MAHAVIR
Forge & Fittings
(An ISO 9001:2008 Certified Co.)

Consummate Services to the Global Humanity

Website: www.mahavirforgefitting.com
E-mail : mahavirforge6515@ymail.com
info@mahavirforgefitting.com

Company Profile

At Mahavir Forge & Fittings we are totally committed to Excellence.

Excellence in the field of Manufacturing & Exporting of, Stainless Steel & Alloy Steel, Flanges & Forged Fittings. Besides Manufacturing, we are the leading stock holders of Pipes, Plates, Sheets, Rods, Pipe Fittings, Fastners, etc. We are an **ISO 9001 : 2008** certified company.

Over 15 years of experience in the field of Ferrous & Non Ferrous Industry prompted us to look into the export market with renewed vigor. What makes us tick and what is our common hallmark is an eye for quality and a true sense for commitment & service. We will be glad if you could register us in your approved vendor list.

ROHS CERTIFICATION PVT. LTD.

Certificate No.
12131018
Date of Issued
17/01/2013
1st Surveillance audit
16/01/2014
2nd Surveillance audit
16/01/2015
Date Certificate Expires
16/01/2016

Certificate of Registration

Awarded to

MAHAVIR FORGE & FITTINGS

51, DHOBI BUILDING , SHOP NO. 15, 3rd KUMBHARWADA,
MUMBAI – 400004, MAHARASHTRA.

It is certified that Quality Management System of Oranization has been audited and found to be in accordance with the requirement of the Quality Management system standard :

ISO 9001:2008

For the scope of activities described below:

MANUFACTURER, SUPPLIER AND EXPORTER OF FLANGES & FORGE FITTINGS

The validity of this certificate can be checked asking by phone or email to ROHS or accessing the website www.rohscertification.co.in Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by ROHS certification Pvt. Ltd.

On Behalf ROHS Certification Pvt. Ltd.

Managing Director

F-25, IIIrd Floor, Shaheen Bagh, Abul Fazal - II, Okhla, New Delhi - 110025

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Quality Policy

Strict quality assurance system is being followed in all our departments and Total Quality Management is applied to streamline all the procedures and practices in operation to achieve high standard of efficiency. Continuous efforts are being made for improvement of materials technology and equipments to give best quality products at the most affordable prices. The quality assurance dept. overseas all important quality functions and performs the following activities.

1) The system controls the quality of all incoming materials as per the raw material test certificate of the material. Randomly checking in each size for chemical and physical properties at Government approved laboratory.
2) During forming pressing forging and heat treatment process control system outlines inprocess checks and controls to be followed during heat.
3) Suitables fixtures and templates are used to maintain dimensional accuracy necessary guages and callopers are calibrated periodically to maintain their accuracy.
4) Fittings are supplied with test certificate as per approved DAC. Test certificates incorporate chemical composition, mechanical properties hardness details of heat treatment, Ultrasonic test, Radiography test and stamping details.

Application

- PHARMACY INDUSTRIES
- CHEMICAL, FERTILIZERS
- FOOD INDUSTRIES
- PAPER & PULP MILLS
- OIL & GAS INDUSTRIES
- SUGAR INDUSTRIES
- TEXTILE INDUSTRIES
- WATER PIPING SYSTEMS, ETC
- CEMENT INDUSTRIES
- BEVERAGE INDUSTRIES
- REFINERY PLANTS
- ENGINEERING

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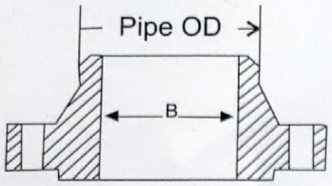
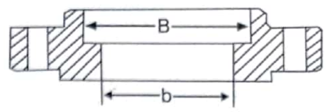
WELDING NECK FLANGE



B - to be specified by purchaser

SOCKET NECK FLANGE



B - Dia of Bore as per size
b - to be specified by purchaser

WELDING NECK FLANGE BORE (B)

