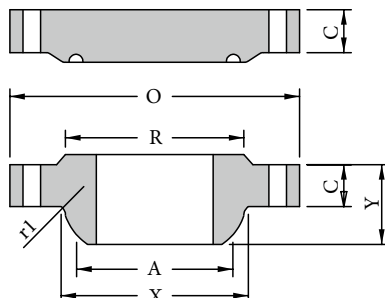


Threaded Type: Standard Taper Pipe Thread to ANSI B 2.1

Threaded

Diam of Hub at Bevel	Diam at Base of Hub	O.D.of Raised Face	Radius of Fillet	Threaded Length	Drilling			Pipe	
					Number of Holes	Diam of Holes	Bolt Circle Diam.		
a	m	g	r	h1		i	k	OD	Size
0.84 21.3	1.69 42.9	1.38 35.1	0.12 3.0	0.12 8.4	4	0.88 22.4	3.50 88.9	0.84 21.3	1/2" 15
1.05 26.7	2.00 50.8	1.69 42.9	0.12 3.0	1.25 31.8	4	0.88 22.4	3.75 95.3	1.05 26.7	3/4" 20
1.315 33.4	2.25 57.2	2.00 50.8	0.12 3.0	1.38 35.1	4	1.00 25.4	4.25 108.0	1.315 33.4	1" 25
1.66 42.2	2.88 73.2	2.50 63.5	0.19 4.8	1.50 38.1	4	1.12 28.4	5.12 130.0	1.66 42.2	1.1/4" 32
1.90 48.3	3.12 79.2	2.88 73.2	0.25 6.4	1.75 44.5	4	1.25 31.8	5.75 146.1	1.90 48.3	1.1/2" 40
2.375 60.3	3.75 95.3	3.62 91.9	0.31 7.9	2.00 50.8	8	1.12 28.4	6.75 171.5	2.375 60.3	2" 50
2.875 73.0	4.50 114.3	4.12 104.6	0.31 7.9	2.25 57.2	8	1.25 31.8	7.75 196.9	2.875 73.0	2.1/2" 65
3.50 88.9	5.25 133.4	5.00 127.0	0.38 9.7	2.50 63.5	8	1.38 35.1	9.00 228.6	3.50 88.9	3" 80
4.50 114.3	6.50 165.1	6.19 157.2	0.44 11.2	2.75 69.9	8	1.62 41.1	10.75 273.1	4.50 114.3	4" 100
5.563 141.3	8.00 203.2	7.31 185.7	0.44 11.2	3.00 76.2	8	1.88 47.8	12.75 323.9	5.563 141.3	5" 125
6.625 168.3	9.25 235.0	8.50 215.9	0.50 12.7	3.25 82.6	8	2.12 53.8	14.50 368.3	6.625 168.3	6" 150
8.625 219.1	12.00 304.8	10.62 269.7	0.50 12.7	3.75 95.3	12	2.12 53.8	17.25 438.2	8.625 219.1	8" 200
10.75 273.0	14.75 374.7	12.75 323.9	0.50 12.7	4.25 108.0	12	2.62 66.5	21.25 539.8	10.75 273.0	10" 250
12.75 323.8	17.38 441.5	15.00 381.0	0.50 12.7	4.75 120.7	12	2.88 73.2	24.38 619.3	12.75 323.8	12" 300

Class 150 Series A

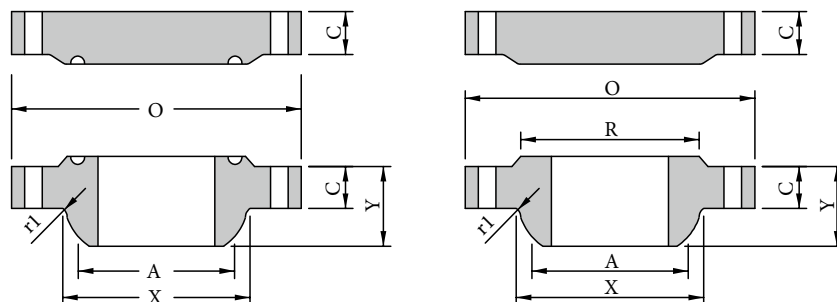


ANSI/ASME B 16.47

Unit: inch

Normal Pipe Size	Outside Diam	Thickness		Length Through Hud	Diam at Base of Hub	Diam of Hub at Bevel	Raised Face	Bolt			Diam of Bolt	Fillet radius min.
		WN	BL					Bolt Circle	No.	Diam of Holes		r ¹
	O	C	C	Y	X	A	R					
26	34.25	2.69	2.69	4.75	26.62	26.00	29.50	31.75	24	1.38	1.1/4"	0.38
28	36.50	2.81	2.81	4.94	28.62	28.00	31.50	34.00	28	1.38	1.1/4"	0.44
30	38.75	2.94	2.94	5.38	30.75	30.00	33.75	36.00	28	1.38	1.1/4"	0.44
32	41.75	3.19	3.19	5.69	32.75	32.00	36.00	38.50	28	1.62	1.1/2"	0.44
34	43.75	3.25	3.25	5.88	34.75	34.00	38.00	40.50	32	1.62	1.1/2"	0.50
36	46.00	3.56	3.56	6.19	36.75	36.00	40.25	42.75	32	1.62	1.1/2"	0.50
38	48.75	3.44	3.44	6.29	39.00	38.00	42.25	45.25	32	1.62	1.1/2"	0.50
40	50.75	3.56	3.56	6.44	41.00	40.00	44.25	47.25	36	1.62	1.1/2"	0.50
42	53.00	3.81	3.81	6.75	43.00	42.00	47.00	49.50	36	1.62	1.1/2"	0.50
44	55.25	4.00	4.00	7.00	45.00	44.00	49.00	51.75	40	1.62	1.1/2"	0.50
46	57.25	4.06	4.06	7.31	47.12	46.00	51.00	53.75	40	1.62	1.1/2"	0.50
48	59.50	4.25	4.25	7.56	49.12	48.00	53.50	56.00	44	1.62	1.1/2"	0.50
50	61.75	4.38	4.38	8.00	51.25	50.00	55.50	58.25	44	1.88	1.3/4"	0.50
52	64.00	4.56	4.56	8.25	53.25	52.00	57.50	60.50	44	1.88	1.3/4"	0.50
54	66.25	4.75	4.75	8.50	55.25	54.00	59.5	62.75	44	1.88	1.3/4"	0.50
56	68.75	4.88	4.88	9.00	57.38	56.00	62	65	48	1.88	1.3/4"	0.50
58	71.00	5.06	5.06	9.25	59.38	58.00	64	67.25	48	1.88	1.3/4"	0.50
60	73.00	5.19	5.19	9.44	61.38	60.00	66	69.25	52	1.88	1.3/4"	0.50

