



METALOK INDUSTRIES
(AN ISO 9001: 2015 Certified Company)

FLANGES

CATALOGUE



***Most Cost Effective, World Class Quality
Flow Control Components for Wide Range
of Industries and Applications***



FLANGES

- Flanges - Process Flow Chart
- FLANGES (Description)
- Flanges Class 150 & 300
- Flanges Class 600 & 900
- Flanges Class 1500 & 2500
- Small Tongue And Groove Flange
- 6 BAR DIN 2573 Slip-On Flanges DIN 2527
Blind Flanges DIN 2631 Welding Neck Flanges
- 10 BAR DIN 2573 Slip-On Flanges DIN 2527
Blind Flanges DIN 2631 Welding Neck Flanges
- 16 BAR DIN 2573 Slip-On Flanges DIN 2527
Blind Flanges DIN 2631 Welding Neck Flanges
- 25 BAR DIN 2573 Slip-On Flanges DIN 2527
Blind Flanges DIN 2631 Welding Neck Flanges
- 40 BAR DIN 2573 Slip-On Flanges DIN 2527
Blind Flanges DIN 2631 Welding Neck Flanges
- Spectacle Blinds to API 590 ANSI Class 150, 300 & 600
- ASME B16.47-1996 Series A CLASS 300 & 600
- ASME B16.47-1996 Series B CLASS 150 & 300
- ASME B16.47-1996 Series B CLASS 600 & 900
- Long Welding Necks



FLANGES



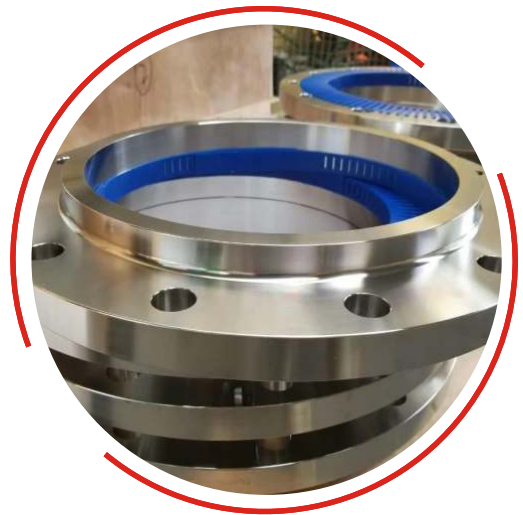
Stainless Steel



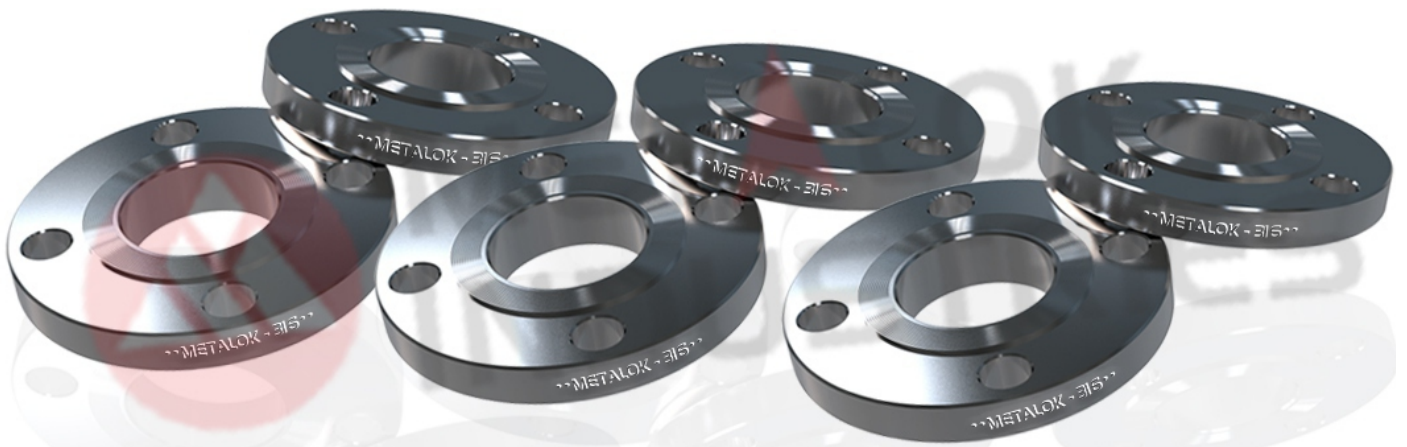
Carbon Steel



Alloy Steel



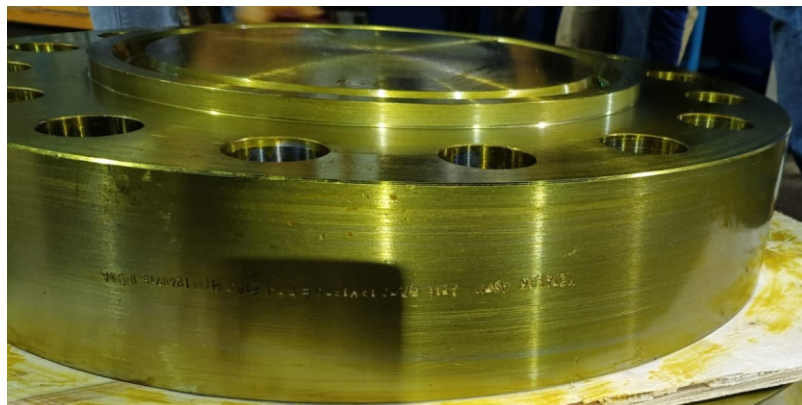
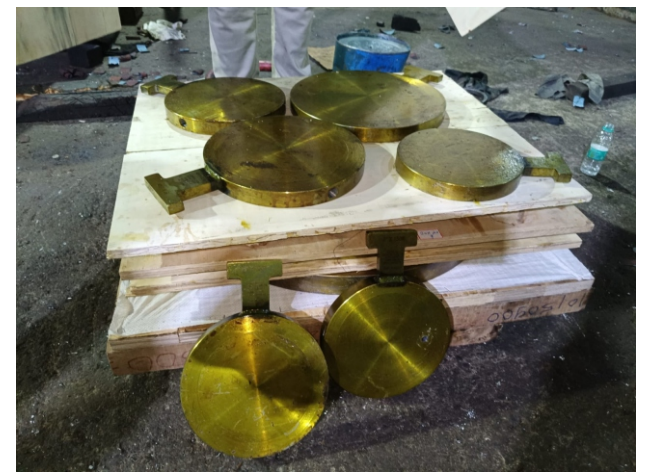
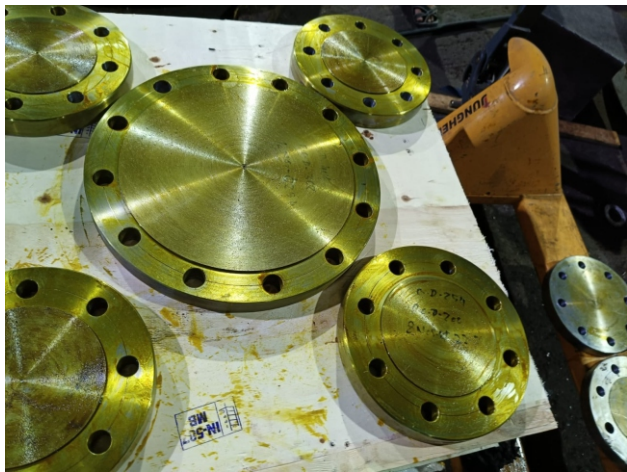
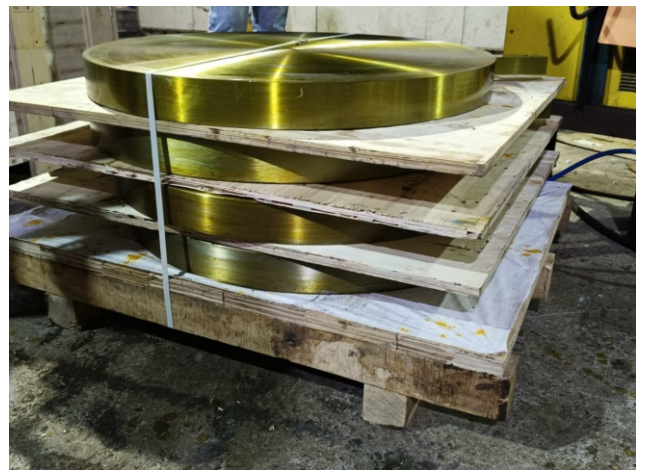
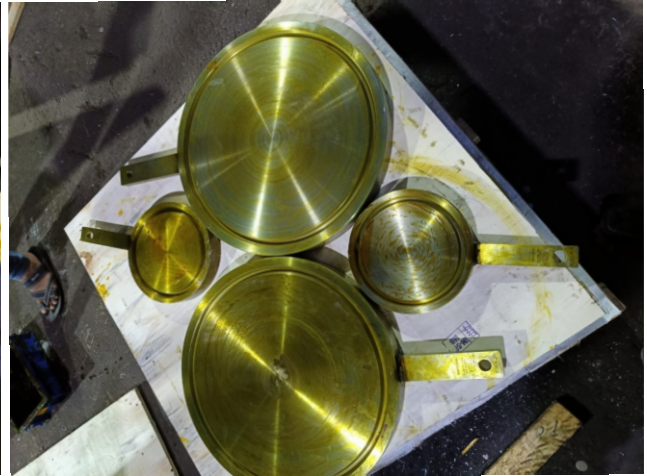
Nickel Alloy



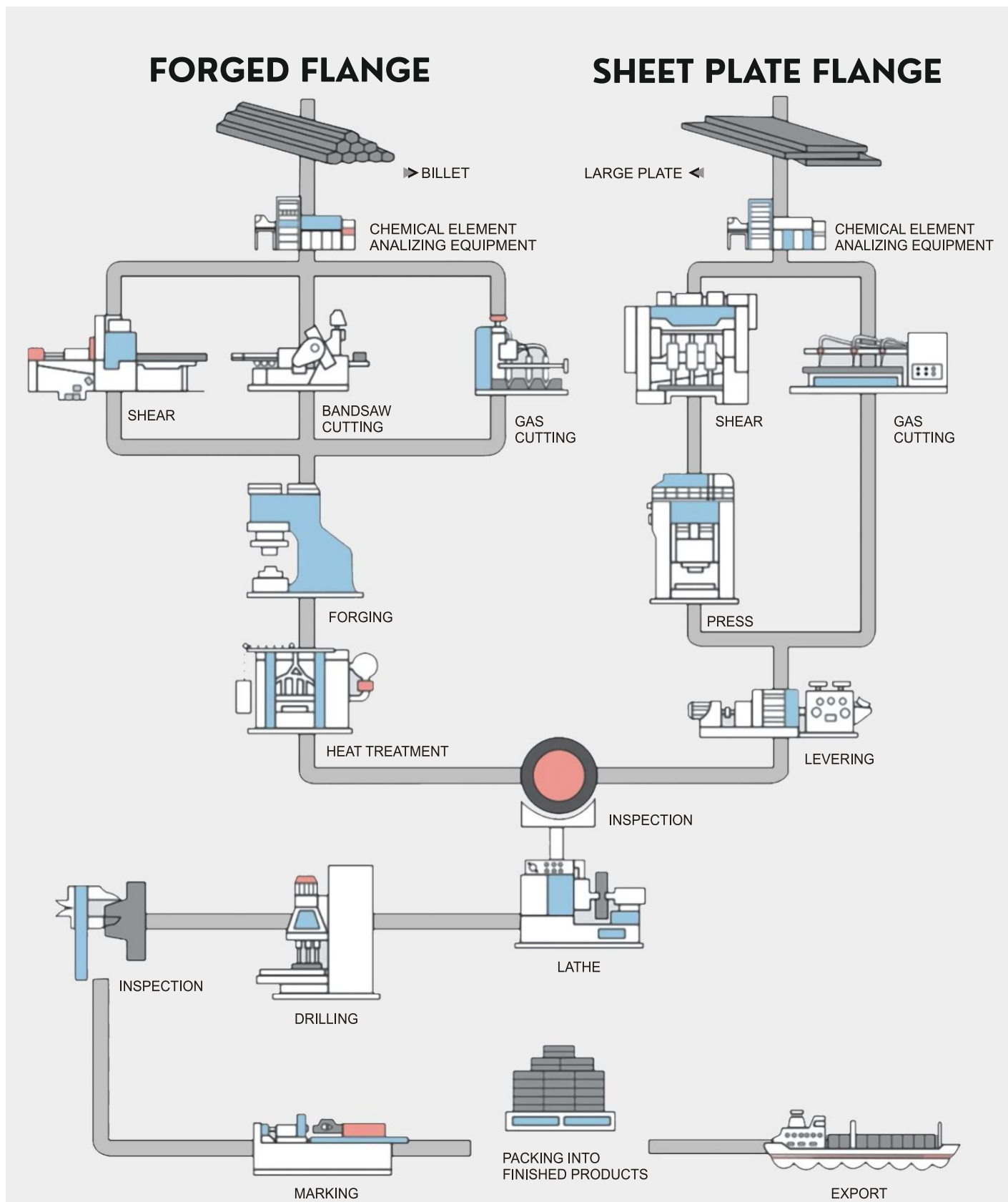
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Process Flow Chart



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FLANGES



We are engaged in manufacturing and exporting wide range of Flanges that are available in variables sizes for applications in waterworks, petrochemicals, refineries, chemical industry and construction works. Owing to its high quality, optimum performance, less maintenance, our range of flanges is appreciated by our clients and its available in various material configurations stainless steel, carbon steel, alloy steel, nickel alloys and copper alloys. Based on the sizes, dimensions, shapes and length of these flanges, we can customize the products for our respected clients and following material of Construction.

