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Table of Contents	Page 2
Ansi Pipe Schedules and Weights	Page 3
Wire Gauges	Page 4
Dimensional Tolerances ASME and ANSI B 16.5	Page 5
Welding Ends ASME and ANSI B 16.25	Page 6
Face Finishes	Page 6
Large, Small Male and Female Facings	Page 7
Large, Small Tongue and Groove Facings	Page 7
Ring Joint Dimensions ANSI B 16.5	Page 9
Ring Joint Dimensions ASME B 16.47	Page 18
Welding Neck Flanges ANSI B 16.5 and BS3293	Page 19
Slip On Flanges ANSI B 16.5 and BS3293	Page 31
Blind Flanges ANSI B 16.5 and BS3293	Page 43
Lap Joint Flanges ANSI B 16.5 and BS3293	Page 55
Socket Weld Flanges ANSI B 16.5 and BS3293	Page 66
Threaded Flanges ANSI B 16.5 and BS3293	Page 71
Long Welding Neck Flanges	Page 81
Orifice Welding Neck Flanges ASME B 16.36	Page 92





Ansi Pipe Schedules and Weights in Kg/Mtr.

Figures in red = weight in kg/mtr.

Nominal Pipe	O.D. mm	Sched. 5S	Sched. 10.S	Sched. 10Full	Sched. 20	Sched. 30	Sched. Std	Sched. 40Full	Sched. 60	Sched. XS	Sched. 80Full	Sched. 100	Sched. 120	Sched. 140	Sched. 160	Sched. XXS
1/8"	10.30	-	1.24	-	-	-	1.73	1.73	-	2.41	2.41	-	-	-	-	-
			0.28				0.36	0.36		0.46	0.46					
1/4"	13.72	-	1.65	-	-	-	2.24	2.24	-	3.02	3.02	-	-	-	-	-
			0.49				0.63	0.63		0.80	0.80					
3/8"	17.14	-	1.65	-	-	-	2.31	2.31	-	3.20	3.20	-	-	-	-	-
			0.63				0.85	0.85		1.10	1.10					
1/2"	21.34	1.65	2.11	-	-	-	2.77	2.77	-	3.73	3.73	-	-	-	4.78	7.47
		0.80	1.00				1.27	1.27		1.62	1.62				1.94	2.55
3/4"	26.67	1.65	2.11	-	-	-	2.87	2.87	-	3.91	3.91	-	-	-	5.56	7.82
		1.03	1.28				1.68	1.68		2.19	2.19				2.90	3.63
1"	33.40	1.65	2.77	-	-	-	3.38	3.38	-	4.55	4.55	-	-	-	6.35	9.09
		1.29	2.08				2.50	2.50		3.23	3.23				4.18	5.45
1.1/4"	42.16	1.65	2.77	-	-	-	3.56	3.56	-	4.85	4.85	-	-	-	6.35	9.70
		1.65	2.69				3.38	3.38		4.46	4.46				5.58	7.76
1.1/2"	48.26	1.65	2.77	-	-	-	3.68	3.68	-	5.08	5.08	-	-	-	7.14	10.16
		1.90	3.12				4.05	4.05		5.41	5.41				7.22	9.55
2"	60.32	1.65	2.77	-	-	-	3.91	3.91	-	5.54	5.54	-	-	-	8.74	11.07
		2.38	3.94				5.44	5.44		7.49	7.49				11.08	13.45
2.1/2"	73.02	2.11	3.05	-	-	-	5.16	5.16	-	7.01	7.01	-	-	-	9.52	14.02
		3.70	5.26				8.68	8.68		11.42	11.42				14.88	20.41
3"	88.90	2.11	3.05	-	-	-	5.49	5.49	-	7.62	7.62	-	-	-	11.13	15.24
		4.50	6.45				11.29	11.29		15.27	15.27				20.98	27.67
3.1/2"	101.60	2.11	3.05	-	-	-	5.74	5.74	-	8.08	8.08	-	-	-	-	-
		5.20	7.40				13.57	13.57		18.63	18.63					
4"	114.30	2.11	3.05	-	-	-	6.02	6.02	-	8.56	8.56	-	11.13	-	13.49	17.12
		5.81	8.34				16.07	16.07		22.31	22.31		28.25		33.48	41.02
5"	141.03	2.77	3.40	-	-	-	6.55	6.55	-	9.52	9.52	-	12.70	-	15.88	19.05
		9.45	11.56				21.78	21.78		30.95	30.95		40.24		49.11	57.42
6"	168.30	2.77	3.40	-	-	-	7.11	7.11	-	10.97	10.97	-	14.27	-	18.26	21.95
		11.31	13.82				28.26	28.26		42.56	42.56		54.20		67.22	79.18
8"	219.10	2.77	3.76	-	6.35	7.04	8.18	8.18	10.31	12.70	12.70	15.09	18.26	20.62	23.01	22.22
		14.78	19.94		33.03	36.72	42.53	42.53	52.88	64.63	64.63	75.80	90.32	101.04	111.32	107.87
10"	273.00	3.40	4.19	-	6.35	7.80	9.27	9.27	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40
		22.62	27.83		41.70	51.00	60.29	60.29	81.46	81.46	95.95	114.59	132.74	154.94	172.14	154.94
12"	323.85	3.96	4.57	-	6.35	8.38	9.52	10.31	14.27	12.70	17.47	21.44	25.40	28.58	33.34	25.40
		33.00	36.00		49.81	65.07	73.82	79.67	108.97	97.36	131.70	159.52	186.77	206.96	238.11	186.77
14"	355.60	3.96	4.78	6.35	7.92	9.52	9.52	11.13	15.09	12.70	19.05	23.82	27.79	31.75	35.71	-
		34.23	41.18	54.63	67.95	81.28	81.28	94.31	126.49	107.28	157.94	194.82	224.42	253.14	281.38	-
16"	406.40	4.19	4.78	6.35	7.92	9.52	9.52	12.70	16.64	12.70	21.44	26.19	30.96	36.52	40.49	-
		41.60	47.33	62.58	77.88	93.21	93.21	123.18	159.98	123.18	203.16	245.32	286.44	332.62	364.85	-
18"	457.20	4.19	4.78	6.35	7.92	11.13	9.52	14.27	19.05	12.70	23.82	29.36	34.92	39.69	45.24	-
		46.83	53.18	70.53	87.81	122.12	105.14	155.90	205.62	139.07	254.19	309.44	363.19	408.01	459.18	-
20"	508.00	4.78	5.54	6.35	9.52	12.70	9.52	15.09	20.62	12.70	26.19	32.54	38.10	44.45	50.01	-
		59.22	68.50	78.47	117.07	154.97	117.07	183.12	247.79	154.97	310.90	381.04	440.93	587.54	564.14	-
22"	558.80	-	-	6.35	9.52	12.70	9.52	-	22.22	12.70	28.60	34.92	41.28	47.62	53.98	-
				86.94	129.01	171.01	129.01	-	294.06	171.01	373.58	451.14	526.70	600.27	671.58	-
24"	609.60	5.54	6.35	6.35	9.52	14.27	9.52	17.48	24.61	12.70	30.96	38.89	46.02	52.30	59.54	-
		82.60	94.37	94.37	140.94	209.54	140.94	254.74	354.64	186.75	441.10	546.92	639.18	718.94	806.61	-
26"	660.40	-	-	7.92	12.70	-	9.52	-	-	12.70	-	-	-	-	-	-
				127.58	202.65	-	152.87	-	-	202.65	-	-	-	-	-	-
28"	711.20	-	-	7.92	12.70	15.88	9.52	-	-	12.70	-	-	-	-	-	-
				137.50	218.51	271.90	164.63	-	-	218.51	-	-	-	-	-	-
30"	762.00	-	-	7.92	12.70	15.88	9.52	-	-	12.70	-	-	-	-	-	-
				147.33	234.44	291.81	176.73	-	-	234.44	-	-	-	-	-	-
32"	812.80	-	-	7.92	12.70	15.88	9.52	17.48	-	12.70	-	-	-	-	-	-
				156.58	250.33	311.67	188.66	352.28	-	250.33	-	-	-	-	-	-
34"	863.60	-	-	7.92	12.70	15.88	9.52	17.48	-	12.70	-	-	-	-	-	-
				166.82	266.35	331.54	200.59	363.91	-	266.35	-	-	-	-	-	-
36"	914.40	-	-	7.92	12.70	15.88	9.52	19.05	-	12.70	-	-	-	-	-	-
				177.12	282.12	351.41	212.52	420.17	-	282.12	-	-	-	-	-	-



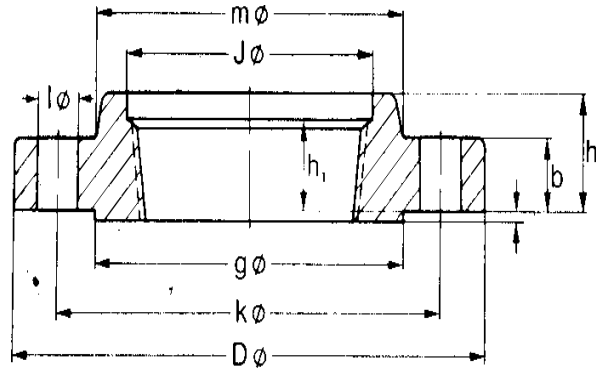
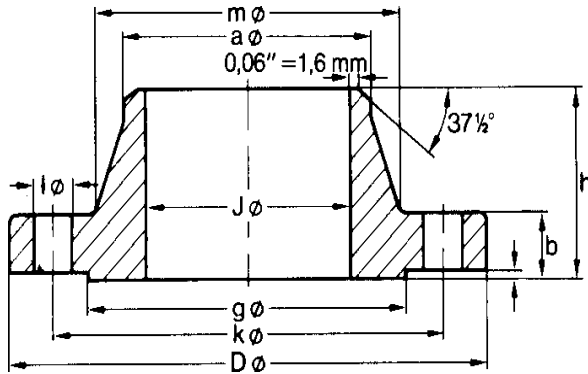
Wire Gauges.

Gauge No.	B.W.G.		L.S.W.G.		B.G.		U.S.G.	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
3/0	0.425	10.795	0.372	9.449	0.500	12.700	0.375	9.525
2/0	0.380	9.652	0.348	8.839	0.445	11.300	0.344	8.731
0	0.340	8.636	0.324	8.230	0.396	10.060	0.313	7.938
1	0.300	7.620	0.300	7.620	0.353	8.956	0.281	7.144
2	0.284	7.214	0.276	7.010	0.315	8.001	0.266	6.747
3	0.259	6.579	0.252	6.401	0.280	7.112	0.250	6.350
4	0.238	6.045	0.232	5.893	0.250	6.350	0.234	5.953
5	0.220	5.588	0.212	5.385	0.223	5.664	0.219	5.556
6	0.203	5.156	0.192	4.877	0.198	5.029	0.203	5.159
7	0.180	4.572	0.176	4.470	0.176	4.470	0.188	4.763
8	0.165	4.191	0.160	4.064	0.157	3.988	0.172	4.366
9	0.148	3.759	0.144	3.658	0.140	3.556	0.156	3.969
10	0.134	3.404	0.128	3.251	0.125	3.175	0.141	3.572
11	0.120	3.048	0.116	2.946	0.111	2.827	0.125	3.175
12	0.109	2.769	0.104	2.642	0.099	2.517	0.109	2.778
13	0.095	2.413	0.092	2.337	0.088	2.240	0.094	2.381
14	0.083	2.108	0.080	2.032	0.079	1.994	0.078	1.984
15	0.072	1.829	0.072	1.829	0.070	1.775	0.070	1.786
16	0.065	1.651	0.064	1.626	0.063	1.588	0.063	1.583
17	0.058	1.473	0.056	1.422	0.056	1.412	0.056	1.429
18	0.049	1.245	0.048	1.219	0.500	1.257	0.050	1.270
19	0.042	1.067	0.040	1.016	0.044	1.118	0.044	1.111
20	0.035	0.889	0.036	0.914	0.039	0.996	0.038	0.953
21	0.032	0.813	0.032	0.813	0.035	0.887	0.034	0.873
22	0.028	0.711	0.028	0.711	0.031	0.795	0.031	0.794
23	0.025	0.635	0.024	0.610	0.028	0.706	0.028	0.714
24	0.022	0.559	0.022	0.559	0.025	0.630	0.025	0.635
25	0.020	0.508	0.020	0.508	0.022	0.559	0.022	0.556
26	0.018	0.457	0.0180	0.457				
27	0.016	0.406	0.0164	0.417				
28	0.014	0.356	0.0148	0.376				
29	0.013	0.330	0.0136	0.345				
30	0.012	0.305	0.0124	0.315				
31	0.010	0.254	0.0116	0.295				
32	0.009	0.229	0.0108	0.274				
33	0.008	0.203	0.100	0.254				
34	0.007	0.178	0.0092	0.234				
35	0.005	0.127	0.0084	0.213				

Notes: B.W.G. Birmingham (or Stubs Iron) Wire Gauge.
 L.S.W.G. British Empire Standard Wire Gauge or Legal Standard Wire Gauge.
 B.G. British Standard " B.G. " Gauge.
 U.S.G. United States Standard Gauge.



Dimensional Tolerances according to ASME / ANSI B 16.5



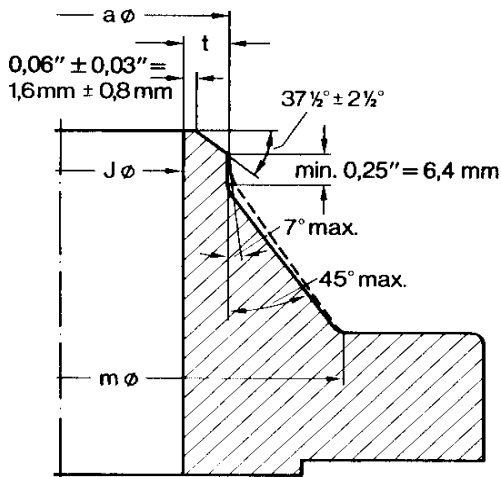
1) Not covered by ANSI B 16.5

2) Independent of the tolerances of the measures "j" and "a",
Wall thickness shall not be less than 87.5 % of nominal wall thickness.

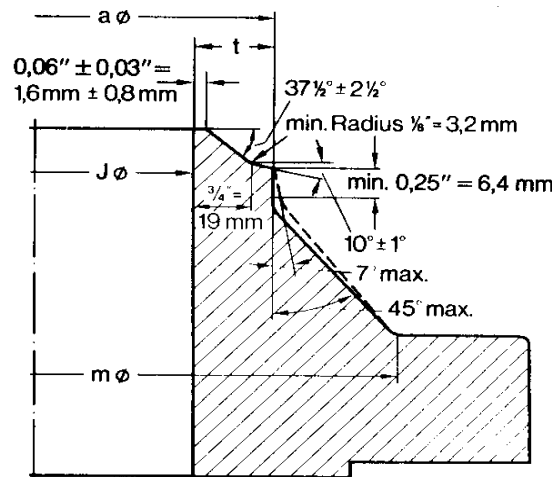
Welding Neck Flanges			lap Joint, Slip-on, Threaded and Blind Flanges		
Area	Dimension	Tolerance mm	Area	Dimension	Tolerance mm
D Outside Dia 1)	When OD is 24" or less	+ / -1.6mm	D Outside Dia 1)	When OD is 24" or less	+ / -1.6mm
	When OD is over 24"	+ / -3.2mm		When OD is over 24"	+ / -3.2mm
J Inside Dia 2)	10" and smaller	+0.8mm	J Inside Dia 2)	10" and smaller	+0.8mm
	12" to 18"	+1.6mm		12" to 18"	+1.6mm
	20" and larger	+3.2 / -1.6mm		20" and larger	+3.2 / -1.6mm
g Dia of Contact Face	1.6 mm Raised Face	+ / -0.8mm	g Dia of Contact Face	1.6 mm Raised Face	+ / -0.8mm
	6.4 mm Raised Face	+ / -0.5mm		6.4 mm Raised Face	+ / -0.5mm
	Tongue and Groove	+ / -0.5mm		Tongue and Groove	+ / -0.5mm
	Male and Female	+ / -0.5mm		Male and Female	+ / -0.5mm
a Dia of Hub at Bevel	5" and smaller	+2.4 / -0.8mm	j Dia of counterbore	Same as for Inside Dia	See Inside Dia
	6" and larger	+4.0 / -0.8mm			
m Dia of Hub at Base	When Hub is 24" and less	+ / -1.6mm	m Dia of Hub 1)	When Hub is 12" and less	+2.4 / -1.6mm
	When Hub is over 24"	+ / -3.2mm		When Hub is over 14"	+3.2mm
l Drilling and Facing	Bolt Circle Dia k Center to center bolt holes Max. eccentricity between bolt circle Dia k and machined facing Dia g sizes 2.1/2" and smaller sizes 3" and larger	+ / -1.6mm	l Drilling and Facing	Bolt Circle Dia k Center to center bolt holes Max. eccentricity between bolt circle Dia k and machined facing dia g sizes 2.1/2" and smaller sizes 3" and larger	+ / -1.6mm
		+ / -0.8mm			+ / -0.8mm
		+ / -0.8mm			+ / -0.8mm
		+ / -1.6mm			+ / -1.6mm
h Overall Length of Hub	10" and smaller	+ / -1.6mm	h Overall Length of Hub 1)	18" and smaller	+3.2 / -0.8mm
	12" and larger	+ / -3.2mm		20" and larger	+4.8 / -1.6mm
b Thickness	18" and smaller	+3.2mm	b Thickness	18" and smaller	+3.2mm
	20" and larger	+4.8mm		20" and larger	+4.8mm



Welding Ends ASME / ANSI B 16.25



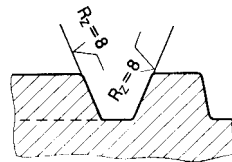
Bevel for Wall Thickness $T = 4.9\text{mm}$ to 22.4mm



Bevel for Wall Thickness $T = \text{greater than } 22.4\text{mm}$

A = Outside dia of the pipe, J = Inside dia of the pipe and T = Wall thickness.

Face Finish

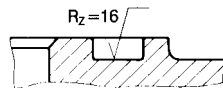


R_z in μm

Facings are made by mechanical turning.

Ring Joint Facings

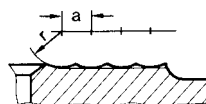
$R_z = 8$ (R_z in μm)



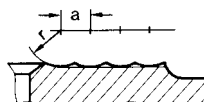
R_z in μm

Tongue / Groove
Small Male/Female Facings

$R_z = 16$ (R_z in μm)



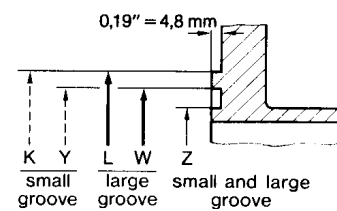
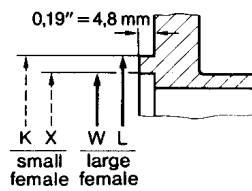
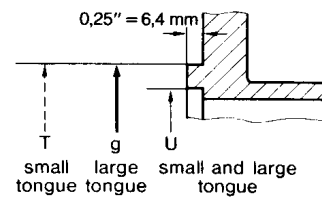
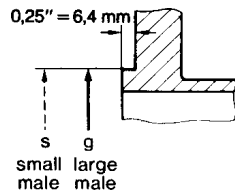
Stock Finish
Large Male / Female Facings
19 - 22 Grooves / Cm



Smooth Finish
22 - 28 Grooves / Cm



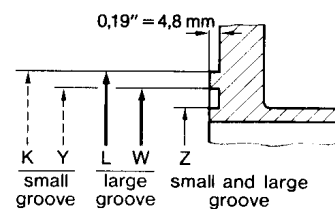
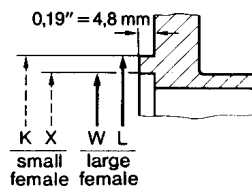
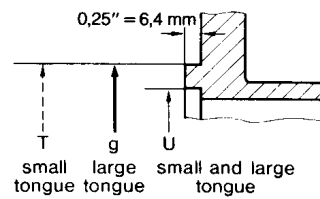
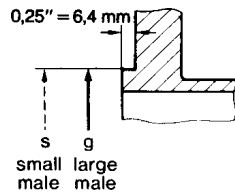
Large and Small Male / Female Facings Large and Small Tongue / Groove Facings



Nominal Pipe Size	mm	Outside Diameter			Inside Diameter of Large and Small Tongue U	Outside Diameter			Inside Diameter of Large and Small Groove Z	Diam. of Race Face Small Female & Groove K	Diam. of Race Face Large Female & Groove L	Nominal Pipe Size
		Large Male Large Tongue G	Small Male S	Small Tongue T		Large Female and Large Groove W	Small Female X	Small Groove Y				
1/2"	mm	35.1	18.3	35.1	25.4	36.6	19.8	36.6	23.9	44.5	46.0	1/2"
3/4"	mm	42.9	23.9	42.9	33.3	44.5	25.4	44.5	31.8	52.3	53.8	3/4"
1"	mm	50.8	30.2	47.8	38.1	52.3	31.8	49.3	36.6	57.2	62.0	1"
1.1/4"	mm	63.5	38.1	57.2	47.8	65.0	39.6	58.7	46.0	66.5	74.7	1.1/4"
1.1/2"	mm	73.2	44.5	63.5	53.8	74.7	46.0	65.0	52.3	73.2	84.1	1.1/2"
2"	mm	91.9	57.2	82.6	73.2	93.7	58.7	84.1	71.4	91.9	103.1	2"
2.1/2"	mm	104.6	68.3	95.3	85.9	106.4	69.9	96.8	84.1	104.6	115.8	2.1/2"
3"	mm	127.0	84.1	117.3	108.0	128.5	85.9	119.1	106.4	127.0	138.2	3"
3.1/2"	mm	139.7	96.8	130.0	120.7	141.2	98.6	131.8	119.1	139.7	150.9	3.1/2"
4"	mm	157.2	109.5	144.5	131.8	158.8	111.3	146.1	130.0	157.2	168.1	4"



Large and Small Male / Female Facings Large and Small Tongue / Groove Facings

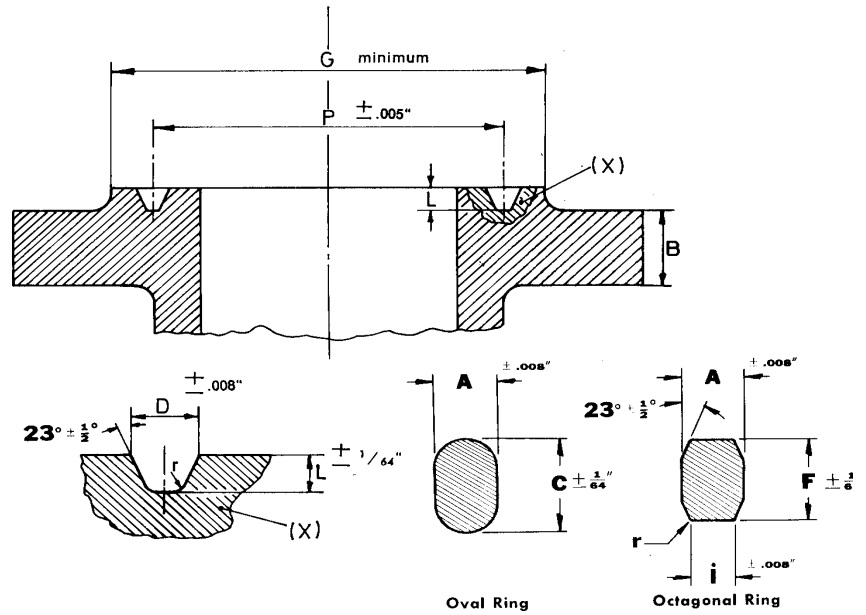


Nominal Pipe Size	mm	Outside Diameter			Inside Diameter of Large and Small Tongue U	Outside Diameter			Inside Diameter of Large and Small Groove Z	Diam. of Race Face Small Female & Groove K	Diam. of Race Face Large Female & Groove L	Nominal Pipe Size
		Large Male Large Tongue G	Small Male S	Small Tongue T		Large Female and Large Groove W	Small Female X	Small Groove Y				
5"	mm	185.7	136.7	173.0	160.3	187.5	138.2	174.8	158.8	185.7	196.9	5"
6"	mm	215.9	162.1	203.2	190.5	217.4	163.6	204.7	189.0	215.9	227.1	6"
8"	mm	269.7	212.9	254.0	238.3	271.5	214.4	255.5	236.5	269.7	280.9	8"
10"	mm	323.9	266.7	304.8	285.8	325.4	268.3	306.3	284.2	323.9	335.0	10"
12"	mm	381.0	317.5	362.0	342.9	382.5	319.0	363.5	341.4	381.0	392.2	12"
14"	mm	412.8	349.3	393.7	374.7	414.3	350.8	395.2	373.1	412.8	423.9	14"
16"	mm	469.9	400.1	447.5	425.5	471.4	401.6	449.3	423.9	469.9	481.1	16"
18"	mm	533.4	450.9	511.0	489.0	534.9	452.4	512.8	487.4	533.4	544.6	18"
20"	mm	584.2	501.7	558.8	533.4	585.7	503.2	560.3	531.9	584.2	595.4	20"
24"	mm	692.2	603.3	666.8	641.4	693.7	604.8	668.3	639.8	692.2	703.3	24"



150 Lbs

Ring Joint Dimensions ANSI B 16.5

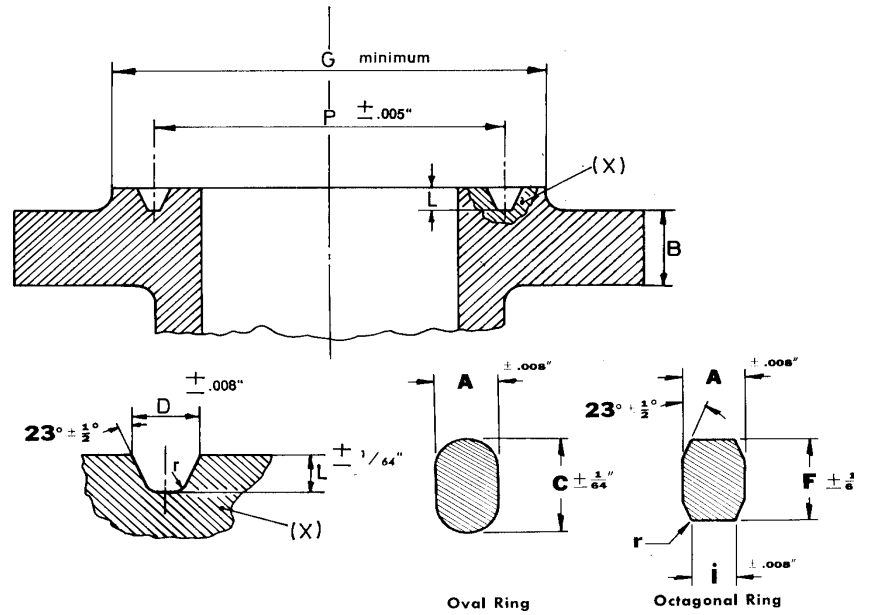


Nominal Pipe Size	Sizes in mm	Raised Face Ring Joint G	Pitch Diameter Groove P	Depth of Groove L	Radius at Bottom r	Width of Groove D	Width of Ring A	Height Oval Ring C	Height Octogonal Ring F	Width of Flat I	Ring Number R
1"	mm	63.5	47.6	6.35	0.8	8.7	7.9	14.3	12.7	5.2	15
1.1/4"	mm	73.2	57.2	6.35	0.8	8.7	7.9	14.3	12.7	5.2	17
1.1/2"	mm	82.5	65.1	6.35	0.8	8.7	7.9	14.3	12.7	5.2	19
2"	mm	101.6	82.6	6.35	0.8	8.7	7.9	14.3	12.7	5.2	22
2.1/2"	mm	120.7	101.6	6.35	0.8	8.7	7.9	14.3	12.7	5.2	25
3"	mm	133.4	114.3	6.35	0.8	8.7	7.9	14.3	12.7	5.2	29
3.1/2"	mm	153.9	131.8	6.35	0.8	8.7	7.9	14.3	12.7	5.2	33
4"	mm	171.5	149.2	6.35	0.8	8.7	7.9	14.3	12.7	5.2	36
5"	mm	193.5	171.5	6.35	0.8	8.7	7.9	14.3	12.7	5.2	40



150 Lbs

Ring Joint Dimensions ANSI B 16.5



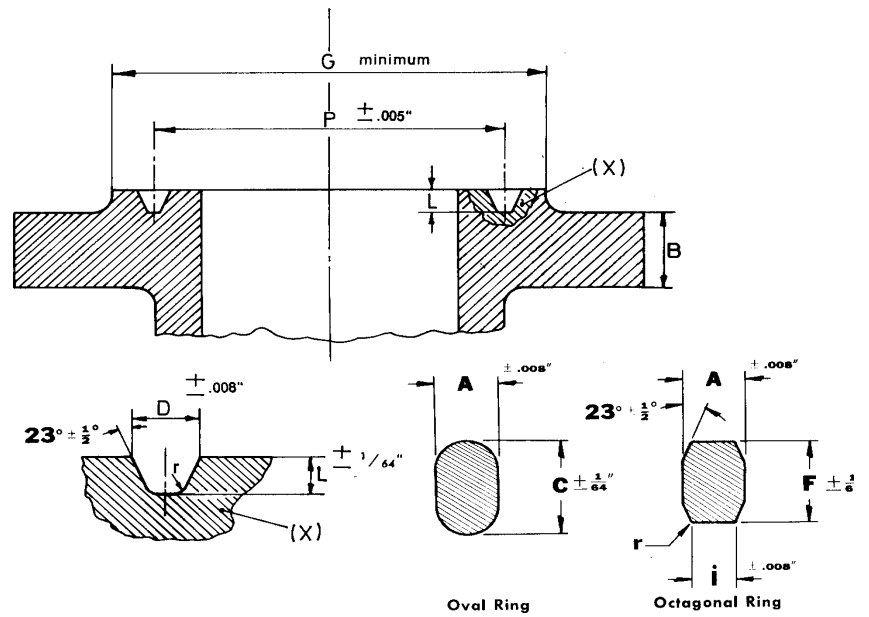
Nominal Pipe Size	Sizes in mm	Raised Face Ring Joint G	Pitch Diameter Groove P	Depth of Groove L	Radius at Bottom r	Width of Groove D	Width of Ring A	Height Oval Ring C	Height Octagonal Ring F	Width of Flat I	Ring Number R
6"	mm	218.9	193.7	6.35	0.8	8.7	7.9	14.3	12.7	5.2	43
8"	mm	273.1	247.7	6.35	0.8	8.7	7.9	14.3	12.7	5.2	48
10"	mm	330.2	304.8	6.35	0.8	8.7	7.9	14.3	12.7	5.2	52
12"	mm	406.4	381.0	6.35	0.8	8.7	7.9	14.3	12.7	5.2	56
14"	mm	425.5	396.9	6.35	0.8	8.7	7.9	14.3	12.7	5.2	59
16"	mm	482.6	454.0	6.35	0.8	8.7	7.9	14.3	12.7	5.2	64
18"	mm	546.1	517.5	6.35	0.8	8.7	7.9	14.3	12.7	5.2	68
20"	mm	596.9	558.8	6.35	0.8	8.7	7.9	14.3	12.7	5.2	72
24"	mm	711.2	673.1	6.35	0.8	8.7	7.9	14.3	12.7	5.2	76