Nominal Pipe Size	Outside Diam	Sch. 10	Sch. 20	Sch. 30	Sch. Std.	Sch. 40	Sch. XS	Sch. 80	Sch. 120	Sch. 160	Double Extra Strong
15	21.33	17.1	-	-	15.7	15.7	13.8	13.8	-	11.7	6.4
20	26.67	22.5	-	-	20.8	20.8	18.8	18.8	-	15.5	11.0
25	33.40	27.9	-	-	26.6	25.4	24.3	24.3	-	20.7	15.2
32	42.16	36.6	-	-	35.0	35.0	32.4	32.4	-	29.4	22.7
40	48.26	42.7	-	-	40.8	40.8	38.1	38.1	-	33.7	27.9
50	60.31	54.8	-	-	52.3	52.3	49.2	49.2	-	42.8	38.1
65	73.02	66.9	-	-	62.4	62.4	59.0	59.0	-	53.9	44.9
80	88.90	82.8	-	-	77.9	77.9	73.6	73.6	-	66.6	58.4
100	114.30	108.2	-	-	102.2	102.2	97.1	97.1	92.0	87.3	80.0
125	141.30	134.5	-	-	128.1	128.1	122.2	122.2	115.9	109.5	103.2
150	168.27	161.5	-	-	154.0	154.0	146.3	146.3	139.7	131.7	124.3
200	219.07	211.6	206.2	204.9	202.7	202.7	193.6	193.6	182.5	173.0	174.6
250	273.05	264.7	260.3	257.4	254.5	254.5	247.6	242.8	230.1	215.9	222.2
300	323.85	314.7	311.1	307.0	304.8	303.2	298.4	288.8	273.0	257.2	273.0
350	355.60	346.2	337.8	336.5	336.5	333.3	330.2	317.5	300.0	284.1	-
400	406.40	396.7	390.3	387.3	387.3	381.0	381.0	363.5	344.5	325.4	-
450	457.20	447.5	441.1	434.9	438.1	428.6	431.8	409.5	387.3	366.7	-
500	508.00	497.3	488.9	482.6	488.9	477.8	482.6	455.6	431.8	407.9	-
600	609.60	596.9	590.5	581.0	590.5	574.6	584.2	547.6	517.5	490.5	-

All dimensions are in Millimeters

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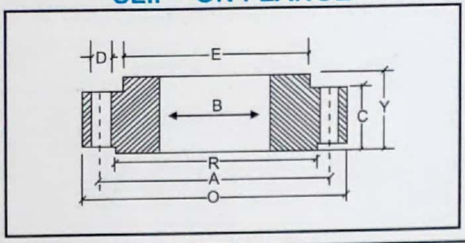
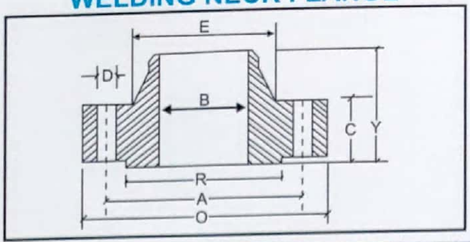
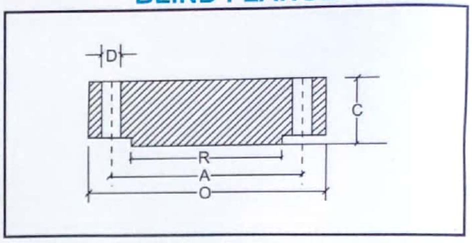
SLIP - ON FLANGE



WELDING NECK FLANGE



BLIND FLANGE



DIMENSIONS OF CLASS 150 FLANGES AS PER ANSI B 16.5

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket
								S/O & S/W	W/N	L/J	S/O & S/W	L/J		
(MM)	(INCH.)	O	A	D		C	E	Y	Y	Y	B	B	R	F
15	1/2	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
20	3/4	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
25	1	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
32	1 1/4	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
40	1 1/2	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
50	2	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
65	2 1/2	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
80	3	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
100	4	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
125	5	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
150	6	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
200	8	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
250	10	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
300	12	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
350	14	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
400	16	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
450	18	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
500	20	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
600	24	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