- Nickel Alloy
- Stainless Steel & Duplex Steel
- Carbon Steel
- Alloy Steel
- Copper & Brass
- Aluminium

TYPES

- PLATE BLANK FLANGE
- LAP JOINT FLANGE
- WELDNECK FLANGE
- ORIFACE FLANGE
- LONG WELD NECK FLANGES
- SLIP-ON
- DECK FLANGES
- DRAWING FLANGES
- SCREWED FLANGE
- SOCKETWELD FLANGE
- BLIND FLANGE
- RTJ FLANGE
- THREADED FLANGE
- SPECTACLE
- LARGE RINGS
- REDUCING FLANGES

Duplex & Super Duplex : UNS S31803, UNS S32750, UNS S32760.

Hastelloy Alloy : ASTM B564 Hastelloy B2, C276, C22.

Incoloy Alloys : ASTM B564 Alloy 20, Alloy A286
Alloy 800H/800HT, Alloy 825.

Inconel Alloys : ASTM B564 Alloy 600, Alloy 601,
Alloy 625, Alloy 718, Alloy 725.

Monel Alloys : ASTM B564 Monel 400, Monel K500.

Stainless Steel : ASTM A182, F304, 304L, 304H, 316,
316L, 317, 317L, 321, 310, 347, 904L

Carbon Steel : ASTM A105, A694, F42, A350 LF2

Alloy Steel : ASTM A182 F1, F5, F9, F11, F22, F91

Size : ½"NB TO 72" NB

Class : 150#, 300#, 600#, 900#, 1500# & 2500#.

Standard

ANSI Flanges : 150#, 300#, 600#, 900#, 1500# & 2500#.

AWWA : Class 2B, 2D, 4E, 5E, 6E

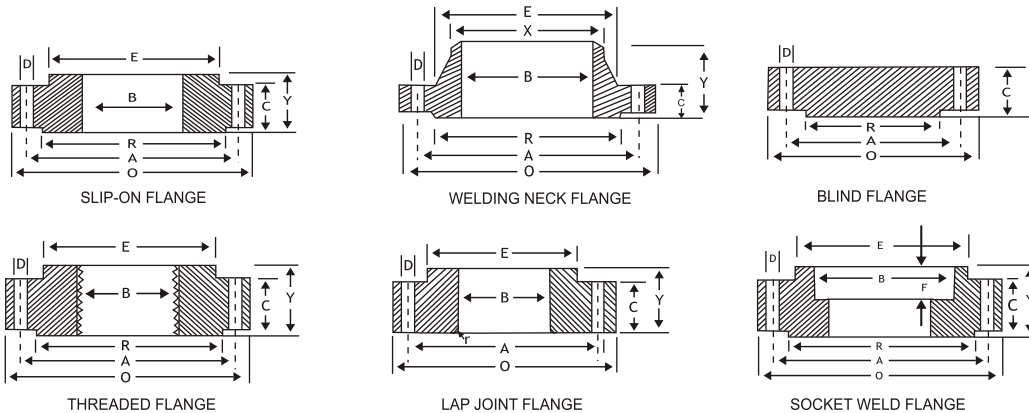
DIN : PN6, PN10, PN16, PN25, PN40

JIS : 5K, 10K

BS : Table D, E, F.



FLANGES CLASS 150 & 300



DIMENSIONS OF CLASS 150 FLANGES AS PER B16.5

Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	No. Of Bolt Holes D	No. Of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	88.9	60.3	15.9	4	11.1	30.2	15.9	47.6	15.9	22.3	22.9	34.9	9.5	21.33
20	98.4	69.8	15.9	4	12.7	38.1	15.9	52.4	15.9	27.7	28.2	42.9	11.1	26.67
25	107.9	79.4	15.9	4	14.3	49.2	17.5	55.6	17.5	34.5	35.0	50.8	12.7	33.40
32	117.5	88.9	15.9	4	15.9	58.7	20.6	57.1	20.6	43.2	43.7	63.5	14.3	42.16
40	127.0	98.4	15.9	4	17.5	65.1	22.2	61.9	22.2	49.5	50.0	73.0	15.9	48.26
50	152.4	120.6	19.0	4	19.0	77.8	25.4	63.5	25.4	62.0	62.5	92.1	17.5	60.31
65	177.8	139.7	19.0	4	22.2	90.5	28.6	69.8	28.6	74.7	75.4	104.8	19.0	73.02
80	190.5	152.4	19.0	4	23.8	107.9	30.2	69.8	30.2	90.7	91.4	127.0	20.6	88.90
100	228.6	190.5	19.0	8	23.8	134.9	33.3	76.2	33.3	116.1	116.8	157.2	23.8	114.30
125	254.0	215.9	22.2	8	23.8	163.5	36.5	88.9	36.5	143.8	144.5	185.7	23.8	141.30
150	279.4	241.3	22.2	8	25.4	192.1	39.7	88.9	39.7	170.7	171.4	215.9	27.0	168.27
200	342.9	298.4	22.2	8	28.6	246.1	44.4	101.6	44.4	221.5	222.2	269.9	31.7	219.07
250	406.4	361.9	25.4	12	30.2	304.8	49.2	101.6	49.2	276.3	277.4	323.8	33.3	273.05
300	482.6	431.8	25.4	12	31.8	365.1	55.6	114.3	55.6	327.1	328.2	381.0	39.7	323.85
350	533.4	476.2	28.6	12	34.9	400.0	57.1	127.0	79.4	359.1	360.2	412.7	41.3	355.60
400	596.9	539.7	28.6	16	36.5	457.2	63.5	127.0	87.3	410.5	411.2	469.9	44.4	406.40
450	635.0	577.8	31.7	16	39.7	504.8	68.3	139.7	96.8	461.8	462.3	533.4	49.2	457.20
500	698.5	635.0	31.7	20	42.9	558.8	73.0	144.5	103.2	513.1	514.3	584.2	54.0	508.00
600	812.8	749.3	34.9	20	47.6	663.6	82.5	152.4	111.1	615.9	615.9	692.1	63.5	609.60

DIMENSIONS OF CLASS 300 FLANGES AS PER B16.5

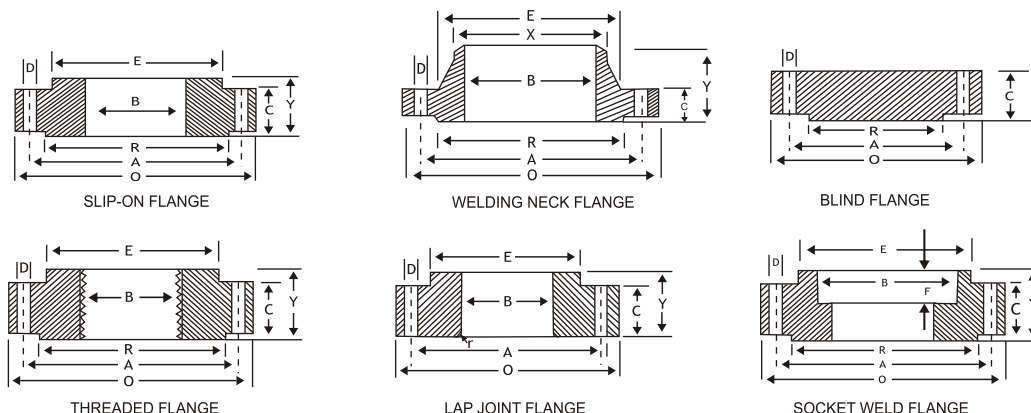
Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	No. Of Bolt Holes D	No. Of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	95.2	66.7	15.9	4	14.3	38.1	22.2	52.4	22.2	22.3	22.9	34.9	9.5	21.33
20	117.5	82.5	19.0	4	15.9	47.6	25.4	57.1	25.4	27.7	28.2	42.9	11.1	26.67
25	123.8	88.9	19.0	4	17.5	54.0	27.0	61.9	27.0	34.5	35.0	50.8	12.7	33.40
32	133.3	98.4	19.0	4	19.0	63.5	27.0	65.1	27.0	43.2	43.7	63.5	14.3	42.16
40	155.6	114.3	22.2	4	20.6	69.8	30.2	68.3	30.2	49.5	50.0	73.0	15.9	48.26
50	165.1	127.0	19.0	8	22.2	84.1	33.3	69.8	33.3	62.0	62.5	92.1	17.5	60.31
65	190.5	149.2	22.2	8	25.4	100.0	38.1	76.2	38.1	74.7	75.4	104.8	19.0	73.02
80	209.5	168.3	22.2	8	28.6	117.5	42.9	79.4	42.9	90.7	91.4	127.0	20.6	88.90
100	254.0	200.0	22.2	8	31.8	146.0	47.6	85.7	47.6	116.1	116.8	157.2	23.8	114.30
125	279.4	234.9	22.2	8	34.9	177.8	50.8	98.4	50.8	143.8	144.5	185.7	-	141.30
150	317.5	269.9	22.2	12	36.5	206.4	52.4	98.4	52.4	170.7	171.4	215.9	-	168.27
200	381.0	330.2	25.4	12	41.3	260.3	61.9	111.1	61.9	221.5	222.2	269.9	-	219.07
250	444.5	387.3	28.6	16	47.6	320.7	66.7	117.5	95.2	276.3	277.4	323.8	-	273.05
300	520.7	450.8	31.7	16	50.8	374.6	73.0	130.2	101.6	327.1	328.2	381.0	-	323.85
350	584.2	514.3	31.7	20	54.0	425.4	76.2	142.9	111.1	359.1	360.2	412.7	-	355.60
400	647.7	571.5	34.9	20	57.2	482.6	82.5	146.0	120.6	410.5	411.2	469.9	-	406.40
450	711.2	628.5	34.9	24	60.3	533.4	88.9	158.7	130.2	461.8	462.3	533.4	-	457.20
500	774.7	685.8	34.9	24	63.5	587.4	95.2	161.9	139.7	513.1	514.3	584.2	-	508.00
600	914.4	812.8	41.3	24	69.8	701.7	106.4	168.3	152.4	615.9	615.9	692.1	-	609.60

Metric values are direct conversion from Inches table of B16.5



FLANGES CLASS 600 & 900

FLANGES CLASS 600 & 900



DIMENSIONS OF CLASS 600 FLANGES AS PER B 16.5

Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	No. of Bolt Holes D	No. of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	95.2	66.7	15.9	4	14.3	38.1	22.2	52.4	22.3	22.3	22.8	34.9	9.5	21.33
20	117.5	82.5	19.0	4	15.9	47.6	25.4	57.1	25.4	27.7	28.1	42.9	11.1	26.67
25	123.8	88.9	19.0	4	17.5	54.0	27.0	61.9	26.9	34.5	35.0	50.8	12.7	33.40
32	133.3	98.4	19.0	4	20.6	63.5	28.6	66.7	28.4	43.2	43.6	63.5	14.2	42.16
40	155.6	114.3	22.2	4	22.2	69.8	31.7	69.8	31.7	49.5	50.0	73.0	15.8	48.26
50	165.1	127.0	19.0	8	25.4	84.1	36.5	73.0	36.5	62.0	62.4	92.1	17.4	60.31
65	190.5	149.2	22.2	8	28.6	100.0	41.3	79.4	41.1	74.7	75.4	104.8	19.0	73.02
80	209.5	168.3	22.2	8	31.8	117.5	46.0	82.5	45.9	90.7	91.4	127.0	-	88.90
100	273.0	215.9	25.4	8	38.1	152.4	54.0	101.6	53.8	116.1	116.8	157.2	-	114.30
125	330.2	266.7	28.6	8	44.4	188.9	60.3	114.3	60.4	143.8	141.5	185.7	-	141.30
150	355.6	292.1	28.6	12	47.6	222.2	66.7	117.5	66.5	170.7	171.4	215.9	-	168.27
200	419.1	349.2	31.7	12	55.6	273.0	76.2	133.3	76.2	221.5	222.2	269.9	-	219.07
250	508.0	431.8	34.9	16	63.5	342.9	85.7	152.4	111.2	276.3	277.3	323.8	-	273.05
300	558.8	488.9	34.9	20	66.7	400.0	92.1	155.6	117.3	327.1	328.1	381.0	-	323.85
350	603.2	527.0	38.1	20	69.9	431.8	93.7	165.1	127.0	359.1	360.1	412.7	-	355.60
400	685.8	603.2	41.3	20	76.2	495.3	106.4	177.8	139.7	410.5	411.2	469.9	-	406.40
450	742.9	654.0	44.4	20	82.6	546.1	117.5	184.1	152.4	461.8	462.2	533.4	-	457.20
500	812.8	723.9	44.4	24	88.9	609.6	127.0	190.5	165.1	513.1	514.3	584.2	-	508.00
600	939.8	838.2	50.8	24	101.6	717.5	139.7	203.2	184.1	615.9	615.9	692.1	-	609.60

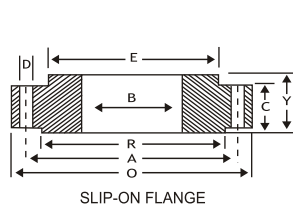
DIMENSIONS OF CLASS 900 FLANGES AS PER B 16.5

Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. Of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	120.6	82.5	22.2	4	22.2	38.1	31.7	60.3	31.7	22.3	22.8	34.9	9.5	21.33
20	130.2	88.9	22.2	4	25.4	44.4	34.9	69.8	35.0	27.7	28.1	42.9	11.1	26.67
25	149.2	101.6	25.4	4	28.6	52.4	41.3	73.0	41.1	34.5	35.0	50.8	12.7	33.40
32	158.7	111.1	25.4	4	28.6	63.5	41.3	73.0	41.1	43.2	43.6	63.5	14.2	42.16
40	177.8	123.8	28.6	4	31.8	69.8	44.4	82.5	44.4	49.5	50.0	73.0	15.8	48.26
50	215.9	165.1	25.4	8	38.1	104.8	57.1	101.6	57.1	62.0	62.4	92.1	17.4	60.31
65	244.5	190.5	28.6	8	41.3	123.8	63.5	104.8	63.5	74.7	75.4	104.8	19.0	73.02
80	241.3	190.5	25.4	8	38.1	127.0	53.9	101.6	53.8	90.7	91.4	127.0	-	88.90
100	292.1	234.9	31.7	8	44.4	158.7	69.8	114.3	69.8	116.0	116.8	157.1	-	114.30
125	349.2	279.4	35.0	8	50.8	190.5	79.3	127.0	79.2	143.7	144.5	185.7	-	141.30
150	381.0	317.5	31.7	12	55.6	234.9	85.8	139.7	85.8	170.6	171.4	215.9	-	168.27
200	469.9	393.7	38.1	12	63.5	298.4	101.6	162.0	114.3	221.4	222.2	269.8	-	219.07
250	546.1	469.9	38.1	16	69.8	368.3	107.9	184.1	127.0	276.3	277.3	323.8	-	273.05
300	609.6	533.4	38.1	20	79.3	419.1	117.4	200.0	142.7	327.1	328.1	381.0	-	323.85

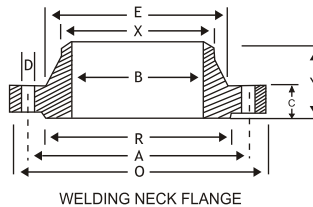
Metric values are direct conversion from Inches table of B16.5

RF Thickness 6.3 mm Extra to be provided (Except Lap Joint Flange & FF Flanges).