300 - 600 Lbs

Ring Joint Dimensions

ANSI B 16.5



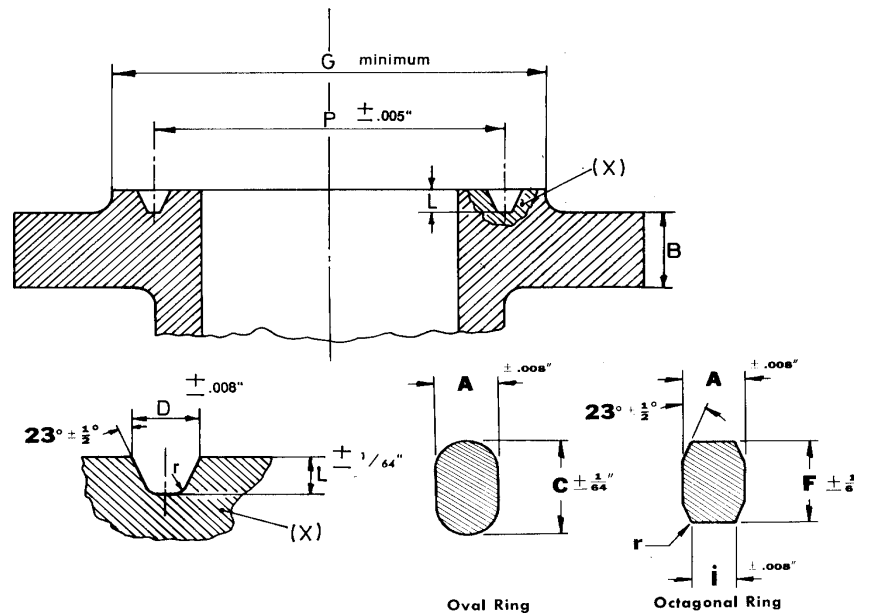
Nominal Pipe Size	Sizes in mm	Raised Face Ring Joint G	Pitch Diameter Groove P	Depth of Groove L	Radius at Bottom r	Width of Groove D	Width of Ring A	Height Oval Ring C	Height Octagonal Ring F	Width of Flat I	Ring Number R
1/2"	mm	50.8	34.1	5.60	0.8	7.1	6.35	11.1	9.53	4.3	11
3/4"	mm	63.5	42.9	6.35	0.8	8.7	7.9	14.3	12.7	5.2	13
1"	mm	69.9	50.8	6.35	0.8	8.7	7.9	14.3	12.7	5.2	16
1.1/4"	mm	79.2	60.3	6.35	0.8	8.7	7.9	14.3	12.7	5.2	18
1.1/2"	mm	90.4	68.3	6.35	0.8	8.7	7.9	14.3	12.7	5.2	20
2"	mm	108.0	82.6	7.9	0.8	11.9	11.1	17.5	15.88	7.7	23
2.1/2"	mm	127.0	101.6	7.9	0.8	11.9	11.1	17.5	15.88	7.7	26
3"	mm	146.1	123.8	7.9	0.8	11.9	11.1	17.5	15.88	7.7	31
3.1/2"	mm	158.8	131.8	7.9	0.8	11.9	11.1	17.5	15.88	7.7	34
4"	mm	174.8	149.2	7.9	0.8	11.9	11.1	17.5	15.88	7.7	37



300 - 600 Lbs

Ring Joint Dimensions

ANSI B 16.5

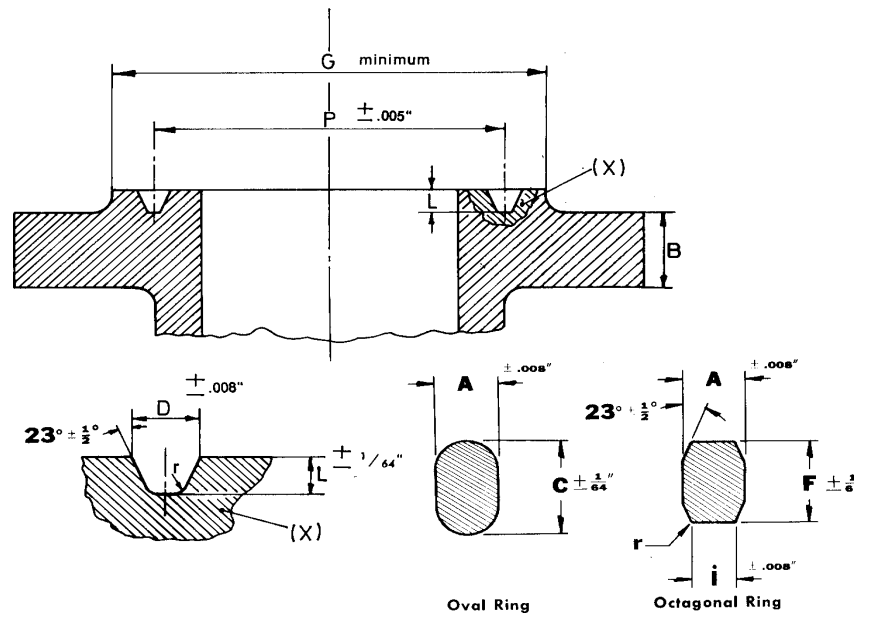


Nominal Pipe Size	Sizes in mm	Raised Face Ring Joint G	Pitch Diameter Groove P	Depth of Groove L	Radius at Bottom r	Width of Groove D	Width of Ring A	Height Oval Ring C	Height Octagonal Ring F	Width of Flat I	Ring Number R
5"	mm	209.5	181.0	7.9	0.8	11.9	11.1	17.5	15.88	7.7	41
6"	mm	241.3	211.1	7.9	0.8	11.9	11.1	17.5	15.88	7.7	45
8"	mm	301.8	269.9	7.9	0.8	11.9	11.1	17.5	15.88	7.7	49
10"	mm	355.6	323.9	7.9	0.8	11.9	11.1	17.5	15.88	7.7	53
12"	mm	412.8	381.0	7.9	0.8	11.9	11.1	17.5	15.88	7.7	57
14"	mm	457.5	419.1	7.9	0.8	11.9	11.1	17.5	15.88	7.7	61
16"	mm	508.0	469.9	7.9	0.8	11.9	11.1	17.5	15.88	7.7	65
18"	mm	574.5	533.4	7.9	0.8	11.9	11.1	17.5	15.88	7.7	69
20"	mm	635.0	584.2	9.5	1.6	13.5	12.7	19.0	17.46	8.7	73
24"	mm	749.3	692.2	11.1	1.6	16.7	15.9	22.2	20.64	10.5	77



900 Lbs

Ring Joint Dimensions ANSI B 16.5

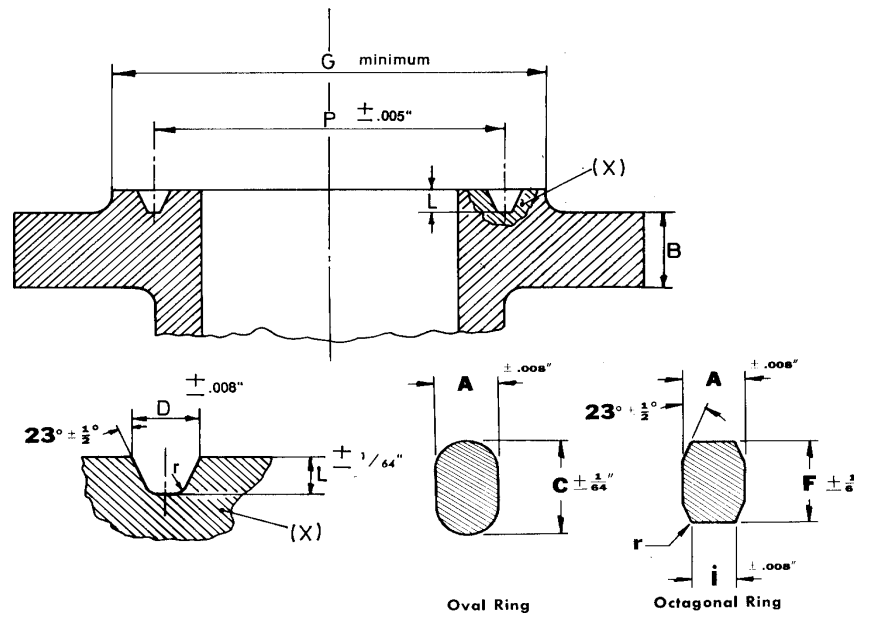


Nominal Pipe Size	Sizes in mm	Raised Face Ring Joint G	Pitch Diameter Groove P	Depth of Groove L	Radius at Bottom r	Width of Groove D	Width of Ring A	Height Oval Ring C	Height Octagonal Ring F	Width of Flat I	Ring Number R
1/2"	mm	60.5	39.7	6.35	0.8	8.7	7.9	14.3	12.7	5.2	12
3/4"	mm	66.5	44.5	6.35	0.8	8.7	7.9	14.3	12.7	5.2	14
1"	mm	69.9	50.8	6.35	0.8	8.7	7.9	14.3	12.7	5.2	16
1.1/4"	mm	79.2	60.3	6.35	0.8	8.7	7.9	14.3	12.7	5.2	18
1.1/2"	mm	90.4	68.3	6.35	0.8	8.7	7.9	14.3	12.7	5.2	20
2"	mm	124.0	95.3	7.9	0.8	11.9	11.1	17.5	15.88	7.7	24
2.1/2"	mm	136.7	108.0	7.9	0.8	11.9	11.1	17.5	15.88	7.7	27
3"	mm	155.4	123.8	7.9	0.8	11.9	11.1	17.5	15.88	7.7	31
4"	mm	180.8	149.2	7.9	0.8	11.9	11.1	17.5	15.88	7.7	37
5"	mm	215.9	181.0	7.9	0.8	11.9	11.1	17.5	15.88	7.7	41



900 Lbs

Ring Joint Dimensions ANSI B 16.5



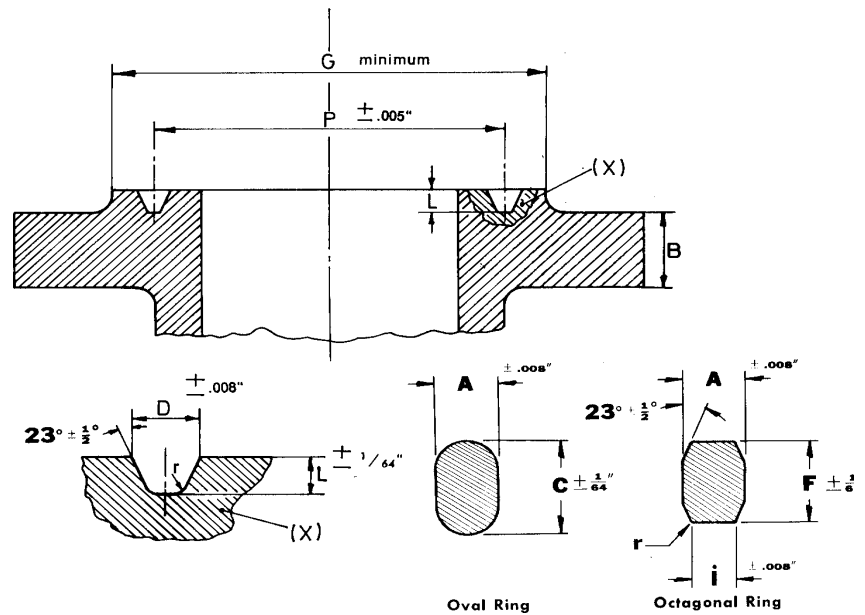
Nominal Pipe Size	Sizes in mm	Raised Face Ring Joint G	Pitch Diameter Groove P	Depth of Groove L	Radius at Bottom r	Width of Groove D	Width of Ring A	Height Oval Ring C	Height Octagonal Ring F	Width of Flat I	Ring Number R
6"	mm	241.3	211.1	7.9	0.8	11.9	11.1	17.5	15.88	7.7	45
8"	mm	307.8	269.9	7.9	0.8	11.9	11.1	17.5	15.88	7.7	49
10"	mm	362.0	323.9	7.9	0.8	11.9	11.1	17.5	15.88	7.7	53
12"	mm	419.1	381.0	7.9	0.8	11.9	11.1	17.5	15.88	7.7	57
14"	mm	466.9	419.1	11.1	1.5	16.7	15.9	22.2	20.64	10.5	62
16"	mm	523.9	469.9	11.1	1.5	16.7	15.9	22.2	20.64	10.5	66
18"	mm	593.9	533.4	12.7	1.5	19.8	19.0	25.4	23.8	12.3	70
20"	mm	647.7	584.2	12.7	1.5	19.8	19.0	25.4	23.8	12.3	74
24"	mm	771.7	692.2	15.9	2.3	27.0	25.4	33.3	31.75	17.3	78



1500 Lbs

Ring Joint Dimensions

ANSI B 16.5



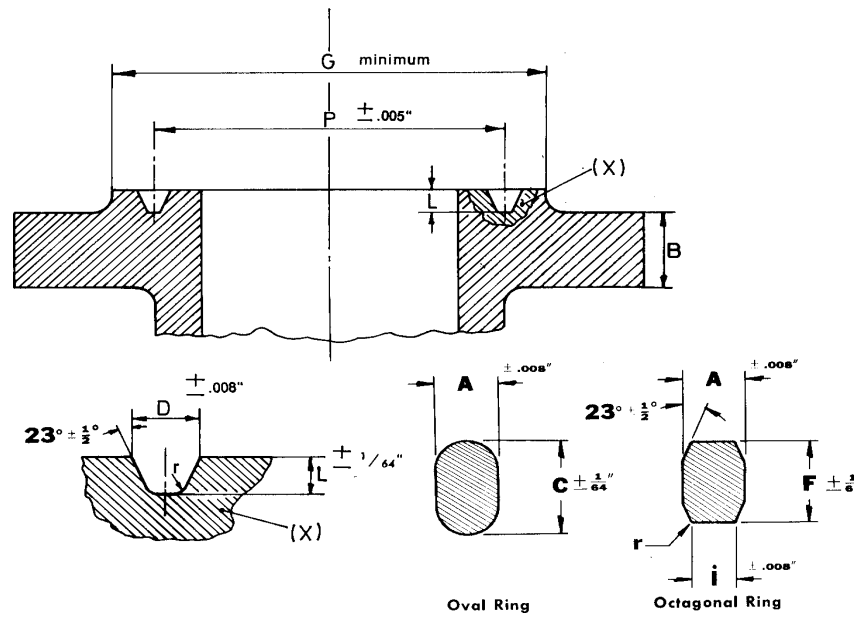
Nominal Pipe Size	Sizes in mm	Raised Face Ring Joint G	Pitch Diameter Groove P	Depth of Groove L	Radius at Bottom r	Width of Groove D	Width of Ring A	Height Oval Ring C	Height Octagonal Ring F	Width of Flat I	Ring Number R
1/2"	mm	60.5	39.7	6.35	0.8	8.7	7.9	14.3	12.7	5.2	12
3/4"	mm	66.5	44.5	6.35	0.8	8.7	7.9	14.3	12.7	5.2	14
1"	mm	71.4	50.8	6.35	0.8	8.7	7.9	14.3	12.7	5.2	16
1.1/4"	mm	81.0	60.3	6.35	0.8	8.7	7.9	14.3	12.7	5.2	18
1.1/2"	mm	91.9	68.3	6.35	0.8	8.7	7.9	14.3	12.7	5.2	20
2"	mm	124.0	95.3	7.9	0.8	11.9	11.1	17.5	15.88	7.7	24
2.1/2"	mm	136.7	108.0	7.9	0.8	11.9	11.1	17.5	15.88	7.7	27
3"	mm	168.1	136.5	7.9	0.8	11.9	11.1	17.5	15.88	7.7	35
4"	mm	193.5	161.9	7.9	0.8	11.9	11.1	17.5	15.88	7.7	39
5"	mm	228.6	193.7	7.9	0.8	11.9	11.1	17.5	15.88	7.7	44



1500 Lbs

Ring Joint Dimensions

ANSI B 16.5



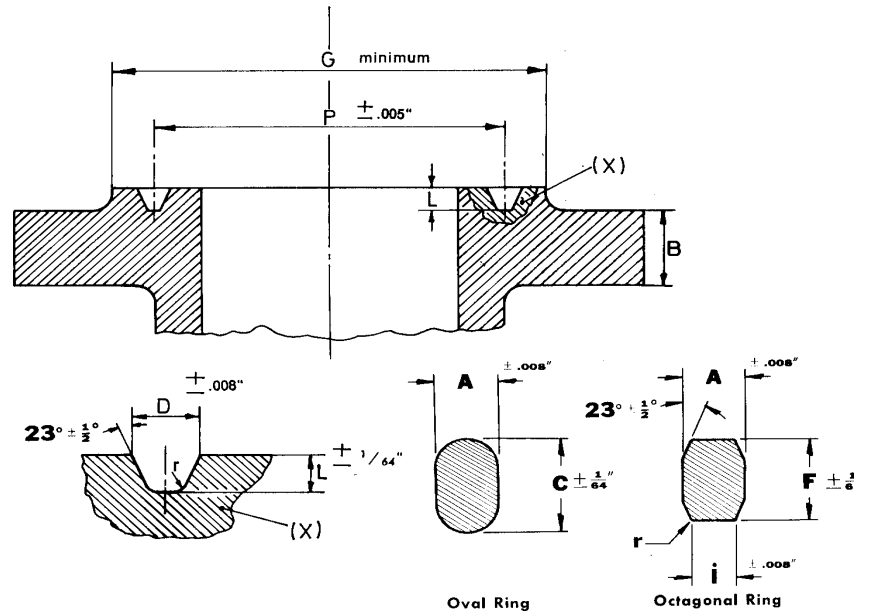
Nominal Pipe Size	Sizes in mm	Raised Face Ring Joint G	Pitch Diameter Groove P	Depth of Groove L	Radius at Bottom r	Width of Groove D	Width of Ring A	Height Oval Ring C	Height Octagonal Ring F	Width of Flat I	Ring Number R
6"	mm	247.7	211.1	9.5	1.6	13.5	12.7	19.0	17.46	8.7	46
8"	mm	317.5	269.9	11.1	1.6	16.7	15.9	22.2	20.64	10.5	50
10"	mm	371.3	323.9	11.1	1.6	16.7	15.9	22.2	20.64	10.5	54
12"	mm	438.2	381.0	14.3	1.6	23.0	22.2	28.6	26.99	14.8	58
14"	mm	489.0	419.1	15.9	2.4	27.0	25.4	33.3	31.75	17.3	63
16"	mm	546.1	469.9	17.5	2.4	30.2	28.6	36.5	34.92	19.8	67
18"	mm	612.6	533.4	17.5	2.4	30.2	28.6	36.5	34.92	19.8	71
20"	mm	673.1	584.2	17.5	2.4	33.3	31.7	39.7	38.10	22.3	75
24"	mm	793.8	692.2	20.6	2.4	36.5	34.9	44.4	41.27	24.8	79



2500 Lbs

Ring Joint Dimensions

ANSI B 16.5



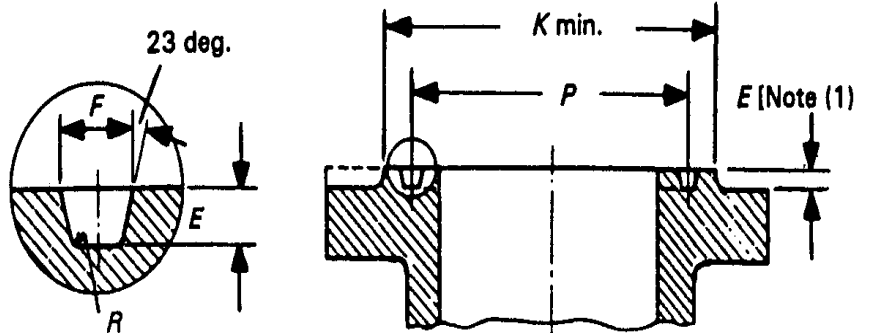
Nominal Pipe Size	Sizes in mm	Raised Face Ring Joint G	Pitch Diameter Groove P	Depth of Groove L	Radius at Bottom r	Width of Groove D	Width of Ring A	Height Oval Ring C	Height Octagonal Ring F	Width of Flat I	Ring Number R
1/2"	mm	65.0	42.9	6.35	0.8	8.7	7.9	14.3	12.7	5.2	13
3/4"	mm	73.2	50.8	6.35	0.8	8.7	7.9	14.3	12.7	5.2	16
1"	mm	82.6	60.3	6.35	0.8	8.7	7.9	14.3	12.7	5.2	18
1.1/4"	mm	101.6	72.2	7.9	0.8	11.9	11.1	17.5	15.88	7.7	21
1.1/2"	mm	114.3	82.6	7.9	0.8	11.9	11.1	17.5	15.88	7.7	23
2"	mm	133.4	101.6	7.9	0.8	11.9	11.1	17.5	15.88	7.7	26
2.1/2"	mm	149.4	111.1	9.5	1.6	13.5	12.7	19.0	17.46	8.7	28
3"	mm	168.1	127.0	9.5	1.6	13.5	12.7	19.0	17.46	8.7	32
4"	mm	203.2	157.2	11.1	1.6	16.7	15.9	22.2	20.64	10.5	38
5"	mm	241.3	190.5	12.7	1.6	19.8	19.0	25.4	23.81	12.3	42
6"	mm	279.4	228.6	12.7	1.6	19.8	19.0	25.4	23.81	12.3	47
8"	mm	339.9	279.4	14.3	1.6	23.0	22.2	28.6	26.99	14.8	51
10"	mm	425.5	342.9	17.5	2.4	30.2	28.6	36.5	34.92	19.8	55
12"	mm	495.3	406.4	17.5	2.4	33.3	31.7	39.7	38.10	22.3	60



300 - 400 - 600 - 900 Lbs

Ring Joint Dimensions ANSI B 16.47

Tolerances
 E (depth) + 0.4 / -0
 F (width) +/- 0.2
 P (pitch dia) +/- 0.1
 R (radius at bottom) max.
 23 deg. (angle) +/- 0.5 deg.



Nominal Pipe Size						RaceFace Ring Joint K	Pitch Diameter Groove P	Depth of Groove E	Radius at Bottom R	Width of Groove F	Ring Number R
300	400	600	900								
26"	26"	26"			809.8	749.3	12.7	1.5	19.8	93	
28"	28"	28"			860.6	800.1	12.7	1.5	19.8	94	
30"	30"	30"			917.4	857.3	12.7	1.5	19.8	95	
32"	32"	32"			984.3	914.4	14.3	1.5	23.0	96	
34"	34"	34"			1035.1	965.2	14.3	1.5	23.0	97	
36"	36"	36"			1092.2	1022.4	14.3	1.5	23.0	98	
				26"	831.9	749.3	17.5	2.3	30.2	100	
				28"	889.0	800.1	17.5	2.3	33.3	101	
				30"	946.2	857.3	17.5	2.3	33.3	102	
				32"	1003.3	914.4	17.5	2.3	33.3	103	
				34"	1066.8	965.2	20.6	2.3	36.5	104	
				36"	1124.0	1022.4	20.6	2.3	36.5	105	

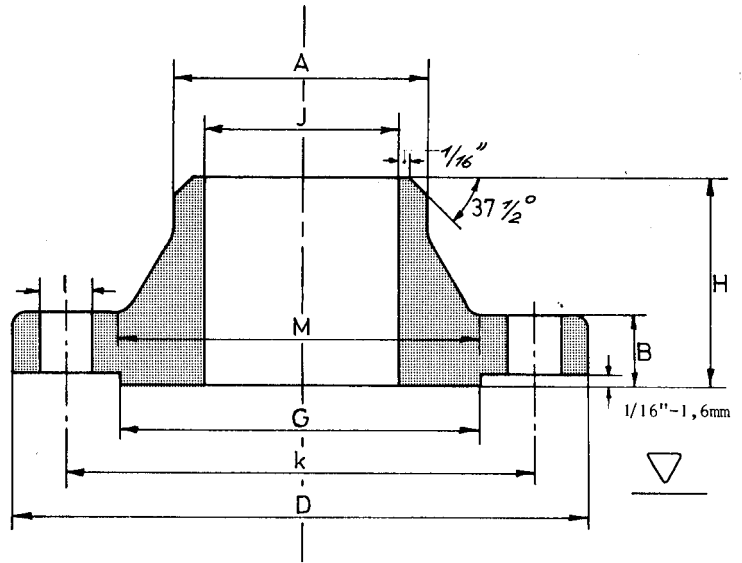


150 Lbs

Welding Neck

1/2" - 24" ANSI B 16.5

26" - 48" BS 3293



* Diameter J to be specified.

Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A	Diam. at Base of Hub M	O.D. Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K.	Approx Weight Kg
1/2"	mm	88.9		11.2	47.8	21.3	30.2	35.1	4	15.7	60.5	0.5
3/4"	mm	98.6		12.7	52.3	26.7	38.1	42.9	4	15.7	69.9	0.7
1"	mm	108.0		14.2	55.6	33.5	49.3	50.8	4	15.7	79.2	1
1.1/4"	mm	117.3		15.7	57.2	42.2	58.7	63.5	4	15.7	88.9	1.4
1.1/2"	mm	127.0		17.5	62.0	48.3	65.0	73.2	4	15.7	98.6	1.8
2"	mm	152.4		19.1	63.5	60.5	77.7	91.9	4	19.1	120.7	2.6
2.1/2"	mm	177.8		22.4	69.9	73.2	90.4	104.6	4	19.1	139.7	4.2
3"	mm	190.5		23.9	69.9	88.9	108.0	127.0	4	19.1	152.4	5
3.1/2"	mm	215.9		23.9	71.4	101.6	122.2	139.7	8	19.1	177.8	6.1
4"	mm	228.6		23.9	76.2	114.3	134.9	157.2	8	19.1	190.5	7
5"	mm	254.0		23.9	88.9	141.2	163.6	185.7	8	22.4	215.9	8.6
6"	mm	279.4		25.4	88.9	168.4	192.0	215.9	8	22.4	241.3	10.6
8"	mm	342.9		28.4	101.6	219.2	246.1	269.7	8	22.4	298.5	17.6
10"	mm	406.4		30.2	101.6	273.1	304.8	323.8	12	25.4	362.0	24

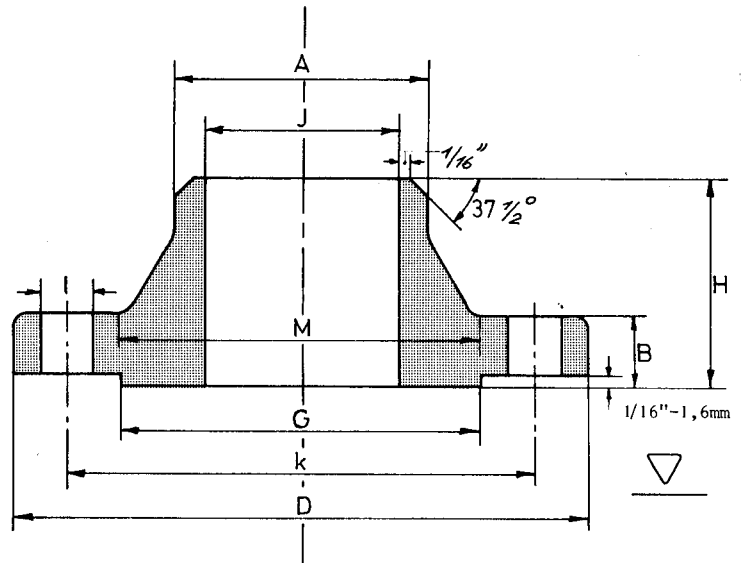


150 Lbs

Welding Neck

1/2" - 24" ANSI B 16.5

26" - 48" BS 3293



* Diameter J to be specified.

Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A	Diam. at Base of Hub M	O.D. Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K.	Approx Weight Kg
12"	mm	482.6		31.8	114.3	323.9	365.3	381.0	12	25.4	431.8	37
14"	mm	533.4		35.1	127.0	355.6	400.1	412.8	12	28.4	476.3	49
16"	mm	596.9		36.6	127.0	406.4	457.2	469.9	16	28.4	539.8	61
18"	mm	635.0		39.6	139.7	457.2	505.0	533.4	16	31.8	577.9	68
20"	mm	698.5		42.9	144.5	508.0	558.8	584.2	20	31.8	635.0	85
22"	mm	749.3		46.0	149.2	558.8	609.6	641.2	20	35.1	692.1	102
24"	mm	812.8		47.8	152.4	609.6	663.4	692.2	20	35.1	749.3	115
26"	mm	869.9		50.8	127.0	660.4	723.9	742.9	24	34.9	806.4	118
28"	mm	927.1		52.4	128.6	711.2	781.0	793.7	28	34.9	863.6	134
30"	mm	984.2		54.0	130.2	762.0	831.8	857.2	28	34.9	914.4	153
32"	mm	1060.4		57.1	133.3	812.8	889.0	908.0	28	41.3	977.9	190
34"	mm	1111.2		58.7	134.9	863.6	939.8	958.8	32	41.3	1028.7	212
36"	mm	1168.4		60.3	136.5	914.4	996.9	1022.3	32	41.3	1085.8	242
38"	mm	1238.2		60.3	136.5	965.2	1060.4	1073.1	32	41.3	1149.3	284

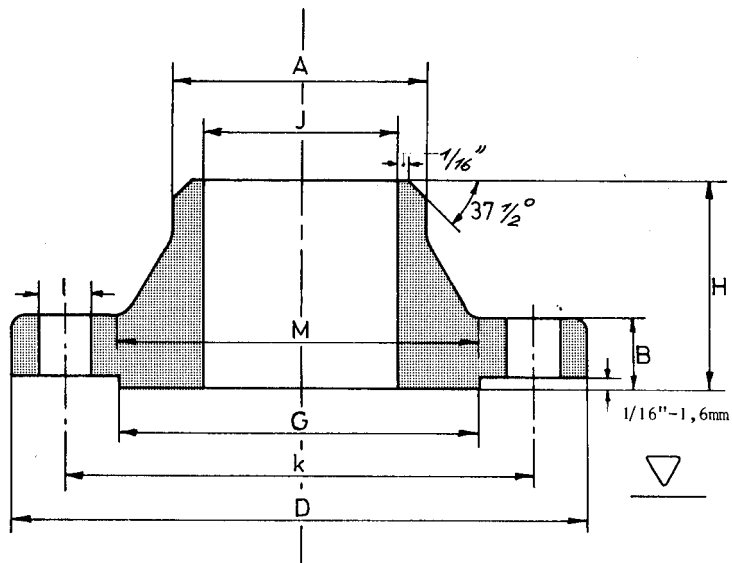


150 Lbs

Welding Neck

1/2" - 24" ANSI B 16.5

26" - 48" BS 3293



* Diameter J to be specified.

Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A	Diam. at Base of Hub M	O.D. Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K.	Approx Weight Kg
40"	mm	1289.0		63.5	139.7	1016.0	1111.2	1123.9	36	41.3	1200.1	311
42"	mm	1346.2		66.7	142.9	1066.8	1168.4	1193.8	36	41.3	1257.3	358
44"	mm	1403.3		66.7	142.9	1117.6	1219.2	1244.6	40	41.3	1314.4	376
46"	mm	1454.1		68.3	144.5	1168.4	1270.0	1295.4	40	41.3	1365.2	399
48"	mm	1511.1		69.8	146.0	1219.2	1327.1	1358.9	44	41.3	1422.4	440

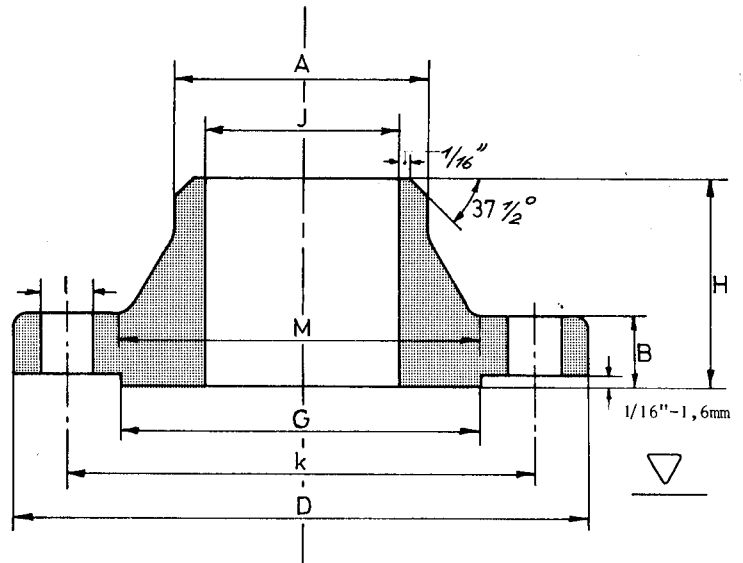


300 Lbs

Welding Neck

1/2" - 24" ANSI B 16.5

26" - 36" BS 3293



* Diameter J to be specified.

Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A	Diam. at Base of Hub M	O.D. Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K.	Approx Weight Kg
1/2"	mm	95.2		14.2	52.3	21.3	38.1	35.0	4	15.7	66.5	0.8
3/4"	mm	117.3		15.7	57.1	26.7	47.7	42.9	4	19.0	82.5	1.3
1"	mm	123.9		17.5	62.0	33.5	53.8	50.8	4	19.0	88.9	1.6
1.1/4"	mm	133.3		19.0	65.0	42.2	63.5	63.5	4	19.0	98.5	2.1
1.1/2"	mm	155.4		20.6	68.3	48.3	69.8	73.1	4	22.3	114.3	3
2"	mm	165.1		22.3	69.8	60.4	84.0	91.9	8	19.0	127.0	3.4
2.1/2"	mm	190.5		25.4	76.2	73.1	100.0	104.6	8	22.3	149.3	5.2
3"	mm	209.5		28.4	79.2	88.9	117.3	127.0	8	22.3	168.1	7
3.1/2"	mm	228.6		30.2	81.0	101.6	133.3	139.7	8	22.3	184.1	8.7
4"	mm	254.0		31.8	85.8	114.3	146.0	157.2	8	22.3	200.1	11.2
5"	mm	279.4		35.0	98.5	141.2	177.8	185.6	8	22.3	234.9	16
6"	mm	317.5		36.5	98.5	168.4	206.2	215.9	12	22.3	269.7	20
8"	mm	381.0		41.1	111.2	219.2	260.3	269.7	12	25.4	330.2	30
10"	mm	444.5		47.7	117.3	273.0	320.5	323.8	16	28.6	387.3	43

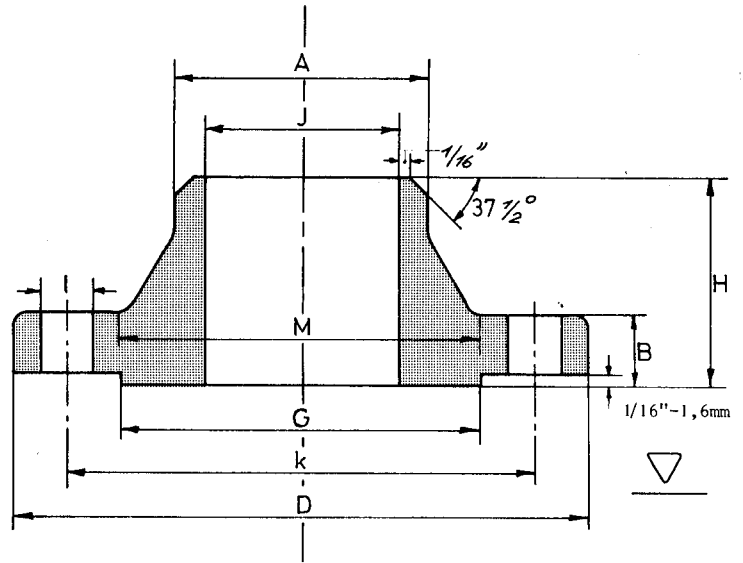


300 Lbs

Welding Neck

1/2" - 24" ANSI B 16.5

26" - 36" BS 3293



* Diameter J to be specified.

Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A	Diam. at Base of Hub M	O.D. Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K.	Approx Weight Kg
12"	mm	520.7		50.8	130.0	323.8	374.6	381.0	16	31.7	450.8	62
14"	mm	584.2		53.8	142.7	355.6	425.4	412.7	20	31.7	514.3	86
16"	mm	647.7		57.1	146.0	406.4	482.6	469.9	20	35.0	571.5	106
18"	mm	711.2		60.4	158.7	457.2	533.4	533.4	24	35.0	628.6	131
20"	mm	774.7		63.5	162.0	508.0	587.2	584.2	24	35.0	685.8	158
22"	mm	838.2		66.7	165.1	558.8	641.2	641.2	24	41.1	742.9	195
24"	mm	914.4		69.8	168.1	609.6	701.5	692.1	24	41.1	812.8	230
26"	mm	971.5		79.4	184.1	666.7	720.7	749.3	28	44.4	876.3	279
28"	mm	1035.0		85.7	196.8	717.5	774.7	800.1	28	44.4	939.8	340
30"	mm	1092.2		92.1	209.5	768.3	827.1	857.2	28	47.6	996.9	390
32"	mm	1149.3		98.4	222.2	819.1	881.1	914.4	28	50.8	1054.1	435
34"	mm	1206.5		101.6	231.8	871.5	936.6	965.2	28	50.8	1104.9	504
36"	mm	1270.0		104.8	241.3	922.3	990.6	1022.3	32	54.0	1168.4	560

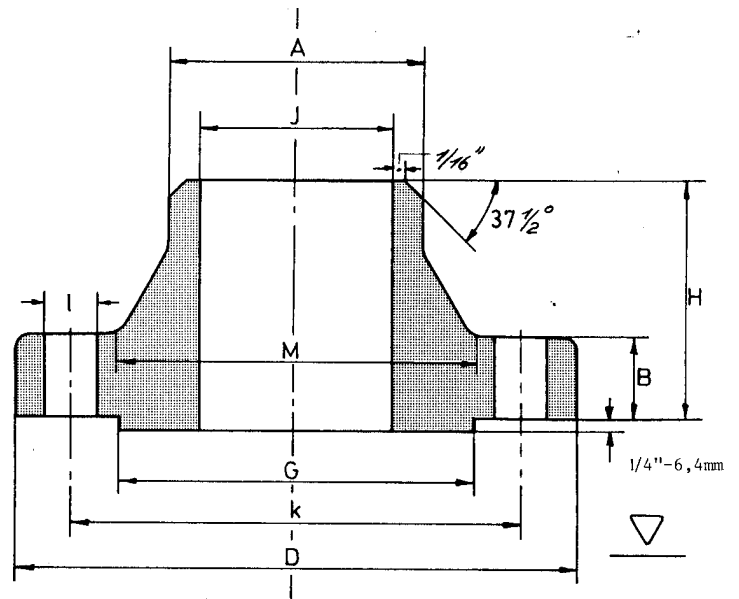


600 Lbs

Welding Neck

1/2" - 24" ANSI B 16.5

26" - 36" BS 3293



* Diameter J to be specified.

Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A	Diam. at Base of Hub M	O.D. Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K.	Approx Weight Kg
1/2"	mm	95.3		14.2	52.3	21.3	38.1	34.9	4	15.7	66.5	0.9
3/4"	mm	117.3		15.7	57.2	26.7	47.8	42.9	4	19.1	82.6	1.5
1"	mm	124.0		17.5	62.0	33.5	53.8	50.8	4	19.1	88.9	1.8
1.1/4"	mm	133.4		20.6	66.5	42.2	63.5	63.5	4	19.1	98.6	2.5
1.1/2"	mm	155.4		22.4	69.9	48.3	69.9	73.0	4	22.4	114.3	3.5
2"	mm	165.1		25.4	73.2	60.5	84.1	92.1	8	19.1	127.0	4.4
2.1/2"	mm	190.5		28.4	79.2	73.2	100.1	104.8	8	22.4	149.4	6.4
3"	mm	209.6		31.8	82.6	88.9	117.3	127.0	8	22.4	168.1	8.6
3.1/2"	mm	228.6		35.1	85.9	101.6	133.4	139.7	8	25.4	184.2	11.7
4"	mm	273.1		38.1	101.6	114.3	152.4	157.2	8	25.4	215.9	18
5"	mm	330.2		44.5	114.3	141.2	189.0	185.7	8	28.4	266.7	30
6"	mm	355.6		47.8	117.3	168.4	222.3	215.9	12	28.4	292.1	35
8"	mm	419.1		55.6	133.4	219.2	273.1	269.9	12	31.8	349.3	54
10"	mm	508.0		63.5	152.4	273.1	342.9	323.8	16	35.1	431.8	87

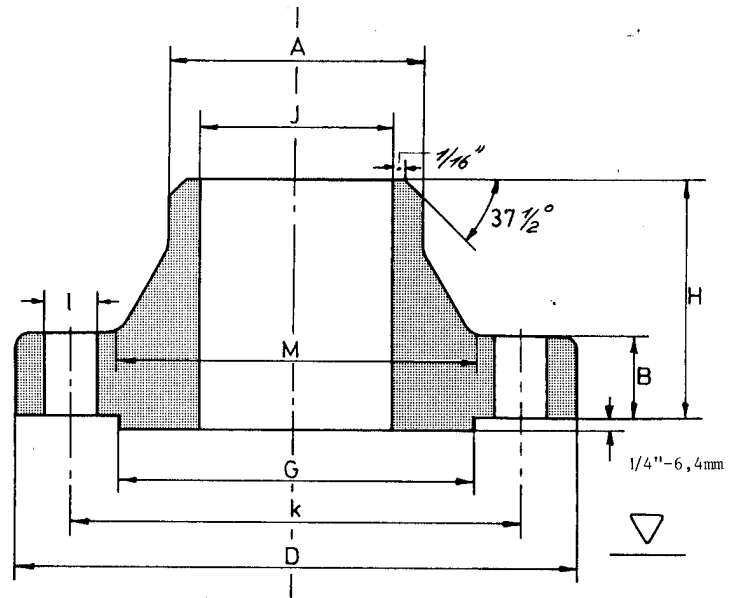


600 Lbs

Welding Neck

1/2" - 24" ANSI B 16.5

26" - 36" BS 3293



* Diameter J to be specified.

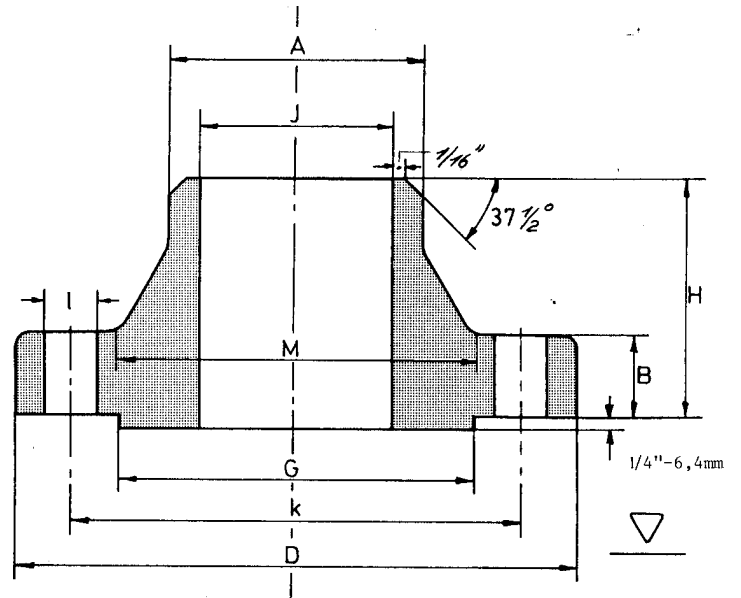
Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A	Diam. at Base of Hub M	O.D. Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K.	Approx Weight Kg
12"	mm	558.8		66.5	155.4	323.9	400.1	381.0	20	35.1	489.0	103
14"	mm	603.3		69.9	165.1	355.6	431.8	412.8	20	38.1	527.1	122
16"	mm	685.8		76.2	177.8	406.4	495.3	469.9	20	41.1	603.3	170
18"	mm	743.0		82.6	184.2	457.2	546.1	533.4	20	44.5	654.1	204
20"	mm	812.8		88.9	190.5	508.0	609.6	584.2	24	44.5	723.9	254
22"	mm	869.9		95.2	196.8	558.8	666.7	641.2	24	47.6	777.9	281
24"	mm	939.8		101.6	203.2	609.6	717.6	692.2	24	50.8	838.2	358
26"	mm	1016.0		107.9	222.2	671.5	747.7	749.3	28	50.8	914.4	437
28"	mm	1073.1		111.1	234.9	723.9	803.3	800.1	28	54.0	965.2	508
30"	mm	1130.3		114.3	247.6	774.7	862.0	857.2	28	54.0	1022.3	559
32"	mm	1193.8		117.5	260.3	825.5	917.6	914.4	28	60.3	1079.5	680
34"	mm	1244.6		120.6	269.9	877.9	973.1	965.2	28	60.3	1130.3	717
36"	mm	1314.4		123.8	282.6	928.7	1031.9	1022.3	28	66.7	1193.8	780



900 Lbs

Welding Neck

ANSI B 16.5

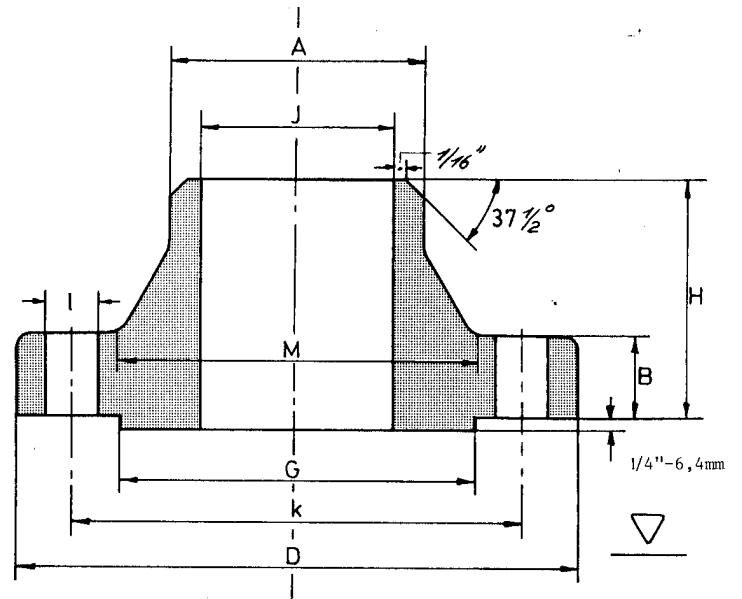


* Diameter J to be specified.

Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A	Diam. at Base of Hub M	O.D. Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K.	Approx Weight Kg
1/2"	mm	120.6		22.3	60.4	21.3	38.1	35.0	4	22.3	82.5	2.3
3/4"	mm	130.2		25.4	69.8	26.7	44.4	42.9	4	22.3	88.9	2.7
1"	mm	149.3		28.4	73.1	33.4	52.3	50.8	4	25.4	101.6	4.1
1.1/4"	mm	158.7		28.4	73.1	42.2	63.5	63.5	4	25.4	111.2	4.5
1.1/2"	mm	177.8		31.7	82.5	48.3	69.8	73.1	4	28.4	123.9	5.9
2"	mm	215.9		38.1	101.6	60.3	104.6	91.9	8	25.4	165.1	11.3
2.1/2"	mm	244.3		41.1	104.6	73.0	123.9	104.6	8	28.4	190.5	16.3
3"	mm	241.3		38.1	101.6	88.9	127.0	127.0	8	25.4	190.5	14
4"	mm	292.1		44.4	114.3	114.3	158.7	157.2	8	31.7	234.9	23
5"	mm	349.2		50.8	127.0	141.2	190.5	185.6	8	35.0	279.4	38
6"	mm	381.0		55.6	139.7	168.4	234.9	215.9	12	31.7	317.5	48
8"	mm	469.9		63.5	162.0	219.2	298.4	269.7	12	38.1	393.7	82
10"	mm	546.1		69.8	184.1	273.0	368.3	323.8	16	38.1	469.9	119
12"	mm	609.6		79.2	200.1	323.8	419.1	381.0	20	38.1	533.4	157



900 Lbs
Welding Neck
ANSI B 16.5



* Diameter J to be specified.

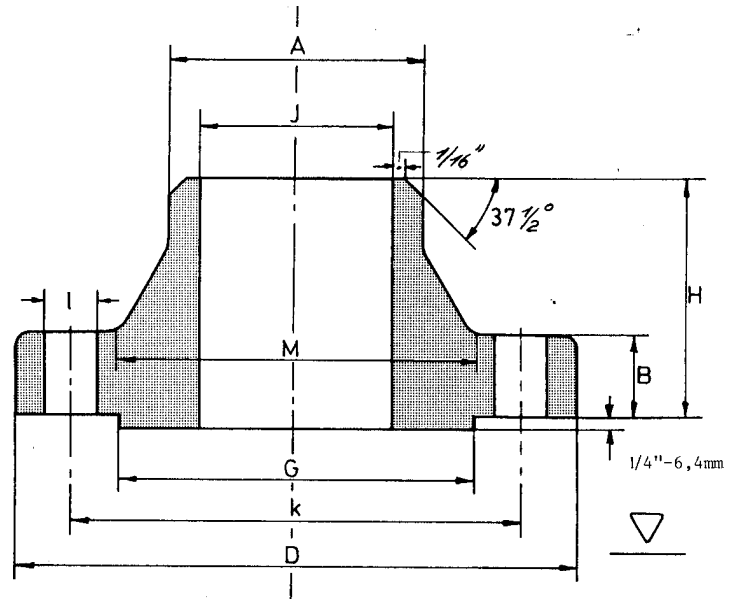
Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A	Diam. at Base of Hub M	O.D. Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K.	Approx Weight Kg
14"	mm	641.3		85.8	212.8	355.6	450.8	412.7	20	41.1	558.8	180
16"	mm	704.8		88.9	215.9	406.4	508.0	469.9	20	44.4	615.9	217
18"	mm	787.4		101.6	228.6	457.2	565.1	533.4	20	50.8	685.8	298
20"	mm	857.2		107.9	247.6	508.0	622.3	584.2	20	53.8	749.3	362
24"	mm	1041.4		139.7	292.1	609.6	749.3	692.1	20	66.5	901.7	665



1500 Lbs

Welding Neck

ANSI B 16.5



* Diameter J to be specified.

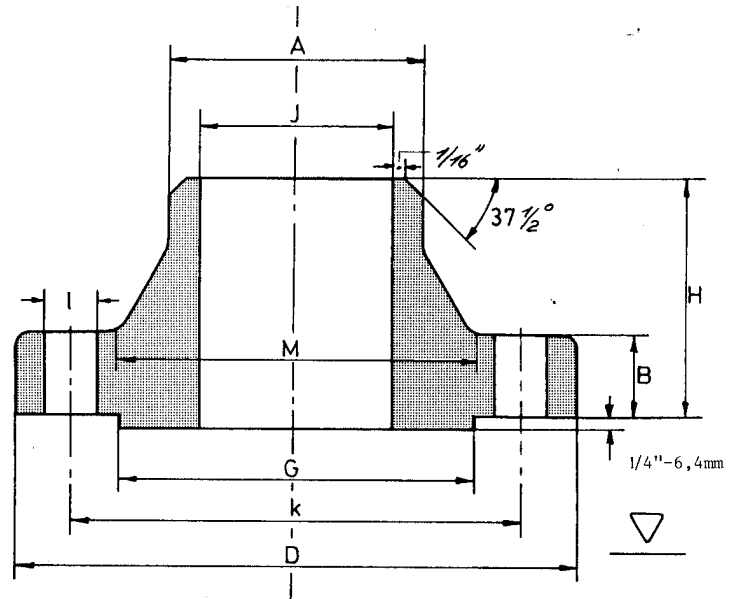
Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A	Diam. at Base of Hub M	O.D. Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K.	Approx Weight Kg
1/2"	mm	120.6		22.3	60.4	21.3	38.1	35.0	4	22.3	82.5	2.3
3/4"	mm	130.2		25.4	69.8	26.7	44.4	42.9	4	22.3	88.9	2.7
1"	mm	149.3		28.4	73.1	33.4	52.3	50.8	4	25.4	101.6	4.1
1.1/4"	mm	158.7		28.4	73.1	42.2	63.5	63.5	4	25.4	111.2	4.5
1.1/2"	mm	177.8		31.7	82.5	48.3	69.8	73.1	4	28.4	123.9	5.9
2"	mm	215.9		38.1	101.6	60.3	104.6	91.9	8	25.4	165.1	11.3
2.1/2"	mm	244.3		41.1	104.6	73.0	123.9	104.6	8	28.4	190.5	16.3
3"	mm	266.7		47.7	117.3	88.9	133.3	127.0	8	31.7	203.2	21.8
4"	mm	311.1		53.8	123.9	114.3	162.0	157.2	8	35.0	241.3	33
5"	mm	374.6		73.1	155.4	141.2	196.8	185.6	8	41.1	292.1	59
6"	mm	393.7		82.5	171.4	168.4	228.6	215.9	12	38.1	317.5	75
8"	mm	482.6		91.9	212.8	219.2	292.1	269.7	12	44.4	393.7	125
10"	mm	584.2		107.9	254.0	273.0	368.3	323.8	12	50.8	482.6	206
12"	mm	673.1		123.9	282.4	323.8	450.8	381.0	16	53.8	571.5	313



1500 Lbs

Welding Neck

ANSI B 16.5



* Diameter J to be specified.

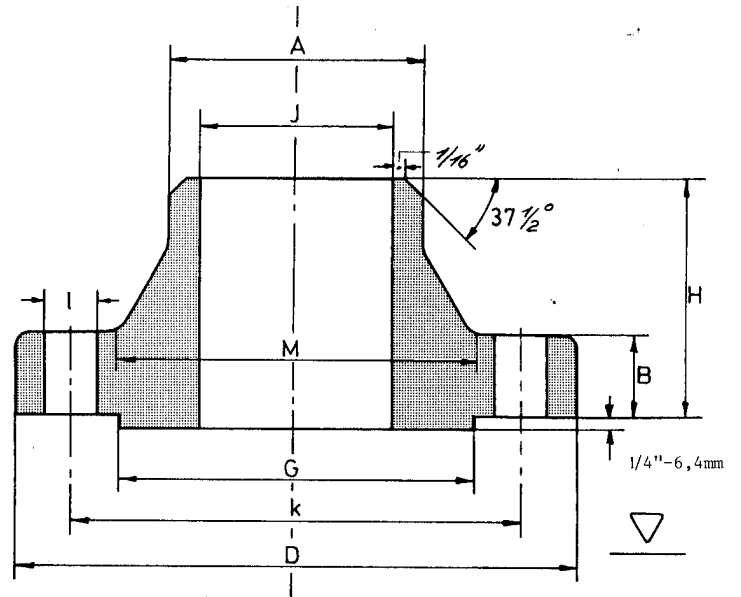
Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A	Diam. at Base of Hub M	O.D. Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K.	Approx Weight Kg
14"	mm	749.3		133.3	298.4	355.6	495.3	412.7	16	60.4	635.0	380
16"	mm	825.5		146.0	311.1	406.4	552.4	469.9	16	66.5	704.8	485
18"	mm	914.4		162.0	327.1	457.2	596.9	533.4	16	73.1	774.7	644
20"	mm	984.2		177.8	355.6	508.0	641.3	584.2	16	79.2	831.8	775
24"	mm	1168.4		203.2	406.4	609.6	762.0	692.1	16	91.9	990.6	1232



2500 Lbs

Welding Neck

ANSI B 16.5



* Diameter J to be specified.

Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A	Diam. at Base of Hub M	O.D. Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K.	Approx Weight Kg
1/2"	mm	133.4		30.2	73.2	21.3	42.9	35.1	4	22.4	88.9	3.2
3/4"	mm	139.7		31.8	79.2	26.7	50.8	42.9	4	22.4	95.3	3.7
1"	mm	158.8		35.1	88.9	33.5	57.2	50.8	4	25.4	108.0	5.3
1.1/4"	mm	184.2		38.1	95.3	42.2	73.2	63.5	4	28.4	130.0	7.8
1.1/2"	mm	203.2		44.5	111.3	48.3	79.2	73.2	4	31.8	146.1	11
2"	mm	235.0		50.8	127.0	60.5	95.3	91.9	8	28.4	171.5	17
2.1/2"	mm	266.7		57.2	142.7	73.2	114.3	104.6	8	31.8	196.9	24
3"	mm	304.8		66.5	168.1	88.9	133.4	127.0	8	35.1	228.6	37
4"	mm	355.6		76.2	190.5	114.3	165.1	157.2	8	41.1	273.1	56
5"	mm	419.1		91.9	228.6	141.2	203.2	185.7	8	47.8	323.9	93
6"	mm	482.6		108.0	273.1	168.4	235.0	215.9	8	53.8	368.3	143
8"	mm	552.5		127.0	317.5	219.2	304.8	269.7	12	53.8	438.2	215
10"	mm	673.1		165.1	419.1	273.0	374.7	323.9	12	66.5	539.8	406
12"	mm	762.0		184.2	463.6	323.9	441.5	381.0	12	73.2	619.3	572

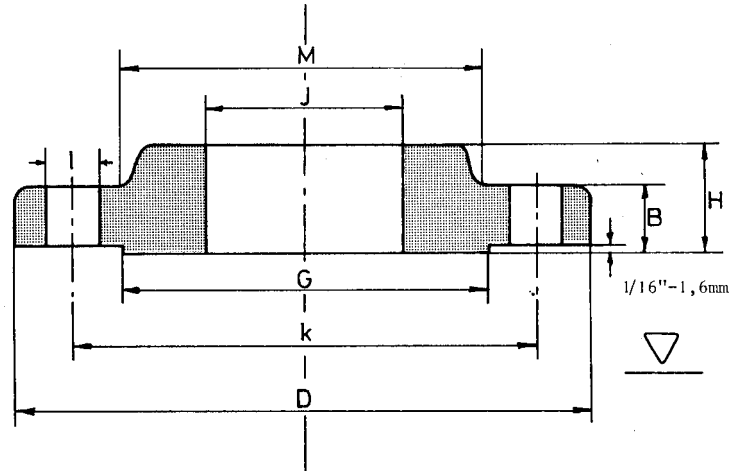


150 Lbs

Slip On Flanges

1/2" - 24" ANSI B 16.5

26" - 48" BS 3293



Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	88.9	22.4	11.2	15.7	30.2	35.1	4	15.7	60.5	0.4
3/4"	mm	98.6	27.7	12.7	15.7	38.1	42.9	4	15.7	69.9	0.6
1"	mm	108.0	34.5	14.2	17.5	49.3	50.8	4	15.7	79.2	0.8
1.1/4"	mm	117.3	43.2	15.7	20.6	58.7	63.5	4	15.7	88.9	1
1.1/2"	mm	127.0	49.5	17.5	22.4	65.0	73.2	4	15.7	98.6	1.4
2"	mm	152.4	62.0	19.1	25.4	77.7	91.9	4	19.1	120.7	2.1
2.1/2"	mm	177.8	74.7	22.4	28.4	90.4	104.6	4	19.1	139.7	3.3
3"	mm	190.5	90.7	23.9	30.2	108.0	127.0	4	19.1	152.4	3.9
3.1/2"	mm	215.9	103.4	23.9	31.8	122.2	139.7	8	19.1	177.8	4.9
4"	mm	228.6	116.1	23.9	33.3	134.9	157.2	8	19.1	190.5	5.4
5"	mm	254.0	143.8	23.9	36.6	163.6	185.7	8	22.4	215.9	6.1
6"	mm	279.4	170.7	25.4	39.6	192.0	215.9	8	22.4	241.3	7.5
8"	mm	342.9	221.5	28.4	44.5	246.1	269.7	8	22.4	298.5	12.1
10"	mm	406.4	276.4	30.2	49.3	304.8	323.9	12	25.4	362.0	16.5

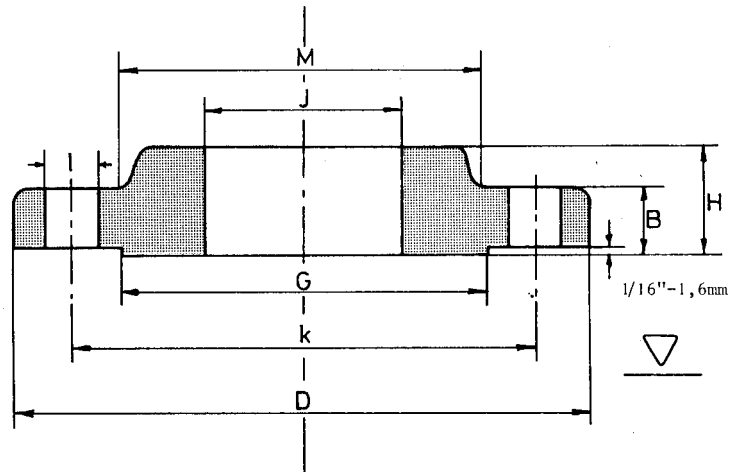


150 Lbs

Slip On Flanges

1/2" - 24" ANSI B 16.5

26" - 48" BS 3293



Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H		Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
12"	mm	482.6	327.2	31.8	55.6		365.3	381.0	12	25.4	431.8	27
14"	mm	533.4	359.2	35.1	57.2		400.1	412.8	12	28.4	476.2	35
16"	mm	596.9	410.5	36.6	63.5		457.2	469.9	16	28.4	539.8	45
18"	mm	635.0	461.8	39.6	68.3		505.0	533.4	16	31.8	577.9	49
20"	mm	698.5	513.1	42.9	73.2		558.8	584.2	20	31.8	635.0	62
22"	mm	749.3	564.4	46.0	79.4		609.6	641.2	20	35.1	692.1	85
24"	mm	812.8	616.0	47.8	82.6		663.4	692.2	20	35.1	749.3	87
26"	mm	869.9	666.7	50.8	85.7		723.9	742.9	24	34.9	806.4	107
28"	mm	927.1	717.6	52.4	87.3		781.0	793.7	28	34.9	863.6	122
30"	mm	984.2	768.3	54.0	88.9		831.8	857.2	28	34.9	914.4	138
32"	mm	1060.4	819.1	57.1	92.1		889.0	908.0	28	41.3	977.9	170
34"	mm	1111.2	869.9	58.7	93.7		939.8	958.8	32	41.3	1028.7	184
36"	mm	1168.4	920.7	60.3	95.2		996.9	1022.3	32	41.3	1085.8	211
38"	mm	1238.2	971.5	60.3	95.2		1060.4	1073.1	32	41.3	1149.3	249