Class 300 Series A

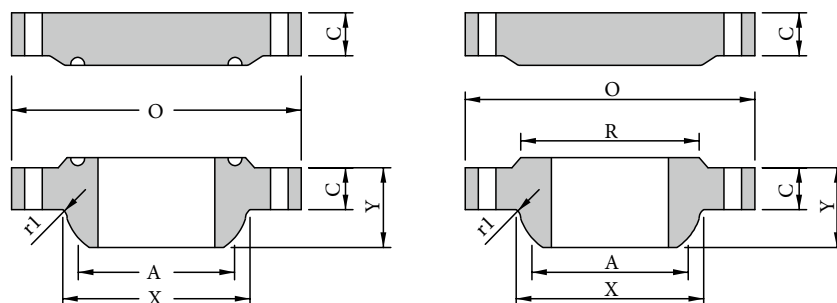


ANSI/ASME B 16.47

Unit: inch

Normal Pipe Size	Outside Diam	Thickness		Length Through Hud	Diam at Base of Hub	Diam of Hub at Bevel	Raised Face	Bolt			Diam of Bolt	Fillet radius min. r ¹
		WN	BL					Bolt Circle	No.	Diam of Holes		
	O	C	C	Y	X	A	R					
26	38.25	3.12	3.31	7.25	28.38	26.00	29.50	34.50	28	1.75	1.5/8	0.38
28	40.75	3.38	3.56	7.25	30.50	28.00	31.50	37.00	28	1.75	1.5/8	0.44
30	43.00	3.62	3.75	8.25	32.56	30.00	33.75	39.25	28	1.88	1.3/4	0.44
32	45.25	3.88	3.94	8.75	34.69	32.00	36.00	41.50	28	2.00	1.7/8	0.44
34	47.50	4.00	4.12	9.12	36.88	34.00	38.00	43.50	28	2.00	1.7/8	0.50
36	50.00	4.12	4.38	9.50	39.00	36.00	40.25	46.00	32	2.12	2	0.50
38	46.00	4.25	4.25	7.12	39.12	38.00	40.50	43.00	32	1.62	1.1/2	0.50
40	48.75	4.50	4.50	7.62	41.25	40.00	42.75	45.50	32	1.75	1.5/8	0.50
42	50.75	4.69	4.69	7.88	43.25	42.00	44.75	47.50	32	1.75	1.5/8	0.50
44	53.25	4.88	4.88	8.12	45.25	44.00	47.00	49.75	32	1.88	1.3/4	0.50
46	55.75	5.06	5.06	8.50	47.38	46.00	49.00	52.00	28	2.00	1.7/8	0.50
48	57.55	5.25	5.25	8.81	49.38	48.00	51.25	54.00	32	2.00	1.7/8	0.50
50	60.25	5.50	5.50	9.12	51.38	50.00	53.50	56.25	32	2.12	2	0.50
52	62.25	5.69	5.69	9.38	53.38	52.00	55.50	58.25	32	2.12	2	0.50
54	65.25	6.00	6.00	9.94	55.50	54.00	57.75	61.00	28	2.38	2.1/4	0.50
56	67.25	6.06	6.06	10.25	57.62	56.00	59.75	63.00	28	2.38	2.1/4	0.50
58	69.25	6.25	6.25	10.50	59.62	58.00	62.00	65.00	28	2.38	2.1/4	0.50
60	71.25	6.44	6.44	10.75	61.62	60.00	64.00	67.00	32	2.38	2.1/4	0.50

Class 400 Series A

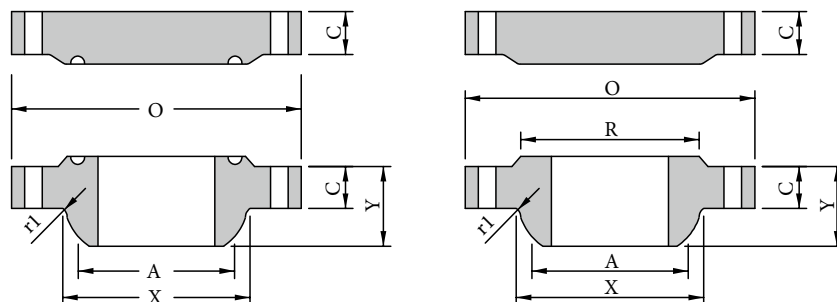


ANSI/ASME B 16.47

Unit:inch

Normal Pipe Size	Outside Diam	Thickness		Length Through Hud	Diam at Base of Hub	Diam of Hub at Bevel	Raised Face	Bolt			Diam of Bolt	Fillet radius min. r ¹
		WN	BL					Bolt Circle	No.	Diam of Holes		
	O	C	C	Y	X	A	R					
26	38.25	3.50	3.88	7.62	28.62	26.00	29.50	34.50	28	1.88	1.3/4	0.44
28	40.75	3.75	4.12	8.12	30.81	28.00	31.50	37.00	28	2.00	1.7/8	0.50
30	43.00	4.00	4.38	8.62	32.94	30.00	33.75	39.25	28	2.12	2	0.50
32	45.25	4.25	4.56	9.12	35.00	32.00	36.00	41.50	28	2.12	2	0.50
34	47.50	4.38	4.81	9.50	37.19	34.00	38.00	43.50	28	2.12	2	0.56
36	50.00	4.50	5.06	9.88	39.38	36.00	40.25	46.00	32	2.12	2	0.56
38	47.50	4.88	4.88	8.12	39.50	38.00	40.75	44.00	32	1.88	1.3/4	0.56
40	50.00	5.12	5.12	8.50	41.50	40.00	43.00	46.25	32	2.00	1.7/8	0.56
42	52.00	5.25	5.25	8.81	43.62	42.00	45.00	48.25	32	2.00	1.7/8	0.56
44	54.50	5.50	5.50	9.18	45.62	44.00	47.25	50.50	32	2.12	2	0.56
46	56.75	5.75	5.75	9.62	47.75	46.00	49.50	52.75	36	2.12	2	0.56
48	59.50	6.00	6.00	10.12	49.88	48.00	51.50	55.25	28	2.38	2.1/4	0.56
50	61.75	6.19	6.25	10.56	52.00	50.00	53.62	57.50	32	2.38	2.1/4	0.56
52	63.75	6.38	6.44	10.88	54.00	52.00	55.62	59.50	32	2.38	2.1/4	0.56
54	67.00	6.69	6.75	11.38	56.12	54.00	57.88	62.25	28	2.62	2.1/2	0.56
56	69.00	6.88	6.94	11.75	58.25	56.00	60.12	64.25	32	2.62	2.1/2	0.56
58	71.00	7.00	7.12	12.06	60.25	58.00	62.12	66.25	32	2.62	2.1/2	0.56
60	74.25	7.31	7.44	12.56	62.38	60.00	64.38	69.00	32	2.88	2.3/4	0.56