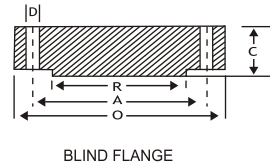
FLANGES CLASS 1500 & 2500



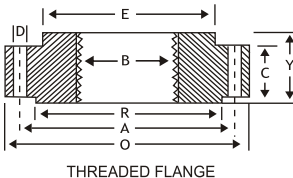
SLIP-ON FLANGE



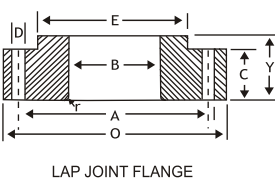
WELDING NECK FLANGE



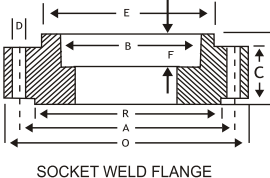
BLIND FLANGE



THREADED FLANGE



LAP JOINT FLANGE



SOCKET WELD FLANGE

DIMENSIONS OF CLASS 1500 FLANGES AS PER B16.5

Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. Of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	120.6	82.5	22.2	4	22.2	38.1	31.7	60.3	31.7	22.3	22.8	34.9	9.5	21.33
20	130.2	88.9	22.2	4	25.4	44.4	34.9	69.8	34.9	27.7	28.1	42.9	11.1	26.67
25	149.2	101.6	25.4	4	28.6	52.4	41.3	73.0	41.3	34.5	35.0	50.8	12.7	33.40
32	158.7	111.1	25.4	4	28.6	63.5	41.3	73.0	41.3	43.2	43.6	63.5	14.2	42.16
40	177.8	123.8	28.6	4	31.8	69.8	44.4	82.5	44.4	49.5	50.0	73.0	15.8	48.26
50	215.9	165.1	25.4	8	38.1	104.8	57.1	101.6	57.1	62.0	62.0	92.1	17.4	60.31
65	244.5	190.5	28.6	8	41.3	123.8	63.5	104.8	63.5	74.7	75.4	104.8	19.0	73.02
80	266.7	203.2	31.7	8	47.6	133.3	73.0	117.5	73.0	90.7	91.4	127.0	-	88.90
100	311.1	241.3	34.9	8	54.0	161.9	90.5	123.0	90.4	116.1	116.8	157.2	-	114.30
125	374.6	292.1	41.3	8	73.0	196.8	104.8	155.6	104.8	143.8	144.5	185.7	-	141.30
150	393.7	317.5	38.1	12	82.6	228.6	119.1	171.4	119.1	170.7	171.4	215.9	-	168.27
200	482.6	393.7	44.4	12	92.1	292.1	142.9	212.7	142.8	221.5	222.2	269.9	-	219.07
250	584.2	482.6	50.8	12	107.9	368.3	158.7	254.0	177.8	276.3	277.3	323.8	-	273.05
300	673.1	571.5	54.0	16	123.8	450.8	181.0	285.5	218.9	327.1	328.1	381.0	-	323.85

DIMENSIONS OF CLASS 2500 FLANGES AS PER B16.5

Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. Of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	133.3	88.9	22.2	4	30.2	42.9	39.7	73.0	39.7	22.3	22.3	34.9	-	21.33
20	139.7	95.2	22.2	4	31.7	50.8	42.9	79.4	42.9	27.7	27.7	42.9	-	26.67
25	158.7	107.9	25.4	4	34.9	57.1	47.7	88.9	47.7	34.5	34.5	50.8	-	33.40
32	184.1	130.2	28.6	4	38.1	73.0	52.4	95.2	52.4	43.2	43.2	63.5	-	42.16
40	203.2	146.0	31.7	4	44.4	79.4	60.3	111.1	60.3	49.5	49.5	73.0	-	48.26
50	234.9	171.4	28.6	8	50.8	95.2	69.8	127.0	69.8	62.4	62.0	92.1	-	60.31
65	266.7	196.8	31.7	8	57.1	114.3	79.4	142.9	79.4	74.7	74.7	104.8	-	73.02
80	304.8	228.6	34.9	8	66.7	133.3	92.1	168.3	92.1	90.7	90.7	127.0	-	88.90
100	355.6	273.0	41.3	8	76.2	165.1	107.9	190.5	107.9	116.1	116.1	157.2	-	114.30
125	419.1	323.8	47.6	8	92.1	203.2	130.0	228.6	130.0	143.8	143.8	185.7	-	141.30
150	482.6	368.3	54.0	8	107.9	234.9	152.4	273.0	152.4	170.7	170.7	215.9	-	168.27
200	552.4	438.1	54.0	12	127.0	304.8	177.8	317.5	177.8	221.5	221.5	269.9	-	219.07
250	673.1	539.7	66.7	12	165.1	374.6	228.6	419.1	228.6	276.3	276.3	323.8	-	273.05
300	762.0	619.1	73.0	12	184.1	441.3	254.0	463.5	254.0	327.1	327.1	381.0	-	323.85

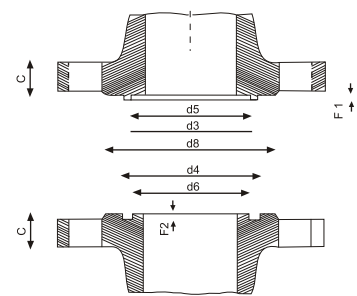
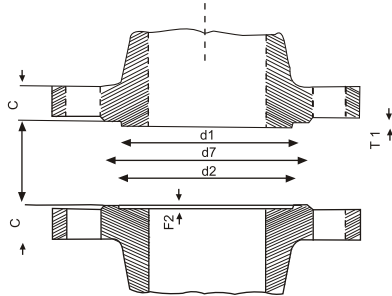
Metric values are direct conversion from Inches table of B16.5

RF Thickness 6.3 mm Extra to be provided (Except Lap Joint Flange & FF Flanges).



SMALL TONGUE AND GROOVE FLANGE

DIMENSIONS OF LARGE MALE-FEMALE AND SMALL TONGUE AND GROOVE FLANGE FACING ANSI B 16.5 STANDARD



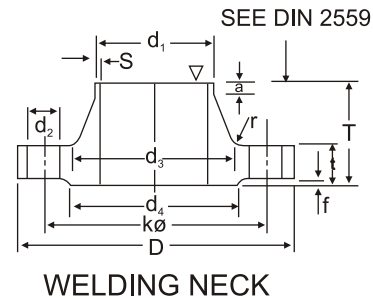
DN	d1	d2	d3	d4	d5	d6	d7	d8	f ₁	f ₂
1/2"	1,38 (35,1)	1,44 (36,6)	1,38 (35,1)	1,44 (36,6)	1,00 (25,4)	0,94 (23,9)	1,81 (46,0)	1,75 (44,5)	0,25 (6,4)	0,19 (4,8)
3/4"	1,69 (42,9)	1,75 (44,5)	1,69 (42,9)	1,75 (44,5)	1,31 (33,3)	1,25 (31,8)	2,12 (53,8)	2,06 (52,3)	0,25 (6,4)	0,19 (4,8)
1"	2,00 (50,8)	2,06 (52,3)	1,88 (47,7)	1,94 (49,3)	1,50 (38,1)	1,44 (36,6)	2,44 (62,0)	2,25 (57,2)	0,25 (6,4)	0,19 (4,8)
1 1/4"	2,50 (63,5)	2,56 (65,0)	2,25 (57,2)	2,31 (58,7)	1,88 (47,8)	1,81 (46,0)	2,94 (74,7)	2,62 (66,6)	0,25 (6,4)	0,19 (4,8)
1 1/2"	2,88 (73,2)	2,94 (74,7)	2,50 (63,5)	2,56 (65,0)	2,12 (53,8)	2,06 (52,3)	3,31 (84,1)	2,88 (73,2)	0,25 (6,4)	0,19 (4,8)
2"	3,62 (92,0)	3,69 (93,7)	3,25 (82,6)	3,31 (84,1)	2,88 (73,0)	2,81 (71,4)	4,06 (103,1)	3,62 (92,0)	0,25 (6,4)	0,19 (4,8)
2 1/2"	4,12 (104,6)	4,19 (106,4)	3,75 (95,2)	3,81 (96,8)	3,38 (85,8)	3,31 (84,1)	4,56 (115,8)	4,12 (104,6)	0,25 (6,4)	0,19 (4,8)
3"	5,00 (127,0)	5,06 (128,5)	4,62 (117,5)	4,69 (119,1)	4,25 (108,0)	4,19 (106,4)	5,44 (138,2)	5,00 (127,0)	0,25 (6,4)	0,19 (4,8)
4"	6,19 (157,2)	6,25 (158,8)	5,69 (144,5)	5,75 (146,1)	5,19 (131,8)	5,12 (130,0)	6,62 (168,1)	6,19 (157,2)	0,25 (6,4)	0,19 (4,8)
5"	7,31 (185,7)	7,38 (187,5)	6,81 (173,0)	6,88 (174,8)	6,31 (160,3)	6,25 (158,8)	7,75 (196,9)	7,31 (185,7)	0,25 (6,4)	0,19 (4,8)
6"	8,50 (215,9)	8,56 (217,5)	8,00 (203,2)	3,31 (84,1)	2,88 (73,0)	2,81 (71,4)	4,06 (103,1)	3,62 (92,0)	0,25 (6,4)	0,19 (4,8)
8"	10,62 (269,8)	10,69 (271,5)	10,00 (254,0)	10,06 (255,5)	9,38 (238,3)	9,31 (236,5)	11,06 (281,0)	10,62 (269,8)	0,25 (6,4)	0,19 (4,8)
10"	12,75 (323,5)	12,81 (325,4)	12,00 (304,8)	12,06 (306,3)	11,25 (285,8)	11,19 (284,2)	13,19 (335,0)	12,75 (323,5)	0,25 (6,4)	0,19 (4,8)
12"	15,00 (381,0)	15,06 (382,5)	14,25 (362,0)	14,31 (363,5)	13,50 (342,9)	13,44 (341,4)	15,44 (392,2)	15,00 (381,0)	0,25 (6,4)	0,19 (4,8)
14"	16,25 (412,8)	16,31 (414,3)	15,50 (393,7)	15,56 (395,2)	14,75 (374,7)	14,69 (373,1)	16,69 (423,9)	16,25 (412,8)	0,25 (6,4)	0,19 (4,8)
16"	18,50 (469,9)	18,56 (471,5)	17,62 (447,6)	17,69 (449,3)	16,75 (425,5)	16,69 (423,9)	18,94 (481,0)	18,50 (469,9)	0,25 (6,4)	0,19 (4,8)
18"	21,00 (533,4)	21,06 (535,0)	20,12 (511,0)	20,19 (512,8)	19,25 (489,0)	19,19 (487,4)	21,44 (544,6)	21,00 (533,4)	0,25 (6,4)	0,19 (4,8)
20"	23,00 (584,2)	23,06 (585,8)	22,00 (558,8)	22,06 (560,3)	21,00 (533,4)	20,94 (531,9)	23,44 (595,4)	23,00 (584,2)	0,25 (6,4)	0,19 (4,8)
24"	27,25 (692,2)	27,31 (693,7)	26,25 (666,9)	26,31 (668,3)	25,25 (641,4)	25,19 (639,8)	27,69 (703,3)	27,25 (692,2)	0,25 (6,4)	0,19 (4,8)