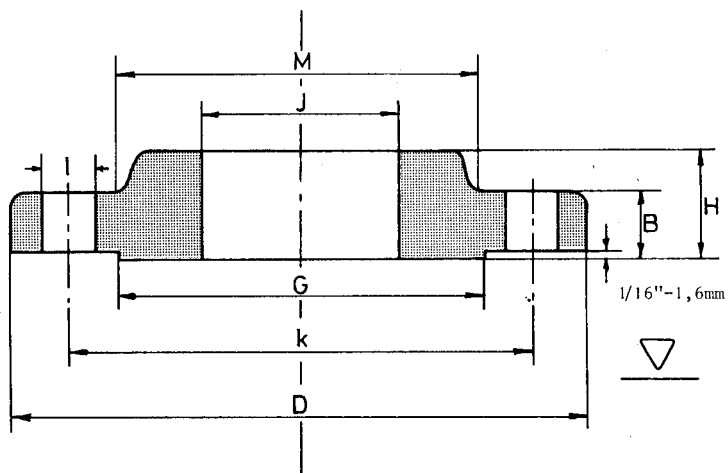


150 Lbs

Slip On Flanges

1/2" - 24" ANSI B 16.5

26" - 48" BS 3293



Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H		Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
40"	mm	1289.0	1022.3	63.5	98.4		1111.2	1123.9	36	41.3	1200.1	272
42"	mm	1346.2	1073.1	66.7	101.6		1168.4	1193.8	36	41.3	1257.3	313
44"	mm	1403.3	1123.9	66.7	101.6		1219.2	1244.6	40	41.3	1314.4	331
46"	mm	1454.1	1174.7	68.3	103.2		1270.0	1295.4	40	41.3	1365.2	349
48"	mm	1511.1	1225.5	69.8	104.8		1327.1	1358.9	44	41.3	1422.4	381

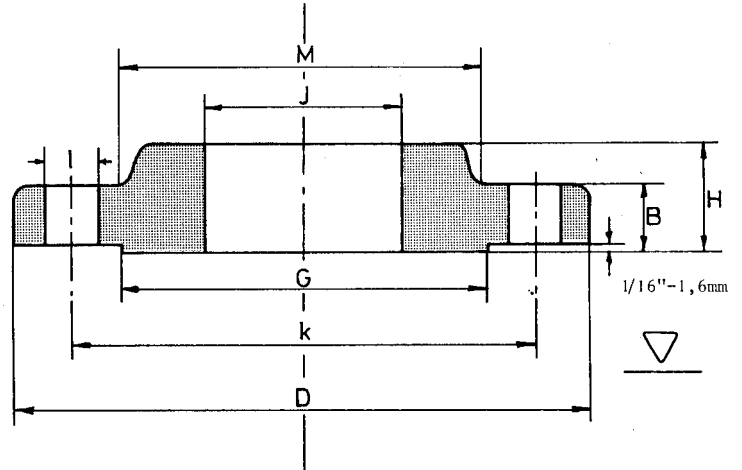


300 Lbs

Slip On Flanges

1/2" - 24" ANSI B 16.5

26" - 36" BS 3293



Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	95.2	22.3	14.2	22.3	38.1	35.0	4	15.7	66.5	0.7
3/4"	mm	117.3	27.7	15.7	25.4	47.7	42.9	4	19.0	82.5	1.2
1"	mm	123.9	34.5	17.5	26.9	53.8	50.8	4	19.0	88.9	1.4
1.1/4"	mm	133.3	43.2	19.0	26.9	63.5	63.5	4	19.0	98.5	1.7
1.1/2"	mm	155.4	49.5	20.6	30.2	69.8	73.1	4	22.3	114.3	2.5
2"	mm	165.1	62.0	22.3	33.2	84.0	91.9	8	19.0	127.0	2.9
2.1/2"	mm	190.5	74.7	25.4	38.1	100.0	104.6	8	22.3	149.3	4.4
3"	mm	209.5	90.7	28.4	42.9	117.3	127.0	8	22.3	168.1	5.6
3.1/2"	mm	228.6	103.4	30.2	44.4	133.3	139.7	8	22.3	184.1	7.4
4"	mm	254.0	116.1	31.7	47.7	146.0	157.2	8	22.3	200.1	10
5"	mm	279.4	143.8	35.0	50.8	177.8	185.6	8	22.3	234.9	12.3
6"	mm	317.5	170.7	36.5	52.3	206.2	215.9	12	22.3	269.7	15.6
8"	mm	381.0	221.5	41.1	61.9	260.3	269.7	12	25.4	330.2	24.2
10"	mm	444.5	276.3	47.7	66.5	320.5	323.8	16	28.4	387.3	34.1

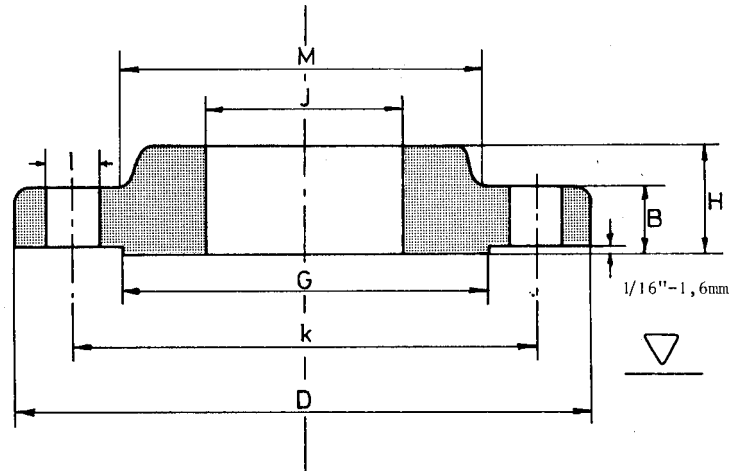


300 Lbs

Slip On Flanges

1/2" - 24" ANSI B 16.5

26" - 36" BS 3293



Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
12"	mm	520.7	327.1	50.8	73.1	374.6	381.0	16	31.7	450.8	50
14"	mm	584.2	359.1	53.8	76.2	425.4	412.7	20	31.7	514.3	70
16"	mm	647.7	410.5	57.1	82.5	482.6	469.9	20	35.0	571.5	89
18"	mm	711.2	461.8	60.4	88.9	533.4	533.4	24	35.0	628.6	109
20"	mm	774.7	513.1	63.5	95.2	587.2	584.2	24	35.0	685.8	134
22"	mm	838.2	564.4	66.7	101.6	641.2	641.2	24	41.1	742.9	168
24"	mm	914.4	615.9	69.8	106.4	701.5	692.1	24	41.1	812.8	201
26"	mm	971.5	666.7	79.4	184.1	720.7	749.3	28	44.4	876.3	285
28"	mm	1035.0	717.6	85.7	196.8	774.7	800.1	28	44.4	939.8	327
30"	mm	1092.2	768.3	92.1	209.5	827.1	857.2	28	47.6	996.9	367
32"	mm	1149.3	819.1	98.4	222.2	881.1	914.4	28	50.8	1054.1	404
34"	mm	1206.5	869.9	101.6	231.8	936.6	965.2	28	50.8	1104.9	488
36"	mm	1270.0	920.7	104.8	241.3	990.6	1022.3	32	54.0	1168.4	544

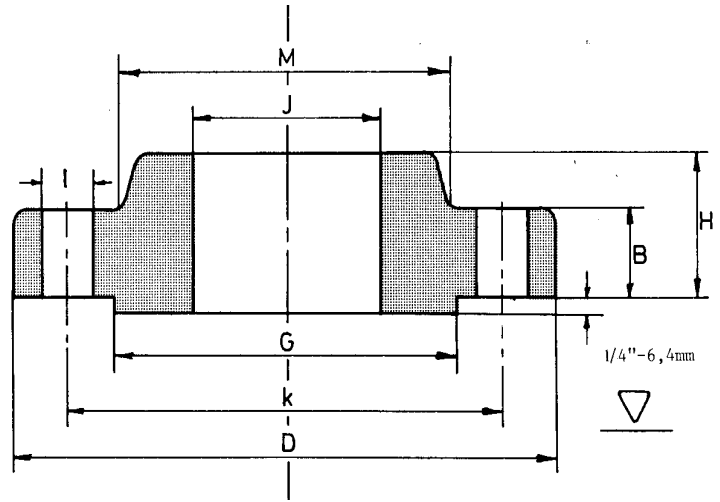


600 Lbs

Slip On Flanges

1/2" - 24" ANSI B 16.5

26" - 36" BS 3293



Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H		Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	95.3	22.4	14.2	22.4		38.1	35.1	4	15.7	66.5	0.8
3/4"	mm	117.3	27.7	15.7	25.4		47.8	42.9	4	19.1	82.6	1.3
1"	mm	124.0	34.5	17.5	26.9		53.8	50.8	4	19.1	88.9	1.6
1.1/4"	mm	133.4	43.2	20.6	28.4		63.5	63.5	4	19.1	98.6	2.1
1.1/2"	mm	155.4	49.5	22.4	31.8		69.9	73.2	4	22.4	114.3	3
2"	mm	165.1	62.0	25.4	36.6		84.1	91.9	8	19.1	127.0	3.6
2.1/2"	mm	190.5	74.7	28.4	41.1		100.1	104.6	8	22.4	149.4	5.3
3"	mm	209.6	90.7	31.8	46.0		117.3	127.0	8	22.4	168.1	7
3.1/2"	mm	228.6	103.4	35.1	49.3		133.4	139.7	8	25.4	184.2	9
4"	mm	273.1	116.1	38.1	53.8		152.4	157.2	8	25.4	215.9	14.5
5"	mm	330.2	143.8	44.5	60.5		189.0	185.7	8	28.4	266.7	25
6"	mm	355.6	170.7	47.8	66.5		222.3	215.9	12	28.4	292.1	29
8"	mm	419.1	221.5	55.6	76.2		273.1	269.7	12	31.8	349.3	44
10"	mm	508.0	276.4	63.5	85.9		342.9	323.9	16	35.1	431.8	71

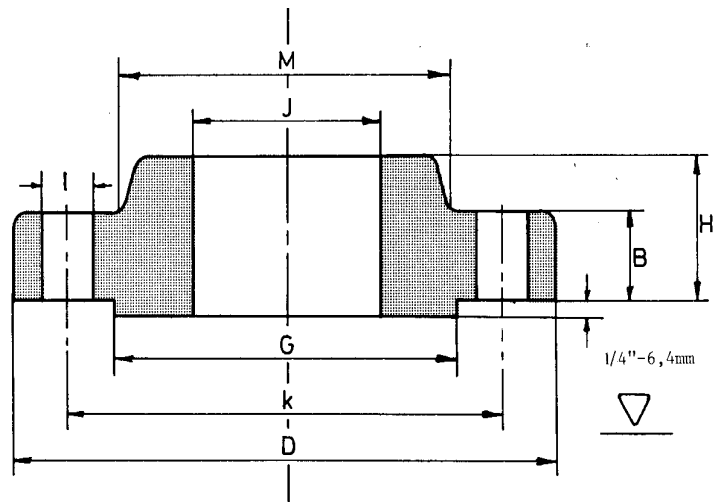


600 Lbs

Slip On Flanges

1/2" - 24" ANSI B 16.5

26" - 36" BS 3293



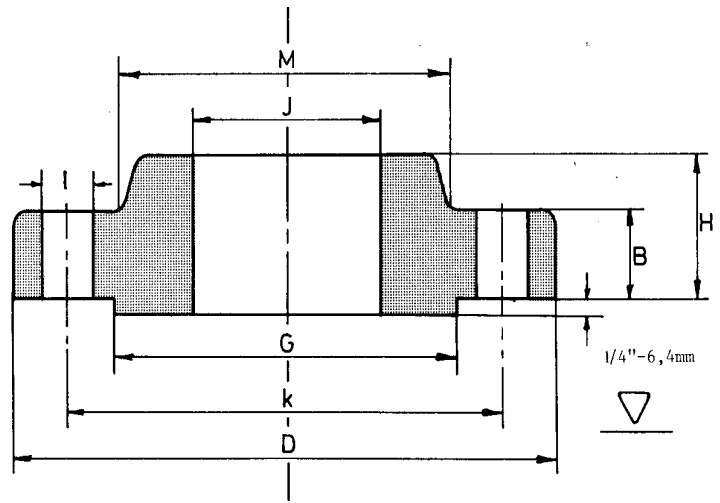
Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H		Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
12"	mm	558.8	327.2	66.5	91.9		400.1	381.0	20	35.1	489.0	85
14"	mm	603.3	359.2	69.9	93.7		431.8	412.8	20	38.1	527.1	99
16"	mm	685.8	410.5	76.2	106.4		495.3	469.9	20	41.1	603.3	142
18"	mm	743.0	461.8	82.6	117.3		546.1	533.4	20	44.5	654.1	173
20"	mm	812.8	513.1	88.9	127.0		609.6	584.2	24	44.5	723.9	220
22"	mm	869.9	564.4	95.2	133.3		666.7	641.2	24	47.6	777.9	300
24"	mm	939.8	616.0	101.6	139.7		717.6	692.2	24	50.8	838.2	312
26"	mm	1016.0	666.7	107.9	222.2		747.7	742.9	28	50.8	914.4	432
28"	mm	1073.1	717.6	111.1	234.9		803.3	793.7	28	54.0	965.2	488
30"	mm	1130.3	768.3	114.3	247.6		862.0	857.2	28	54.0	1022.3	533
32"	mm	1193.8	819.1	117.5	260.3		917.6	908.0	28	60.3	1079.5	624
34"	mm	1244.6	869.9	120.6	269.9		973.1	958.8	28	60.3	1130.3	681
36"	mm	1314.4	920.7	123.8	282.6		1031.9	1022.3	28	66.7	1193.8	726



900 Lbs

Slip On Flanges

ANSI B 16.5

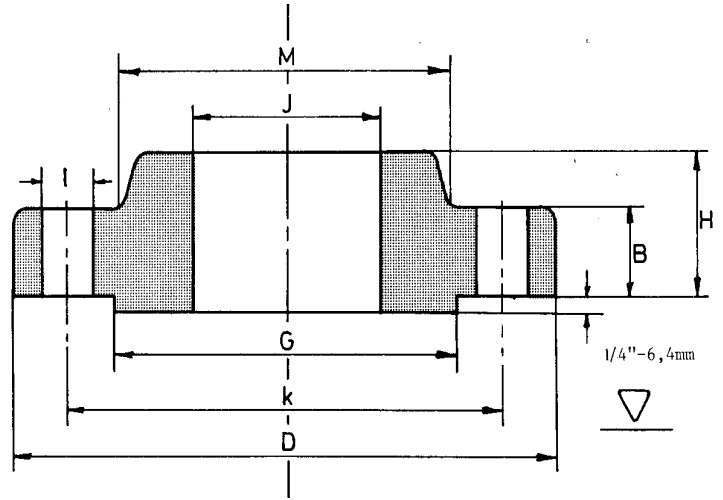


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H		Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	120.6	22.3	22.3	31.7		38.1	35.0	4	22.3	82.5	1.8
3/4"	mm	130.0	27.7	25.4	35.0		44.4	42.9	4	22.3	88.9	2.4
1"	mm	149.3	34.5	28.4	41.1		52.3	50.8	4	25.4	101.6	3.5
1.1/4"	mm	158.7	43.2	28.4	41.1		63.5	63.5	4	25.4	111.2	4.0
1.1/2"	mm	177.8	49.5	31.7	44.5		69.8	73.1	4	28.4	123.9	5.4
2"	mm	215.9	62.0	38.1	57.1		104.6	91.9	8	25.4	165.1	10
2.1/2"	mm	244.3	74.7	41.1	63.5		123.9	104.6	8	28.4	190.5	14
3"	mm	241.3	90.7	38.1	53.8		127.0	127.0	8	25.4	190.5	12
4"	mm	292.1	116.1	44.4	69.8		158.7	157.2	8	31.7	234.9	20
5"	mm	349.2	143.8	50.8	79.2		190.5	185.6	8	35.0	279.4	32
6"	mm	381.0	170.7	55.6	85.8		234.9	215.9	12	31.7	317.5	42
8"	mm	469.9	221.5	63.5	101.6		298.4	269.7	12	38.1	393.7	71
10"	mm	546.1	276.3	69.8	107.9		368.3	323.8	16	38.1	469.9	101
12"	mm	609.6	327.1	79.2	117.3		419.1	381.0	20	38.1	533.4	133



900 Lbs

Slip On Flanges ANSI B 16.5



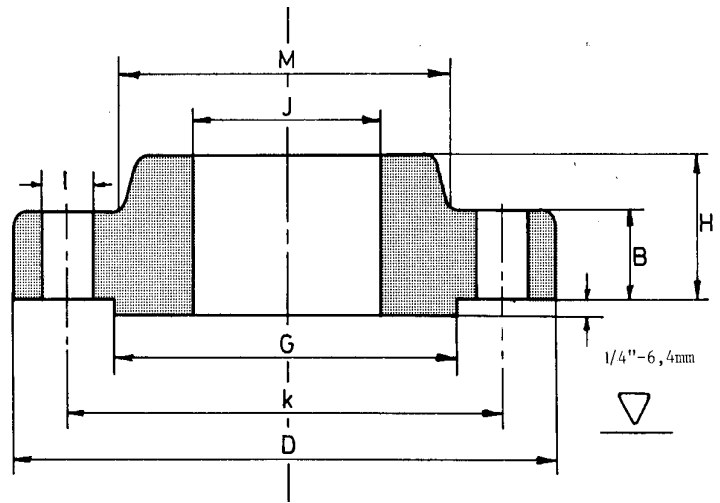
Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H		Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
14"	mm	641.3	359.1	85.8	130.0		450.8	412.7	20	41.1	558.8	153
16"	mm	704.8	410.5	88.9	133.3		508.0	469.9	20	44.4	615.9	185
18"	mm	787.4	461.8	101.6	152.4		565.1	533.4	20	50.8	685.8	258
20"	mm	857.2	513.1	107.9	158.7		622.3	584.2	20	53.8	749.3	317
24"	mm	1041.4	615.9	139.7	203.2		749.3	692.1	20	66.5	901.7	606



1500 Lbs

Slip On Flanges

ANSI B 16.5

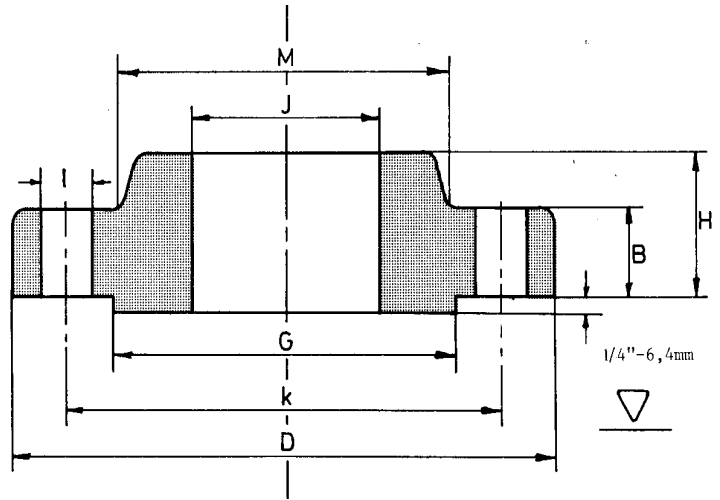


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H		Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	120.6	22.3	22.3	31.7		38.1	35.0	4	22.3	82.5	1.8
3/4"	mm	130.0	27.7	25.4	35.0		44.4	42.9	4	22.3	88.9	2.4
1"	mm	149.3	34.5	28.4	41.1		52.3	50.8	4	25.4	101.6	3.5
1.1/4"	mm	158.7	43.2	28.4	41.1		63.5	63.5	4	25.4	111.2	4.0
1.1/2"	mm	177.8	49.5	31.7	44.5		69.8	73.1	4	28.4	123.9	5.4
2"	mm	215.9	62.0	38.1	57.1		104.6	91.9	8	25.4	165.1	10
2.1/2"	mm	244.3	74.7	41.1	63.5		123.9	104.6	8	28.4	190.5	14
3"	mm	266.7	90.7	47.7	73.1		133.3	127.0	8	31.7	203.2	21.5
4"	mm	311.1	116.1	53.8	90.5		162.0	157.2	8	35.0	241.3	33.2
5"	mm	374.6	143.8	73.1	104.8		196.8	185.6	8	41.1	292.1	60.8
6"	mm	393.7	170.7	82.5	119.1		228.6	215.9	12	38.1	317.5	74.8
8"	mm	482.6	221.5	91.9	142.9		292.1	269.7	12	44.4	393.7	118
10"	mm	584.2	276.3	107.9	158.7		368.3	323.8	12	50.8	482.6	197
12"	mm	673.1	327.1	123.9	181.0		450.8	381.0	16	53.8	571.5	264



1500 Lbs

Slip On Flanges ANSI B 16.5



* = not specified

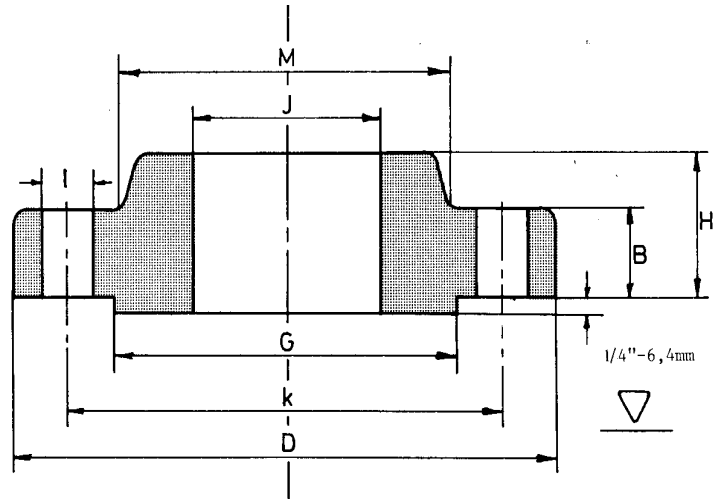
Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H		Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
14"	mm	749.3	359.1	133.3	241.3*		495.3	412.7	16	60.4	635.0	404*
16"	mm	825.5	410.5	146.0	260.3*		552.4	469.9	16	66.5	704.8	522*
18"	mm	914.4	461.8	162.0	276.2*		596.9	533.4	16	73.1	774.7	669*
20"	mm	984.2	513.1	177.8	292.1*		641.3	584.2	16	79.2	831.8	805*
24"	mm	1168.4	615.9	203.2	330.2*		762.0	692.1	16	91.9	990.6	1326*



2500 Lbs

Slip On Flanges

ANSI B 16.5



Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H		Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	133.4	22.3	30.2	39.7		42.9	35.1	4	22.4	88.9	3.0
3/4"	mm	139.7	27.7	31.8	42.9		50.8	42.9	4	22.4	95.3	3.6
1"	mm	158.8	34.5	35.1	47.6		57.2	50.8	4	25.4	108.0	5.0
1.1/4"	mm	184.2	43.2	38.1	52.4		73.2	63.5	4	28.4	130.0	7.2
1.1/2"	mm	203.2	49.5	44.5	60.3		79.2	73.2	4	31.8	146.1	10.0
2"	mm	235.0	62.0	50.8	69.8		95.3	91.9	8	28.4	171.5	17.0
2.1/2"	mm	266.7	74.7	57.2	79.4		114.3	104.6	8	31.8	196.9	25.0
3"	mm	304.8	90.7	66.5	92.1		133.4	127.0	8	35.1	228.6	38.0
4"	mm	355.6	116.1	76.2	107.9		165.1	157.2	8	41.1	273.1	56.0
5"	mm	419.1	143.8	91.9	130.2		203.2	185.7	8	47.8	323.9	95.0
6"	mm	482.6	170.7	108.0	152.4		235.0	215.9	8	53.8	368.3	147.0
8"	mm	552.5	221.5	127.0	177.8		304.8	269.7	12	53.8	438.2	220.0
10"	mm	673.1	276.3	165.1	228.6		374.4	323.9	12	66.5	539.8	410.0
12"	mm	762.0	327.1	184.2	254.0		441.5	381.0	12	73.2	619.3	500.0

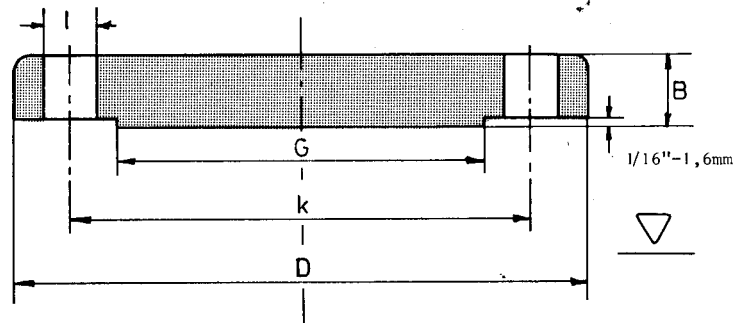


150 Lbs

Blind Flanges

1/2" - 24" ANSI B 16.5

26" - 48" BS 3293



Nominal Pipe Size	mm	Outside Diam. D	Thick-ness Min. B				O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	88.9	11.2				35.1	4	15.7	60.5	0.5
3/4"	mm	98.6	12.7				42.9	4	15.7	69.9	0.7
1"	mm	108.0	14.2				50.8	4	15.7	79.2	0.9
1.1/4"	mm	117.3	15.7				63.5	4	15.7	88.9	1.2
1.1/2"	mm	127.0	17.5				73.2	4	15.7	98.6	1.6
2"	mm	152.4	19.1				91.9	4	19.1	120.7	2.5
2.1/2"	mm	177.8	22.4				104.6	4	19.1	139.7	4.0
3"	mm	190.5	23.9				127.0	4	19.1	152.4	4.9
3.1/2"	mm	215.9	23.9				139.7	8	19.1	177.8	6.2
4"	mm	228.6	23.9				157.2	8	19.1	190.5	7.0
5"	mm	254.0	23.9				185.7	8	22.4	215.9	8.7
6"	mm	279.4	25.4				215.9	8	22.4	241.3	11.3
8"	mm	342.9	28.4				269.7	8	22.4	298.5	20.0
10"	mm	406.4	30.2				323.9	12	25.4	362.0	29.0

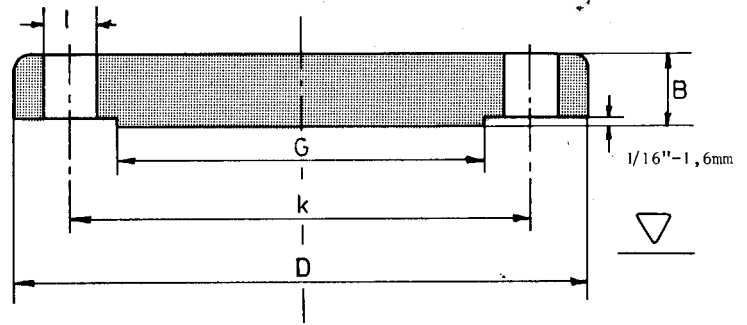


150 Lbs

Blind Flanges

1/2" - 24" ANSI B 16.5

26" - 48" BS 3293



Nominal Pipe Size	mm	Outside Diam. D	Thick-ness Min. B	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
12"	mm	482.6	31.8	381.0	12	25.4	431.8	44
14"	mm	533.4	35.1	412.8	12	28.4	476.2	59
16"	mm	596.9	36.6	469.9	16	28.4	539.7	76
18"	mm	635.0	39.6	533.4	16	31.8	577.8	94
20"	mm	698.5	42.9	584.2	20	31.8	635.0	122
22"	mm	749.3	46.0	641.2	20	35.1	692.1	161
24"	mm	812.8	47.8	692.2	20	35.1	749.3	185
26"	mm	869.9	50.8	742.9	24	34.9	806.4	238
28"	mm	927.1	52.4	793.7	28	34.9	863.6	281
30"	mm	984.2	54.0	857.2	28	34.9	914.4	327
32"	mm	1060.4	57.1	908.0	28	41.3	977.9	395
34"	mm	1111.2	58.7	958.8	32	41.3	1028.7	449
36"	mm	1168.4	60.3	1022.3	32	41.3	1085.8	511
38"	mm	1238.2	60.3	1073.1	32	41.3	1149.3	570

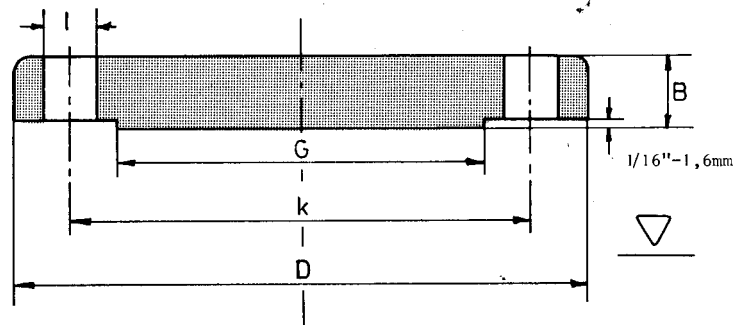


150 Lbs

Blind Flanges

1/2" - 24" ANSI B 16.5

26" - 48" BS 3293



Nominal Pipe Size	mm	Outside Diam. D	Thick-ness Min. B				O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
40"	mm	1289.0	63.5				1123.9	36	41.3	1200.1	651
42"	mm	1346.2	66.7				1193.8	36	41.3	1257.3	746
44"	mm	1403.3	66.7				1244.6	40	41.3	1314.4	810
46"	mm	1454.1	68.3				1295.4	40	41.3	1365.2	891
48"	mm	1511.1	69.8				1358.9	44	41.3	1422.4	983

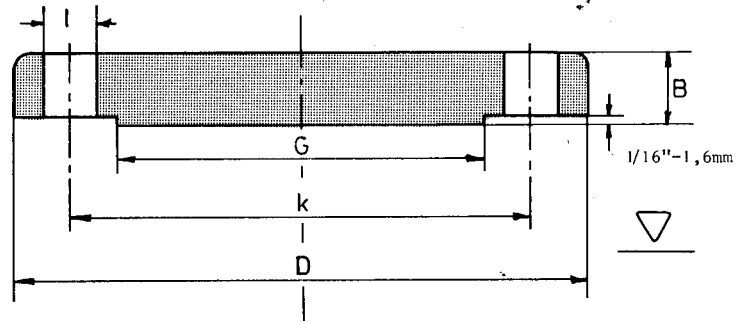


300 Lbs

Blind Flanges

1/2" - 24" ANSI B 16.5

26" - 36" BS 3293



Nominal Pipe Size	mm	Outside Diam. D	Thick-ness Min. B				O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	95.2	14.2				35.0	4	15.7	66.7	0.7
3/4"	mm	117.3	15.7				42.9	4	19.0	82.5	1.2
1"	mm	123.9	17.5				50.8	4	19.0	88.9	1.4
1.1/4"	mm	133.3	19.0				63.5	4	19.0	98.4	1.8
1.1/2"	mm	155.4	20.6				73.1	4	22.3	114.3	2.7
2"	mm	165.1	22.3				91.9	8	19.0	127.0	3.2
2.1/2"	mm	190.5	25.4				104.6	8	22.3	149.2	4.9
3"	mm	209.5	28.4				127.0	8	22.3	168.3	7
3.1/2"	mm	228.6	30.2				139.7	8	22.3	184.1	9
4"	mm	254.0	31.7				157.2	8	22.3	200.0	12
5"	mm	279.4	35.0				185.6	8	22.3	234.9	16
6"	mm	317.5	36.5				215.9	12	22.3	269.9	21
8"	mm	381.0	41.1				269.7	12	25.4	330.2	35
10"	mm	444.5	47.7				323.8	16	28.4	387.3	54