DIMENSIONS OF CLASS 300 FLANGES AS PER ANSI B 16.5

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket
								S/O & S/W	W/N	L/J	S/O & S/W	L/J		
(MM)	(INCH.)	O	A	D		C	E	Y	Y	Y	B	B	R	F
15	1/2	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
20	3/4	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
25	1	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
32	1 1/4	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
40	1 1/2	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
50	2	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
65	2 1/2	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
80	3	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
100	4	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
125	5	279.4	234.9	22.2	8	34.9	177.8	50.8	98.4	50.8	143.8	144.5	185.7	-
150	6	317.5	269.9	22.2	12	36.5	206.4	52.4	98.4	52.4	170.7	171.4	215.9	-
200	8	381.0	330.2	25.4	12	41.3	260.3	61.9	111.1	61.9	221.5	222.2	269.9	-
250	10	444.5	387.3	28.6	16	47.6	320.7	66.7	117.5	95.2	276.3	277.4	323.8	-
300	12	520.7	450.8	31.7	16	50.8	374.6	73.0	130.2	101.6	327.1	328.2	381.0	-
350	14	584.2	514.3	31.7	20	54.0	425.4	76.2	142.9	111.1	359.1	360.2	412.7	-
400	16	647.7	571.5	34.9	20	57.2	482.6	82.5	146.0	120.6	410.5	411.2	469.9	-
450	18	711.2	628.5	34.9	24	60.3	533.4	88.9	158.7	130.2	461.8	462.3	533.4	-
500	20	774.7	685.8	34.9	24	63.5	587.4	95.2	161.9	139.7	513.1	514.3	584.2	-
600	24	914.4	812.8	41.3	24	69.8	701.7	106.4	168.3	152.4	615.9	615.9	692.1	-

1) All Dimensions are in Millimeters 2) Welding neck flange bore (B) see page No.1 to be specified by purchaser.
3) Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, which is included in Thickness (C) and Length through Hub (Y).

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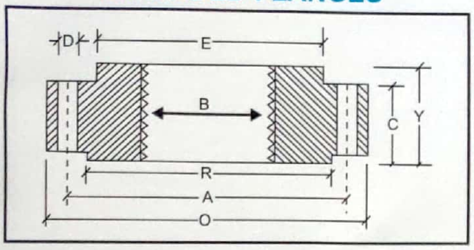
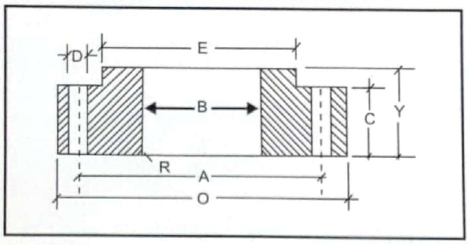
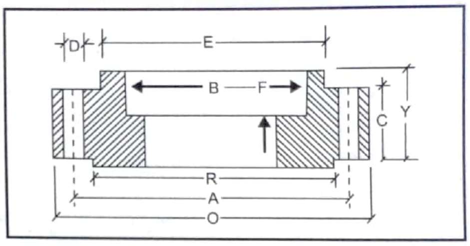
THREADED FLANGES



LAP JOINT FLANGES



SOCKET WELD FLANGES



DIMENSIONS OF CLASS 600 FLANGES AS PER ANSI B 16.5

Nominal Pipe Size	Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket
							S/O & S/W	W/N	L/J	S/O & S/W	L/J		
	O	A	D		C	E	Y	Y	Y	B	B	R	F
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
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
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
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
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
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
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
80	209.5	168.3	22.2	8	31.8	117.5	46.0	82.5	45.9	90.7	91.4	127.0	-
100	273.0	215.9	25.4	8	38.1	152.4	54.0	101.6	53.8	116.1	116.8	157.2	-
125	330.2	266.7	28.6	8	44.4	188.9	60.3	114.3	60.4	143.8	141.5	185.7	-
150	355.6	292.1	28.6	12	47.6	222.2	66.7	117.5	66.5	170.7	171.4	215.9	-
200	419.1	349.2	31.7	12	55.6	273.0	76.2	133.3	76.2	221.5	222.2	269.9	-
250	508.0	431.8	34.9	16	63.5	342.9	85.7	152.4	111.2	276.3	277.3	323.8	-
300	558.8	488.9	34.9	20	66.7	400.0	92.1	155.6	117.3	327.1	328.1	381.0	-
350	603.2	527.0	38.1	20	69.9	431.8	93.7	165.1	127.0	359.1	360.1	412.7	-
400	685.8	603.2	41.3	20	76.2	495.3	106.4	177.8	139.7	410.5	411.2	469.9	-
450	742.9	654.0	44.4	20	82.6	546.1	117.5	184.1	152.4	461.8	462.2	533.4	-
500	812.8	723.9	44.4	24	88.9	609.6	127.0	190.5	165.1	513.1	514.3	584.2	-
600	939.8	838.2	50.8	24	101.6	717.5	139.7	203.2	184.1	615.9	615.9	692.1	-