Class 600 Series A

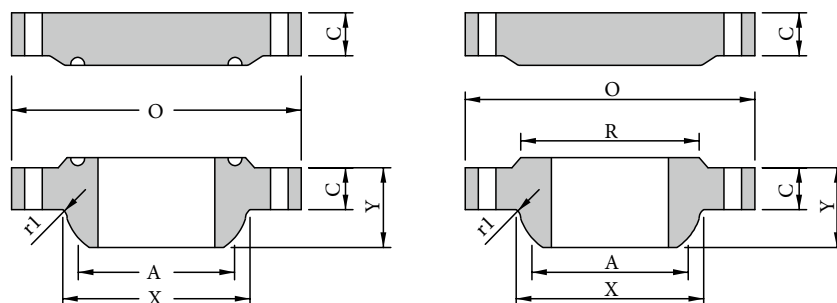


ANSI/ASME B 16.47

Unit: inch

Normal Pipe Size	Outside Diam	Thickness		Length Through Hud	Diam at Base of Hub	Diam of Hub at Bevel	Raised Face	Bolt			Diam of Bolt	Fillet radius min. r ¹
		WN	BL					Bolt Circle	No.	Diam of Holes		
	O	C	C	Y	X	A	R					
26	40.00	4.25	4.94	8.75	29.44	26.00	29.50	36.00	28	2.00	1.7/8	0.50
28	42.25	4.38	5.19	9.25	31.62	28.00	31.50	38.00	28	2.12	2	0.50
30	44.50	4.50	5.50	9.75	33.94	30.00	33.75	40.25	28	2.12	2	0.50
32	47.00	4.62	5.81	10.25	36.12	32.00	36.00	42.50	28	2.38	2.1/4	0.50
34	49.00	4.75	6.06	10.62	38.31	34.00	38.00	44.50	28	2.38	2.1/4	0.56
36	51.75	4.88	6.38	11.12	40.62	36.00	40.25	47.00	28	2.62	2.1/2	0.56
38	50.00	6.00	6.12	10.00	40.25	38.00	41.50	45.75	28	2.38	2.1/4	0.56
40	52.00	6.25	6.38	10.38	42.25	40.00	43.75	47.75	32	2.38	2.1/4	0.56
42	55.25	6.62	6.75	11.00	44.38	42.00	46.00	50.50	28	2.62	2.1/2	0.56
44	57.25	6.81	7.00	11.38	46.50	44.00	48.25	52.50	32	2.62	2.1/2	0.56
46	59.50	7.06	7.31	11.81	48.62	46.00	50.25	54.75	32	2.62	2.1/2	0.56
48	62.75	7.44	7.69	12.44	50.75	48.00	52.50	57.50	32	2.88	2.3/4	0.56
50	65.75	7.75	8.00	12.94	52.88	50.00	54.50	60.00	28	3.12	3	0.56
52	67.75	8.00	8.25	13.25	54.88	52.00	56.50	62.00	32	3.12	3	0.56
54	70.00	8.25	8.56	13.75	57.00	54.00	58.75	64.25	32	3.12	3	0.56
56	73.00	8.56	8.88	14.25	59.12	56.00	60.75	66.75	32	3.38	3.1/4	0.62
58	75.00	8.75	9.12	14.56	61.12	58.00	63.00	68.75	32	3.38	3.1/4	0.62
60	78.50	9.19	9.56	15.31	63.38	60.00	65.25	71.75	28	3.62	3.1/2	0.69

Class 900 Series A

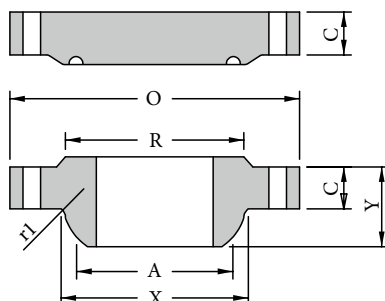


ANSI/ASME B 16.47

Unit:inch

Normal Pipe Size	Outside Diam	Thickness		Length Through Hud	Diam at Base of Hub	Diam of Hub at Bevel	Raised Face	Bolt			Diam of Bolt	Fillet radius min.
		WN	BL					Bolt Circle	No.	Diam of Holes		r ¹
	O	C	C	Y	X	A	R					
26	42.75	5.50	6.31	11.25	30.50	26.00	29.50	37.50	20	2.88	2.3/4	0.44
28	46.00	5.62	6.75	11.75	32.75	28.00	31.50	40.25	20	3.12	3	0.50
30	48.50	5.88	7.18	12.25	35.00	30.00	33.75	42.75	20	3.12	3	0.50
32	51.75	6.25	7.62	13.00	37.25	32.00	36.00	45.50	20	3.38	3.1/4	0.50
34	55.00	6.50	8.06	13.75	39.62	34.00	38.00	48.25	20	3.62	3.1/2	0.56
36	57.50	6.75	8.44	14.25	41.88	36.00	40.25	50.75	20	3.62	3.1/2	0.56
38	57.50	7.50	8.50	13.88	42.25	38.00	43.25	50.75	20	3.62	3.1/2	0.75
40	59.50	7.75	8.81	14.31	44.38	40.00	45.75	52.75	24	3.62	3.1/2	0.81
42	61.50	8.12	9.12	14.62	46.31	42.00	47.75	54.75	24	3.62	3.1/2	0.81
44	64.88	8.44	9.56	15.38	48.62	44.00	50.00	57.62	24	3.88	3.3/4	0.88
46	68.25	8.88	10.06	16.18	50.88	46.00	52.50	60.50	24	4.12	4	0.88
48	70.25	9.19	10.38	16.50	52.88	48.00	54.50	62.50	24	4.12	4	0.94
50	-	-	-	-	-	-	-	-	-	-	-	-
52	-	-	-	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-	-	-	-