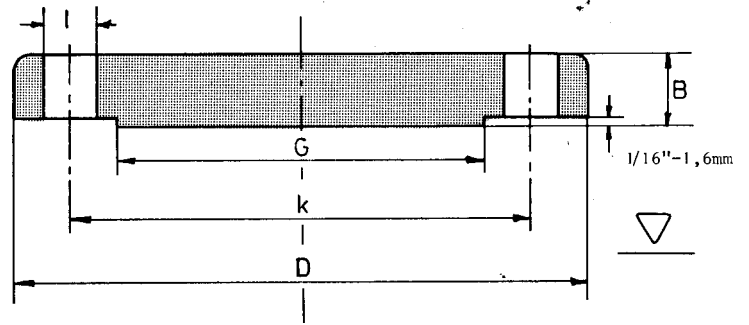


300 Lbs

Blind Flanges

1/2" - 24" ANSI B 16.5

26" - 36" BS 3293



Nominal Pipe Size	mm	Outside Diam. D	Thick-ness Min. B	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
12"	mm	520.7	50.8	381.0	16	31.7	450.8	87.9
14"	mm	584.2	53.8	412.7	20	31.7	514.3	105
16"	mm	647.7	57.1	469.9	20	35.0	571.5	137
18"	mm	711.2	60.4	533.4	24	35.0	628.6	175
20"	mm	774.7	63.5	584.2	24	35.0	685.8	221
22"	mm	838.2	66.7	641.2	24	41.1	742.9	290
24"	mm	914.4	69.8	692.1	24	41.1	812.8	340
26"	mm	971.5	79.4	749.3	28	44.4	876.3	463
28"	mm	1035.0	85.7	800.1	28	44.4	939.8	561
30"	mm	1092.2	92.1	857.2	28	47.6	996.9	678
32"	mm	1149.3	98.4	914.4	28	50.8	1054.1	802
34"	mm	1206.5	101.6	965.2	28	50.8	1104.9	912
36"	mm	1270.0	104.8	1022.3	32	54.0	1168.4	1042

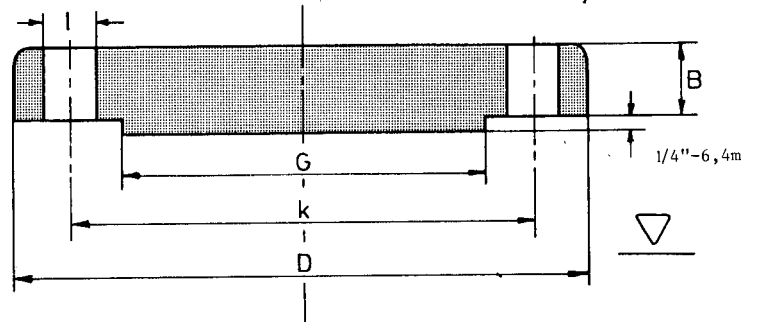


600 Lbs

Blind Flanges

1/2" - 24" ANSI B 16.5

26" - 36" BS 3293



Nominal Pipe Size	mm	Outside Diam. D	Thick-ness Min. B	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	95.3	14.2	35.1	4	15.7	66.5	0.8
3/4"	mm	117.3	15.7	42.9	4	19.1	82.6	1.3
1"	mm	124.0	17.5	50.8	4	19.1	88.9	1.6
1.1/4"	mm	133.4	20.6	63.5	4	19.1	98.6	2.3
1.1/2"	mm	155.4	22.4	73.2	4	22.4	114.3	3.3
2"	mm	165.1	25.4	91.9	8	19.1	127.0	4.2
2.1/2"	mm	190.5	28.4	104.6	8	22.4	149.4	6.2
3"	mm	209.6	31.8	127.0	8	22.4	168.1	8.5
3.1/2"	mm	228.6	35.1	139.7	8	25.4	184.2	11
4"	mm	273.1	38.1	157.2	8	25.4	215.9	18
5"	mm	330.2	44.5	185.7	8	28.4	266.7	30
6"	mm	355.6	47.8	215.9	12	28.4	292.1	36
8"	mm	419.1	55.6	269.7	12	31.8	349.3	65.9
10"	mm	508.0	63.5	323.9	16	35.1	431.8	98

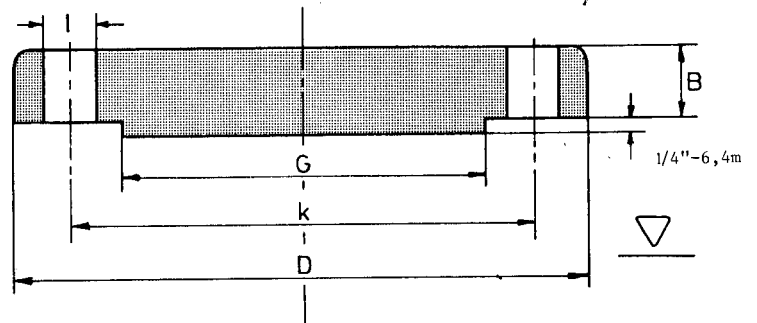


600 Lbs

Blind Flanges

1/2" - 24" ANSI B 16.5

26" - 36" BS 3293



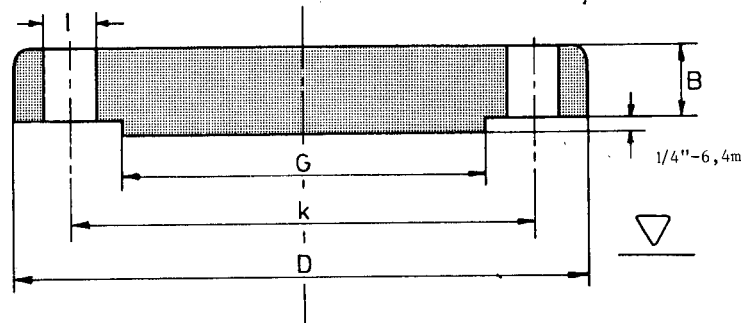
Nominal Pipe Size	mm	Outside Diam. D	Thick-ness Min. B	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
12"	mm	558.8	66.5	381.0	20	35.1	489.0	124
14"	mm	603.3	69.9	412.8	20	38.1	527.1	151
16"	mm	685.8	76.2	469.9	20	41.1	603.3	214
18"	mm	743.0	82.6	533.4	20	44.5	654.1	272
20"	mm	812.8	88.9	584.2	24	44.5	723.9	349
22"	mm	869.9	95.2	641.2	24	47.6	777.9	454
24"	mm	939.8	101.6	692.2	24	50.8	838.2	533
26"	mm	1016.0	107.9	742.9	28	50.8	914.4	688
28"	mm	1073.1	111.1	793.7	28	54.0	965.2	789
30"	mm	1130.3	114.7	857.2	28	54.0	1022.3	901
32"	mm	1193.8	117.5	908.0	28	60.3	1079.5	1033
34"	mm	1244.6	120.6	958.8	28	60.3	1130.3	1152
36"	mm	1314.4	123.8	1022.3	28	66.7	1193.8	1319



900 Lbs

Blind Flanges

1/2" - 24" ANSI B 16.5



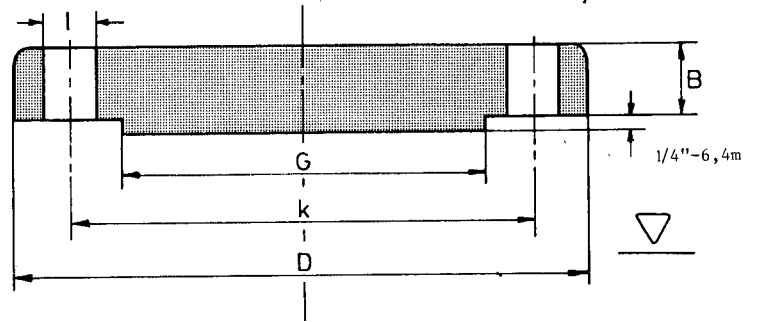
Nominal Pipe Size	mm	Outside Diam. D	Thick-ness Min. B				O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	120.6	22.3				35.0	4	22.3	82.5	1.8
3/4"	mm	130.1	25.4				42.9	4	22.3	88.9	2.5
1"	mm	149.3	28.4				50.8	4	25.4	101.6	3.6
1.1/4"	mm	158.7	28.4				63.5	4	25.4	111.2	4.2
1.1/2"	mm	177.8	31.7				73.1	4	28.4	123.9	5.8
2"	mm	215.9	38.1				91.9	8	25.4	165.1	11
2.1/2"	mm	244.3	41.1				104.6	8	28.4	190.5	14
3"	mm	241.3	38.1				127.0	8	25.4	190.5	13.1
4"	mm	292.1	44.4				157.2	8	31.7	234.9	27
5"	mm	349.2	50.8				185.6	8	35.0	279.4	36.5
6"	mm	381.0	55.6				215.9	12	31.7	317.5	48
8"	mm	469.9	63.5				269.7	12	38.1	393.7	83
10"	mm	546.1	69.8				323.8	16	38.1	469.9	122
12"	mm	609.6	79.2				381.0	20	38.1	533.4	173



900 Lbs

Blind Flanges

1/2" - 24" ANSI B 16.5



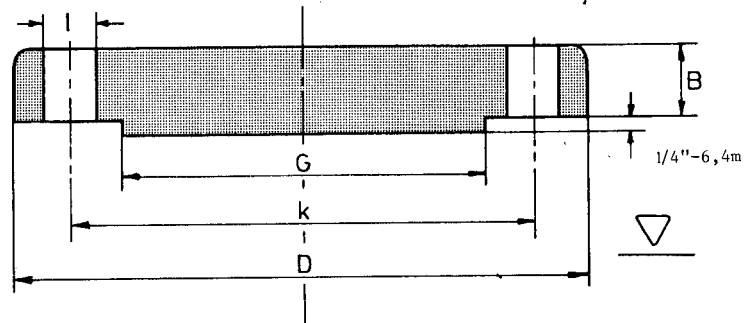
Nominal Pipe Size	mm	Outside Diam. D	Thick-ness Min. B	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
14"	mm	641.3	85.8	412.7	20	41.1	558.8	206
16"	mm	704.8	88.9	469.9	20	44.4	615.9	259
18"	mm	787.4	101.6	533.4	20	50.8	685.8	367
20"	mm	857.2	107.9	584.2	20	53.8	749.3	463
24"	mm	1041.4	139.7	692.1	20	66.5	901.7	876



1500 Lbs

Blind Flanges

1/2" - 24" ANSI B 16.5



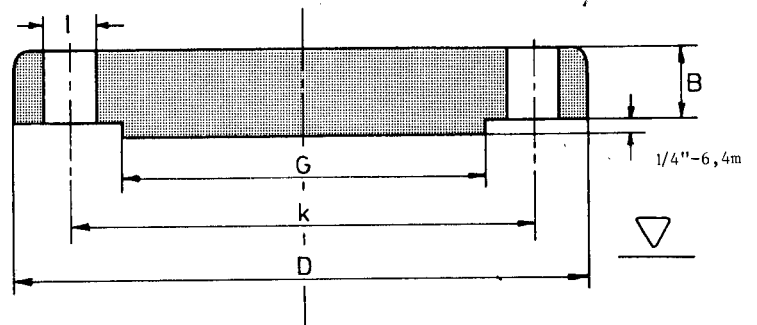
Nominal Pipe Size	mm	Outside Diam. D	Thick-ness Min. B				O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	120.6	22.3				35.0	4	22.3	82.5	1.8
3/4"	mm	130.1	25.4				42.9	4	22.3	88.9	2.5
1"	mm	149.3	28.4				50.8	4	25.4	101.6	3.6
1.1/4"	mm	158.7	28.4				63.5	4	25.4	111.1	4.2
1.1/2"	mm	177.8	31.7				73.1	4	28.4	123.8	5.8
2"	mm	215.9	38.1				91.9	8	25.4	165.1	11
2.1/2"	mm	244.3	41.1				104.6	8	28.4	190.5	14
3"	mm	266.7	47.7				127.0	8	31.7	203.2	20
4"	mm	311.1	53.8				157.2	8	35.0	241.3	30
5"	mm	374.6	73.1				185.6	8	41.1	292.1	59
6"	mm	393.7	82.5				215.9	12	38.1	317.5	72
8"	mm	482.6	91.9				269.7	12	44.4	393.7	122
10"	mm	584.2	107.9				323.8	12	50.8	482.6	210
12"	mm	673.1	123.9				381.0	16	53.8	571.5	316



1500 Lbs

Blind Flanges

1/2" - 24" ANSI B 16.5



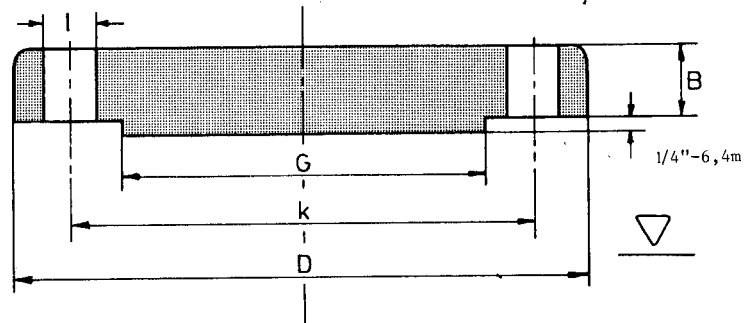
Nominal Pipe Size	mm	Outside Diam. D	Thick-ness Min. B				O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
14"	mm	749.3	133.3				412.7	16	60.4	635.0	420
16"	mm	825.5	146.0				469.9	16	66.5	704.8	560
18"	mm	914.4	162.0				533.4	16	73.1	774.7	760
20"	mm	984.2	177.8				584.2	16	79.2	831.8	965
24"	mm	1168.4	203.2				692.1	16	91.9	990.6	1558



2500 Lbs

Blind Flanges

1/2" - 24" ANSI B 16.5

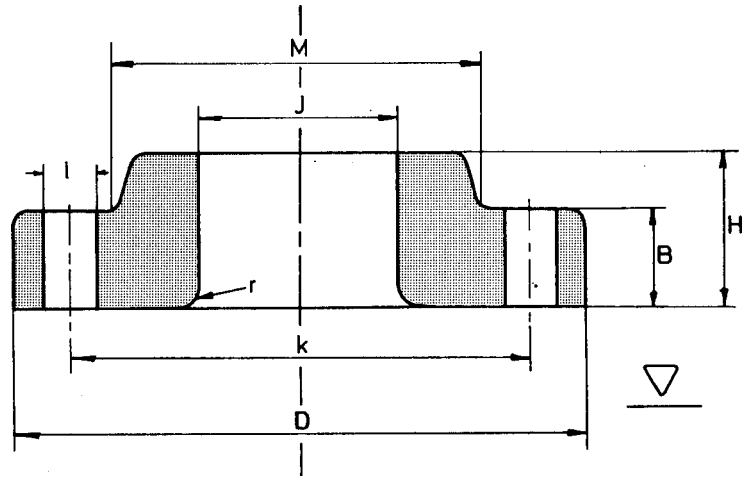


Nominal Pipe Size	mm	Outside Diam. D	Thick-ness Min. B				O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	133.4	30.2				35.1	4	22.4	88.9	3
3/4"	mm	139.7	31.8				42.9	4	22.4	95.3	3.5
1"	mm	158.8	35.1				50.8	4	25.4	108.0	5
1.1/4"	mm	184.2	38.1				63.5	4	28.4	130.0	7.4
1.1/2"	mm	203.2	44.5				73.2	4	31.8	146.1	10.4
2"	mm	235.0	50.8				91.9	8	28.4	171.5	16
2.1/2"	mm	266.7	57.2				104.6	8	31.8	196.9	23
3"	mm	304.8	66.5				127.0	8	35.1	228.6	35
4"	mm	355.6	76.2				157.2	8	41.1	273.1	54
5"	mm	419.1	91.9				185.7	8	47.8	323.9	91
6"	mm	482.6	108.0				215.9	8	53.8	368.3	141
8"	mm	552.5	127.0				269.7	12	53.8	438.2	214
10"	mm	673.1	165.1				323.9	12	66.5	539.8	411
12"	mm	762.0	184.1				381.0	12	73.2	619.3	592



150 Lbs

Lap Joint Flanges ANSI B 16.5

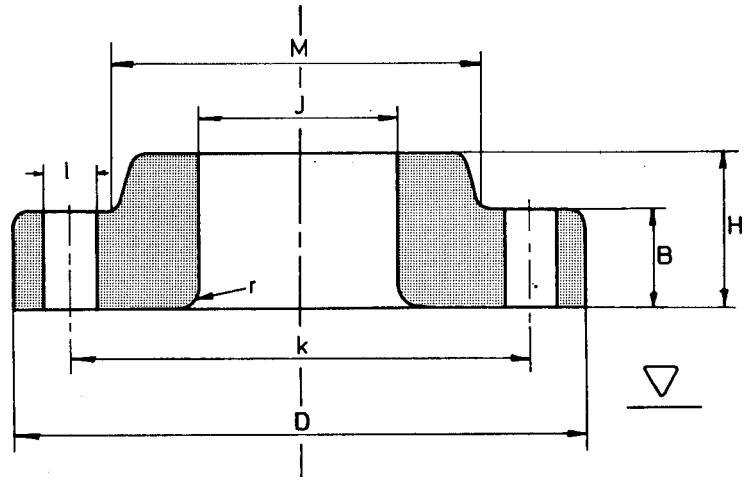


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Radius of Fillet R	Diam. at Base of Hub M		Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	88.9	22.9	11.2	15.7	3.0	30.2		4	15.7	60.5	0.4
3/4"	mm	98.6	28.2	12.7	15.7	3.0	38.1		4	15.7	69.9	0.6
1"	mm	108.0	35.1	14.2	17.5	3.0	49.3		4	15.7	79.2	0.8
1.1/4"	mm	117.3	43.7	15.7	20.6	4.8	58.7		4	15.7	88.9	1.0
1.1/2"	mm	127.0	50.0	17.5	22.4	6.4	65.0		4	15.7	98.6	1.3
2"	mm	152.4	62.5	19.1	25.4	7.9	77.7		4	19.1	120.7	2.0
2.1/2"	mm	177.8	75.4	22.4	28.4	7.9	90.4		4	19.1	139.7	3.3
3"	mm	190.5	91.4	23.9	30.2	9.7	108.0		4	19.1	152.4	3.8
3.1/2"	mm	215.9	104.1	23.9	31.8	9.7	122.2		8	19.1	177.8	4.8
4"	mm	228.6	116.8	23.9	33.3	11.2	134.9		8	19.1	190.5	5.3
5"	mm	254.0	144.5	23.9	36.6	11.2	163.6		8	22.4	215.9	6.1
6"	mm	279.4	171.5	25.4	39.6	12.7	192.0		8	22.4	241.3	7.4
8"	mm	342.9	222.3	28.4	44.5	12.7	246.1		8	22.4	298.5	12.1
10"	mm	406.4	277.4	30.2	49.3	12.7	304.8		12	25.4	362.0	16.4



150 Lbs

Lap Joint Flanges ANSI B 16.5

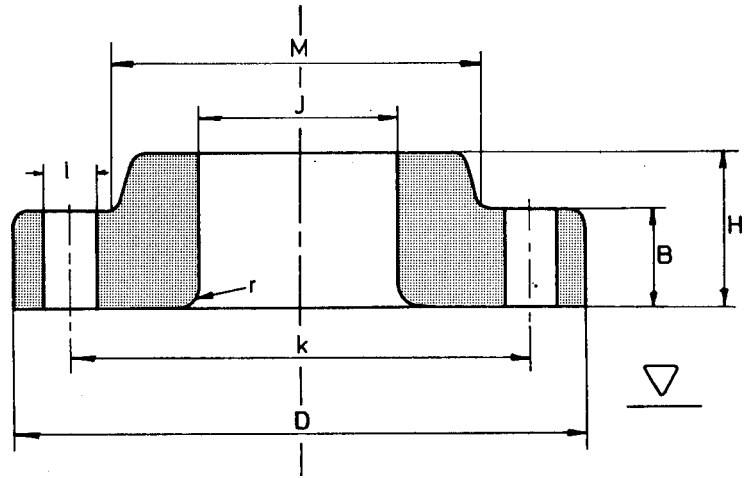


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Radius of Fillet R	Diam. at Base of Hub M		Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
12"	mm	482.6	328.2	31.8	55.6	12.7	365.3		12	25.4	431.8	27
14"	mm	533.4	360.2	35.1	79.2	12.7	400.1		12	28.4	476.3	35
16"	mm	596.9	411.2	36.6	87.4	12.7	457.2		16	28.4	539.8	45
18"	mm	635.0	462.3	39.6	96.8	12.7	505.0		16	31.8	577.9	49
20"	mm	698.5	514.4	42.9	103.1	12.7	558.8		20	31.8	635.0	62
24"	mm	812.8	616.0	47.8	111.3	12.7	663.4		20	35.1	749.3	87



300 Lbs

Lap Joint Flanges ANSI B 16.5

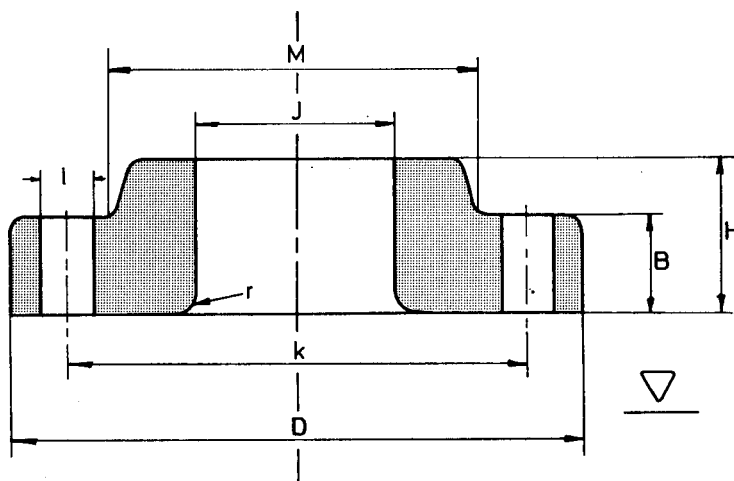


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Radius of Fillet R	Diam. at Base of Hub M		Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	95.2	22.9	14.2	22.3	3.0	38.1		4	15.7	66.5	0.7
3/4"	mm	117.3	28.2	15.7	25.4	3.0	47.7		4	19.0	82.5	1.1
1"	mm	123.9	35.0	17.5	26.9	3.0	53.8		4	19.0	88.9	1.4
1.1/4"	mm	133.3	43.7	19.0	26.9	4.8	63.5		4	19.0	98.5	1.7
1.1/2"	mm	155.4	50.0	20.6	30.2	6.4	69.8		4	22.3	114.3	2.5
2"	mm	165.1	62.5	22.3	33.2	7.8	84.0		8	19.0	127.0	2.9
2.1/2"	mm	190.5	75.4	25.4	38.1	7.8	100.0		8	22.3	149.3	4.3
3"	mm	209.5	91.4	28.4	42.9	9.6	117.3		8	22.3	168.1	5.8
3.1/2"	mm	228.6	104.1	30.2	44.4	9.6	133.3		8	22.3	184.1	7.3
4"	mm	254.0	116.8	31.7	47.7	11.1	146.0		8	22.3	200.1	10
5"	mm	279.4	144.5	35.0	50.8	11.1	177.8		8	22.3	234.9	12.2
6"	mm	317.5	171.4	36.5	52.3	12.7	206.2		12	22.3	269.7	15.5
8"	mm	381.0	222.2	41.1	61.9	12.7	260.3		12	25.4	330.2	24.1
10"	mm	444.5	277.4	47.9	95.2	12.7	320.5		16	28.4	387.3	34.4



300 Lbs

Lap Joint Flanges ANSI B 16.5

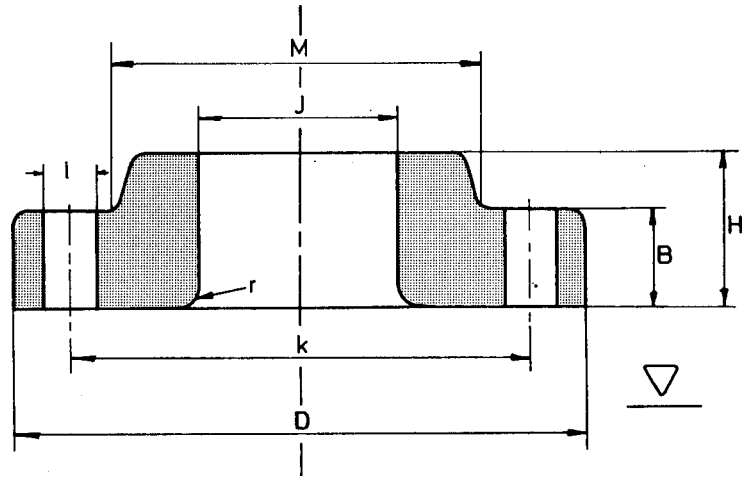


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Radius of Fillet R	Diam. at Base of Hub M		Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
12"	mm	520.7	328.2	50.8	101.6	12.7	374.6		16	31.7	450.8	51
14"	mm	584.2	360.2	53.8	111.2	12.7	425.4		20	31.7	514.3	71
16"	mm	647.7	411.2	57.1	120.6	12.7	482.6		20	35.0	571.5	90
18"	mm	711.2	462.3	60.4	130.0	12.7	533.4		24	35.0	628.6	111
20"	mm	774.7	514.3	63.5	139.7	12.7	587.2		24	35.0	685.8	137
24"	mm	914.4	615.9	69.8	152.4	12.7	701.5		24	41.1	812.8	204



600 Lbs

Lap Joint Flanges ANSI B 16.5

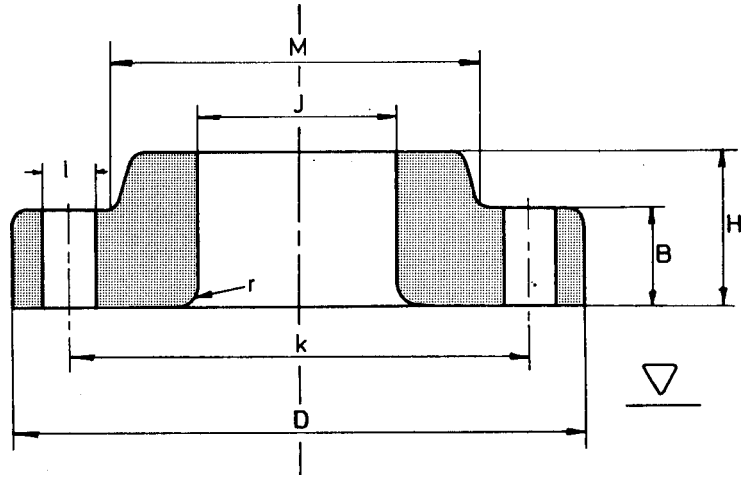


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Radius of Fillet R	Diam. at Base of Hub M		Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	95.3	22.9	14.2	22.4	3.0	38.1		4	15.7	66.5	0.8
3/4"	mm	117.3	28.2	15.7	25.4	3.0	47.8		4	19.1	82.6	1.3
1"	mm	124.0	35.1	17.5	26.9	3.0	53.8		4	19.1	88.9	1.5
1.1/4"	mm	133.4	43.7	20.6	28.4	4.8	63.5		4	19.1	98.6	2.0
1.1/2"	mm	155.4	50.0	22.4	31.8	6.4	69.9		4	22.4	114.3	2.9
2"	mm	165.1	62.5	25.4	36.6	7.9	84.1		8	19.1	127.0	3.6
2.1/2"	mm	190.5	75.4	28.4	41.1	7.9	100.1		8	22.4	149.4	5.3
3"	mm	209.6	91.4	31.8	46.0	9.7	117.3		8	22.4	168.1	7.0
3.1/2"	mm	228.6	104.1	35.1	49.3	9.7	133.4		8	25.4	184.2	9.0
4"	mm	273.1	116.8	38.1	53.8	11.2	152.4		8	25.4	215.9	14.4
5"	mm	330.2	144.5	44.5	60.5	11.2	189.0		8	28.6	266.7	24.3
6"	mm	355.6	171.5	47.8	66.5	12.7	222.3		12	28.6	292.1	28.5
8"	mm	419.1	222.3	55.6	76.2	12.7	273.1		12	31.8	349.3	43.1
10"	mm	508.0	277.4	63.5	111.3	12.7	342.9		16	35.1	431.8	70.5



600 Lbs

Lap Joint Flanges ANSI B 16.5

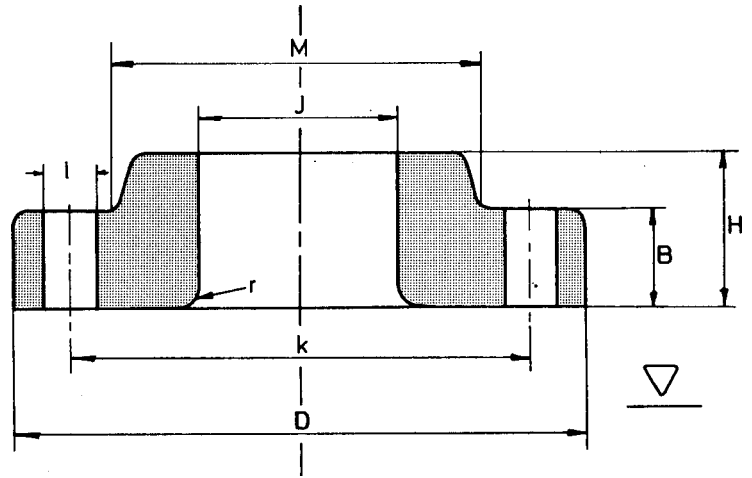


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Radius of Fillet R	Diam. at Base of Hub M		Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
12"	mm	558.8	328.2	66.5	117.3	12.7	400.1		20	35.1	489.0	87
14"	mm	603.3	360.2	69.9	127.0	12.7	431.8		20	38.1	527.1	100
16"	mm	685.8	411.2	76.2	139.7	12.7	495.3		20	41.1	603.3	145
18"	mm	743.0	462.3	82.6	152.4	12.7	546.1		20	44.5	654.1	177
20"	mm	812.8	514.4	88.9	165.1	12.7	609.6		24	44.5	723.9	225
24"	mm	939.8	616.0	101.6	184.1	12.7	717.5		24	50.8	838.2	318