6 BAR

DIN 2573 SLIP - ON FLANGES

DIN 2527 BLIND FLANGES

DIN 2631 WELDING NECK FLANGES



Unit : mm

Bore		Common Dimension						Hub				Raise Face		Drilling			Approx Weight (kg)		
Nominal Bore	d ₁	D	t			K	T	d ₃	s	r	a ≈	d ₄	f	No. of Bolt	Dia. of Bolt	d ₂	DIN 2573	DIN 2631	
			Weld- ing neck	slip- on	Blind														
10	14 17.2*)	75	12	12	12	50	28	22 26	1.8	4	6	35	2	4	M10	-	11.5	0.036	0.335
15	20 21.3*)	80	12	12	12	55	30	28 30	2.0	4	6	40	2	4	M10	-	11.5	0.410	0.392
20	25 26.9*)	90	14	14	14	65	32	35 38	2.3	4	6	50	2	4	M10	-	11.5	0.600	0.592
25	30 33.7*)	100	14	14	14	75	35	40 42	2.6	4	6	60	2	4	M10	-	11.5	0.740	0.747
32	38 42.4*)	120	14	16	14	90	35	50 55	2.6	6	6	70	2	4	M12	(1/2")	14	1.19	1.05
40	44.5 48.3*)	130	14	16	14	100	38	58 62	2.6	6	7	80	3	4	M12	(1/2")	14	1.39	1.18
50	57 60.3*)	140	14	16	14	110	38	70 74	2.9	6	8	90	3	4	M12	(1/2")	14	1.53	1.34
65	76.1*)	160	14	16	14	130	38	88	2.9	6	9	110	3	4	M12	(1/2")	14	1.89	1.67
80	88.9*)	190	16	18	16	150	42	102	3.2	8	10	128	3	4	M16	(5/8")	18	2.98	2.71
100	108 114.3*)	210	16	18	16	170	45	122 130	3.6	8	10	148	3	4	M16	(5/8")	18	3.46	3.24
125	133 139.7*)	240	18	20	18	200	48	148 155	4.0	8	10	178	3	8	M16	(5/8")	18	4.60	4.49
150	159 168.3*)	265	18	20	18	225	48	172 184	4.5	10	12	202	3	8	M16	(5/8")	18	5.22	5.15
200	216 219.1*)	320	20	22	20	280	55	230 236	5.9	10	15	258	3	8	M16	(5/8")	18	7.15	7.78
250	267 273*)	375	22	24	22	335	60	282 290	6.2	12	15	312	3	12	M16	(5/8")	18	9.61	10.8
300	381 323.9*)	440	22	24	22	395	62	335 342	7.1	12	15	365	4	12	M20	(3/4")	23	12.6	14.0
350	355.6*)	490	22	26	22	445	62	385	7.1	12	15	415	4	12	M20	(3/4")	23	15.6	16.1
400	406.4*)	540	22	28	22	495	65	438	7.1	12	15	455	4	16	M20	(3/4")	23	18.4	18.3
500	508*)	645	24	30	24	600	68	538	7.1	12	15	570	4	20	M20	(3/4")	23	24.5	24.6
600	609.6*)	755	24			705	70	640	7.1	12	16	670	5	20	M24	(7/8")	27		
700	711.2*)	860	24			810	70	740	7.1	12	16	775	5	24	M24	(7/8")	27		
800	812.8*)	975	24			920	70	842	7.1	12	16	880	5	24	M27	(1")	30		
900	914.4*)	1075	26			1020	70	942	7.1	12	16	980	5	24	M27	(1")	30		
1000	1016*)	1175	26			1120	70	1045	7.1	16	16	1080	5	28	M27	(1")	30		

Out side diameter of pipe complies with ISO recommendation R64

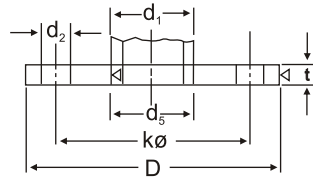


10 BAR

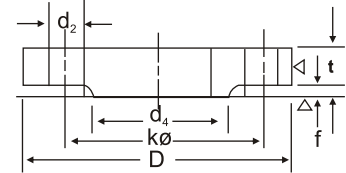
DIN 2576 SLIP - ON FLANGES

DIN 2527 BLIND FLANGES

DIN 2632 WELDING NECK FLANGES



SLIP-ON



BLIND

Unit : mm

Bore		Common Dimension						Hub				Raise Face		Drilling				Approx Weight (kg)	
Nominal Bore	d ₁	D	t	Welding neck	slip-on	Blind	K	T	d ₃	s	r	a ≈	d ₄	f	No. of Bolt	Dia. of Bolt	d ₂	DIN 2576	DIN 2632
10	14 (17.2*)	90	14	14	14	60	35	25 28	1.8	4	6	40	2	4	M12	(1.2")	14	0.163	0.580
15	20 (21.3*)	95	14	14	14	65	35	30 32	2.0	4	6	45	2	4	M12	(1.2")	14	0.675	0.648
20	25 (26.9*)	105	16	16	16	75	38	38 40	2.3	4	6	58	2	4	M12	(1.2")	14	0.947	0.952
25	30 (33.7*)	115	16	16	16	85	38	42 45	2.6	4	6	68	2	4	M12	(1.2")	14	1.14	1.14
32	38 (42.4*)	140	16	16	16	100	40	52 56	2.6	6	6	78	2	4	M16	(5/8")	18	1.66	1.69
40	44.5 (48.3*)	150	16	16	18	110	42	60 64	2.6	6	7	88	3	4	M16	(5/8")	18	1.89	1.86
50	57 (60.3*)	165	18	18	18	125	45	72 75	2.9	6	8	102	3	4	M16	(5/8")	18	2.51	2.53
65	76.1*)	185	18	18	18	145	45	90	2.9	6	10	122	3	4	M16	(5/8")	18	3.00	3.06
80	88.9*)	200	20	20	20	160	50	105	3.2	8	10	138	3	4	M16	(5/8")	18	3.79	3.70
100	108 (114.3*)	220	20	20	20	180	52	125 131	3.6	8	12	158	3	8	M16	(5/8")	18	4.20	4.62
125	133 (139.7*)	250	22	22	22	210	55	150 156	4.0	8	12	188	3	8	M16	(5/8")	18	5.71	6.30
150	159 (168.3*)	285	22	22	22	240	55	175 184	4.5	10	12	212	3	8	M20	(3/4")	23	6.72	7.75
200	216 (219.1*)	340	24	24	24	295	62	232 235	5.9	10	16	268	3	8	M20	(3/4")	23	9.50	11.3
250	267 (273*)	395	26	26	26	350	68	285 292	6.3	12	16	320	3	12	M20	(3/4")	23	12.5	14.7
300	381 (323.9*)	445	26	26	28	400	68	335 344	7.1	12	16	370	4	12	M20	(3/4")	23	14.4	17.6
350	355.6*) 368	505	26	28	30	460	68	385	7.1	12	16	430	4	16	M20	(3/4")	23	20.6	21.4
400	406.4*) 419	565	26	32	32	515	72	440	7.1	12	16	482	4	16	M24	(7/8")	27	27.9	26.1
500	508*) 521	670	28	38	34	620	75	542	7.1	12	16	585	4	20	M24	(7/8")	27	41.1	34.7
600	609.6*) 622	780	28			725	80	642	7.1	12	18	685	5	20	M27	(1")	30		
700	711.2*) 720	895	30			840	80	754	8.0	12	18	800	5	24	M27	(1")	30		
800	812.8*) 820	1015	32			950	90	850	8.0	12	18	905	5	24	M30	(1.1/8")	30		
900	914.4*) 920	1115	34			1050	95	950	10.0	12	20	1005	5	28	M30	(1.1/8")	33		
1000	1016*) 1020	1230	34			1160	95	1052	10.0	16	20	1110	5	28	M33	(1 1/4")	36		

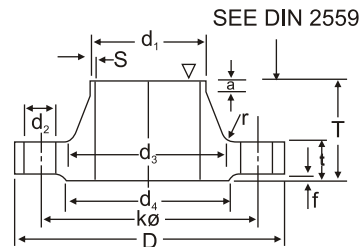
Out side diameter of pipe complies with ISO recommendation R64

16 BAR

DIN 2543 SLIP - ON FLANGES

DIN 2527 BLIND FLANGES

DIN 2633 WELDING NECK FLANGES



WELDING NECK

Unit : mm

Bore		Common Dimension						Hub				Raise Face		Drilling			Approx Weight (kg)		
Nominal Bore	d ₁	D	t			K	T	d ₃	s	r	a ≈	d ₄	f	No. of Bolt	Dia. of Bolt		d ₂	DIN 2543	DIN 2633
			Weld- ing neck	slip- on (No-hub)	Blind														
10	14 17.2*)	90	14	14	14	60	35	25 28	1.8	4	6	40	2	4	M12	(1.2")	14	0.63	0.580
15	20 21.3*)	95	14	14	14	65	35	30 32	2.0	4	6	45	2	4	M12	(1.2")	14	0.72	0.648
20	25 26.9*)	105	16	16	16	75	38	38 40	2.3	4	6	58	2	4	M12	(1.2")	14	1.01	0.952
25	30 33.7*)	115	16	16	16	85	38	42 45	2.6	4	6	68	2	4	M12	(1.2")	14	1.23	1.14
32	38 42.4*)	140	16	16	16	100	40	52 56	2.6	6	6	78	2	4	M16	(5/8")	18	1.80	1.69
40	44.5 48.3*)	150	16	16	16	110	42	60 64	2.6	6	7	88	3	4	M16	(5/8")	18	2.09	1.86
50	57 60.3*)	165	18	18	18	125	45	72 75	2.9	6	8	102	3	4	M16	(5/8")	18	2.88	2.53
65	76.1*)	185	18	18	18	145	45	90	2.9	6	10	122	3	4	M16	(5/8")	18	3.66	3.06
80	88.9*)	200	20	20	20	160	50	105	3.2	8	10	138	3	8	M16	(5/8")	18	4.77	3.70
100	108 114.3*)	220	20	20	20	180	52	125 131	3.6	8	12	158	3	8	M16	(5/8")	18	5.65	4.62
125	133 139.7*)	250	22	22	22	210	55	150 156	4.0	8	12	188	3	8	M16	(5/8")	18	8.42	6.30
150	159 168.3*)	285	22	22	22	240	55	175 184	4.5	10	12	212	3	8	M20	(3/4")	23	10.4	7.75
200	216 219.1*)	340	24	24	24	295	62	232 235	5.9	10	16	268	3	12	M20	(3/4")	23	16.1	11.0
250	267 273*)	405	26	26	26	355	70	285 292	6.3	12	16	320	3	12	M24	(7/8")	27	24.9	15.6
300	381 323.9*)	460	28	28	28	410	78	338 344	7.1	12	16	378	4	12	M24	(7/8")	27	35.1	22.0
350	355.6*) 368	520	30	30	30	470	82	390	8.0	12	16	438	4	16	M24	(7/8")	27	47.8	28.7
400	406.4*) 419	580	32	32	32	525	85	445	8.8	12	16	490	4	16	M27	(1")	30	63.5	36.3
500	508*) 521	715	34	36	34	650	90	548	8.0	12	16	610	4	20	M30	(1 1/8")	33	102.0	59.3
600	609.6*) 622	840	36	40		770	95	652	8.8	12	18	725	5	20	M33	(1 1/4")	36		
700	711.2*) 720	910	36			840	100	755	8.8	12	18	795	5	24	M33	(1 1/4")	36		
800	812.8*) 820	1025	38			950	105	855	10.0	12	20	900	5	24	M36	(1 3/8")	39		
900	914.4*) 920	1125	40			1050	110	955	10.0	12	20	1000	5	28	M36	(1 3/8")	39		
1000	1016*) 1020	1255	42			1170	120	1058	10.0	16	20	1115	5	28	M39	(1 1/2")	42		