Class 150 Series B

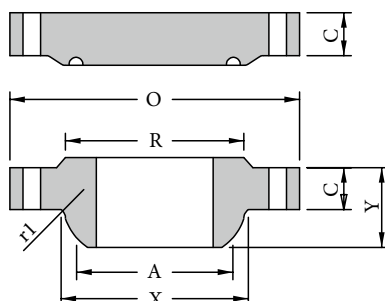


ANSI/ASME B 16.47

Unit: inch

Normal Pipe Size	Outside Diam	Thickness		Length Through Hud	Diam at Base of Hub	Diam of Hub at Bevel	Raised Face	Bolt			Diam of Bolt	Fillet radius min. r ¹
		WN	BL					Bolt Circle	No.	Diam of Holes		
	O	C	C	Y	X	A	R					
26	30.94	1.62	1.75	3.50	26.94	26.06	28.00	29.31	36	0.88	3/4	0.38
28	32.94	1.75	1.88	3.75	28.94	28.06	30.00	31.31	40	0.88	3/4	0.38
30	34.94	1.75	2.00	3.94	31.00	30.06	32.00	33.31	44	0.88	3/4	0.38
32	37.06	1.81	2.12	4.25	33.06	32.06	34.00	35.44	48	0.88	3/4	0.38
34	39.56	1.94	2.25	4.34	35.12	34.06	36.25	37.69	40	1.00	7/8	0.38
36	41.62	2.06	2.31	4.62	37.19	36.06	38.25	39.75	44	1.00	7/8	0.38
38	44.25	2.12	2.50	4.88	39.25	38.12	40.25	42.12	40	1.12	1	0.38
40	46.25	2.19	2.62	5.06	41.30	40.12	42.50	44.12	44	1.12	1	0.38
42	48.25	2.31	2.69	5.25	43.38	42.12	44.50	46.12	48	1.12	1	0.44
44	50.25	2.38	2.81	5.38	45.38	44.12	46.50	48.12	52	1.12	1	0.44
46	52.81	2.44	2.94	5.69	47.44	46.12	48.62	50.56	40	1.25	1.1/8	0.44
48	54.81	2.56	3.06	5.88	49.50	48.12	50.75	52.56	44	1.25	1.1/8	0.44
50	56.81	2.69	3.18	6.06	51.50	50.12	52.75	54.56	48	1.25	1.1/8	0.44
52	58.81	2.75	3.31	6.19	53.56	52.12	54.75	56.56	52	1.25	1.1/8	0.44
54	61.00	2.81	3.44	6.38	55.62	54.12	56.75	58.75	56	1.25	1.1/8	0.44
56	63.00	2.88	3.56	6.56	57.69	56.12	58.75	60.75	60	1.25	1.1/8	0.56
58	65.94	2.94	3.68	6.88	59.69	58.12	60.75	63.44	48	1.38	1.1/4	0.56
60	67.94	3.00	3.81	7.06	61.81	60.12	63.00	65.44	52	1.38	1.1/4	0.56

Class 300 Series B

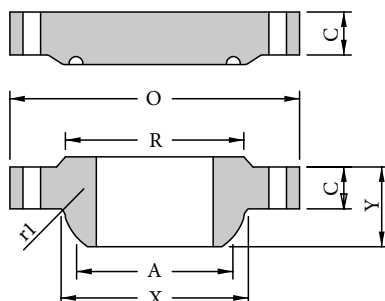


ANSI/ASME B 16.47

Unit: inch

Normal Pipe Size	Outside Diam	Thickness		Length Through Hud	Diam at Base of Hub	Diam of Hub at Bevel	Raised Face	Bolt			Diam of Bolt	Fillet radius min. r ¹
		WN	BL					Bolt Circle	No.	Diam of Holes		
	O	C	C	Y	X	A	R					
26	34.12	3.50	3.50	5.69	27.62	26.19	29.00	31.62	32	1.38	1.1/4	0.56
28	36.25	3.50	3.50	5.88	29.75	28.19	31.00	33.75	36	1.38	1.1/4	0.56
30	39.00	3.69	3.69	6.22	32.00	30.25	33.25	36.25	36	1.50	1.3/8	0.56
32	41.50	4.06	4.06	6.62	34.00	32.25	35.50	38.50	32	1.62	1.1/2	0.62
34	43.62	4.06	4.06	6.81	36.12	34.25	37.50	40.62	36	1.62	1.1/2	0.62
36	46.12	4.06	4.06	7.12	38.00	36.25	39.75	42.88	32	1.75	1.5/8	0.62
38	48.12	4.38	4.38	7.56	40.00	38.25	41.75	44.88	36	1.75	1.5/8	0.62
40	50.12	4.56	4.56	7.81	42.00	40.25	43.88	46.88	40	1.75	1.5/8	0.62
42	52.50	4.69	4.69	8.06	44.00	42.31	46.00	49.00	36	1.88	1.3/4	0.62
44	54.50	5.00	5.00	8.44	46.19	44.31	48.00	51.00	40	1.88	1.3/4	0.62
46	57.50	5.06	5.12	8.75	48.38	46.31	50.00	53.75	36	2.00	1.7/8	0.62
48	59.50	5.06	5.31	8.81	50.31	48.31	52.25	55.75	40	2.00	1.7/8	0.62
50	61.50	5.44	5.50	9.25	52.38	50.31	54.25	57.75	44	2.00	1.7/8	0.62
52	63.50	5.62	5.68	9.56	54.44	52.31	56.25	59.75	48	2.00	1.7/8	0.62
54	65.88	5.38	5.88	9.44	56.50	54.31	58.25	62.12	48	2.00	1.7/8	0.62
56	69.50	6.06	6.18	10.56	58.81	56.31	60.50	65.00	36	2.38	2.1/4	0.69
58	71.94	6.06	6.38	10.81	60.94	58.31	62.75	67.44	40	2.38	2.1/4	0.69
60	73.94	5.94	6.56	10.69	62.94	60.31	65.00	69.44	40	2.38	2.1/4	0.69