900 Lbs

Lap Joint Flanges ANSI B 16.5



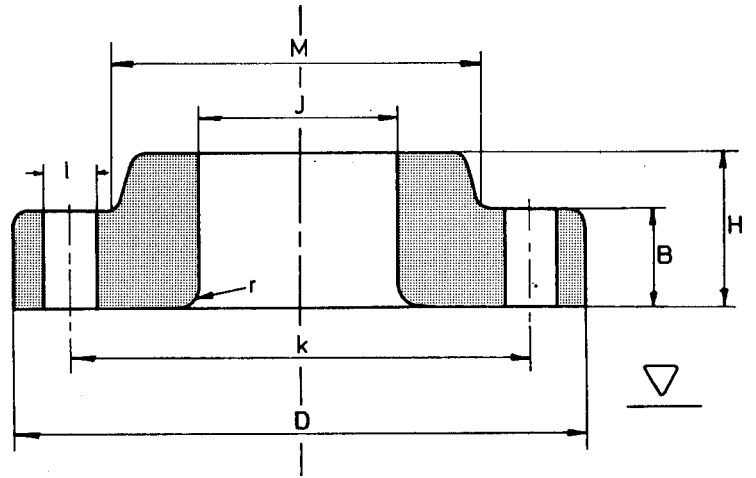
Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Radius of Fillet R	Diam. at Base of Hub M		Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	120.6	22.9	22.3	31.7	3.0	38.1		4	22.3	82.5	1.8
3/4"	mm	130.0	28.2	25.4	35.0	3.0	44.4		4	22.3	88.9	2.3
1"	mm	149.3	35.0	28.4	41.1	3.0	52.3		4	25.4	101.6	3.4
1.1/4"	mm	158.7	43.7	28.4	41.1	4.8	63.5		4	25.4	111.2	3.9
1.1/2"	mm	177.8	50.0	31.7	44.4	6.4	69.8		4	28.4	123.9	5.3
2"	mm	215.9	62.5	38.1	57.1	7.8	104.6		8	25.4	165.1	10
2.1/2"	mm	244.3	75.4	41.1	63.5	7.8	123.9		8	28.4	190.5	14
3"	mm	241.3	91.4	38.1	53.8	9.6	127.0		8	25.4	190.5	11.3
4"	mm	292.1	116.8	44.4	69.8	11.1	158.7		8	31.7	234.9	19.2
5"	mm	349.2	144.5	50.8	79.2	11.1	190.5		8	35.0	279.4	31.2
6"	mm	381.0	171.4	55.6	85.8	12.7	234.9		12	31.7	317.5	40.5
8"	mm	469.9	222.2	63.5	114.3	12.7	298.4		12	38.1	393.7	71.5
10"	mm	546.1	277.4	69.8	127.0	12.7	368.3		16	38.1	469.9	104
12"	mm	609.6	328.2	79.2	142.7	12.7	419.1		20	38.1	533.4	139



900 Lbs

Lap Joint Flanges

ANSI B 16.5

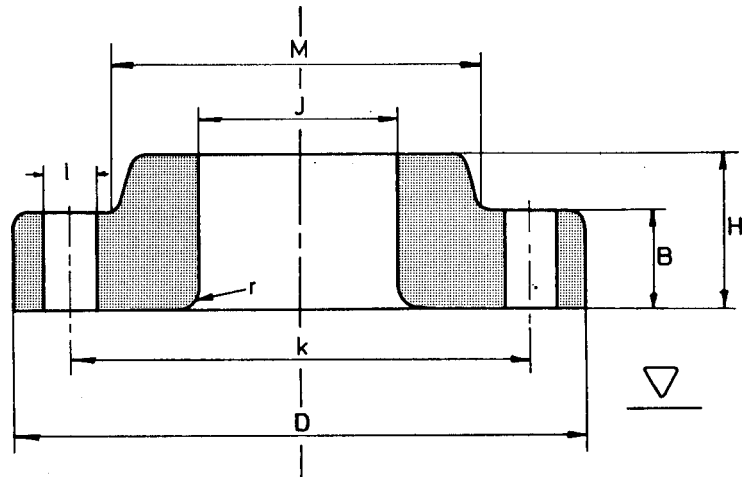


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Radius of Fillet R	Diam. at Base of Hub M		Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
14"	mm	641.3	360.2	85.8	155.4	12.7	450.8		20	41.1	558.8	161
16"	mm	704.8	411.2	88.9	165.1	12.7	508.0		20	44.4	615.9	194
18"	mm	787.4	462.3	101.6	190.5	12.7	565.1		20	50.8	685.8	267
20"	mm	857.2	514.3	107.9	209.5	12.7	622.3		20	53.8	749.3	334
24"	mm	1041.4	615.9	139.7	266.7	12.7	749.3		20	66.5	901.7	618



1500 Lbs

Lap Joint Flanges ANSI B 16.5

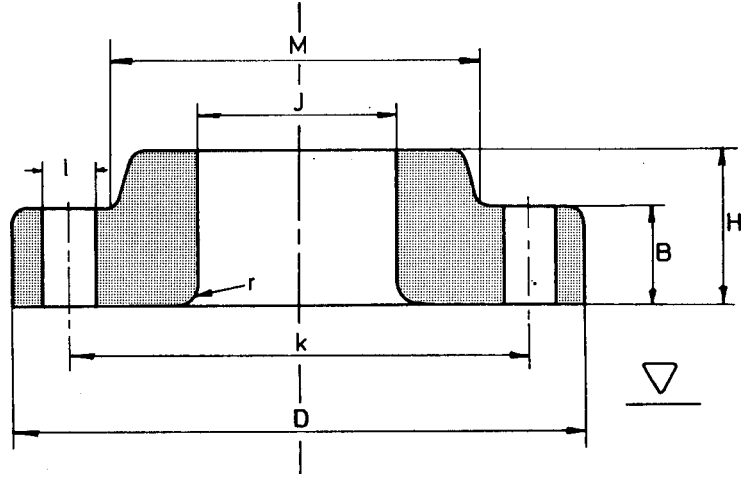


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Radius of Fillet R	Diam. at Base of Hub M		Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	120.6	22.9	22.3	31.7	3.0	38.1		4	22.3	82.5	1.8
3/4"	mm	130.0	28.2	25.4	35.0	3.0	44.4		4	22.3	88.9	2.3
1"	mm	149.3	35.0	28.4	41.1	3.0	52.3		4	25.4	101.6	3.4
1.1/4"	mm	158.7	43.7	28.4	41.1	4.8	63.5		4	25.4	111.2	3.9
1.1/2"	mm	177.8	50.0	31.7	44.4	6.4	69.8		4	28.4	123.9	5.3
2"	mm	215.9	62.5	38.1	57.1	7.8	104.6		8	25.4	165.1	10
2.1/2"	mm	244.3	75.4	41.1	63.5	7.8	123.9		8	28.4	190.5	14
3"	mm	266.7	91.4	47.7	73.1	9.6	133.3		8	31.7	203.2	18
4"	mm	311.1	116.8	53.8	90.4	11.1	162.0		8	35.0	241.3	28
5"	mm	374.6	144.5	73.1	104.6	11.1	196.8		8	41.1	292.1	52
6"	mm	399.7	171.4	82.5	119.1	12.7	228.6		12	38.1	317.5	62
8"	mm	482.6	222.2	91.9	142.7	12.7	292.1		12	44.4	393.7	105
10"	mm	584.2	277.4	107.9	177.8	12.7	368.3		12	50.8	482.6	179
12"	mm	673.1	328.2	123.9	218.9	12.7	450.8		16	53.8	571.5	269



1500 Lbs

Lap Joint Flanges ANSI B 16.5

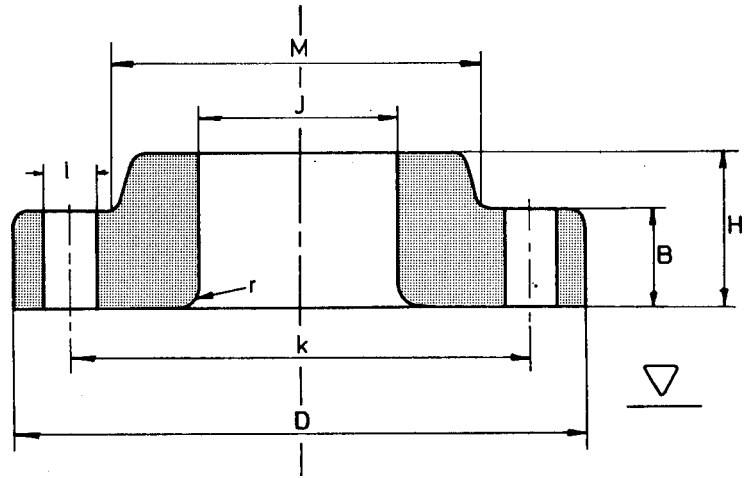


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Radius of Fillet R	Diam. at Base of Hub M		Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
14"	mm	749.3	360.2	133.3	241.3	12.7	495.3		16	60.4	635.0	365
16"	mm	825.5	411.2	146.0	260.3	12.7	552.4		16	66.5	704.8	459
18"	mm	914.4	462.3	162.0	276.2	12.7	596.9		16	73.1	774.7	598
20"	mm	984.2	514.3	177.8	292.1	12.7	641.3		16	79.2	831.8	712
24"	mm	1168.4	615.9	203.2	330.2	12.7	762.0		16	91.9	990.6	1090



2500 Lbs

Lap Joint Flanges ANSI B 16.5

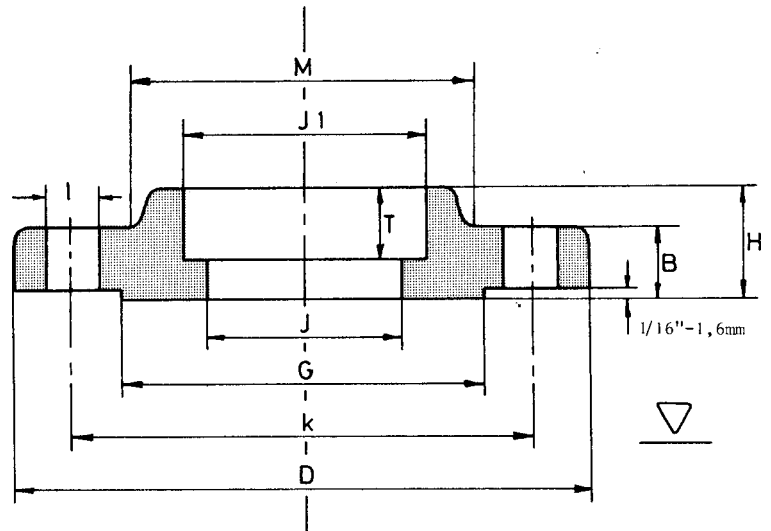


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Radius of Fillet R	Diam. at Base of Hub M		Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	133.4	22.9	30.2	39.6	3.0	42.9		4	22.4	88.9	3
3/4"	mm	139.7	28.2	31.8	42.9	3.0	50.8		4	22.4	95.3	3.5
1"	mm	158.8	35.1	35.1	47.8	3.0	57.2		4	25.4	108.0	4.8
1.1/4"	mm	184.2	43.7	38.1	52.3	4.8	73.2		4	28.4	130.0	7.1
1.1/2"	mm	203.2	50.0	44.5	60.5	6.4	79.2		4	31.8	146.1	10
2"	mm	235.0	62.5	50.8	69.9	7.9	95.3		8	28.4	171.5	14.7
2.1/2"	mm	266.7	75.4	57.2	79.2	7.9	114.3		8	31.8	196.9	22
3"	mm	304.8	91.4	66.5	91.9	9.7	133.4		8	35.1	228.6	33
4"	mm	355.6	116.8	76.2	107.9	11.2	165.1		8	41.1	273.1	53
5"	mm	419.1	144.5	91.9	130.2	11.2	203.2		8	47.8	323.9	83
6"	mm	482.6	171.5	108.0	152.4	12.7	235.0		8	53.8	368.3	127
8"	mm	552.5	222.3	127.0	177.8	12.7	304.8		12	53.8	438.2	186
10"	mm	673.1	277.4	165.1	228.6	12.7	374.7		12	66.5	539.8	352
12"	mm	762.0	328.2	184.2	254.0	12.7	441.5		12	73.2	619.3	501



150 Lbs

Socket Weld Flanges ANSI B 16.5



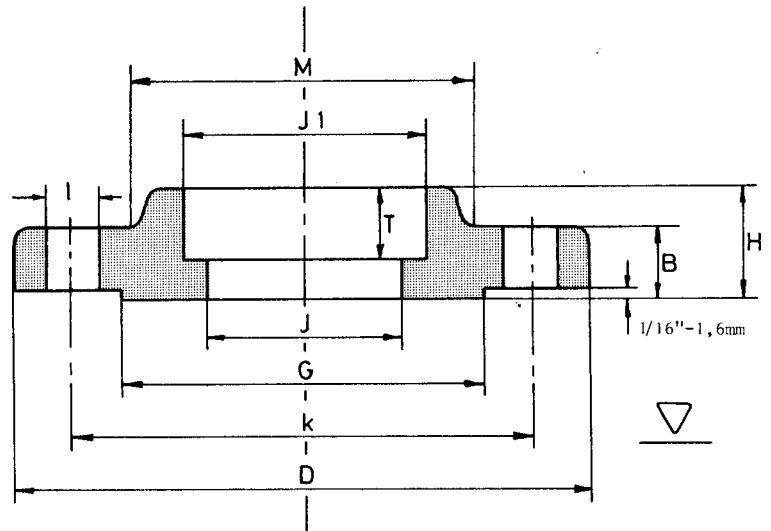
Diameter J to be specified

Nominal Pipe Size	mm	Outside Diam. D	Bore of Socket J1	Depth of Socket T	Thick-ness Min. B	Length thru Hub H	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/4"	mm	88.9	14.7	9.6	11.2	15.7	30.2	35.1	4	15.7	60.5	0.4
3/8"	mm	88.9	18.3	9.6	11.2	15.7	30.2	35.1	4	15.7	60.5	0.4
1/2"	mm	88.9	22.4	9.6	11.2	15.7	30.2	35.1	4	15.7	60.5	0.5
3/4"	mm	98.6	27.7	11.1	12.7	15.7	38.1	42.9	4	15.7	69.9	0.6
1"	mm	108.0	34.5	12.7	14.2	17.5	49.2	50.8	4	15.7	79.2	0.9
1.1/4"	mm	117.3	43.2	14.2	15.7	20.6	58.7	63.5	4	15.7	88.9	1.1
1.1/2"	mm	127.0	49.5	15.7	17.5	22.4	65.0	73.1	4	15.7	98.6	1.4
2"	mm	152.4	62.0	17.5	19.1	25.4	77.7	91.9	4	19.1	120.7	2.1
2.1/2"	mm	177.8	74.7	19.0	22.4	28.4	90.4	104.6	4	19.1	139.7	3.4
3"	mm	190.5	90.7	20.6	23.9	30.2	108.0	127.0	4	19.1	152.4	3.9
3.1/2"	mm	215.9	103.4	22.2	23.9	31.7	122.2	139.7	8	19.1	177.8	5.0
4"	mm	228.6	116.1	23.8	23.9	33.3	134.9	157.2	8	19.1	190.5	5.9
5"	mm	254.0	143.8	23.8	23.9	36.5	163.5	185.7	8	22.2	215.9	6.8
6"	mm	279.4	170.7	27.0	25.4	39.7	192.1	215.9	8	22.2	241.3	8.6



150 Lbs

Socket Weld Flanges ANSI B 16.5



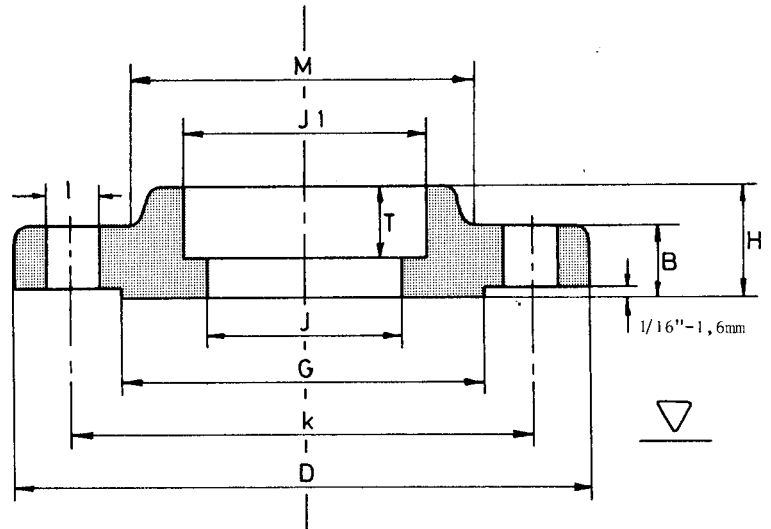
Diameter J to be specified

Nominal Pipe Size	mm	Outside Diam. D	Bore of Socket J1	Depth of Socket T	Thick-ness Min. B	Length thru Hub H	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
8"	mm	342.9	221.5	31.7	28.6	44.4	246.1	269.9	8	22.4	298.4	13.7
10"	mm	406.4	276.3	33.3	30.2	49.2	304.8	323.8	12	25.4	361.9	19.6
12"	mm	482.6	327.1	39.7	31.8	55.6	365.1	381.0	12	25.4	431.8	29
14"	mm	533.4	359.1	41.3	34.9	57.1	400.0	412.7	12	28.6	476.2	41
16"	mm	596.9	410.5	44.4	36.5	63.5	457.2	469.9	16	28.6	539.7	44.5
18"	mm	635.0	461.8	49.2	39.7	68.3	504.8	533.4	16	31.7	577.8	59
20"	mm	698.5	513.1	54.0	42.9	73.0	558.8	584.2	20	31.7	635.0	75
24"	mm	812.8	615.9	63.5	47.6	82.5	663.6	692.1	20	34.9	749.3	99



300 Lbs

Socket Weld Flanges ANSI B 16.5



Diameter J to be specified

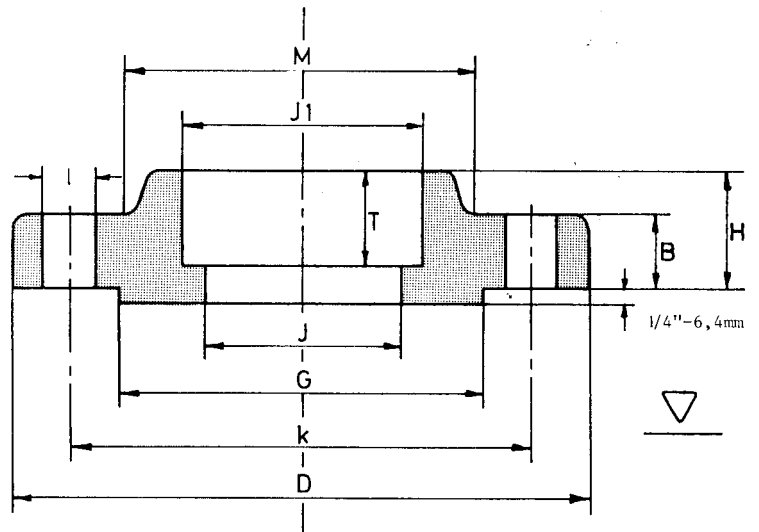
Nominal Pipe Size	mm	Outside Diam. D	Bore of Socket J1	Depth of Socket T	Thick-ness Min. B	Length thru Hub H	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/4"	mm	95.2	14.7	9.6	14.2	22.3	38.1	35.1	4	15.7	66.5	0.7
3/8"	mm	95.2	18.3	9.6	14.2	22.3	38.1	35.1	4	15.7	66.5	0.8
1/2"	mm	95.2	22.4	9.6	14.2	22.3	38.1	35.1	4	15.7	66.5	0.9
3/4"	mm	117.3	27.7	11.1	15.7	25.4	47.7	42.9	4	19.1	82.5	1.2
1"	mm	123.9	34.5	12.7	17.5	26.9	53.8	50.8	4	19.1	88.9	1.4
1.1/4"	mm	133.3	43.2	14.2	19.0	26.9	63.5	63.5	4	19.1	98.5	1.8
1.1/2"	mm	155.4	49.5	15.7	20.6	30.2	69.8	73.1	4	22.3	114.3	2.6
2"	mm	165.1	62.0	17.5	22.3	33.2	84.0	91.9	8	19.1	127.0	3.0
2.1/2"	mm	190.5	74.7	19.0	25.4	38.1	100.0	104.6	8	22.3	149.3	4.4
3"	mm	209.5	90.7	20.6	28.4	42.9	117.3	127.0	8	22.3	168.1	6.0
3.1/2"	mm	228.6	103.4	22.3	30.2	44.4	133.3	139.7	8	22.3	184.1	7.7
4"	mm	254.0	116.1	23.8	31.8	47.6	146.0	157.2	8	22.3	200.0	10



600 Lbs

Socket Weld Flanges

ANSI B 16.5



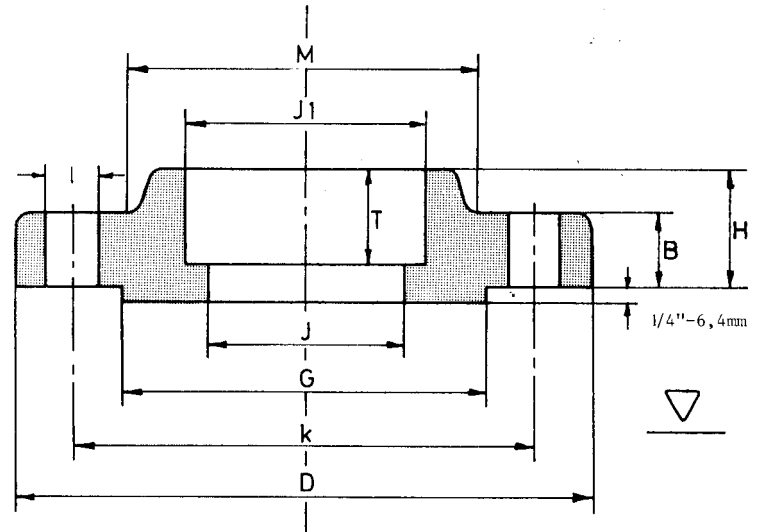
Diameter J to be specified

Nominal Pipe Size	mm	Outside Diam. D	Bore of Socket J1	Depth of Socket T	Thick-ness Min. B	Length thru Hub H	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/4"	mm	95.3	14.7	9.6	14.2	22.4	38.1	35.1	4	15.7	66.5	0.7
3/8"	mm	95.3	18.3	9.6	14.2	22.4	38.1	35.1	4	15.7	66.5	0.8
1/2"	mm	95.3	22.4	9.6	14.2	22.4	38.1	35.1	4	15.7	66.5	0.9
3/4"	mm	117.3	27.7	11.1	15.7	25.4	47.8	42.9	4	19.1	82.6	1.3
1"	mm	124.0	34.5	12.7	17.5	26.9	53.8	50.8	4	19.1	88.9	1.6
1.1/4"	mm	133.4	43.2	14.2	20.6	28.4	63.5	63.5	4	19.1	98.6	2.1
1.1/2"	mm	155.4	49.5	15.7	22.4	31.8	69.9	73.1	4	22.4	114.3	3.0
2"	mm	165.1	62.0	17.5	25.4	36.6	84.1	91.9	8	19.1	127.0	3.7
2.1/2"	mm	190.5	74.7	19.0	28.4	41.1	100.0	104.6	8	22.4	149.4	5.4
3"	mm	209.6	90.7	20.6	31.8	46.0	117.3	127.0	8	22.4	168.1	7.1
3.1/2"	mm	228.6	103.4	22.2	35.1	49.2	133.4	139.7	8	25.4	184.2	9.5



1500 Lbs

Socket Weld Flanges ANSI B 16.5



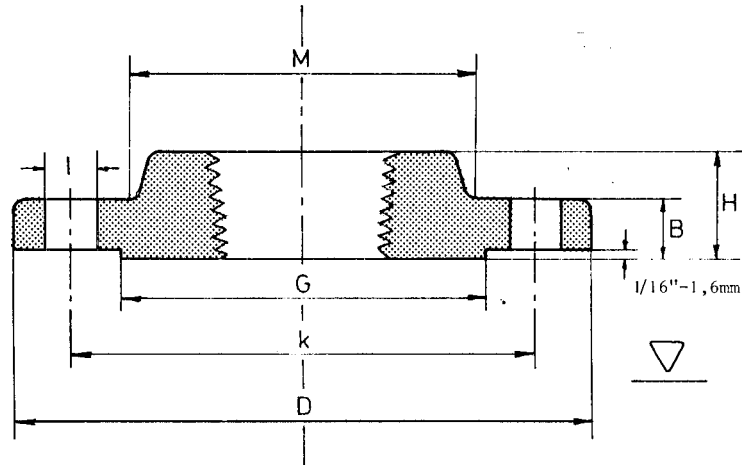
Diameter J to be specified

Nominal Pipe Size	mm	Outside Diam. D	Bore of Socket J1	Depth of Socket T	Thick-ness Min. B	Length thru Hub H	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	120.6	22.4	9.6	22.3	31.7	38.1	35.1	4	22.3	82.5	1.8
3/4"	mm	130.0	27.7	11.1	25.4	35.0	44.4	42.9	4	22.3	88.9	2.4
1"	mm	149.3	34.5	12.7	28.4	41.1	52.3	50.8	4	25.4	101.6	3.5
1.1/4"	mm	158.7	43.2	14.2	28.4	41.1	63.5	63.5	4	25.4	111.2	4.0
1.1/2"	mm	177.8	49.5	15.7	31.7	44.5	69.8	73.1	4	28.4	123.9	5.4
2"	mm	215.9	62.0	17.5	38.1	57.1	104.6	91.9	8	25.4	165.1	10.2
2.1/2"	mm	244.3	74.7	19.0	41.1	63.5	123.9	104.6	8	28.4	190.5	13.9



150 Lbs

Threaded Flanges ANSI B 16.5

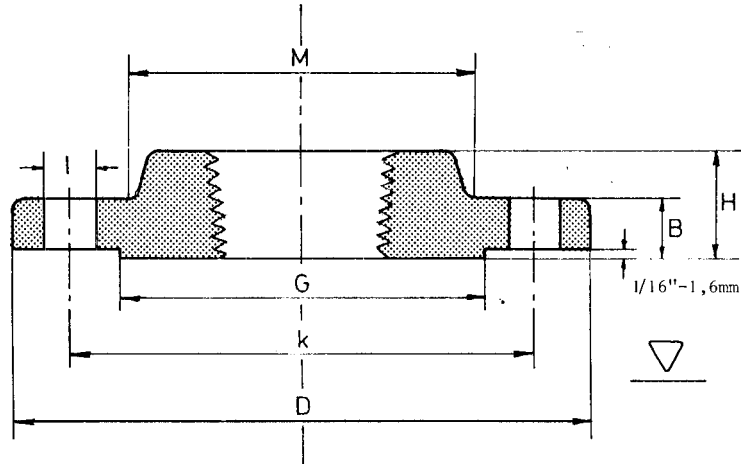


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Thread Length T	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	88.9		11.2	15.7		30.2	35.1	4	15.7	60.5	0.4
3/4"	mm	98.6		12.7	15.7		38.1	42.9	4	15.7	69.9	0.6
1"	mm	108.0		14.2	17.5		49.3	50.8	4	15.7	79.2	0.8
1.1/4"	mm	117.3		15.7	20.6		58.7	63.5	4	15.7	88.9	1.1
1.1/2"	mm	127.0		17.5	22.4		65.0	73.2	4	15.7	98.6	1.4
2"	mm	152.4		19.1	25.4		77.7	91.9	4	19.1	120.7	2.1
2.1/2"	mm	177.8		22.4	28.4		90.4	104.6	4	19.1	139.7	3.3
3"	mm	190.5		23.9	30.2		108.0	127.0	4	19.1	152.4	3.9
3.1/2"	mm	215.9		23.9	31.8		122.2	139.7	8	19.1	177.8	4.8
4"	mm	228.6		23.9	33.3		134.9	157.2	8	19.1	190.5	5.3
5"	mm	254.0		23.9	36.6		163.6	185.7	8	22.4	215.9	6.1
6"	mm	279.4		25.4	39.6		192.0	215.9	8	22.4	241.3	7.6
8"	mm	342.9		28.4	44.5		246.1	269.7	8	22.4	298.5	12.1
10"	mm	406.4		30.2	49.3		304.8	323.9	12	25.4	362.0	16.5



150 Lbs

Threaded Flanges ANSI B 16.5

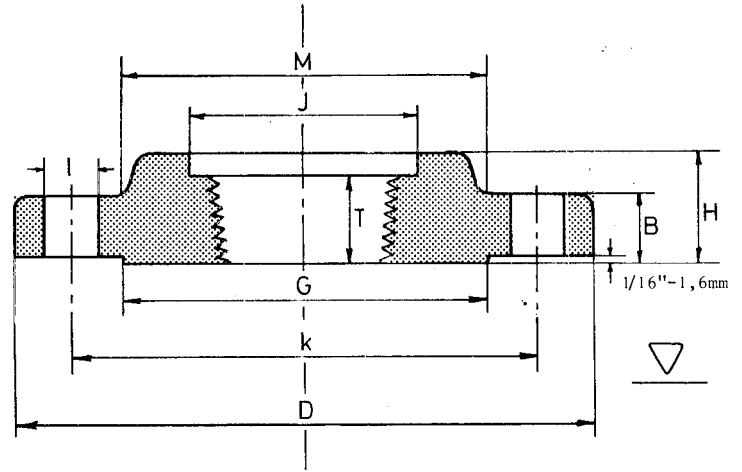


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Thread Length T	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
12"	mm	482.6		31.8	55.6		365.3	381.0	12	25.4	431.8	27
14"	mm	533.4		35.1	57.2		400.1	412.8	12	28.4	476.3	35
16"	mm	596.9		36.6	63.5		457.2	469.9	16	28.4	539.8	45
18"	mm	635.0		39.6	68.3		505.0	533.4	16	31.8	577.9	49
20"	mm	698.5		42.9	73.2		558.8	584.2	20	31.8	635.0	62
24"	mm	812.8		47.8	82.6		663.4	692.1	20	35.1	749.3	87