Out side diameter of pipe complies with ISO recommendation R64

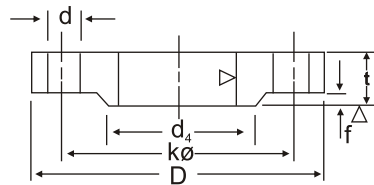


25 BAR

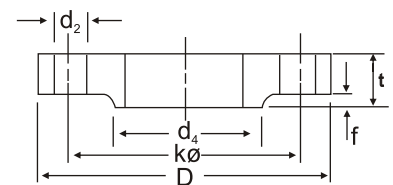
DIN 2544 SLIP - ON FLANGES

DIN 2527 BLIND FLANGES

DIN 2634 WELDING NECK FLANGES



SLIP-ON



BLIND

Unit : mm

Bore		Common Dimension						Hub				Raise Face		Drilling			Approx Weight (kg)	
Nominal Bore	d ₁	D	t Welding neck	slip-on (No-hub)	Blind	K	T	d ₃	s	r	a ≈	d ₄	f	No. of Bolt	Dia. of Bolt	d ₂	DIN 2544	DIN 2634
10	14 (17.2*)	90	16	16	16	60	35	25 28	1.8	4	6	40	2	4	M12 (1.2")	14	0.72	0.661
15	20 (21.3*)	95	16	16	16	65	35	30 32	2.0	4	6	45	2	4	M12 (1.2")	14	0.81	0.746
20	25 (26.9*)	105	18	18	18	75	40	38 40	2.3	4	6	58	2	4	M12 (1.2")	14	1.24	1.06
25	30 (33.7*)	115	18	18	18	85	40	42 46	2.6	4	6	68	2	4	M12 (1.2")	14	1.38	1.29
32	38 (42.4*)	140	18	18	18	100	42	52 56	2.6	6	6	78	2	4	M16 (5/8")	18	2.03	1.88
40	44.5 (48.3*)	150	18	18	18	110	45	60 64	2.6	6	7	88	3	4	M16 (5/8")	18	2.35	2.34
50	57 (60.3*)	165	20	20	20	125	48	72 75	2.9	6	8	102	3	4	M16 (5/8")	18	3.20	2.82
65	76.1*)	185	22	22	22	145	52	90	2.9	6	10	122	3	8	M16 (5/8")	18	4.29	3.74
80	88.9*)	200	24	24	24	160	58	105	3.2	8	12	138	3	8	M16 (5/8")	18	5.88	4.75
100	108 (114.3*)	235	24	24	24	190	65	128 134	3.6	8	12	162	3	8	M20 (3/4")	23	7.54	6.52
125	133 (139.7*)	270	26	26	26	220	68	155 162	4.0	8	12	188	3	8	M24 (7/8")	27	10.8	9.07
150	159 (168.3*)	300	28	28	28	250	75	182 192	4.5	10	12	218	3	8	M24 (7/8")	27	14.5	11.8
200	216 (219.1*)	360	30	30	30	310	80	240 244	6.3	10	16	278	3	12	M24 (7/8")	27	22.3	17.0
250	267 (273*)	425	32	32	32	370	88	292 298	7.1	12	18	355	3	12	M27 (1")	30	33.5	24.4
300	381 (323.9*)	485	34	34	34	430	92	345 352	8.0	12	18	395	4	16	M27 (1")	30	46.3	31.2
350	355.6*) 368	555	38	38	38	490	100	398	8.0	12	20	450	4	16	M30 (1 1/8")	33	68.0	45.0
400	406.4*)	620	40	40	40	550	110	452	8.8	12	20	505	4	16	M33 (1 1/4")	36	89.7	58.7
500	508*)	730	44	44	44	660	125	558	10.0	12	20	615	4	20	M33 (1 1/4")	36	138.0	86.1
600	609.6*) 622	845	46			770	125	660	11.0	12	20	720	5	20	M36 (1 3/8")	39		101.0
700	711.2*) 720	960	46			875	125	760	12.5	12	20	820	5	24	M39 (1 1/2")	42		134.0
800	812.8*) 820	1085	50			990	135	865	14.2	12	22	930	5	24	M45 (1 3/4")	48		183.0
900	914.4*) 920	1185	54			1090	145	968	16.0	12	24	1030	5	28	M45 (1 3/4")	48		232.0
1000	1016*) 1020	1320	58			1210	155	1070	17.5	16	24	1140	5	28	M52 (2")	56		302.0

Out side diameter of pipe complies with ISO recommendation R64

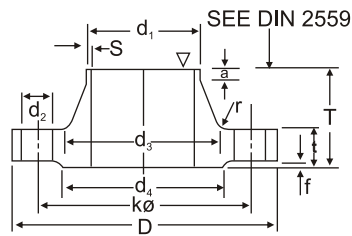
40 BAR

DIN 2545 SLIP - ON FLANGES

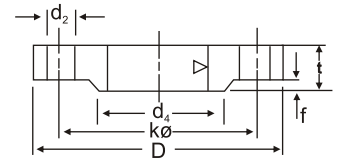
DIN 2527 BLIND FLANGES

DIN 2635 WELDING NECK FLANGES

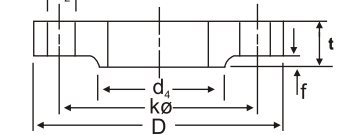
WELDING NECK



SLIP-ON



BLIND

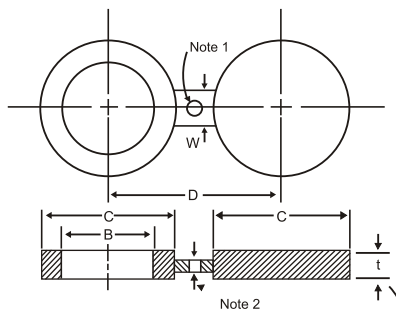


Unit : mm

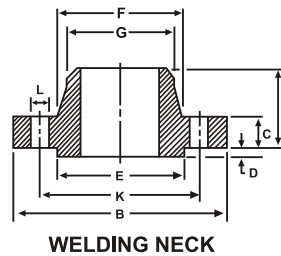
Bore		Common Dimension						Hub				Raise Face		Drilling			Approx Weight (kg)		
Nominal Bore	d ₁	D	t			K	T	d ₃	s	r	a ≈	d ₄	f	No. of Bolt	Dia. of Bolt		d ₂	DIN 2545	DIN 2635
			Weld- ing neck	slip- on (No-hub)	Blind														
10	14 17.2*)	90	16	16	16	60	35	25 28	1.8	4	6	40	2	4	M12	(1.2")	14	0.72	0.661
15	20 21.3*)	95	16	16	16	65	38	30 32	2.0	4	6	45	2	4	M12	(1.2")	14	0.81	0.746
20	25 26.9*)	105	18	18	18	75	40	38 40	2.3	4	6	58	2	4	M12	(1.2")	14	1.24	1.06
25	30 33.7*)	115	18	18	18	85	40	42 46	2.6	4	6	68	2	4	M12	(1.2")	14	1.38	1.29
32	38 42.4*)	140	18	18	18	100	42	52 56	2.6	6	6	78	2	4	M16	(5/8")	18	2.03	1.88
40	44.5 48.3*)	150	18	18	18	110	45	60 64	2.6	6	7	88	3	4	M16	(5/8")	18	2.35	2.33
50	57 60.3*)	165	20	20	20	125	48	72 75	2.9	6	8	102	3	4	M16	(5/8")	18	3.20	2.82
65	76.1*)	185	22	22	22	145	52	90	2.9	6	10	122	3	8	M16	(5/8")	18	4.29	3.74
80	88.9*)	200	24	24	24	160	58	105	3.2	8	12	138	3	8	M16	(5/8")	18	5.88	4.75
100	108 114.3*)	235	24	24	24	190	65	128 134	3.6	8	12	162	3	8	M20	(3/4")	23	7.54	6.52
125	133 139.7*)	270	26	26	26	220	68	155 162	4.0	8	12	188	3	8	M24	(7/8")	27	10.8	9.07
150	159 168.3*)	300	28	28	28	250	75	182 192	4.5	10	12	218	3	8	M24	(7/8")	27	14.5	11.80
(175)	(191) 193.7*)	350	32	30	32	295	82	251 218	5.6	10	15	260	3	12	M27	(1")	30	22.1	18.2
200	216 291.1*)	375	34	34	34	320	88	240 244	6.3	10	16	385	3	12	M27	(1")	30	27.2	21.5
250	267 273*)	450	38	38	38	385	105	298 306	7.1	12	18	345	3	12	M30	(1 1/8")	33	43.8	34.9
300	318 323.9*)	515	42	42	42	450	115	352 362	8.0	12	18	410	4	16	M30	(1 1/8")	33	63.3	49.7
350	355.6* 368	580	46	46	46	510	125	408	8.8	12	20	565	4	16	M33	(1 1/4")	36	89.5	68.1
400	406.4*) 419	660	50	50	50	585	135	462	11.0	12	20	535	4	16	M36	(1 1/8")	39	127.0	96.5
500	508*) 521	744	52	52	52	670	140	562	142	12	20	615	4	20	M39	(1 1/8")	42	172.0	117.0

Out side diameter of pipe complies with ISO recommendation R64

SPECTADE BLINDS TO API 590 ANSI CLASS 150, 300 & 600

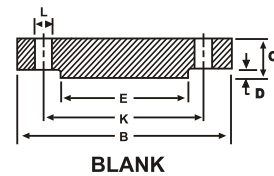


CLASS 150



CLASS 300

ASME B16.47 - 1996



CLASS 600

NOMINAL PIPE SIZE		OUTSIDE DIAMETER OF PIPE	INSIDE DIAMETER	OUTSIDE DIAMETER	CENTRE LINE SPACING	THICKNESS	WEB WIDTH	INSIDE DIAMETER	OUTSIDE DIAMETER	CENTRE LINE SPACING	THICKNESS	WEB WIDTH	INSIDE DIAMETER	OUTSIDE DIAMETER	CENTRE LINE SPACING	THICKNESS	WEB WIDTH	NOMINAL PIPE SIZE	
mm	(in)	A	B	C	D	t	W	B	C	D	t	W	B	C	D	t	W	mm	(in)
15	(1/2)	21.3	16	44	60	3	38	16	51	67	6	38	16	51	67	6	38	15	((1/2)
20	(3/4)	26.7	21	54	70	3	38	21	64	83	6	38	21	64	83	6	38	20	(3/4)
25	(1)	33.4	27	64	79	3	38	27	70	89	6	38	27	70	89	6	57	25	(1)
32	(1 1/4)	42.2	42	73	89	6	38	42	79	99	6	38	37	79	99	10	57	32	(1 1/4)
40	(1 1/2)	48.3	48	83	99	6	38	48	92	114	6	51	43	92	114	10	67	40	(1 1/2)
50	(2)	60.3	60	102	121	6	51	60	108	127	10	51	55	108	127	10	57	50	(2)
65	(2 1/2)	73	73	121	140	6	51	73	127	149	10	64	67	127	149	13	67	65	(2 1/2)
80	(3)	88.9	89	133	152	6	64	89	146	168	10	64	83	146	168	13	67	80	(3)
100	(4)	114.3	114	171	190	10	64	114	178	200	13	64	108	191	216	16	76	100	(4)
125	(5)	141.3	141	194	216	10	76	141	213	235	16	76	135	238	267	19	86	125	(5)
150	(6)	168.3	168	219	241	13	76	168	248	270	16	76	162	264	292	22	86	150	(6)
200	(8)	219.1	219	276	298	13	76	219	305	330	22	89	212	318	349	28	95	200	(8)
250	(10)	273.1	273	337	362	16	102	273	359	387	25	102	265	397	432	35	105	250	(10)
300	(12)	323.8	324	406	432	19	102	324	419	451	28	102	315	454	489	41	105	300	(12)
350	(14)	355.6	356	448	476	19	108	356	483	514	32	121	346	489	527	44	114	350	(14)
400	(16)	406.4	406	511	540	22	108	406	537	572	38	124	397	562	603	51	124	400	(16)
450	(18)	457	457	546	578	25	114	457	594	629	41	114	448	610	654	54	133	450	(18)
500	(20)	508	508	603	635	28	121	508	651	686	44	121	497	679	724	64	133	500	(20)
600	(24)	610	610	714	749	32	140	610	772	813	51	140	597	787	838	73	152	600	(24)

Notes : 1. HOLE SIZE SHALL BE THE SAME AS THE FLANGE BOLT HOLE.
2. THE THICKNESS OF WEB SHALL BE THE LEAST OF "t" OR 6.4mm.
3. ALSO AVAILABLE IN LARGER SIZES & RING TYPE JOINT FACING.

Previously MSS SP44

Series A CLASS 150

											DRILLING DATA				
NOMINAL PIPE SIZE		OUTSIDE DIAMETER OF PIPE	FLANGE OUTSIDE DIAMETER	THICKNESS OF FLANGE MIN W NECK	THICKNESS OF FLANGE MIN BLIND	RAISED FACE THICKNESS	RAISED FACE DIA METER	HUB DIA METER	HUB DIA. START OF CHAMFER	LENGTH THROUGH HUB	BOLT CIRCLE DIAMETER	DIAMETER OF BOLT HOLES	NUMBER OF BOLTS	NOMINAL PIPE SIZE	
mm	(in)	A	B	C	C1	D	E	F	G	J	K	L	M	mm	(in)
650	(26)	660.4	870.0	68.3	68.3	1.6	749.3	676.1	660.4	120.7	806.5	35.1	24	650	(26)
700	(28)	711.2	927.1	71.4	71.4	1.6	800.1	726.9	711.2	125.5	863.6	35.1	28	700	(28)
750	(30)	762.0	984.3	74.7	74.7	1.6	857.3	781.1	762.0	136.7	914.4	35.1	28	750	(30)
800	(32)	812.8	1060.5	81.0	81.0	1.6	914.4	831.9	812.9	144.5	977.9	41.1	28	800	(32)
850	(34)	863.6	1111.3	82.6	82.6	1.6	965.2	882.7	863.6	149.4	1028.7	41.1	32	850	(34)
900	(36)	914.4	1168.4	90.4	90.4	1.6	1022.4	933.5	914.4	157.2	1085.9	41.1	32	900	(36)
950	(38)	965.2	1238.3	87.4	87.4	1.6	1073.2	990.6	965.2	157.2	1149.4	41.1	32	950	(38)
1000	(40)	1016.0	1289.1	90.4	90.4	1.6	1124.0	1041.4	1016.0	163.6	1200.2	41.1	36	1000	(40)
1050	(42)	1066.8	1346.2	96.8	96.8	1.6	1193.8	1092.2	1066.8	171.5	1257.3	41.1	36	1050	(42)
1100	(44)	1117.6	1403.4	101.6	101.6	1.6	1244.6	1143.0	1117.6	177.8	1314.5	41.1	40	1100	(44)
1150	(46)	1168.4	1454.2	103.1	103.1	1.6	1295.4	1196.8	1168.4	185.7	1365.3	41.1	40	1150	(46)
1200	(48)	1219.2	1511.3	108.0	108.0	1.6	1358.9	1247.6	1219.2	192.0	1422.4	41.1	44	1200	(48)
1250	(50)	1270.0	1568.5	111.3	111.3	1.6	1409.7	1301.8	1270.0	203.2	1479.6	47.8	44	1250	(50)
1300	(52)	1320.8	1625.6	115.8	115.8	1.6	1460.5	1352.6	1320.8	209.6	1536.7	47.8	44	1300	(52)
1350	(54)	1371.6	1682.8	120.7	120.7	1.6	1511.3	1403.4	1371.6	215.9	1593.9	47.8	44	1350	(54)
1400	(56)	1422.4	1746.3	124.0	124.0	1.6	1574.8	1457.5	1422.4	228.6	1651.0	47.8	48	1400	(56)
1450	(58)	1473.2	1803.4	128.5	128.5	1.6	1625.6	1508.3	1473.2	235.0	1708.2	47.8	48	1450	(58)
1500	(60)	1524.0	1854.2	131.8	131.8	1.6	1676.4	1559.1	1524.0	239.8	1759.0	47.8	52	1500	(60)