Class 400 Series B

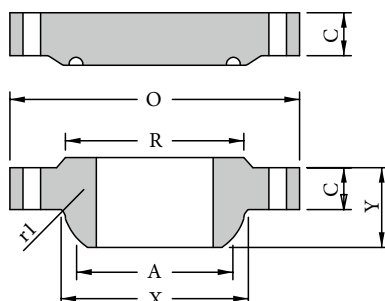


ANSI/ASME B 16.47

Unit: inch

Normal Pipe Size	Outside Diam	Thickness		Length Through Hud	Diam at Base of Hub	Diam of Hub at Bevel	Raised Face	Bolt			Diam of Bolt	Fillet radius min.
		WN	BL					Bolt Circle	No.	Diam of Holes		r ¹
	O	C	C	Y	X	A	R					
26	33.50	3.50	3.50	5.88	27.12	26.00	28.00	30.75	28	1.50	1.3/8	0.44
28	36.00	3.75	3.75	6.25	29.12	28.00	30.00	33.00	24	1.62	1.1/2	0.50
30	38.25	4.00	4.00	6.69	31.25	30.00	32.25	35.25	28	1.62	1.1/2	0.50
32	40.75	4.25	4.25	7.06	33.25	32.00	34.38	37.50	28	1.75	1.5/8	0.50
34	42.75	4.38	4.38	7.38	35.38	34.00	36.50	39.50	32	1.75	1.5/8	0.56
36	45.50	4.69	4.69	7.88	37.50	36.00	38.62	42.00	28	1.88	1.3/4	0.56
38	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	-	-	-	-	-
46	-	-	-	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-	-	-	-
52	-	-	-	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-	-	-	-

Class 600 Series B

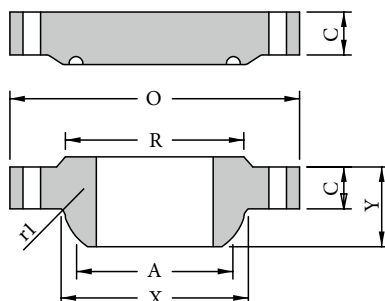


ANSI/ASME B 16.47

Unit: inch

Normal Pipe Size	Outside Diam	Thickness		Length Through Hud	Diam at Base of Hub	Diam of Hub at Bevel	Raised Face	Bolt			Diam of Bolt	Fillet radius min.
		WN	BL					Bolt Circle	No.	Diam of Holes		r ¹
	O	C	C	Y	X	A	R					
26	35.00	4.38	4.38	7.12	27.50	26.00	28.62	31.75	28	1.75	1.5/8	0.50
28	37.50	4.56	4.56	7.50	29.62	28.00	30.88	34.00	28	1.88	1.3/4	0.50
30	40.25	4.94	5.00	8.06	31.75	30.00	33.12	36.50	28	2.00	1.7/8	0.50
32	42.75	5.12	5.31	8.50	33.88	32.00	35.25	38.75	28	2.12	2	0.50
34	45.75	5.56	5.68	9.19	36.00	34.00	37.50	41.50	24	2.38	2.1/4	0.56
36	47.75	5.75	5.94	9.56	38.12	36.00	39.75	43.50	28	2.38	2.1/4	0.56
38	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	-	-	-	-	-
46	-	-	-	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-	-	-	-
52	-	-	-	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-	-	-	-

Class 900 Series B



ANSI/ASME B 16.47

Unit: inch

Normal Pipe Size	Outside Diam	Thickness		Length Through Hud	Diam at Base of Hub	Diam of Hub at Bevel	Raised Face	Bolt			Diam of Bolt	Fillet radius min.
		WN	BL					Bolt Circle	No.	Diam of Holes		r ¹
	O	C	C	Y	X	A	R					
26	40.25	5.31	6.06	10.19	29.25	26.00	30.00	35.50	20	2.62	2.1/2	0.44
28	43.50	5.81	6.56	10.88	31.38	28.00	32.25	38.25	20	2.88	2.3/4	0.50
30	46.50	6.12	6.93	11.38	33.50	30.00	34.50	40.75	20	3.12	3	0.50
32	48.75	6.31	7.31	11.94	35.75	32.00	36.50	43.00	20	3.12	3	0.50
34	51.75	6.75	7.68	12.56	37.88	34.00	39.00	45.50	20	3.38	3.1/4	0.56
36	53.00	6.81	7.94	12.81	40.00	36.00	40.50	47.25	24	3.12	3	0.56
38	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	-	-	-	-	-
46	-	-	-	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-	-	-	-
52	-	-	-	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-	-	-	-

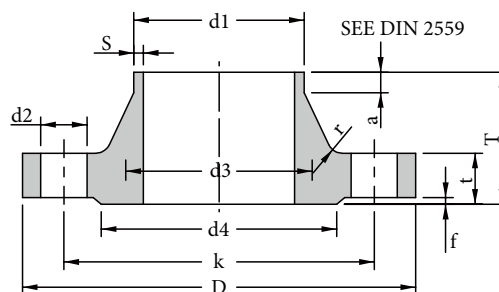
6-Bar

6-Bar

DIN 2573 Slip-On Flange

DIN 2527 Blind Flange

DIN 2631 Welding-Neck Flange



Welding Neck

*) Outside diameter of pipe corresponds to ISO recommendation R64.