300 Lbs

Threaded Flanges ANSI B 16.5

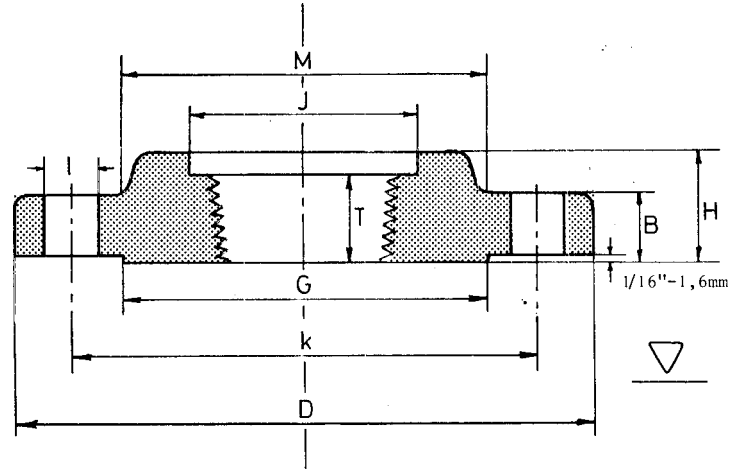


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Thread Length T	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	95.2	23.6	14.2	22.3	15.7	38.1	35.0	4	15.7	66.5	0.7
3/4"	mm	117.3	29.0	15.7	25.4	15.7	47.7	42.9	4	19.0	82.5	1.2
1"	mm	123.9	35.8	17.5	26.9	17.5	53.8	50.8	4	19.0	88.9	1.4
1.1/4"	mm	133.3	44.4	19.0	26.9	20.5	63.5	63.5	4	19.0	98.5	1.7
1.1/2"	mm	155.4	50.5	20.6	30.2	22.3	69.8	73.1	4	22.3	114.3	2.5
2"	mm	165.1	63.5	22.3	33.2	28.4	84.0	91.9	8	19.0	127.0	2.9
2.1/2"	mm	190.5	76.2	25.4	38.1	31.7	100.0	104.6	8	22.3	149.3	4.4
3"	mm	209.5	92.2	28.4	42.9	31.7	117.3	127.0	8	22.3	168.1	5.9
3.1/2"	mm	228.6	104.9	30.2	44.4	36.5	133.3	139.7	8	22.3	184.1	7.4
4"	mm	254.0	117.6	31.7	47.7	36.5	146.0	157.2	8	22.3	200.1	10
5"	mm	279.4	144.5	35.0	50.8	42.9	177.8	185.6	8	22.3	234.9	12.3
6"	mm	317.5	171.4	36.5	52.3	45.9	206.2	215.9	12	22.3	269.7	15.6
8"	mm	381.0	222.2	41.1	61.9	50.8	260.3	269.7	12	25.4	330.2	24.2
10"	mm	444.5	276.3	47.7	66.5	55.6	320.5	323.8	16	28.4	387.3	34.1



300 Lbs

Threaded Flanges ANSI B 16.5



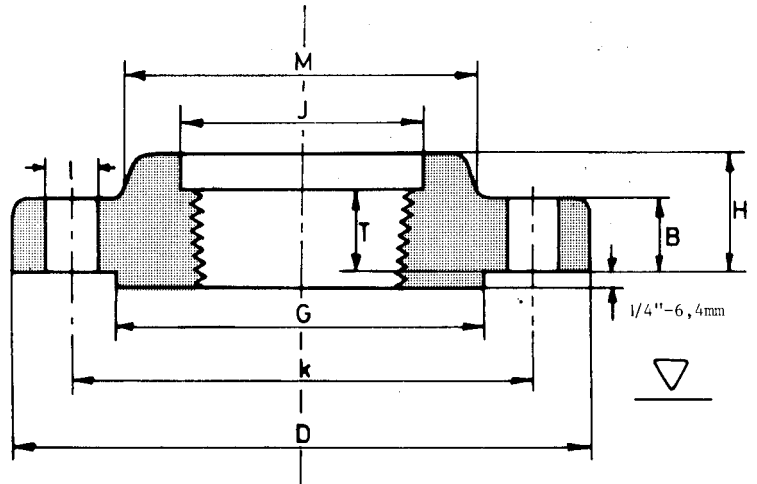
Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Thread Length T	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
12"	mm	520.7	328.7	50.8	73.1	60.4	374.6	381.0	16	31.7	450.8	50
14"	mm	584.2	360.4	53.8	76.2	63.5	425.4	412.7	20	31.7	514.3	70
16"	mm	647.7	411.2	57.1	82.5	68.3	482.6	469.9	20	35.0	571.5	89
18"	mm	711.2	462.0	60.4	88.9	69.8	533.4	533.4	24	35.0	628.6	109
20"	mm	774.7	512.8	63.5	95.2	73.1	587.2	584.2	24	35.0	685.8	134
24"	mm	914.4	614.4	69.8	106.4	82.5	701.5	692.1	24	41.1	812.8	201



600 Lbs

Threaded Flanges

ANSI B 16.5



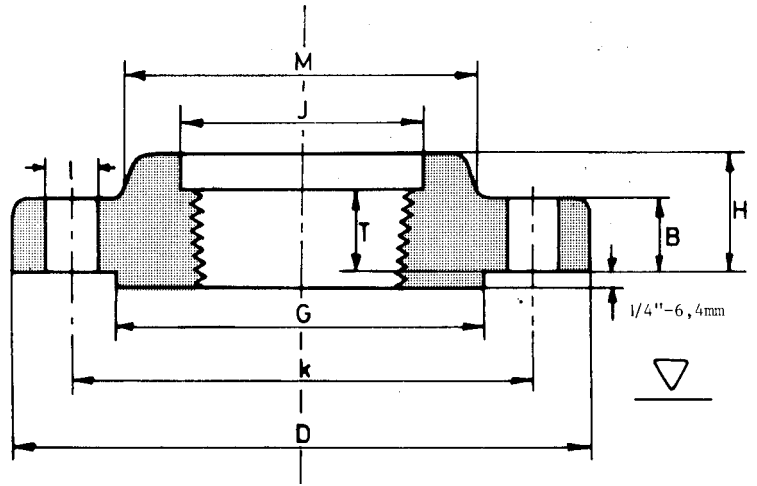
Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Thread Length T	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	95.3	23.6	14.2	22.4	15.7	38.1	35.1	4	15.7	66.5	0.8
3/4"	mm	117.3	29.0	15.7	25.4	15.7	47.8	42.9	4	19.1	82.6	1.3
1"	mm	124.0	35.8	17.5	26.9	17.5	53.8	50.8	4	19.1	88.9	1.6
1.1/4"	mm	133.4	44.5	20.6	28.4	20.6	63.5	63.5	4	19.1	98.6	2.1
1.1/2"	mm	155.4	50.5	22.4	31.8	22.4	69.9	73.1	4	22.4	114.3	3.0
2"	mm	165.1	63.5	25.4	36.6	28.4	84.1	91.9	8	19.1	127.0	3.7
2.1/2"	mm	190.5	76.2	28.4	41.1	31.8	100.1	104.6	8	22.4	149.4	5.3
3"	mm	209.6	92.2	31.8	46.0	35.1	117.3	127.0	8	22.4	168.1	7.0
3.1/2"	mm	228.6	104.9	35.1	49.3	39.6	133.4	139.7	8	25.4	184.2	8.9
4"	mm	273.1	117.6	38.1	53.8	41.1	152.4	157.2	8	25.4	215.9	15
5"	mm	330.2	144.5	44.5	60.5	47.8	189.0	185.7	8	28.4	266.7	25
6"	mm	355.6	171.5	47.8	66.5	50.8	222.3	215.9	12	28.4	292.1	29
8"	mm	419.1	222.3	55.6	76.2	57.2	273.1	269.7	12	31.8	349.3	44
10"	mm	508.0	276.4	63.5	85.9	65.0	342.9	323.9	16	35.1	431.8	71



600 Lbs

Threaded Flanges

ANSI B 16.5

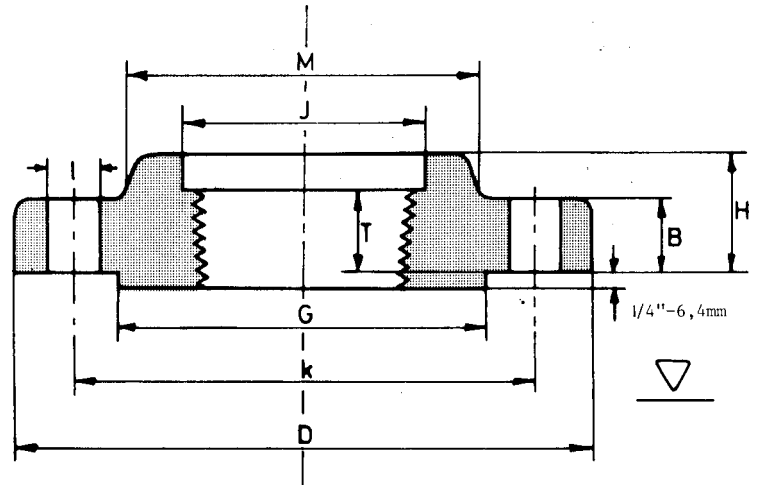


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Thread Length T	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
12"	mm	558.8	328.7	66.5	91.9	69.9	400.1	381.0	20	35.1	489.0	85
14"	mm	603.3	360.4	69.9	93.7	73.2	431.8	412.8	20	38.1	527.1	99
16"	mm	685.8	411.2	76.2	106.4	77.7	495.3	469.9	20	41.1	603.3	142
18"	mm	743.0	462.0	82.6	117.3	79.2	546.1	533.4	20	44.5	654.1	173
20"	mm	812.8	512.8	88.9	127.0	82.6	609.6	584.2	24	44.5	723.9	220
24"	mm	939.8	614.4	101.6	139.7	91.9	717.6	692.1	24	50.8	838.2	312



900 Lbs

Threaded Flanges ANSI B 16.5



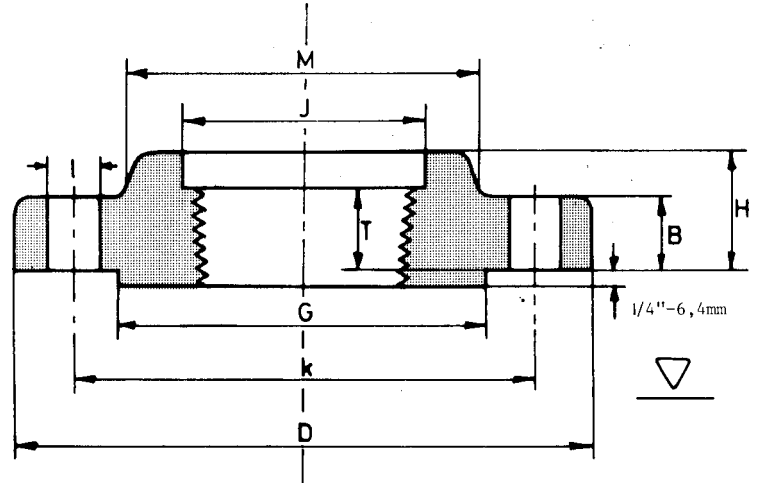
Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Thread Length T	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	120.6	23.6	22.3	31.7	22.3	38.1	34.9	4	22.3	82.5	1.8
3/4"	mm	130.0	29.0	25.4	35.0	25.4	44.4	42.9	4	22.3	88.9	2.3
1"	mm	149.3	35.8	28.4	41.1	28.4	52.3	50.8	4	25.4	101.6	3.6
1.1/4"	mm	158.7	44.4	28.4	41.1	30.2	63.5	63.5	4	25.4	111.2	4.1
1.1/2"	mm	177.8	50.5	31.7	44.5	31.8	69.8	73.1	4	28.4	123.9	5.4
2"	mm	215.9	63.5	38.1	57.1	38.1	104.6	91.9	8	25.4	165.1	10
2.1/2"	mm	244.3	76.2	41.1	63.5	47.7	123.9	104.6	8	28.4	190.5	14
3"	mm	241.3	92.2	38.1	53.8	41.1	127.0	127.0	8	25.4	190.5	12
4"	mm	292.1	117.6	44.4	69.8	47.8	158.7	157.2	8	31.7	234.9	20
5"	mm	349.2	144.5	50.8	79.2	53.8	190.5	185.6	8	35.0	279.4	32
6"	mm	381.0	171.4	55.6	85.8	57.1	234.9	215.9	12	31.7	317.5	42
8"	mm	469.9	222.2	63.5	101.6	63.5	298.4	269.7	12	38.1	393.7	71
10"	mm	546.1	276.3	69.8	107.9	71.4	368.3	323.8	16	38.1	469.9	101
12"	mm	609.6	328.7	79.4	117.3	76.2	419.1	381.0	20	38.1	533.4	133



900 Lbs

Threaded Flanges

ANSI B 16.5



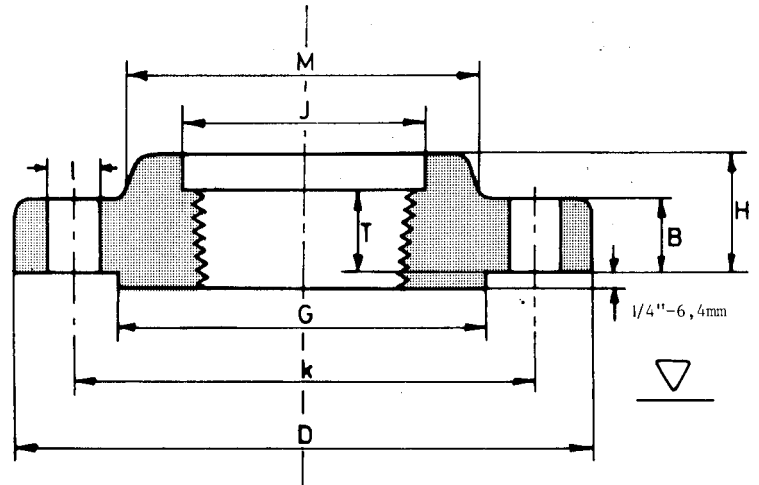
Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Thread Length T	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
14"	mm	641.3	360.4	85.7	130.0	82.5	450.8	412.7	20	41.3	558.8	153
16"	mm	704.8	411.2	88.9	133.3	85.9	508.0	469.9	20	44.4	618.9	185
18"	mm	787.4	462.0	101.6	152.4	88.9	565.1	533.4	20	50.8	685.8	258
20"	mm	857.2	512.8	107.9	158.7	91.9	622.3	584.2	20	54.0	749.3	317
24"	mm	1041.4	614.4	139.7	203.2	101.6	749.3	692.1	20	66.5	901.7	606



1500 Lbs

Threaded Flanges

ANSI B 16.5



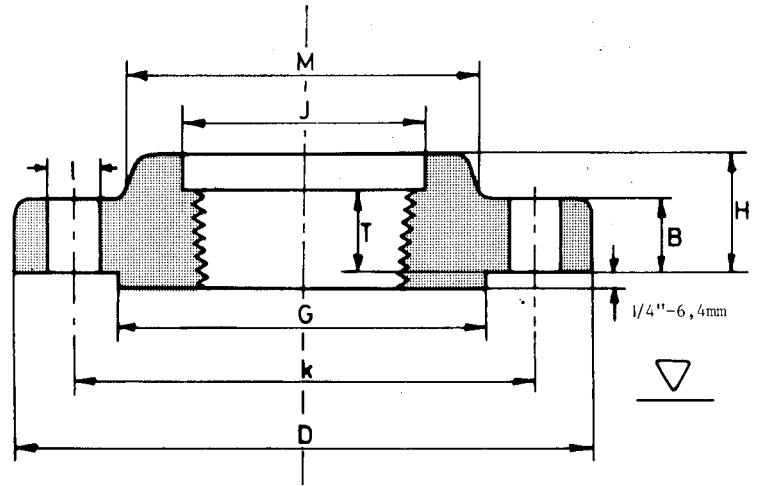
Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Thread Length T	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	120.6	23.6	22.3	31.7	22.3	38.1	35.0	4	22.3	82.5	1.8
3/4"	mm	130.0	29.0	25.4	35.0	25.4	44.4	42.9	4	22.3	88.9	2.3
1"	mm	149.3	35.8	28.4	41.1	28.4	52.3	50.8	4	25.4	101.6	3.6
1.1/4"	mm	158.7	44.4	28.4	41.1	30.2	63.5	63.5	4	25.4	111.2	4
1.1/2"	mm	177.8	50.5	31.7	44.5	31.7	69.8	73.1	4	28.4	123.9	5.4
2"	mm	215.9	63.5	38.1	57.1	38.1	104.6	91.9	8	25.4	165.1	10
2.1/2"	mm	244.3	76.2	41.1	63.5	47.7	123.9	104.6	8	28.4	190.5	14
3"	mm	266.7	92.2	47.7	73.1	50.8	133.3	127.0	8	31.7	203.2	18
4"	mm	311.1	117.6	53.8	90.4	57.1	162.0	157.2	8	35.1	241.3	40
5"	mm	374.6	144.5	73.1	104.6	63.5	196.8	185.6	8	41.1	292.1	52
6"	mm	393.7	171.4	82.5	119.1	69.8	228.6	215.9	12	38.1	317.5	61
8"	mm	482.6	222.2	91.9	142.7	76.2	292.1	269.7	12	44.4	393.7	103
10"	mm	584.2	276.3	107.9	158.7	84.0	368.3	323.8	12	50.8	482.6	175
12"	mm	673.1	328.7	123.9	180.8	91.9	450.8	381.0	16	53.8	571.5	264



2500 Lbs

Threaded Flanges

ANSI B 16.5

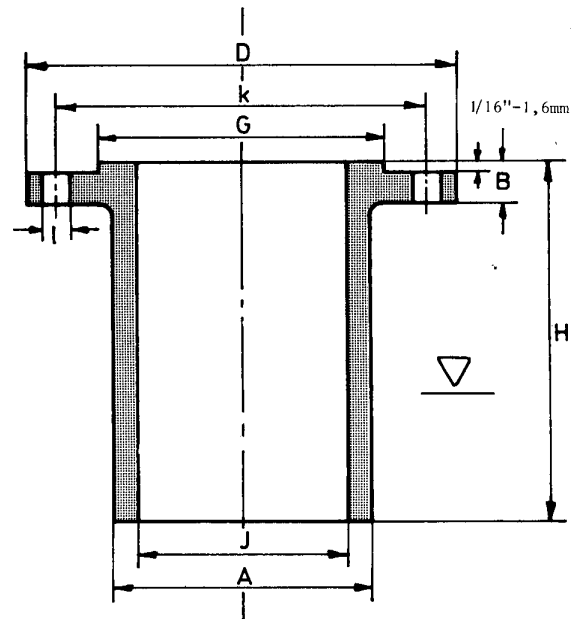


Nominal Pipe Size	mm	Outside Diam. D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Thread Length T	Diam. at Base of Hub M	O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diam. K	Approx Weight Kg
1/2"	mm	133.4	23.6	30.2	39.6	28.4	42.9	35.1	4	22.4	88.9	3
3/4"	mm	139.7	29.0	31.8	42.9	31.8	50.8	42.9	4	22.4	95.3	3.5
1"	mm	158.8	35.8	35.1	47.8	35.1	57.2	50.8	4	25.4	108.0	4.9
1.1/4"	mm	184.2	44.5	38.1	52.3	38.1	73.2	63.5	4	28.4	130.0	7.2
1.1/2"	mm	203.2	50.5	44.5	60.5	44.5	79.2	73.2	4	31.8	146.1	10
2"	mm	235.0	63.5	50.8	69.9	50.8	95.3	91.9	8	28.4	171.5	15
2.1/2"	mm	266.7	76.2	57.2	79.2	57.2	114.3	104.6	8	31.8	196.9	22
3"	mm	304.8	92.2	66.5	91.9	63.5	133.4	127.0	8	35.1	228.6	33
4"	mm	355.6	117.6	76.2	108.0	69.9	165.1	157.2	8	41.1	273.1	53
5"	mm	419.1	144.5	91.9	130.0	76.2	203.2	185.7	8	47.8	323.9	84
6"	mm	482.6	171.5	108.0	152.4	82.6	235.0	215.9	8	53.8	368.3	128
8"	mm	552.5	222.3	127.0	177.8	95.3	304.8	269.7	12	53.8	438.2	188
10"	mm	673.1	276.4	165.1	228.6	108.0	374.7	323.9	12	66.5	539.8	355
12"	mm	762.0	328.7	184.2	254.0	120.7	441.5	381.0	12	73.2	619.3	504



150 Lbs

Long Welding Neck Flanges

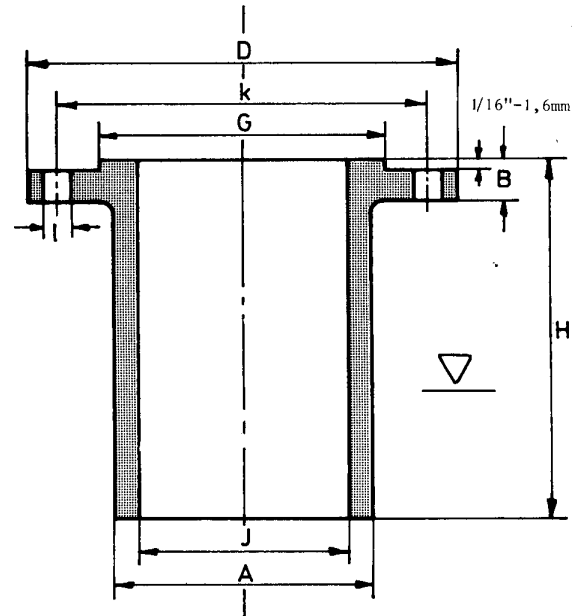


Nominal Pipe Size	mm	Outside Diameter D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A		O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diameter K	Approx Weight Kg
1"	mm	107.9	25.4	14.3	228.6	50.8		50.8	4	15.9	79.4	3.2
1.1/4"	mm	117.5	31.7	15.9	228.6	60.3		63.5	4	15.9	88.9	3.6
1.1/2"	mm	127.0	38.1	17.5	228.6	66.7		73.0	4	15.9	98.4	5.4
2"	mm	152.4	50.8	19.0	228.6	82.5		92.1	4	19.0	120.6	7.7
2.1/2"	mm	177.8	63.5	22.2	228.6	95.2		104.8	4	19.0	139.7	9.5
3"	mm	190.5	76.2	23.8	228.6	107.9		127.0	4	19.0	152.4	11.3
3.1/2"	mm	215.9	88.9	23.8	228.6	123.8		139.7	8	19.0	177.8	14
4"	mm	228.6	101.6	23.8	304.8	139.7		157.2	8	19.0	190.5	21.3
5"	mm	254.0	127.0	23.8	304.8	165.1		185.7	8	22.2	215.9	25.9
6"	mm	279.4	152.4	25.4	304.8	196.8		215.9	8	22.2	241.3	34.4
8"	mm	342.9	203.2	28.6	304.8	247.6		269.9	8	22.2	298.4	45.2
10"	mm	406.4	254.0	30.2	304.8	304.8		323.8	12	25.4	361.9	65.6
12"	mm	482.6	304.8	31.7	304.8	365.1		381.0	12	25.4	431.8	92.8
14"	mm	533.4	355.6	34.9	304.8	406.4		412.7	12	28.6	476.2	83.7



150 Lbs

Long Welding Neck Flanges

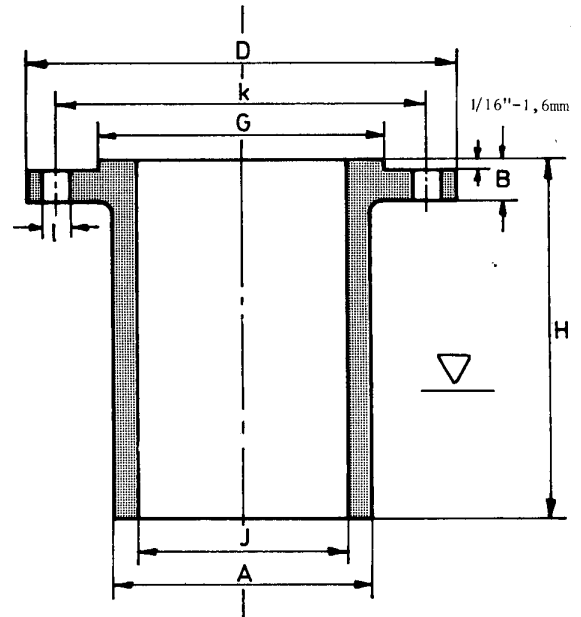


Nominal Pipe Size	mm	Outside Diameter D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A		O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diameter K	Approx Weight Kg
16"	mm	596.9	406.4	36.5	304.8	457.2		469.9	16	28.6	539.7	97
18"	mm	635.0	457.2	39.7	304.8	504.8		533.4	16	31.7	577.8	106
20"	mm	698.5	508.0	42.9	304.8	558.8		584.2	20	31.7	635.0	124
24"	mm	812.8	609.6	47.6	304.8	666.7		692.1	20	34.9	749.3	167



300 Lbs

Long Welding Neck Flanges

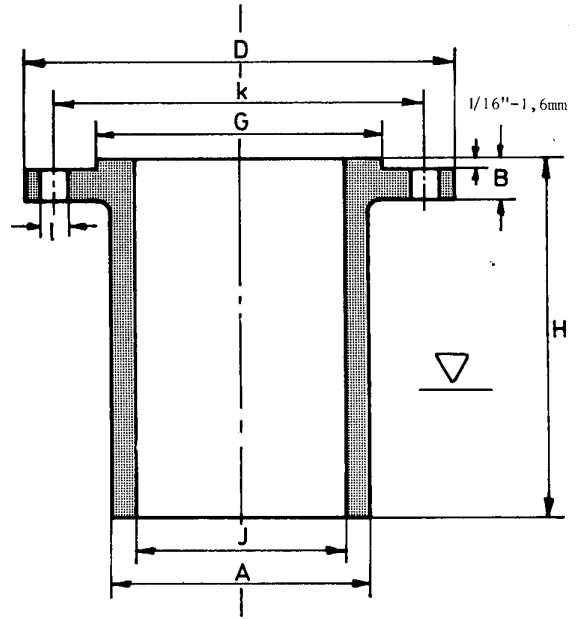


Nominal Pipe Size	mm	Outside Diameter D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A		O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diameter K	Approx Weight Kg
1"	mm	123.8	25.4	17.5	228.6	54.0		50.8	4	19.0	88.9	4.5
1.1/4"	mm	133.3	31.7	19.0	228.6	63.5		63.5	4	19.0	98.4	5.4
1.1/2"	mm	155.6	38.1	20.6	228.6	69.8		73.0	4	22.2	114.3	6.8
2"	mm	165.1	50.8	22.2	228.6	82.5		92.1	8	19.0	127.0	8.6
2.1/2"	mm	190.5	63.5	25.4	228.6	100.0		104.8	8	22.2	149.2	11.7
3"	mm	209.5	76.2	28.6	228.6	117.5		127.0	8	22.2	168.3	15.4
3.1/2"	mm	228.6	88.9	30.2	228.6	133.3		139.7	8	22.2	184.1	19.5
4"	mm	254.0	101.6	31.8	304.8	146.0		157.2	8	22.2	200.0	28
5"	mm	279.4	127.0	34.9	304.8	177.8		185.7	8	22.2	234.9	37.6
6"	mm	317.5	152.4	36.5	304.8	206.4		215.9	12	22.2	269.9	47.5
8"	mm	381.0	203.2	41.3	304.8	260.3		269.9	12	25.4	330.2	68
10"	mm	444.5	254.0	47.6	304.8	320.7		323.8	16	28.6	387.3	95
12"	mm	520.7	304.8	50.8	304.8	374.6		381.0	16	31.7	450.8	124
14"	mm	584.2	355.6	54.0	304.8	425.4		412.7	20	31.7	514.3	130



300 Lbs

Long Welding Neck Flanges

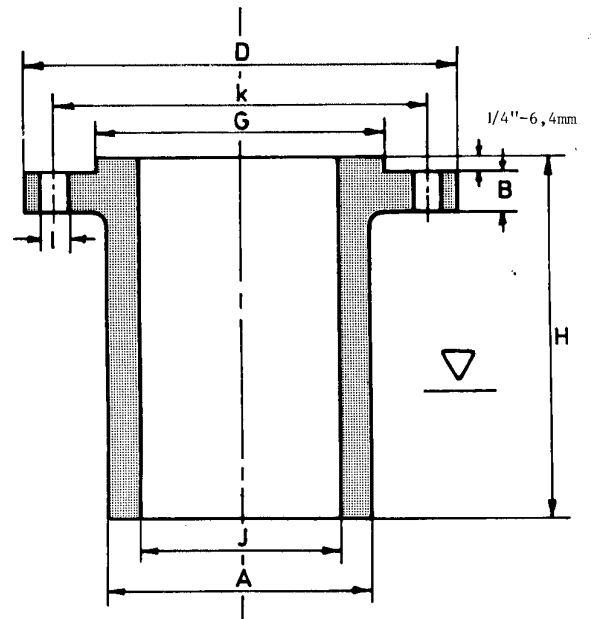


Nominal Pipe Size	mm	Outside Diameter D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A		O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diameter K	Approx Weight Kg
16"	mm	647.7	406.4	57.1	304.8	482.6		469.9	20	34.9	571.5	160
18"	mm	711.2	457.2	60.3	304.8	533.4		533.4	24	34.9	628.6	185
20"	mm	774.7	508.0	63.5	304.8	587.4		584.2	24	34.9	685.8	210
24"	mm	914.4	609.6	69.8	304.8	701.7		692.1	24	41.3	812.8	316



600 Lbs

Long Welding Neck Flanges



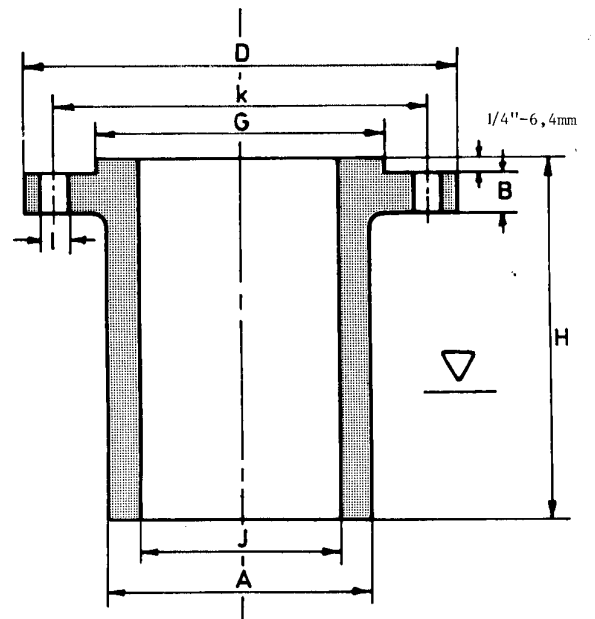
* = to be specified

Nominal Pipe Size	mm	Outside Diameter D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A		O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diameter K	Approx Weight Kg
1"	mm	123.8	25.4	17.5	228.6	54.0		50.8	4	19.0	88.9	4.5
1.1/4"	mm	133.3	31.7	20.6	228.6	63.5		63.5	4	19.0	98.4	5.8
1.1/2"	mm	155.6	38.1	22.2	228.6	69.8		73.0	4	22.2	114.3	7.2
2"	mm	165.1	50.8	25.4	228.6	82.5		92.1	8	19.0	127.0	9
2.1/2"	mm	190.5	63.5	28.6	228.6	100.0		104.8	8	22.2	149.2	12.2
3"	mm	209.5	76.2	31.7	228.6	117.5		127.0	8	22.2	168.3	16.3
3.1/2"	mm	228.6	88.9	34.9	228.6	133.3		139.7	8	25.4	184.1	20.4
4"	mm	273.0	101.6	38.1	304.8	152.4		157.2	8	25.4	215.9	34.8
5"	mm	330.2	127.0	44.4	304.8	190.5		185.7	8	28.6	266.7	56.5
6"	mm	355.6	152.4	47.6	304.8	222.2		215.9	12	28.6	292.1	68
8"	mm	419.1	203.2	55.6	304.8	273.0		269.9	12	31.7	349.2	92.7
10"	mm	508.0	254.0	63.5	304.8	342.9		323.8	16	34.9	431.8	147
12"	mm	558.8	304.8	66.7	304.8	400.0		381.0	20	34.9	488.9	178
14"	mm	603.2	355.6	69.8	*	431.8		412.7	20	38.1	527.0	