DIMENSIONS OF CLASS 900 FLANGES AS PER ANSI B 16.5

Nominal Pipe Size	Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket
							S/O & S/W	W/N	L/J	S/O & S/W	L/J		
	O	A	D		C	E	Y	Y	Y	B	B	R	F
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
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
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
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
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
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
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
80	241.3	190.5	25.4	8	38.1	127.0	53.9	101.6	53.8	90.7	91.4	127.0	-
100	292.1	234.9	31.7	8	44.4	158.7	69.8	114.3	69.8	116.0	116.8	157.1	-
125	349.2	279.4	35.0	8	50.8	190.5	79.3	127.0	79.2	143.7	144.5	185.7	-
150	381.0	317.5	31.7	12	55.6	234.9	85.8	139.7	85.8	170.6	171.4	215.9	-
200	469.9	393.7	38.1	12	63.5	298.4	101.6	162.0	114.3	221.4	222.2	269.3	-
250	546.1	469.9	38.1	16	69.8	368.3	107.9	184.1	127.0	276.3	277.3	323.8	-
300	609.6	533.4	38.1	20	79.3	419.1	117.4	200.0	142.7	327.1	328.1	381.0	-

1) All Dimensions are in Millimeters 2) Welding neck flange bore (B) see page No.1 to be specified by purchaser.
3) Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, which is included in Thickness (C) and Length through Hub (Y).

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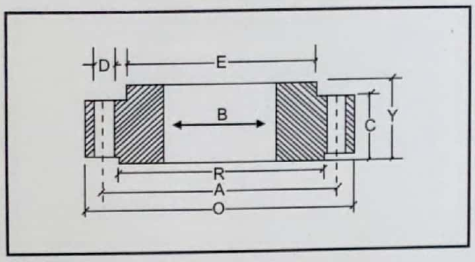
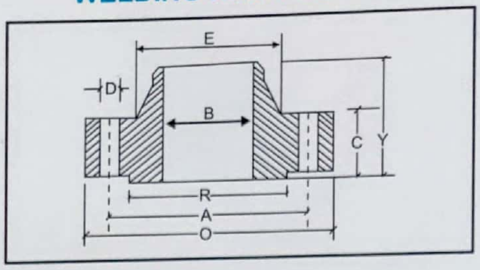
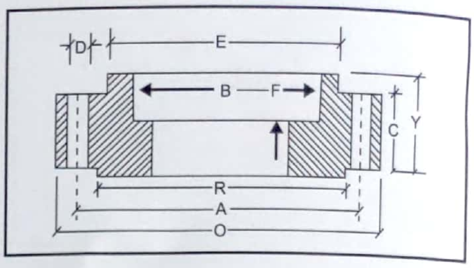
SLIP - ON FLANGE



WELDING NECK FLANGE



SOCKET WELD FLANGES



DIMENSIONS OF CLASS 1500 FLANGES AS PER ANSI B 16.5

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket
								S/O & S/W	W/N	L/J	S/O & S/W	L/J		
(MM)	(INCH.)	O	A	D		C	E	Y	Y	Y	B	B	R	F
15	1/2	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
20	3/4	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
25	1	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
32	11/4	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
40	11/2	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
50	2	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
65	21/2	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
80	3	266.7	203.2	31.7	8	47.6	133.3	73.0	117.5	73.0	90.7	91.4	127.0	-
100	4	311.1	241.3	34.9	8	54.0	161.9	90.5	123.0	90.4	116.1	116.8	157.2	-
125	5	374.6	292.1	41.3	8	73.0	196.8	104.8	155.6	104.8	143.8	144.5	185.7	-
150	6	393.7	317.5	38.1	12	82.6	228.6	119.1	171.4	119.1	170.7	171.4	215.9	-
200	8	482.6	393.7	44.4	12	92.1	292.1	142.9	212.7	142.8	221.5	222.2	269.9	-
250	10	584.2	482.6	50.8	12	107.9	368.3	158.7	254.0	177.8	276.3	277.3	323.8	-
300	12	673.1	571.5	54.0	16	123.8	450.8	181.0	282.5	218.9	327.1	328.1	381.0	-