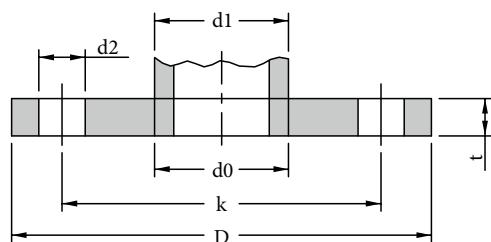
Unit:mm

Pipe Mating Dia		Flange						Hub				Raised Face		Bolts			Approx Weight(kg)		
Normal Width	d1	D	t			k	T	d3	s	r	a	d4	f	Q'ty	Thread		d2	DIN 2573	DIN 2631
			Welding Neck	Slip-On	Blind														
10	14 17.2*	75	12	12	12	50	28	22 26	1.8	4	6	35	2	4	M10		11.5	0.363	0.335
15	20 21.3*	80	12	12	12	55	30	28 30	2.0	4	6	40	2	4	M10		11.5	0.410	0.392
20	25 26.9*	90	14	14	14	65	32	35 38	2.3	4	6	50	2	4	M10		11.5	0.600	0.592
25	30 33.7*	100	14	14	14	75	35	40 42	2.6	4	6	60	2	4	M10		11.5	0.740	0.747
32	38 42.4	120	14	16	14	90	35	50 55	2.6	6	6	70	2	4	M12	1/2"	14	1.19	1.05
40	44.5 48.3*	130	14	16	14	100	38	58 62	2.6	6	7	80	3	4	M12	1/2"	14	1.39	1.18
50	57 60.3*	140	14	16	14	110	38	70 74	2.9	6	8	90	3	4	M12	1/2"	14	1.53	1.34
65	76.1	160	14	16	14	130	38	88	2.9	6	9	110	3	4	M12	1/2"	14	1.89	1.67
80	88.9*	190	16	18	16	150	42	102	3.2	8	10	128	3	4	M16	5/8"	18	2.98	2.71
100	108 114.3*	210	16	18	16	170	45	122	3.6	8	10	148	3	4	M16	5/8"	18	3.46	3.24
125	133 139.7*	240	18	20	18	200	48	130	4.0	8	10	178	3	8	M16	5/8"	18	4.60	4.49
150	159 168.3*	265	18	20	18	225	48	148	4.5	10	12	202	3	8	M16	5/8"	18	5.22	5.15
200	216 219.1*	320	20	22	20	280	55	155	5.9	10	15	258	3	8	M16	5/8"	18	7.15	7.78
250	267 273*	375	22	24	22	335	60	172	6.2	10	15	312	3	12	M16	5/8"	18	9.61	10.8
300	318 323.9*	440	22	24	22	395	62	184	7.1	12	15	365	4	12	M20	3/4"	23	12.6	14.0
350	355.6* 368	490	22	26	22	445	62	230	7.1	12	15	415	4	12	M20	3/4"	23	15.6	16.7
400	406.4* 419	540	22	28	22	495	65	236	7.1	12	15	465	4	16	M20	3/4"	23	18.4	19.0
500	508* 521	645	24	30	24	600	68	282	7.1	12	15	570	4	20	M20	3/4"	23	24.6	28.6
600	609.6* 622	755	24			705	70	290	7.1	12	16	670	5	20	M24	7/8"	27		
700	711.2* 720	860	24			810	70	335	7.1	12	16	775	5	24	M24	7/8"	27		
800	812.8* 820	975	24			920	70	342	7.1	12	16	880	5	24	M27	1"	30		
900	914.4* 920	1075	26			1020	70	942	7.1	12	16	980	5	24	M27	1"	30		
1000	1016* 1020	1175	26			1120	70	1045	7.1	16	16	1080	5	28	M27	1"	30		

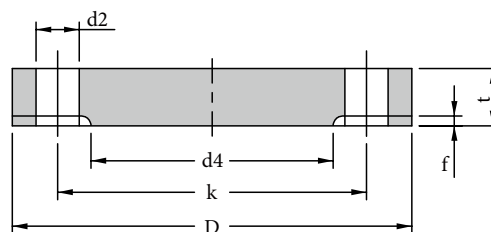
10-Bar

10-Bar

DIN 2576 Slip-On Flange DIN 2527 Blind Flange DIN 2632 Welding-Neck Flange



Slip-on



Blind

*) Outside diameter of pipe corresponds to ISO recommendation R64.

Unit:mm

Pipe Mating Dia		Flange						Hub				Raised Face		Bolts				Approx Weight(kg)	
Normal Width	d1	D	t			k	T	d3	s	r	a	d4	f	Q'ty	Thread		d2	DIN 2574	DIN 2632
			Welding Neck	Slip-On	Blind														
10	14 17.2*	90	14	14	14	60	35	25 38	1.8	4	6	40	2	4	M12	1/2"	14	0.163	0.580
15	20 21.3*	95	14	14	14	65	35	30 32	2.0	4	6	45	2	4	M12	1/2"	14	0.675	0.648
20	25 26.9*	105	16	16	16	75	38	38 40	2.3	4	6	58	2	4	M12	1/2"	14	0.947	0.952
25	30 33.7*	115	16	16	16	85	38	42 45	2.6	4	6	68	2	4	M12	1/2"	14	1.14	1.14
32	38 42.4	140	16	16	16	100	40	52 56	2.6	6	6	78	2	4	M16	5/8"	18	1.66	1.69
40	44.5 48.3*	150	16	16	16	110	42	60 64	2.6	6	7	88	3	4	M16	5/8"	18	1.89	1.86
50	57 60.3*	165	18	18	18	125	45	72 75	2.9	6	8	102	3	4	M16	5/8"	18	2.51	2.53
65	76.1	185	18	18	18	145	45	90	2.9	6	10	122	3	4	M16	5/8"	18	3.00	3.06
80	88.9*	200	20	20	20	160	50	105	3.2	8	10	138	3	4	M16	5/8"	18	3.79	3.70
100	108 114.3*	220	20	20	20	180	52	125 131	3.6	8	12	158	3	8	M16	5/8"	18	4.20	4.62
125	133 139.7*	250	22	22	22	210	55	150 156	4.0	8	12	188	3	8	M16	5/8"	18	5.71	6.30
150	159 168.3*	285	22	22	22	240	55	175 184	4.5	10	12	212	3	8	M20	3/4"	23	6.72	7.75
200	216 219.1*	340	24	24	24	295	62	232 235	5.9	10	16	268	3	8	M20	3/4"	23	9.50	11.3
250	267 273*	395	26	26	26	350	68	285 292	6.3	12	16	320	3	12	M20	3/4"	23	12.5	14.7
300	318 323.9*	445	26	26	28	400	68	335 344	7.1	12	16	370	4	12	M20	3/4"	23	14.4	17.6
350	355.6* 368	505	26	28	30	460	68	385	7.1	12	16	430	4	16	M20	3/4"	23	20.6	21.4
400	406.4* 419	565	26	32	32	515	72	440	7.1	12	16	482	4	16	M24	7/8"	27	27.9	26.1
500	508* 521	670	28	38	34	620	75	542	7.1	12	16	585	4	20	M24	7/8"	27	41.1	34.7
600	609.6* 622	780	28			725	80	642	7.1	12	18	685	5	20	M27	1"	30		
700	711.2* 720	895	30			840	80	745	8.0	12	18	800	5	24	M27	1"	30		
800	812.8* 820	1015	32			950	90	850	8.0	12	18	905	5	24	M30	1-1/8"	33		
900	914.4* 920	1115	34			1050	95	950	10.0	12	20	1005	5	28	M30	1-1/8"	33		
1000	1016* 1020	1230	34			1160	95	1052	10.0	16	20	1110	5	28	M33	1-1/4"	36		

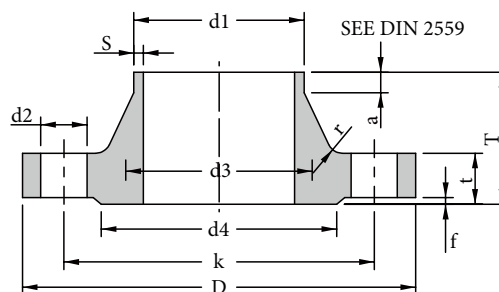
16-Bar

16-Bar

DIN 2543 Slip-On Flange

DIN 2527 Blind Flange

DIN 2633 Welding-Neck Flange



Welding Neck

*) Outside diameter of pipe corresponds to ISO recommendation R64.