600 Lbs

Long Welding Neck Flanges



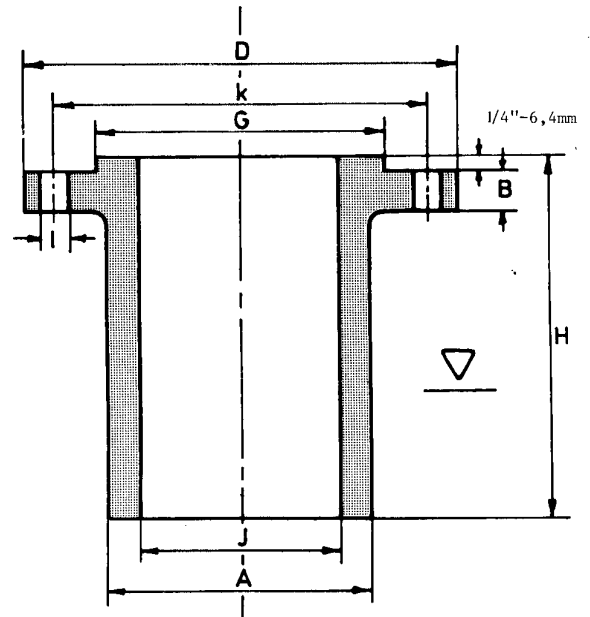
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Nominal Pipe Size	mm	Outside Diameter D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A		O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diameter K	Approx Weight Kg
16"	mm	685.8	406.4	76.2	*	495.3		469.9	20	41.3	603.2	
18"	mm	742.9	457.2	82.5	*	546.1		533.4	20	44.4	654.0	
20"	mm	812.8	508.0	88.9	*	609.6		584.2	24	44.4	723.9	
24"	mm	939.8	609.6	101.6	*	717.5		692.1	24	50.8	838.2	



900 Lbs

Long Welding Neck Flanges



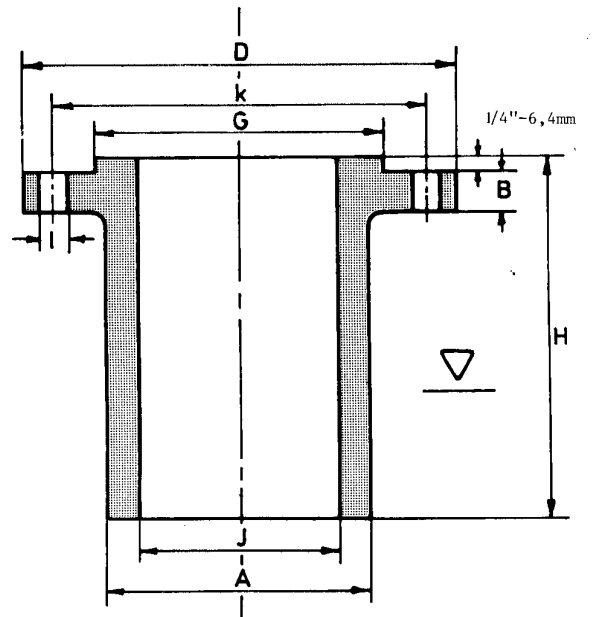
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Nominal Pipe Size	mm	Outside Diameter D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A		O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diameter K	Approx Weight Kg
1"	mm	149.2	25.4	28.6	228.6	52.4		50.8	4	25.4	101.6	5.9
1.1/4"	mm	158.7	31.7	28.6	228.6	63.5		63.5	4	25.4	111.1	7.7
1.1/2"	mm	177.8	38.1	31.7	228.6	69.8		73.0	4	28.6	123.8	9.5
2"	mm	215.9	50.8	38.1	228.6	104.8		92.1	8	25.4	165.1	19
2.1/2"	mm	244.5	63.5	41.3	304.8	123.8		104.8	8	28.6	190.5	30.2
3"	mm	241.3	76.2	38.1	304.8	127.0		127.0	8	25.4	190.5	28
4"	mm	292.1	101.6	44.4	304.8	158.7		157.2	8	31.7	234.9	42
5"	mm	349.2	127.0	50.8	304.8	190.5		185.7	8	34.9	279.4	61
6"	mm	381.0	152.4	55.6	304.8	234.9		215.9	12	31.7	317.5	77
8"	mm	469.9	203.2	63.5	304.8	298.4		269.9	12	38.1	393.7	133
10"	mm	546.1	254.0	69.8	406.4	368.3		323.8	16	38.1	469.9	236
12"	mm	609.6	304.8	79.4	406.4	419.1		381.0	20	38.1	533.4	290
14"	mm	641.2	355.6	85.7	*	450.8		412.7	20	41.3	558.8	
16"	mm	704.8	406.4	88.9	*	508.0		469.9	20	44.4	615.9	



900 Lbs

Long Welding Neck Flanges



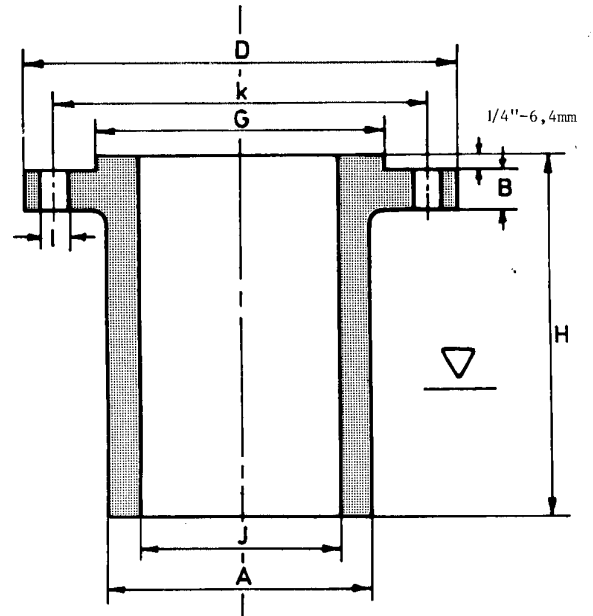
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Nominal Pipe Size	mm	Outside Diameter D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A		O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diameter K	Approx Weight Kg
18"	mm	787.4	457.2	101.6	*	565.1		533.4	20	50.8	685.8	
20"	mm	857.2	508.0	107.9	*	622.3		584.2	20	54.0	749.3	
24"	mm	1041.4	609.6	139.7	*	749.3		692.1	20	66.7	901.7	



1500 Lbs

Long Welding Neck Flanges



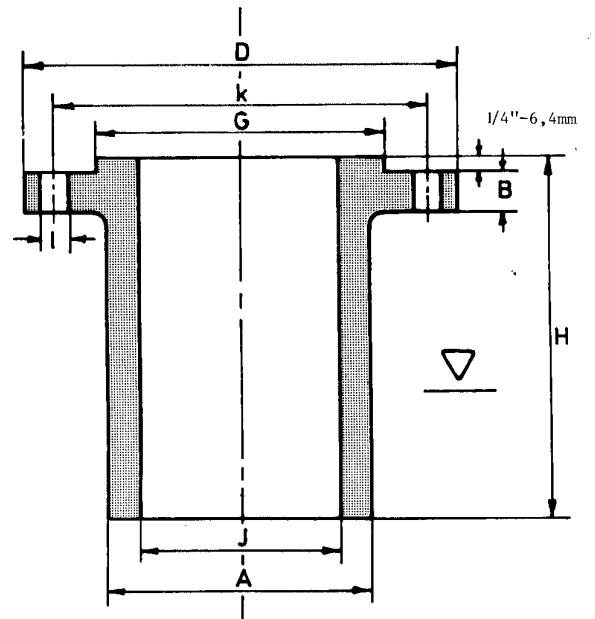
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Nominal Pipe Size	mm	Outside Diameter D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A		O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diameter K	Approx Weight Kg
1"	mm	149.2	25.4	28.6	228.6	52.4		50.8	4	25.4	101.6	5.9
1.1/4"	mm	158.7	31.7	28.6	228.6	63.5		63.5	4	25.4	111.1	7.7
1.1/2"	mm	177.8	38.1	31.7	228.6	69.8		73.0	4	28.6	123.8	9.5
2"	mm	215.9	50.8	38.1	228.6	104.8		92.1	8	25.4	165.1	19
2.1/2"	mm	244.5	63.5	41.3	304.8	123.8		104.8	8	28.6	190.5	30.2
3"	mm	266.7	76.2	47.6	304.8	133.3		127.0	8	31.7	203.2	35.4
4"	mm	311.1	101.6	54.0	304.8	161.9		157.2	8	34.9	241.3	49.7
5"	mm	374.6	127.0	73.0	304.8	196.8		185.7	8	41.3	292.1	81.5
6"	mm	393.7	152.4	82.5	304.8	228.6		215.9	12	38.1	317.5	97
8"	mm	482.6	203.2	92.1	304.8	292.1		269.9	12	44.4	393.7	152
10"	mm	584.2	254.0	107.9	406.4	368.3		323.8	12	50.8	482.6	294
12"	mm	673.1	304.8	123.8	406.4	405.8		381.0	16	54.0	571.5	425
14"	mm	749.3	355.6	133.3	*	495.3		412.7	16	60.3	635.0	
16"	mm	825.5	406.4	146.0	*	552.4		469.9	16	66.7	704.8	



1500 Lbs

Long Welding Neck Flanges



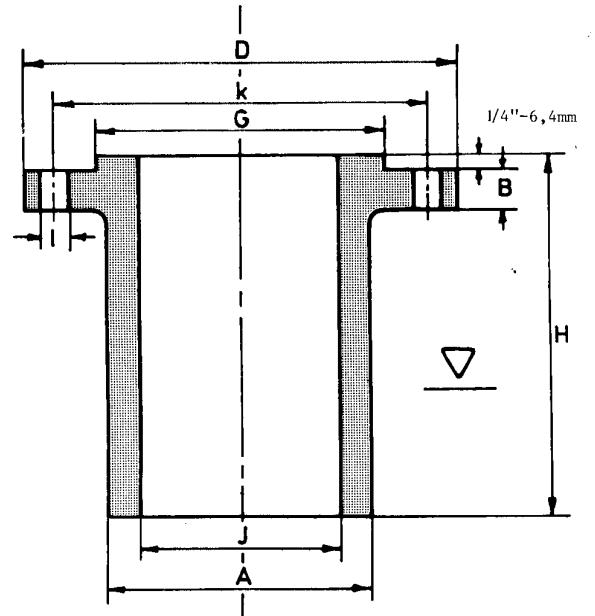
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Nominal Pipe Size	mm	Outside Diameter D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A		O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diameter K	Approx Weight Kg
18"	mm	914.4	457.2	161.9	*	596.9		533.4	16	73.0	774.7	
20"	mm	984.2	508.0	177.8	*	641.2		584.2	16	79.4	831.8	
24"	mm	1168.4	609.6	203.2	*	762.0		692.1	16	92.1	990.6	



2500 Lbs

Long Welding Neck Flanges



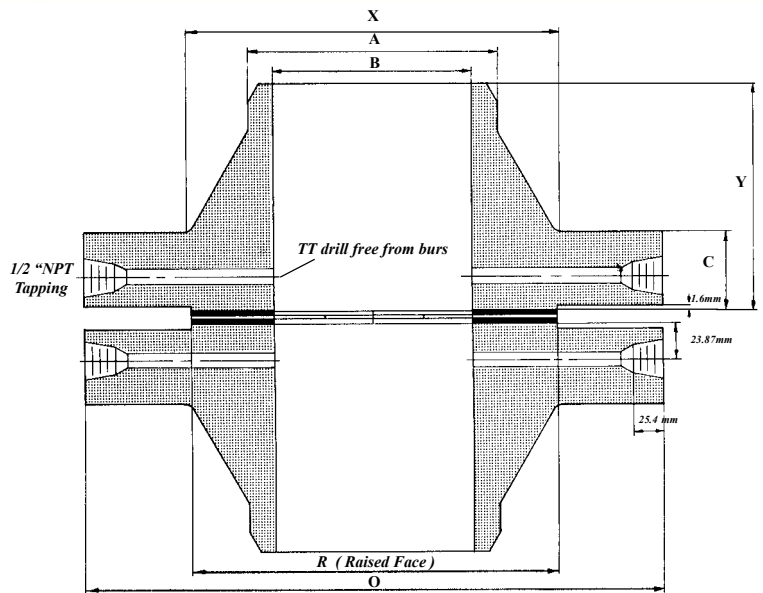
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Nominal Pipe Size	mm	Outside Diameter D	Diam. of Bore J	Thick-ness Min. B	Length thru Hub H	Diam. Hub at Bevel A		O.D. of Raised Face G	Number of Holes	Diam of Holes I	Bolt Circle Diameter K	Approx Weight Kg
1"	mm	158.7	25.4	34.9	228.6	57.1		50.8	4	25.4	107.9	8.1
1.1/4"	mm	184.1	31.7	38.1	228.6	73.0		63.5	4	28.6	130.2	11.8
1.1/2"	mm	203.2	38.1	44.4	228.6	79.4		73.0	4	31.7	146.0	15.4
2"	mm	234.9	50.8	50.8	228.6	95.2		92.1	8	28.6	171.4	21
2.1/2"	mm	266.7	63.5	57.1	304.8	114.3		104.8	8	31.7	196.8	34.4
3"	mm	304.8	76.2	66.7	304.8	133.3		127.0	8	34.9	228.6	49.8
4"	mm	355.6	101.6	76.2	304.8	165.1		157.2	8	41.3	273.0	72.5
5"	mm	419.1	127.0	92.1	304.8	203.2		185.7	8	47.6	323.8	113
6"	mm	482.6	152.4	107.9	304.8	234.9		215.9	8	54.0	368.3	163
8"	mm	552.4	203.2	127.0	304.8	304.8		269.9	12	54.0	438.1	236
10"	mm	673.1	254.0	165.1	406.4	374.6		323.8	12	66.7	539.7	452
12"	mm	762.0	304.8	184.1	406.4	441.3		381.0	12	73.0	619.1	610



300 Lbs

Orifice Welding Neck Flanges ASME B 16.36



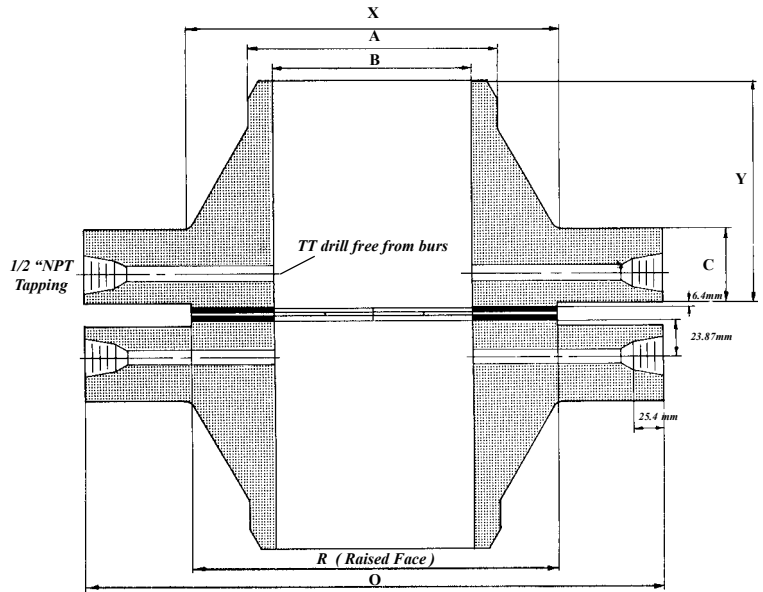
Diameter B to be specified

Nominal Pipe Size Inches	O.D. Raised Face R	Outside Diam. O	Thick-ness Min. C	Length thru Hub Y	Diam. at Base of Hub X	Diam. Hub at Bevel A	Diam. Connection TT	Bolt Circle Diam.	Number of Holes	Diam of Holes	Jack Screw sizes RF	Jack Screw Length	Jack Screw sizes RTJ	Jack Screw Length
1"	50.8	124.0	38.1	82.6	53.9	33.6	6.4	88.9	4	17.6	5/8	2.3/4	5/8	3.3/4
1.1/2"	73.2	155.5	38.1	85.9	69.9	48.3	6.4	114.3	4	20.6	5/8	2.3/4	5/8	3.3/4
2"	92.0	165.1	38.1	85.9	84.1	60.5	6.4	127.0	8	17.6	5/8	2.3/4	5/8	3.3/4
2.1/2"	104.7	190.5	38.1	88.9	100.1	73.2	6.4	149.3	8	20.6	5/8	2.3/4	3/4	3.3/4
3"	127.0	209.6	38.1	88.9	117.4	88.9	9.6	168.2	8	20.6	3/4	2.3/4	3/4	3.3/4
4"	157.2	254.0	38.1	92.0	146.1	114.3	12.7	200.2	8	20.6	3/4	2.3/4	3/4	3.3/4
6"	215.9	317.5	38.1	100.1	206.3	168.4	12.7	269.8	12	22.4	3/4	2.3/4	3/4	4
8"	269.8	381.0	41.2	111.3	260.4	219.2	12.7	330.2	12	25.4	3/4	3	3/4	4.1/4
10"	323.9	444.5	47.8	117.4	320.6	273.1	12.7	387.4	16	28.5	1	3.1/2	1	4.1/2
12"	381.0	520.7	50.8	130.1	374.7	323.9	12.7	450.9	16	31.8	1	3.1/2	1	4.1/2
14"	412.8	584.2	53.9	142.8	425.5	355.6	12.7	514.4	20	31.8	1	3.1/2	1	5
16"	469.9	647.7	57.2	146.1	482.6	406.4	12.7	571.5	20	35.1	1	3.1/2	1	5
18"	533.4	711.2	60.5	158.8	533.4	457.2	12.7	628.7	24	35.1	1	3.3/4	1	5
20"	584.2	774.7	63.5	162.1	587.3	508.0	12.7	685.8	24	35.1	1	3.3/4	1	5.1/2
24"	692.2	914.4	69.9	168.2	701.6	609.6	12.7	812.8	24	41.2	1	4	1	5.1/2



600 Lbs

Orifice Welding Neck Flanges ASME B 16.36



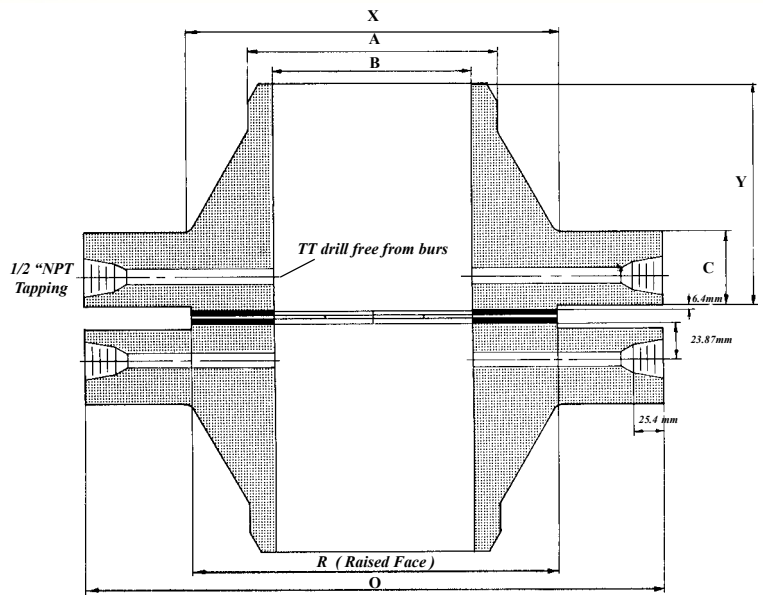
Diameter B to be specified

Nominal Pipe Size Inches	O.D. Raised Face R	Outside Diam. O	Thick-ness Min. C	Length thru Hub Y	Diam. at Base of Hub X	Diam. Hub at Bevel A	Diam. Connection TT	Bolt Circle Diam.	Number of Holes	Diam of Holes	Jack Screw sizes RF	Jack Screw Length	Jack Screw sizes RTJ	Jack Screw Length
1"	50.8	124.0	36.6	81.1	53.9	33.6	6.4	88.9	4	17.6	5/8	2.3/4	5/8	3.3/4
1.1/2"	73.2	155.5	36.6	84.4	69.9	48.3	6.4	114.3	4	20.6	5/8	2.3/4	5/8	3.3/4
2"	92.0	165.1	36.6	84.4	84.1	60.5	6.4	127.0	8	17.6	5/8	2.3/4	5/8	3.3/4
2.1/2"	104.7	190.5	36.6	87.4	100.1	73.2	6.4	149.3	8	20.6	3/4	2.3/4	3/4	3.3/4
3"	127.0	209.6	36.6	87.4	117.4	88.9	9.6	168.2	8	20.6	3/4	2.3/4	3/4	3.3/4
4"	157.2	273.1	38.1	101.6	152.4	114.3	12.7	215.9	8	25.4	3/4	3.1/4	3/4	4
6"	215.9	355.6	47.8	117.4	222.3	168.4	12.7	292.1	12	28.5	7/8	4	7/8	4.1/2
8"	269.8	419.1	55.7	133.4	273.1	219.2	12.7	349.3	12	31.8	7/8	4	7/8	5
10"	323.9	508.0	63.5	152.4	342.9	273.1	12.7	431.8	16	35.1	7/8	4.1/2	7/8	5
12"	381.0	558.8	66.6	155.5	400.1	323.9	12.7	489.0	20	35.1	7/8	4.1/2	7/8	5.1/2
14"	412.8	603.3	69.9	165.1	431.8	355.6	12.7	527.1	20	38.1				
16"	469.9	685.8	76.2	177.8	495.3	406.4	12.7	603.3	20	41.2				
18"	533.4	743.0	82.6	184.2	546.1	457.2	12.7	654.1	20	44.5				
20"	584.2	812.8	88.9	190.5	609.6	508.0	12.7	723.9	24	44.5				
24"	692.2	939.8	101.6	203.2	717.6	609.6	12.7	838.2	24	50.8				



900 Lbs

Orifice Welding Neck Flanges ASME B 16.36



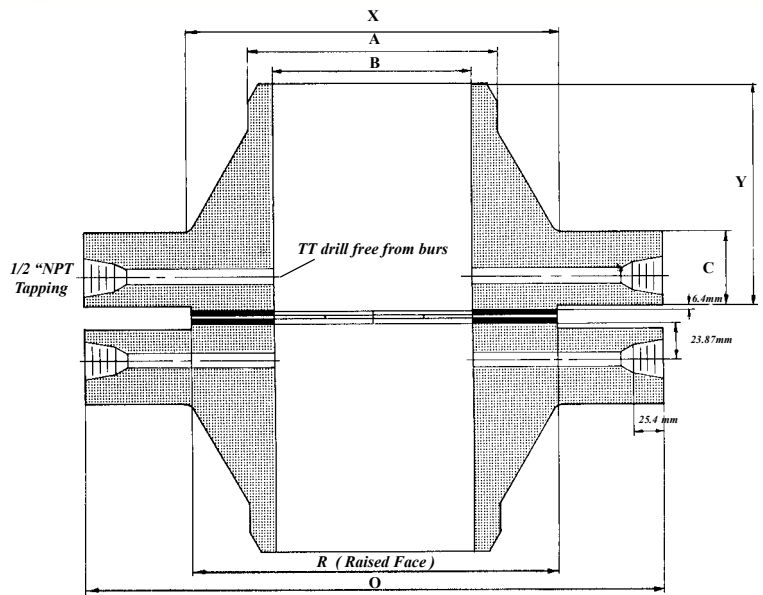
Diameter B to be specified

Nominal Pipe Size Inches	O.D. Raised Face R	Outside Diam. O	Thick-ness Min. C	Length thru Hub Y	Diam. at Base of Hub X	Diam. Hub at Bevel A	Diam. Connection TT	Bolt Circle Diam.	Number of Holes	Diam of Holes	Jack Screw sizes RF	Jack Screw Length	Jack Screw sizes RTJ	Jack Screw Length
1"	50.8	149.4	38.1	82.6	52.4	33.6	6.4	101.6	4	25.4	5/8	3.1/4	5/8	3.3/4
1.1/2"	73.2	177.8	38.1	88.9	69.9	48.3	6.4	124.0	4	28.5	5/8	3.1/4	5/8	3.3/4
2"	92.0	215.9	38.1	101.6	104.7	60.5	6.4	165.1	8	25.4	5/8	3.1/4	5/8	4
2.1/2"	104.7	244.4	41.2	104.7	124.0	73.2	6.4	190.5	8	28.5	5.8	3.1/2	5/8	4.1/4
3"	127.0	241.3	38.1	101.6	127.0	88.9	9.6	190.5	8	25.4	3/4	3.1/4	3/4	4
4"	157.2	292.1	44.5	114.3	158.8	114.3	12.7	235.0	8	31.8	3/4	3.1/2	3/4	4.1/4
6"	215.9	381.0	55.7	139.7	235.0	168.4	12.7	317.5	12	31.8	1	4	1	5
8"	269.8	469.9	63.5	162.1	298.5	219.2	12.7	393.7	12	38.1	1	4	1	5
10"	323.9	546.1	69.9	184.2	368.3	273.1	12.7	469.9	16	38.1	1	4.1/2	1	5.1/2
12"	381.0	609.6	79.3	200.2	419.1	323.9	12.7	533.4	20	38.1	1	4.1/2	1	6
14"	412.8	641.4	85.9	212.9	450.9	355.6	12.7	558.8	20	41.2				
16"	469.9	704.9	88.9	215.9	508.0	406.4	12.7	616.0	20	44.5				
18"	533.4	787.4	101.6	228.6	565.2	457.2	12.7	685.8	20	50.8				
20"	584.2	857.3	108.0	247.7	622.3	508.0	12.7	749.3	20	53.9				
24"	692.2	1041.4	139.7	292.1	749.3		12.7	901.7	20	66.6				



1500 Lbs

Orifice Welding Neck Flanges ASME B 16.36



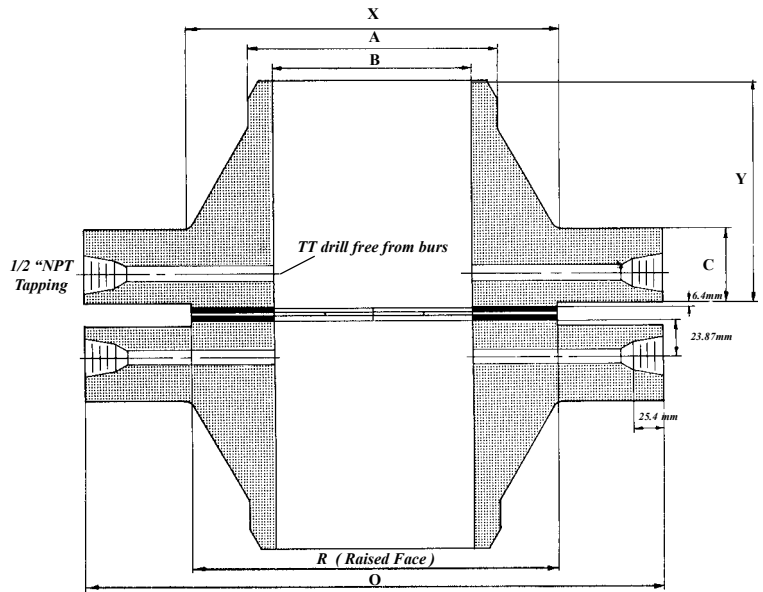
Diameter B to be specified

Nominal Pipe Size Inches	O.D. Raised Face R	Outside Diam. O	Thick-ness Min. C	Length thru Hub Y	Diam. at Base of Hub X	Diam. Hub at Bevel A	Diam. Connection TT	Bolt Circle Diam.	Number of Holes	Diam of Holes	Jack Screw sizes RF	Jack Screw Length	Jack Screw sizes RTJ	Jack Screw Length
1"	50.8	149.4	38.1	82.6	52.4	33.6	6.4	101.6	4	25.4	5/8	3.1/4	5/8	3.3/4
1.1/2"	73.2	177.8	38.1	88.9	69.9	48.3	6.4	124.0	4	28.5	5/8	3.1/4	5/8	3.3/4
2"	92.0	215.9	38.1	101.6	104.7	60.5	6.4	165.1	8	25.4	5/8	3.1/4	5/8	4
2.1/2"	104.7	244.4	41.2	104.7	124.0	73.2	6.4	190.5	8	28.5	5/8	3.1/2	5/8	4.1/4
3"	127.0	266.7	47.8	117.4	133.4	88.9	9.6	203.2	8	31.8	3/4	3.3/4	3/4	4.1/2
4"	157.2	311.2	53.9	124.0	162.1	114.3	12.7	241.3	8	35.1	3/4	4	3/4	5
6"	215.9	393.7	82.6	171.5	228.6	168.4	12.7	317.5	12	38.1	1	5	1	6
8"	269.8	482.6	92.0	212.9	292.1	219.2	12.7	393.7	12	44.5	1	5.1/2	1	7
10"	323.9	584.2	108.0	254.0	368.3	273.1	12.7	482.6	12	50.8	1	6	1	7
12"	381.0	673.1	124.0	282.5	450.9	323.9	12.7	571.5	16	53.9	1	7	1	8
14"	412.8	749.3	133.4	298.5	495.3	355.6	12.7	635.0	16	60.5				
16"	469.9	825.5	146.1	311.2	552.5	406.4	12.7	704.9	16	66.6				
18"	533.4	914.4	162.1	327.2	596.9	457.2	12.7	774.7	16	73.2				
20"	584.2	984.3	177.8	355.6	641.4	508.0	12.7	831.9	16	79.3				
24"	692.2	1168.4	203.2	406.4	762.0	609.6	12.7	990.6	16	92.0				



2500 Lbs

Orifice Welding Neck Flanges ASME B 16.36



Diameter B to be specified

Nominal Pipe Size Inches	O.D. Raised Face R	Outside Diam. O	Thick-ness Min. C	Length thru Hub Y	Diam. at Base of Hub X	Diam. Hub at Bevel A	Diam. Connection TT	Bolt Circle Diam.	Number of Holes	Diam of Holes	Jack Screw sizes RF	Jack Screw Length	Jack Screw sizes RTJ	Jack Screw Length
1"	50.8	158.8	38.1	92.0	57.2	33.6	6.4	108.0	4	25.4				
1.1/2"	73.2	203.2	44.5	111.3	79.3	48.3	6.4	146.1	4	31.8				
2"	92.0	235.0	50.8	127.0	95.3	60.5	6.4	171.5	8	28.5				
2.1/2"	104.7	266.7	57.2	142.8	114.3	73.2	6.4	196.9	8	31.8				
3"	127.0	304.8	66.6	168.2	133.4	88.9	9.6	228.6	8	35.1				
4"	157.2	355.6	76.2	190.5	165.1	114.3	12.7	273.1	8	41.2				
6"	215.9	482.6	108.0	273.1	235.0	168.4	12.7	368.3	8	53.9				
8"	269.8	552.5	127.0	317.5	304.8	219.2	12.7	438.2	12	53.9				
10"	323.9	673.1	165.1	419.1	374.7	273.1	12.7	539.8	12	66.6				
12"	381.0	762.0	184.2	463.6	441.5	323.9	12.7	619.3	12	73.2				