Notes : 1. Dimensions are in MM 2. Bore is to be specified by the customer to suit pipe. 3. Ring Type joint also available

Previously MSS SP44

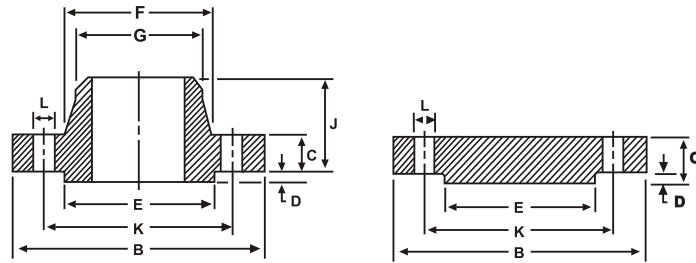


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ASME B16.47-1996 SERIES A CLASS 300 & 600



CLASS 300

WELDING NECK

BLANK

										DRILLING DATA					
NOMINAL PIPE SIZE	OUTSIDE DIAMETER OF PIPE	FLANGE OUTSIDE DIAMETER	THICKNESS OF FLANGE MIN W NECK	THICKNESS OF FLANGE MIN BLIND	RAISED FACE THICKNESS	RAISED FACE DIA METER	HUB DIA METER	HUB DIA. START OF CHAMFER	LENGTH THROUGH HUB	BOLT CIRCLE DIAMETER	DIAMETER OF BOLT HOLES	NUMBER OF BOLTS	NOMINAL PIPE SIZE	mm	(in)
mm	(in)	A	B	C	C1	D	E	F	G	J	K	L	M	mm	(in)
650	(26)	660.4	971.6	79.2	84.1	1.6	749.3	720.9	660.4	184.2	876.3	44.5	28	650	(26)
700	(28)	711.2	1035.1	85.9	90.4	1.6	800.1	774.7	711.2	196.9	939.8	44.5	28	700	(28)
750	(30)	762.0	1092.2	91.9	95.3	1.6	857.3	827.0	762.0	209.6	997.0	47.8	28	750	(30)
800	(32)	812.8	1149.4	98.6	100.1	1.6	914.4	881.1	812.8	222.3	1054.1	50.8	28	600	(32)
850	(34)	863.6	1206.5	101.6	104.6	1.6	965.2	936.8	863.6	231.6	1104.9	50.8	28	850	(34)
900	(36)	914.4	1270.0	104.6	111.3	1.6	1022.4	990.6	914.4	241.3	1168.4	53.8	32	900	(36)
950	(38)	965.2	1168.4	108.0	108.0	1.6	1028.7	993.6	965.2	180.8	1092.2	41.1	32	950	(38)
1000	(40)	1016.0	1238.3	114.3	114.3	1.6	1085.9	1047.8	1016.0	193.5	1155.7	44.5	32	1000	(40)
1050	(42)	1066.8	1289.1	119.1	119.1	1.6	1136.7	1098.6	1068.8	200.2	1206.5	44.5	32	1050	(42)
1100	(44)	1117.6	1352.6	124.0	124.0	1.6	1193.8	1149.4	1117.6	206.2	1263.7	47.8	32	1100	(44)
1150	(46)	1168.4	1416.1	128.5	128.5	1.6	1244.6	1203.5	1168.4	215.9	1320.8	50.8	28	1150	(48)
1200	(48)	1219.2	1466.9	133.4	133.4	1.6	1301.8	1254.3	1219.2	223.8	1371.6	50.8	32	1200	(48)
1250	(50)	1270.0	1530.4	139.7	139.7	1.6	1358.9	1305.1	1270.0	231.6	1428.8	53.8	32	1250	(50)
1300	(52)	1320.8	1581.2	144.5	144.5	1.6	1409.7	1355.9	1320.8	238.3	1479.6	53.8	32	1300	(52)
1350	(54)	1371.6	1657.4	152.4	152.4	1.6	1466.9	1409.7	1371.6	252.5	1549.4	60.5	28	1350	(54)
1400	(56)	1422.4	1708.2	153.9	153.9	1.6	1517.7	1463.5	1422.4	260.4	1600.2	60.5	28	1400	(56)
1450	(58)	1473.2	1759.0	158.8	158.8	1.6	1574.8	1514.3	1473.2	266.7	1651.0	60.5	32	1450	(58)
1500	(60)	1524.0	1809.8	163.6	163.6	1.6	1625.6	1565.1	1524.0	273.1	1701.8	60.5	32	1500	(60)

Previously MSS SP44

CLASS 600

										DRILLING DATA					
NOMINAL PIPE SIZE	OUTSIDE DIAMETER OF PIPE	FLANGE OUTSIDE DIAMETER	THICKNESS OF FLANGE MIN W NECK	THICKNESS OF FLANGE MIN BLIND	RAISED FACE THICKNESS	RAISED FACE DIA METER	HUB DIA METER	HUB DIA. START OF CHAMFER	LENGTH THROUGH HUB	BOLT CIRCLE DIAMETER	DIAMETER OF BOLT HOLES	NUMBER OF BOLTS	NOMINAL PIPE SIZE	mm	(in)
mm	(in)	A	B	C	C1	D	E	F	G	J	K	L	M	mm	(in)
650	(26)	660.4	1016.0	108.0	125.5	6.4	749.3	747.8	660.4	222.3	914.4	50.8	28	650	(26)
700	(28)	711.2	1073.2	111.3	131.8	6.4	800.1	803.1	711.2	235.0	965.2	53.8	28	700	(28)
750	(30)	762.0	1130.3	114.3	139.7	6.4	857.3	862.1	762.0	247.7	1022.4	53.8	28	750	(30)
800	(32)	812.8	1193.8	117.3	147.6	6.4	914.4	917.4	812.8	260.4	1079.5	60.5	28	800	(32)
850	(34)	863.6	1244.6	120.7	153.9	6.4	965.2	973.1	863.6	269.7	1130.3	60.5	28	850	(34)
900	(36)	914.4	1314.5	124.0	162.1	6.4	1022.4	1031.7	914.4	282.4	1193.8	68.5	28	900	(36)
950	(38)	965.2	1270.0	152.4	155.4	6.4	1054.1	1022.4	965.2	254.0	1162.1	60.5	28	950	(38)
1000	(40)	1016.0	1320.8	158.8	162.1	6.4	1111.3	1073.2	1016.0	263.7	1212.9	60.5	32	1000	(40)
1050	(42)	1066.8	1403.4	168.1	171.5	6.4	1168.4	1127.3	1066.8	279.4	1282.7	66.5	28	1050	(42)
1100	(44)	1117.6	1454.2	173.0	177.8	6.4	1225.6	1181.1	1117.6	289.1	1333.5	66.5	32	1100	(44)
1150	(46)	1168.4	1511.3	179.3	185.7	6.4	1276.4	1234.9	1168.4	300.0	1390.7	66.5	32	1160	(46)
1200	(48)	1219.2	1593.9	189.0	195.3	6.4	1333.5	1289.1	1219.2	316.0	1460.5	73.2	32	1200	(48)
1250	(50)	1270.0	1670.1	196.9	203.2	6.4	1384.3	1343.2	1270.0	328.7	1524.0	79.2	28	1250	(50)
1300	(52)	1320.8	1720.9	203.2	209.6	6.4	1435.1	1394.0	1320.8	336.6	1574.8	79.2	32	1300	(52)
1350	(54)	1371.6	1778.0	209.6	217.4	6.4	1492.3	1447.8	1371.6	349.3	1632.0	79.2	32	1350	(54)
1400	(56)	1422.4	1854.2	217.4	225.6	6.4	1543.1	1501.6	1422.4	362.0	1695.5	85.9	32	1400	(56)
1450	(58)	1473.2	1905.0	222.3	231.6	6.4	1600.2	1552.4	1473.2	369.8	1746.3	85.9	32	1450	(58)
1500	(60)	1524.0	1993.9	233.4	242.8	6.4	1657.4	1609.9	1524.0	388.9	1822.5	91.9	28	1500	(60)

Notes : 1. DIMENSIONS ARE IN MM

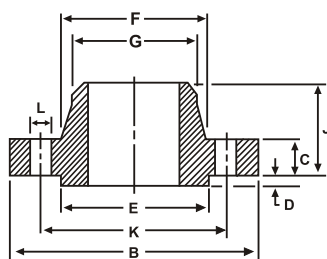
2. BORE IS TO BE SPECIFIED BY THE CUSTOMER TO SUIT PIPE

3. RING TYPE JOINT ALSO AVAILABLE

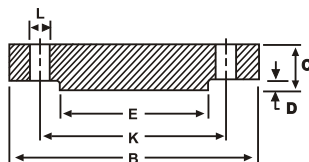
Previously MSS SP44



ASME B16.47-1996 Series B CLASS 150 & 300



WELDING NECK



BLANK

CLASS 150

CLASS 150											DRILLING DATA				
NOMINAL PIPE SIZE		OUTSIDE DIAMETER OF PIPE	FLANGE OUTSIDE DIAMETER	THICKNESS OF FLANGE MIN W NECK	THICKNESS OF FLANGE MIN BLIND	RAISED FACE THICK NESS	RAISED FACE DIA METER	HUB DIA METER	HUB DIA. START OF CHAMFER	LENGTH THROUGH HUB	BOLT CIRCLE DIAMETER	DIAMETER OF BOLT HOLES	NUMBER OF BOLTS	NOMINAL PIPE SIZE	
mm	(in)	A	B	C	C1	D	E	F	G	J	K	L	M	mm	(in)
650	(26)	660.4	785.9	41.1	44.5	1.6	711.2	684.3	661.9	88.9	744.5	22.4	36	650	(26)
700	(28)	711.2	836.7	44.5	47.8	1.6	762.0	735.1	712.7	95.3	795.3	22.4	40	700	(28)
750	(30)	762.0	887.5	44.5	50.8	1.6	812.8	787.4	763.5	100.1	846.1	22.4	44	750	(30)
800	(32)	812.8	941.3	46.0	53.8	1.6	863.6	839.7	814.3	108.0	900.2	22.4	48	800	(32)
850	(34)	863.6	1004.8	49.3	57.2	1.6	920.8	892.0	865.1	110.2	957.3	25.4	40	850	(34)
900	(36)	914.4	1057.1	52.3	58.7	1.6	971.6	944.6	915.9	117.3	1009.7	25.4	44	900	(36)
950	(38)	965.2	1124.0	53.8	63.5	1.6	1022.4	997.0	968.2	124.0	1069.8	28.4	40	950	(38)
1000	(40)	1016.0	1174.8	55.6	66.5	1.6	1079.5	1049.3	1019.0	128.5	1120.6	28.4	44	1000	(40)
1050	(42)	1066.8	1225.6	58.7	68.3	1.6	1130.3	1101.9	1069.8	133.4	1171.4	28.4	48	1050	(42)
1100	(44)	1117.6	1276.4	60.5	71.4	1.6	1181.1	1152.7	1120.6	136.7	1222.2	28.4	52	1100	(44)
1150	(46)	1168.4	1341.4	62.0	74.7	1.6	1234.9	1205.0	1171.4	144.5	1284.2	31.8	40	1150	(46)
1200	(48)	1219.2	1392.2	65.0	77.7	1.6	1289.1	1257.3	1222.2	149.4	1335.0	31.8	44	1200	(48)
1250	(50)	1270.0	1443.0	68.3	80.8	1.6	1339.9	1308.1	1273.0	153.9	1385.8	31.8	48	1250	(50)
1300	(52)	1320.8	1493.8	69.9	84.1	1.6	1390.7	1360.4	1323.8	157.2	1436.6	31.8	52	1300	(52)
1350	(54)	1371.6	1549.4	71.4	87.4	1.6	1441.5	1412.7	1374.6	162.1	1492.3	31.8	56	1350	(54)
1400	(56)	1422.4	1600.2	73.2	90.4	1.6	1492.3	1465.3	1425.4	166.6	1543.1	31.8	60	1400	(56)
1450	(58)	1473.2	1674.9	74.7	93.5	1.6	1543.1	1516.1	1476.2	174.8	1611.4	35.1	48	1450	(58)
1500	(60)	1524.0	1725.7	76.2	96.8	1.8	1600.2	1570.0	1527.0	179.3	1662.2	35.1	52	1500	(60)