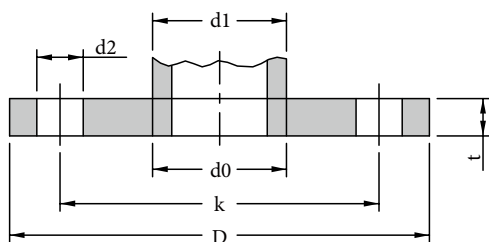
Unit:mm

Pipe Mating Dia		Flange						Hub				Raised Face		Bolts			Approx Weight(kg)		
Normal Width	d1	D	t			k	T	d3	s	r	a	d4	f	Q'ty	Thread		d2	DIN 2573	DIN 2631
			Welding Neck	Slip-On	Blind														
10	14 17.2*	90	14	14	14	60	35	25 28	1.8	4	6	40	2	4	M12	1/2"	14	0.63	0.580
15	20 21.3*	95	14	14	14	65	35	30 32	2.0	4	6	45	2	4	M12	1/2"	14	0.72	0.648
20	25 26.9*	105	16	16	16	75	38	38 40	2.3	4	6	58	2	4	M12	1/2"	14	1.01	0.952
25	30 33.7*	115	16	16	16	85	38	42 45	2.6	4	6	68	2	4	M12	1/2"	14	1.23	1.14
32	38 42.4	140	16	16	16	100	40	52 56	2.6	6	6	78	2	4	M16	5/8"	18	1.80	1.69
40	44.5 48.3*	150	16	16	16	110	42	60 64	2.6	6	7	88	3	4	M16	5/8"	18	2.09	1.86
50	57 60.3*	165	18	18	18	125	45	72 75	2.9	6	8	102	3	4	M16	5/8"	18	2.88	2.53
65	76.1	185	18	18	18	145	45	90	2.9	6	10	122	3	4	M16	5/8"	18	3.66	3.06
80	88.9*	200	20	20	20	160	50	105	3.2	8	10	138	3	8	M16	5/8"	18	4.77	3.70
100	108 114.3*	220	20	20	20	180	52	125 131	3.6	8	12	158	3	8	M16	5/8"	18	5.65	4.62
125	133 139.7*	250	22	22	22	210	55	150 156	4.0	8	12	188	3	8	M16	5/8"	18	8.42	6.30
150	159 168.3*	285	22	22	22	240	55	175 184	4.5	10	12	212	3	8	M20	3/4"	23	10.4	7.75
200	216 219.1*	340	24	24	24	295	62	232 235	5.9	10	16	268	3	12	M20	3/4"	23	16.1	11.0
250	267 273*	405	26	26	26	355	70	285 292	6.3	12	16	320	4	12	M24	7/8"	27	24.9	15.6
300	318 323.9*	460	28	28	28	410	78	338 344	7.1	12	16	378	4	12	M24	7/8"	27	35.1	22.0
350	355.6* 368	520	30	30	30	470	82	390	8.0	12	16	438	4	16	M24	7/8"	27	47.8	28.7
400	406.4* 419	580	32	32	32	525	85	445	8.0	12	16	490	4	16	M27	1"	30	63.5	36.3
500	508* 521	715	34	36	34	650	90	548	8.0	12	16	610	4	20	M30	1-1/8"	33	102.0	59.3
600	609.6* 622	840	36	40		770	95	652	8.8	12	18	725	5	20	M33	1-1/4"	36		
700	711.2* 720	910	36	840		100	755	8.8	12	18	795	5	24	M33	1-1/4"	36			
800	812.8* 820	1025	38	950		105	855	10.0	12	20	900	5	24	M36	1-3/8"	39			
900	914.4* 920	1125	40	1050		110	955	10.0	12	20	1000	5	28	M36	1-3/8"	39			
1000	1016* 1020	1255	42	1170		120	1058	10.0	16	20	1115	5	28	M39	1-1/2"	42			

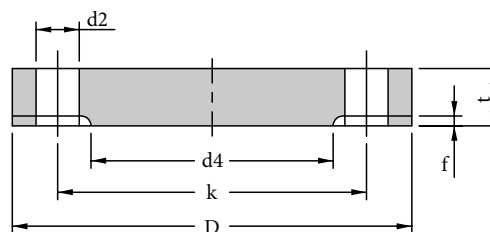
25-Bar

25-Bar

DIN 2544 Slip-On Flange DIN 2527 Blind Flange DIN 2634 Welding-Neck Flange



Slip-on



Blind

*) Outside diameter of pipe corresponds to ISO recommendation R64.