DIMENSIONS OF CLASS 2500 FLANGES AS PER ANSI B 16.5

Nominal Pipe Size		Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Length through Hub			Dia of Bore		Dia of R/F	Depth of Socket
								S/O & S/W	W/N	L/J	S/O & S/W	L/J		
(MM)	(INCH.)	O	A	D		C	E	Y	Y	Y	B	B	R	F
15	1/2	133.3	88.9	22.2	4	30.2	42.9	39.7	73.0	39.7	22.3	22.3	34.9	-
20	3/4	139.7	95.2	22.2	4	31.7	50.8	42.9	79.4	42.9	27.7	27.7	42.9	-
25	1	158.7	107.9	25.4	4	34.9	57.1	47.7	88.9	47.7	34.5	34.5	50.8	-
32	1 1/4	184.1	130.2	28.6	4	38.1	73.0	52.4	95.2	52.4	43.2	43.2	63.5	-
40	1 1/2	203.2	146.0	31.7	4	44.4	79.4	60.3	111.1	60.3	49.5	49.5	73.0	-
50	2	234.9	171.4	28.6	8	50.8	95.2	69.8	127.0	69.8	62.4	62.0	92.1	-
65	2 1/2	266.7	196.8	31.7	8	57.1	114.3	79.4	142.9	79.4	74.7	74.7	104.8	-
80	3	304.8	228.6	34.9	8	66.7	133.3	92.1	168.3	92.1	90.7	90.7	127.0	-
100	4	355.6	273.0	41.3	8	76.2	165.1	107.9	190.5	107.9	116.1	116.1	157.2	-
125	5	419.1	323.8	47.6	8	92.1	203.2	130.0	228.6	130.0	143.8	143.8	185.7	-
150	6	482.6	368.3	54.0	8	107.9	234.9	152.4	273.0	152.4	170.7	170.7	215.9	-
200	8	552.4	438.1	54.0	12	127.0	304.8	177.8	317.5	177.8	221.5	221.5	269.9	-
250	10	673.1	539.7	66.7	12	165.1	374.6	228.6	419.1	228.6	276.3	276.3	323.8	-
300	12	762.0	619.1	73.0	12	184.1	441.3	254.0	463.5	254.0	327.1	327.1	381.0	-

1) All Dimensions are in Millimeters 2) Welding neck flange bore (B) see page No.1 to be specified by purchaser.
3) Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, which is included in Thickness (C) and Length through Hub (Y).

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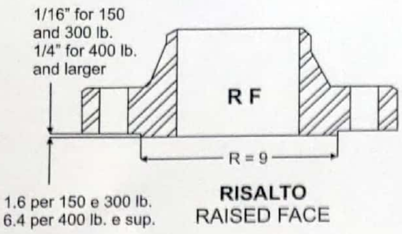
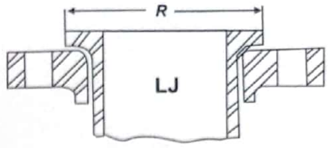
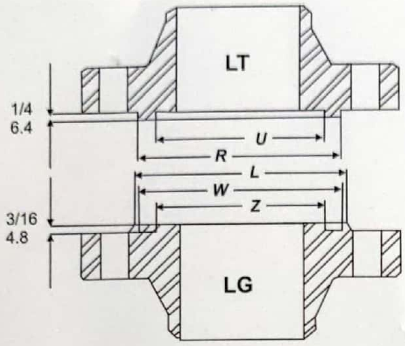
FINITURE FACCE DI CONTATTO
FLANGE FACINGS