Previously API 605

CLASS 300

CLASS 300											DRILLING DATA				
NOMINAL PIPE SIZE		OUTSIDE DIAMETER OF PIPE	FLANGE OUTSIDE DIAMETER	THICKNESS OF FLANGE MIN W NECK	THICKNESS OF FLANGE MIN BLIND	RAISED FACE THICK NESS	RAISED FACE DIA METER	HUB DIA METER	HUB DIA. START OF CHAMFER	LENGTH THROUGH HUB	BOLT CIRCLE DIAMETER	DIAMETER OF BOLT HOLES	NUMBER OF BOLTS	NOMINAL PIPE SIZE	
mm	(in)	A	B	C	C1	D	E	F	G	J	K	L	M	mm	(in)
650	(26)	660.4	866.6	88.9	88.9	1.6	736.6	701.5	665.2	144.5	803.1	35.1	32	650	(26)
700	(28)	711.2	920.8	88.9	88.9	1.6	787.4	755.7	716.0	149.4	857.3	35.1	36	700	(28)
750	(30)	762.0	990.6	93.7	93.7	1.6	844.6	812.8	768.4	158.0	920.8	38.1	36	750	(30)
800	(32)	812.8	1054.1	103.1	103.1	1.6	901.7	863.6	819.2	168.1	977.9	41.1	32	800	(32)
850	(34)	863.6	1107.9	103.1	103.1	1.6	952.5	917.4	870.0	173.0	1031.7	41.1	36	850	(34)
900	(36)	914.4	1171.4	103.1	103.1	1.6	1009.7	965.2	920.8	180.8	1089.2	44.5	32	900	(36)
950	(38)	965.2	1222.2	111.3	111.3	1.6	1060.5	1016.0	971.6	192.0	1140.0	44.5	36	950	(38)
1000	(40)	1016.0	1273.0	115.8	115.8	1.6	1114.6	1066.8	1022.4	198.4	1190.8	44.5	40	1000	(40)
1050	(42)	1066.8	1333.5	119.1	119.1	1.6	1168.4	1117.6	1074.7	204.7	1244.6	47.8	36	1050	(42)
1100	(44)	1117.6	1384.3	127.0	127.0	1.6	1219.2	1173.2	1125.5	214.4	1295.4	47.8	40	1100	(44)
1150	(46)	1168.4	1460.5	128.5	130.0	1.6	1270.0	1228.9	1176.3	222.3	1365.3	50.8	36	1150	(46)
1200	(48)	1219.2	1511.3	128.5	134.9	1.6	1327.2	1277.9	1227.1	223.8	1416.1	50.8	40	1200	(48)
1250	(50)	1270.0	1562.1	138.2	139.7	1.6	1378.0	1330.5	1277.9	235.0	1466.9	50.8	44	1250	(50)
1300	(52)	1320.8	1612.9	142.7	144.3	1.6	1428.8	1382.8	1328.7	242.8	1517.7	50.8	48	1300	(52)
1350	(54)	1371.6	1673.4	136.7	149.4	1.6	1479.6	1435.1	1379.5	239.8	1577.8	50.8	48	1350	(54)
1400	(56)	1422.4	1765.3	153.9	157.0	1.6	1536.7	1493.8	1430.3	268.2	1651.0	60.5	36	1400	(56)
1450	(58)	1473.2	1827.3	153.9	162.1	1.6	1593.9	1547.9	1481.1	274.6	1713.0	60.5	40	1450	(58)
1500	(60)	1524.0	1878.1	150.9	150.9	1.6	1651.0	1598.7	1531.9	271.5	1763.8	60.5	40	1500	(60)

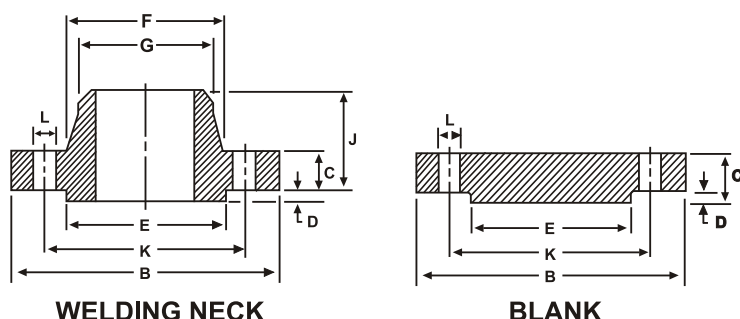
Notes : 1. DIMENSIONS ARE IN MM

2. BORE IS TO BE SPECIFIED BY THE CUSTOMER TO SUIT PIPE

3. RING TYPE JOINT ALSO AVAILABLE



ASME B16.47-1996 SERIES B CLASS 600 & 900



CLASS 600

NOMINAL PIPE SIZE		OUTSIDE DIAMETER OF PIPE	FLANGE OUTSIDE DIAMETER	THICKNESS OF FLANGE MIN W NECK	THICKNESS OF FLANGE MIN BLIND	RAISED FACE THICKNESS	RAISED FACE DIA METER	HUB DIA METER	HUB DIA. START OF CHAMFER	LENGTH THROUGH HUB	DRILLING DATA			NOMINAL PIPE SIZE	
											BOLT CIRCLE DIAMETER	DIAMETER OF BOLT HOLES	NUMBER OF BOLTS		
mm	(in)	A	B	C	C1	D	E	F	G	J	K	L	M	mm	(in)
650	(26)	660.4	889.0	111.3	111.3	6.4	726.9	698.5	660.4	180.8	806.5	44.5	28	650	(26)
700	(28)	711.2	952.5	115.8	115.8	6.4	784.4	752.3	711.2	190.5	863.6	47.8	28	700	(28)
750	(30)	762.0	1022.4	125.5	127.0	6.4	841.2	806.5	762.0	204.7	927.1	50.8	28	750	(30)
800	(32)	812.8	1085.9	130.0	134.9	6.4	895.4	860.6	812.8	215.9	984.3	53.8	28	800	(32)
850	(34)	863.6	1162.1	141.2	144.3	6.4	952.5	914.4	863.6	233.4	1054.1	60.5	24	850	(34)
900	(36)	914.4	1212.9	146.1	150.9	6.4	1009.7	968.2	914.4	242.8	1104.9	60.5	28	900	(36)

CLASS 900

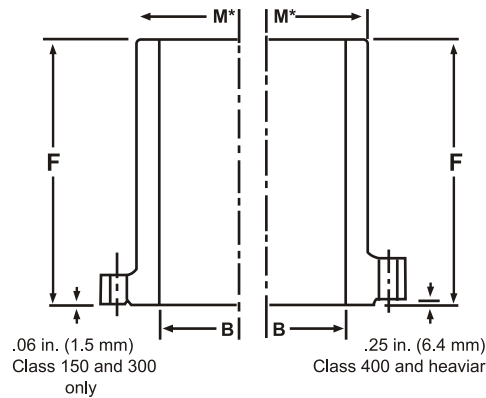
NOMINAL PIPE SIZE		OUTSIDE DIAMETER OF PIPE	FLANGE OUTSIDE DIAMETER	THICKNESS OF FLANGE MIN W NECK	THICKNESS OF FLANGE MIN BLIND	RAISED FACE THICKNESS	RAISED FACE DIA METER	HUB DIA METER	HUB DIA. START OF CHAMFER	LENGTH THROUGH HUB	DRILLING DATA			NOMINAL PIPE SIZE	
											BOLT CIRCLE DIAMETER	DIAMETER OF BOLT HOLES	NUMBER OF BOLTS		
mm	(in)	A	B	C	C1	D	E	F	G	J	K	L	M	mm	(in)
650	(26)	660.4	1022.4	134.9	153.9	6.4	762.0	743.0	660.4	258.8	901.7	66.5	20	650	(26)
700	(28)	711.2	1104.9	147.6	166.6	6.4	819.2	797.1	711.2	276.4	971.6	73.2	20	700	(28)
750	(30)	762.0	1181.1	155.4	176.0	6.4	876.3	850.9	762.0	289.1	1035.1	79.2	20	750	(30)
800	(32)	812.8	1238.3	160.3	185.7	6.4	927.1	908.1	812.8	303.3	1092.2	79.2	20	800	(32)
850	(34)	863.6	1314.5	171.5	195.1	6.4	990.6	962.2	863.6	319.0	1155.7	85.9	20	850	(34)
900	(36)	914.4	1346.2	173.0	201.7	6.4	1028.7	1016.0	914.4	325.4	1200.2	79.2	24	900	(36)

- NOTES :-
1. DIMENSIONS ARE IN MM
 2. BORE IS TO BE SPECIFIED BY THE CUSTOMER TO SUIT PIPE
 3. RING TYPE JOINT ALSO AVAILABLE

Previously API 605



LONG WELDING NECKS



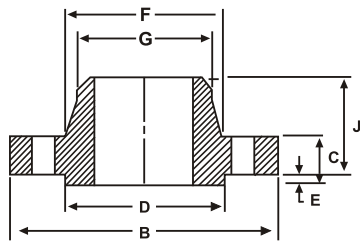
NOMINAL SIZE AND BORE	LENGTH THRU HUB		HUB DIAMETER CLASS 150 PN 20	WEIGHTS						
	CLASS 150 THRU 600 PN 20 THRU 100	CLASS 900 THRU 2500 PN 160 THRU 400		CLASS 150 PN 20	CLASS 300 PN 20	CLASS 400 PN 64	CLASS 600 PN 100	CLASS 900 PN 180	CLASS 1500 PN 250	CLASS 2500 PN 400
B	F	F	M							
1.00 25.4	9 229	9 229	2.00 50.8	8 3.6	10 4.5	11 5	11 5	15 7	15 7	20 9
1.25 31.8	9 229	9 229	2.38 60.3	10 4.5	14 6.5	14 6.5	14 6.5	18 8	18 8	30 13.5
1.50 38.1	9 229	9 229	2.62 66.7	12 5.5	17 7.7	17 7.7	17 7.7	23 10.5	23 10.5	38 17
2.00 50.8	9 229	9 229	3.25 82.6	17 7.7	19 9	21 9.5	21 9.5	44 20	44 20	55 25
2.50 63.5	9 229	12 305	3.75 95.3	22 10	28 13	29 13	29 13	72 32.5	72 32.5	85 38.5
3.00 76.2	9 229	12 305	4.25 108.0	26 12	36 16.5	38 17.5	38 17.5	65 29.5	84 38	125 57
3.50 88.9	9 229	-	4.88 123.8	32 14.5	45 20.5	48 21.5	48 22	-	-	-
4.00 101.6	12 305	12 305	5.50 139.7	47 21.5	54 24.5	67 30	80 36.5	98 44	118 53	185 84
5.00 127.0	12 305	12 305	6.50 165.1	58 26.5	86 39	90 41	128 58	143 65	195 88	300 135
6.00 152.4	12 305	12 305	7.75 196.9	77 35	108 49	115 52	158 72	199 90	235 106	450 203
8.00 203.2	12 305	12 305	9.75 247.7	103 47	150 68	160 72	215 98	310 140	366 165	600 270
10.00 254.0	12 305	12 305	12.00 304.8	144 66	218 99	230 104	343 156	356 161	594 268	1045 471
12.00 304.8	12 305	12 305	14.38 365.1	207 94	289 131	301 136	409 186	541 244	872 393	1420 639
14.00 355.6	12 305	12 305	16.00 406.4	212 96	342 155	357 161	432 196	568 256	1030 464	-
16.00 406.4	12 305	12 305	18.00 457.2	250 114	426 193	443 199	564 256	670 302	1335 601	-
18.00 457.2	12 305	12 305	20.00 508.0	274 125	493 224	513 231	654 297	949 427	1750 788	-
20.00 508.0	12 305	12 305	22.00 558.8	314 143	575 261	602 271	840 381	1040 468	2130 959	-
24.00 609.6	12 305	12 305	26.25 666.8	426 194	823 374	856 385	1100 499	1775 799	3180 1431	-

SPECIFICATIONS: Long Welding Necks conform to ASTM specification A-105. Except as shown above, Long Welding Necks conform dimensionally to ASME/ANSI Standard B16.5

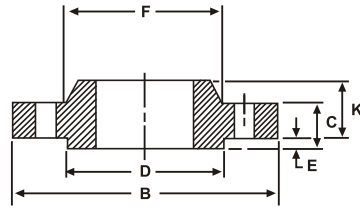
INCHES	POUNDS
MILLIMETERS	KILOGRAMS

*Dimension "M" is given here for Class 150 Long Welding Necks only. For Class 300 and higher pressure ratings, outside diameter of the neck is the same as dimension "M" of ANSI flanges of comparable pressure rating.