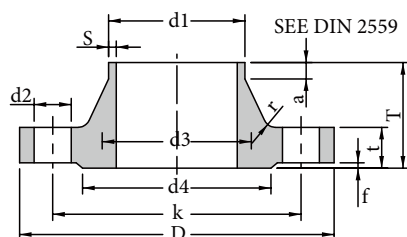
Unit:mm

Pipe Mating Dia		Flange						Hub				Raised Face		Bolts				Approx Weight(kg)	
Normal Width	d1	D	t			k	T	d3	s	r	a	d4	f	Q'ty	Thread		d2	DIN 2574	DIN 2632
			Welding Neck	Slip-On	Blind														
10	14 17.2*	90	16		16	60	35	25 28	1.8	4	6	40	2	4	M12	1/2"	14	0.72	0.661
15	20 21.3*	95	16	16	16	65	38	30 32	2.0	4	6	45	2	4	M12	1/2"	14	1.81	0.746
20	25 26.9*	105	18	18	18	75	40	38 40	2.3	4	6	58	2	4	M12	1/2"	14	1.24	1.06
25	30 33.7*	115	18	18	18	85	40	42 46	2.6	4	6	68	2	4	M12	1/2"	14	1.38	1.29
32	38 42.4	140	18	18	18	100	42	52 56	2.6	6	6	78	2	4	M16	5/8"	18	2.03	1.88
40	44.5 48.3*	150	18	18	18	110	45	60 64	2.6	6	7	88	3	4	M16	5/8"	18	2.35	2.34
50	57 60.3*	165	20	20	20	125	48	72 75	2.9	6	8	102	3	4	M16	5/8"	18	3.20	2.82
65	76.1	185	22	22	22	145	52	90	2.9	6	10	122	3	8	M16	5/8"	18	4.29	3.74
80	88.9*	200	24	24	24	160	58	105	3.2	8	12	138	3	8	M16	5/8"	18	5.88	4.75
100	108 114.3*	235	24	24	24	190	65	128 134	3.6	8	12	162	3	8	M20	3/4"	23	7.54	6.52
125	133 139.7*	270	26	26	26	220	68	155 162	4.0	8	12	188	3	8	M24	7/8"	27	10.8	9.07
150	159 168.3*	300	28	28	28	250	75	182 192	4.5	10	12	218	3	8	M24	7/8"	27	14.5	11.8
200	216 219.1*	360	30	30	30	310	80	240 244	6.3	10	16	278	3	12	M24	7/8"	27	22.3	17.0
250	267 273*	425	32	32	32	370	88	292 298	7.1	12	18	335	3	12	M27	1"	30	33.5	24.4
300	318 323.9*	485	34	34	34	430	92	345 352	8.0	12	18	395	4	16	M27	1"	30	46.3	31.2
350	355.6* 368	555	38	38	38	490	100	398	8.0	12	20	450	4	16	M30	1-1/8"	33	68.0	45.0
400	406.4* 419	620	40	40	40	550	110	452	8.8	12	20	505	4	16	M33	1-1/4"	36	89.7	58.7
500	508* 521	730	44	44	44	660	125	558	10.0	12	20	615	4	20	M33	1-1/4"	36	138.0	89.6
600	609.6* 622	845	46			770	125	660	11.0	12	20	720	5	20	M36	1-3/8"	39		104
700	711.2* 720	960	46			875	125	760	12.5	12	20	820	5	24	M39	1-1/2"	42		136
800	812.8* 820	1085	50			990	135	865	14.2	12	22	930	5	24	M45	1-3/4"	48		186
900	914.4* 920	1185	54			1090	145	968	16.0	12	24	1030	5	28	M45	1-3/4"	48		236
1000	1016* 1020	1320	58			1210	155	1070	17.5	16	24	1140	5	28	M52	2"	56		307

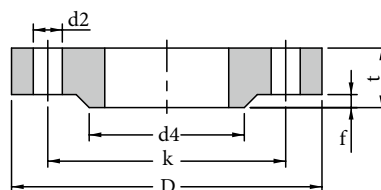
40-Bar

40-Bar

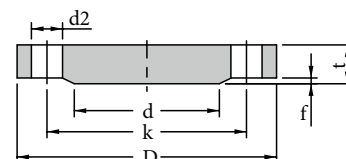
DIN 2545 Slip-On Flange DIN 2527 Blind Flange DIN 2635 Welding-Neck Flange



Welding Neck



Slip-on



Blind

*) Outside diameter of pipe corresponds to ISO recommendation R64.

Unit:mm

Pipe Mating Dia		Flange						Hub				Raised Face		Bolts				Approx Weight(kg)	
Normal Width	d1	D	t			k	T	d3	s	r	a	d4	f	Q'ty	Thread		d2	DIN 2574	DIN 2632
			Welding Neck	Slip-On	Blind														
10	14 17.2*	90	16		16	60	35	25 28	1.8	4	6	40	2	4	M12	1/2"	14	0.72	0.66
15	20 21.3*	95	16	16	16	65	38	30 32	2.0	4	6	45	2	4	M12	1/2"	14	1.81	0.746
20	25 26.9*	105	18	18	18	75	40	38 40	2.3	4	6	58	2	4	M12	1/2"	14	1.24	1.06
25	30 33.7*	115	18	18	18	85	40	42 46	2.6	4	6	68	2	4	M12	1/2"	14	1.38	1.29
32	38 42.4	140	18	18	18	100	42	52 56	2.6	6	6	78	2	4	M16	5/8"	18	2.03	1.88
40	44.5 48.3*	150	18	18	18	110	45	60 64	2.6	6	7	88	3	4	M16	5/8"	18	2.35	2.34
50	57 60.3*	165	20	20	20	125	48	72 75	2.9	6	8	102	3	4	M16	5/8"	18	3.20	2.82
65	76.1	185	22	22	22	145	52	90	2.9	6	10	122	3	8	M16	5/8"	18	4.29	3.74
80	88.9*	200	24	24	24	160	58	105	3.2	8	12	138	3	8	M16	5/8"	18	5.88	4.75
100	108 114.3*	235	24	24	24	190	65	128 134	3.6	8	12	162	3	8	M20	3/4"	23	7.54	6.52
125	133 139.7*	270	26	26	26	220	68	155 162	4.0	8	12	188	3	8	M24	7/8"	27	10.8	9.07
150	159 168.3*	300	28	28	28	250	75	182 192	4.5	10	12	218	3	8	M24	7/8"	27	14.5	11.8
(175)	191 193.7*	350	32	32	32	295	82	215 218	5.6	10	15	260	3	12	M27	1"	30	22.1	18.2
200	216 219.1*	375	34	34	34	320	88	240 244	6.3	10	16	285	3	12	M27	1"	30	27.2	21.5
250	267 273*	450	38	38	38	385	105	298 306	7.1	12	18	345	3	12	M30	1-1/8"	33	43.8	34.9
300	318 323.9*	515	42	42	42	450	115	352 362	8.0	12	18	410	4	16	M30	1-1/8"	33	63.3	49.7
350	355.6* 368	580	46	46	46	510	125	408	8.8	12	20	465	4	16	M33	1-1/4"	36	89.5	68.1
400	406.4* 419	660	50	50	50	585	135	462	11.0	12	20	535	4	16	M36	1-3/8"	39	127.0	96.5
500	508* 521	755	52	52	52	670	140	562	14.2	12	20	615	4	20	M39	1-1/2"	42	172.0	117.0