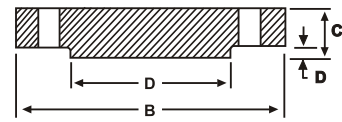
CLASS ES 150, 300 & 600 BS 3293



WELDING NECK



SLIP-ON



BLANK

CLASS 150

CLASS 150									DRILLING DATA			LENGTH THROUGH HUB		NOMINAL PIPE SIZE	
NOMINAL PIPE SIZE		OUTSIDE DIAMETER OF PIPE	FLANGE OUTSIDE DIAMETER	THICKNESS OF FLANGE MIN	RAISED FACE DIAMETER	RAISED FACE THICKNESS	HUB DIAMETER	NECK DIAMETER	BOLT CIRCLE DIAMETER	NUMBER OF HOLES	DIAMETER OF HOLES	OVERALL THICKNESS (W.NECK)	OVERALL THICKNESS (BOSSSED)		
mm.	(In)	A	B	C	D	E	F	G				J	K		
Note 4															
650	(26)	660.4	870.0	50.9	743.0	1.6	724.0	660.5	806.4	24	34.9	127.1	85.5	650	(26)
700	(28)	711.2	927.2	52.4	793.8	1.6	781.1	711.3	863.6	28	34.9	128.6	87.5	700	(28)
750	(30)	762.0	984.3	54.0	857.3	1.6	831.9	762.1	914.4	28	34.9	130.2	89.0	750	(30)
800	(32)	812.8	1060.5	57.2	908.1	1.6	889.1	812.9	977.9	28	41.2	133.4	92.0	800	(32)
850	(34)	863.6	1111.3	58.8	958.9	1.6	939.9	863.7	1028.7	32	41.2	135.0	93.5	850	(34)
900	(36)	914.4	1168.5	60.4	1022.4	1.6	997.0	914.5	1085.8	32	41.2	136.6	95.5	900	(36)
950	(38)	965.2	1238.3	60.4	1073.2	1.6	1060.5	965.3	1149.3	32	41.2	136.6	95.5	950	(38)
1000	(40)	1016.0	1289.1	63.8	1124.0	1.6	1111.3	1016.1	1200.1	36	41.2	139.8	98.5	1000	(40)
1050	(42)	1066.8	1346.3	66.7	1193.9	1.6	1168.5	1066.9	1257.3	36	41.2	142.9	101.5	1050	(42)
1100	(44)	1117.6	1403.4	66.7	1244.7	1.6	1219.3	1117.7	1314.4	40	41.2	142.9	101.5	1100	(44)
1150	(46)	1168.4	1454.2	68.3	1295.5	1.6	1270.1	1168.5	1365.2	40	41.2	144.5	103.0	1150	(46)
1200	(48)	1219.2	1511.4	69.9	1359.0	1.6	1327.2	1219.3	1422.4	44	41.2	146.1	105.0	1200	(48)

CLASS 300

CLASS 300

									DRILLING DATA			LENGTH THROUGH HUB			
NOMINAL PIPE SIZE		OUTSIDE DIAMETER OF PIPE	FLANGE OUTSIDE DIAMETER	THICKNESS OF FLANGE MIN	RAISED FACE DIAMETER	RAISED FACE THICKNESS	HUB DIAMETER	NECK DIAMETER	BOLT CIRCLE DIAMETER	NUMBER OF HOLES	DIAMETER OF HOLES	OVERALL THICKNESS (W.NECK)	OVERALL THICKNESS (BOSSSED)	NOMINAL PIPE SIZE	
Note 4												Note 4			
mm.	(In)	A	B	C	D	E	F	G				J	K	mm.	(In)
650	(26)	660.4	971.6	79.4	749.4	1.6	720.8	666.8	876.3	28	44.4	184.2	184.2	650	(26)
700	(28)	711.2	1035.1	85.8	800.2	1.6	774.8	717.6	939.8	28	44.4	196.9	196.9	700	(28)
750	(30)	762.0	1092.3	92.1	857.3	1.6	827.1	768.4	996.9	28	47.6	209.6	209.6	750	(30)
800	(32)	812.8	1149.4	98.5	914.5	1.6	881.1	819.2	1054.1	28	50.8	222.3	222.3	800	(32)
850	(34)	863.6	1206.8	101.7	965.3	1.6	936.7	871.6	1104.9	28	50.8	231.8	231.8	850	(34)
900	(36)	914.4	1270.1	104.8	1022.4	1.6	990.7	922.4	1168.4	32	53.9	241.4	241.4	900	(36)

CLASS 600

CLASS 600

									DRILLING DATA			LENGTH THROUGH HUB			
NOMINAL PIPE SIZE		OUTSIDE DIAMETER OF PIPE	FLANGE OUTSIDE DIAMETER	THICKNESS OF FLANGE MIN	RAISED FACE DIAMETER	RAISED FACE THICKNESS	HUB DIAMETER	NECK DIAMETER	BOLT CIRCLE DIAMETER	NUMBER OF HOLES	DIAMETER OF HOLES	OVERALL THICKNESS (W.NECK)	OVERALL THICKNESS (BOSSSED)	NOMINAL PIPE SIZE	
Note 4												Note 4			
mm.	(In)	A	B	C	D	E	F	G				J	K	mm.	(In)
650	(26)	660.4	1016.1	108.0	749.4	6.4	747.7	671.5	914.4	28	50.8	222.3	222.3	650	(26)
700	(28)	711.2	1073.2	111.2	800.2	6.4	803.3	724.0	965.2	28	53.9	235.0	235.0	700	(28)
750	(30)	762.0	1130.4	114.4	857.3	6.4	862.1	774.8	1022.3	28	53.9	247.7	247.7	750	(30)
800	(32)	812.8	1193.9	117.5	914.5	6.4	917.6	825.8	1079.5	28	60.3	260.4	260.4	800	(32)
850	(34)	863.6	1244.7	120.7	965.3	6.4	973.2	877.9	1130.3	28	60.3	269.9	269.9	850	(34)
900	(36)	914.4	1314.5	123.9	1022.4	6.4	1031.9	928.7	1193.8	28	66.6	282.8	282.8	900	(36)

- NOTES :- 1. Dimension are in MM
2. Larger sizes available on request
3. Available with or with our raised face

4. Thickness dimensions include raised face when 1.6mm
Thickness dimension does not include raised face when it is 6.4 mm



DIMENSIONAL TOLERANCES OF FORGED FLANGES ANSI B 16.5

Threaded, Slipon, Lapjoint,
Socket Welding & Blind

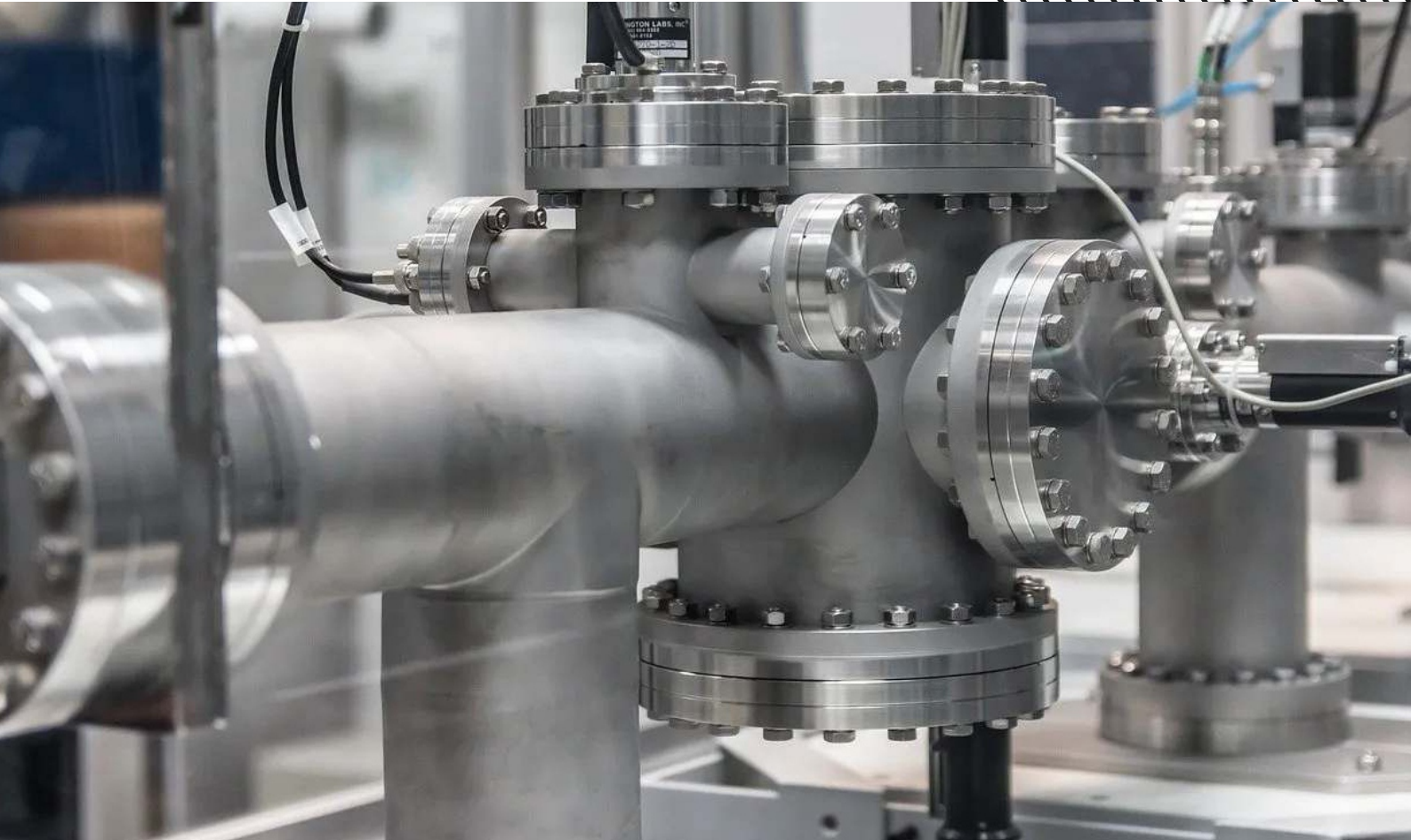
Welding Neck

Outside Diameter	O.D. is 600 or smaller O. D over 600	± 1.6 ± 3.1	Outside Diameter	O.D. is 50 or smaller O. D over 600	± 1.6 ± 3.1
Inside Diameter (bore)	250 and smaller 12 through 450 500 and larger	± 0.7 ± 1.6 ± 3.1	Inside Diameter slip lap joint:	threaded: to standard gauge limits socket-welding: 250 and larger 300 and larger	(bore) $+0.7$ -0.0 $+1.6$ -0.0
Diameter of contact face	1.6 raise face 6.3 raised face: tongue & grooved male & female	± 0.7 ± 0.4	Diameter of counter bore	threaded 250 and smaller 300 and larger	$+0.7$ -0.0 $+1.6$ -0.0
Diameter of hub at base	When E is 600 or smaller When E is over 600	± 1.6 ± 3.1	Outside diameter hub	300 and smaller 350 and larger	$+2.3$ -1.6 ± 3.1
Diameter hub at point of welding	125 and smaller 150 and larger	$+0.7$ ± 0.7 $+4.0$ ± 0.0	Diameter of contact face	1.6 raised face 6.3 raised: tongue & grooved male & female	± 0.7 ± 0.4
Thickness	450 and smaller 500 and larger	$+3.1$ ± 0.0 $+4.7$ ± 0.0	Thickness	450 and smaller 500 and larger	$+3.1$ -0.0 $+4.7$ -0.0
Length through hub	250 and smaller 300 and larger	± 1.6 ± 3.1	Length through hub	250 and smaller 300 and larger	± 1.6 ± 3.1
Drilling	bolt circle bolt hole spacing	± 1.6 ± 0.7	Drilling	bolt circle bolt hole spacing	± 1.6 ± 0.7
	essentriecity with respect to bore	0.7 max		essentriecity with respect to bore	0.7 max

ANSI FLANGES WEIGHT (KGS)

Nom. Pipe Size	150#			300#			600#			900#			1500#			2500#		
	WN	S/O	B/K	WN	S/O	B/K	WN	S/O	B/K	WN	S/O	B/K	WN	S/O	B/K	WN	S/O	B/K
1/2"	0.7	0.4	0.5	0.8	0.7	0.8	0.9	0.8	0.8	2.1	1.8	1.9	2.1	1.8	1.9	3.2	3	3
3/4"	0.8	0.7	0.8	1.4	1.2	1.2	1.6	1.4	1.4	2.7	2.4	2.7	2.7	2.4	2.7	3.6	4	4.5
1"	1.1	0.8	0.9	1.7	1.4	1.5	1.9	1.7	1.7	3.9	3.6	3.7	3.9	3.6	3.7	5.4	5	5
1.1/4"	1.5	1.2	1.3	2.2	1.8	2	2.6	2.1	2.4	4.5	4.1	4.3	4.5	4.1	4.3	7.8	8	8
1.1/2"	1.8	1.4	1.6	3.2	2.7	2.9	3.6	3.1	3.4	6.2	5.4	5.9	6.2	5.4	5.9	11.5	11	11
2"	2.7	2.2	2.6	3.6	3.2	3.5	4.7	3.9	4.4	11.3	10.5	11.3	11.3	10.5	11.3	19	17	17
2.1/2"	4.4	3.5	4.1	5.4	4.5	5.3	4.8	5.4	6.8	16.3	15.8	16	16.3	15.8	16	24	25	25
3"	5.2	3.8	5.1	7.3	5.9	7.2	8.7	7.3	8.9	15	12.3	16.8	21	21.5	19.5	42.6	38	39
3.1/2"	6.4	5	6.5	8.9	7.5	9.2	11.6	9	12.7	-	-	-	-	-	-	-	-	-
4"	7.5	5.6	7.5	11.8	10	12.2	18.4	16.5	18.6	24	23.2	24.5	31.8	31	33	64	58	60
5"	9.2	6.5	9.2	16	12.5	16	31	28.5	30.8	38.5	37.5	39.5	59	58.8	60	111	95	101
6"	11.0	8.1	11.8	20.2	16.5	22	37	36.2	38	50	48.3	51.5	72	74	75	171	146	156
8"	18.4	13	20.4	31.2	25.5	36	54.5	51.5	62.2	85	75	89	124	112	125	261	220	242
10"	25.5	18.4	31	44.3	35	55	98.5	76.2	102	123	110	131	207	184	215	485	420	465
12"	37	28.5	47	63.5	52	82.5	105	89.5	132	168	146	187	306	264	316	698	590	665
14"	51	37.5	60	86	73	108	150	102	158	198	172	224	416	-	-	-	-	-
16"	61.5	44.5	61	112	88	139	177	150	225	225	192	259	567	-	-	-	-	-
18"	71.5	54	93	141	115	178	228	180	285	318	272	383	736	-	-	-	-	-
20"	85	72	127	173	139	228	285	231	365	376	330	482	929	-	-	-	-	-
24"	119	95	190	248	212	350	372	330	532	680	632	905	1504	-	-	-	-	-





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