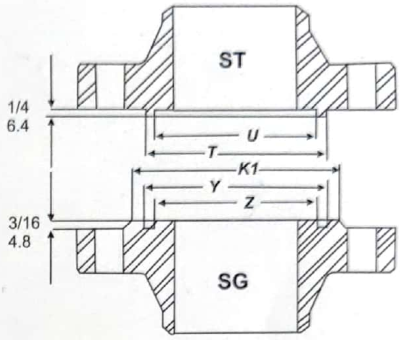
RISALTO
RAISED FACE



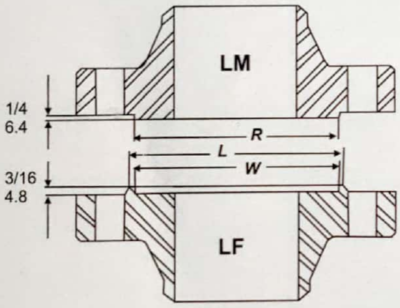
GIUNTO SCORREVOLE
LAP JOINT



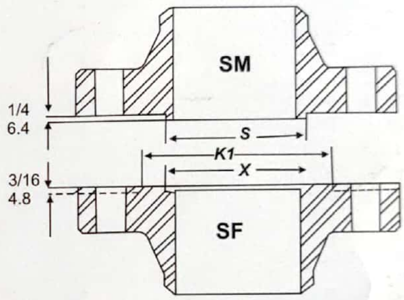
GRADINO E SCANALATURALARGO
LARGE TONGUE AND GROOVE



GRADINO E SCANALATURASTRETTO
SMALL TONGUE AND GROOVE



MASCHIO E FEMMINA LARGO
LARGE MALE AND FEMALE



MASCHIO E FEMMINA STRETTO
SMALL MALE AND FEMALE

Ø	R	S	T	U	W	X	Y	Z		K1	L
½"	34.9	18.3	34.9	25.4	36.5	19.8	36.5	23.8		44.5	46.0
3/4"	42.9	23.8	42.9	33.3	44.4	25.4	44.4	31.7		52.4	54.0
1"	50.8	30.2	47.6	38.1	52.4	31.7	49.2	36.5		57.1	61.9
11/4"	63.5	38.1	57.1	47.6	65.1	39.7	58.8	46.0		66.7	74.6
11/2"	73.0	44.4	63.5	54.0	74.6	46.0	65.1	52.4		73.0	84.1
2	92.1	57.1	82.5	73.0	93.7	58.8	84.1	71.4		92.1	103.2
21/2"	104.8	68.3	95.2	85.7	106.4	69.8	96.8	84.1		104.8	115.9
3"	127.0	84.1	117.5	108.0	128.6	85.7	119.1	106.4		127.0	138.1
4"	157.2	109.5	144.5	131.8	158.8	111.1	146.1	130.2		157.2	168.3
5"	185.7	136.5	173.0	160.3	187.3	138.1	174.6	158.8		185.7	196.9
6"	215.9	161.9	203.2	190.5	217.5	163.5	204.8	188.9		215.9	227.0
8"	269.9	212.7	254.0	238.1	271.5	214.3	255.6	236.5		269.9	281.0
10"	323.8	266.7	304.8	285.7	325.4	268.3	306.4	284.2		323.8	335.0
12"	381.0	317.5	361.9	342.9	382.6	319.1	363.5	341.3		381.0	392.1
14"	412.7	349.2	393.7	374.6	414.3	350.8	395.3	373.1		412.7	423.9
16"	469.9	400.0	447.7	425.4	471.5	401.6	449.3	423.9		469.9	481.0
18"	533.4	450.8	511.2	488.9	535.0	452.4	512.3	487.4		533.4	544.5
20"	584.2	501.6	558.8	533.4	585.8	503.2	560.4	531.8		584.2	595.4
24"	692.1	603.2	666.7	641.2	693.7	604.8	668.3	639.8		692.1	703.3

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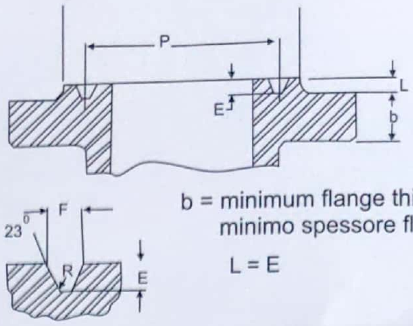
Dimensioni Scanalature per Ring-Joint
Facing Dimensions of Ring-Joint grooves
150-300-400-600-900 lbs



b = minimum flange thickness
minimo spessore flange

L = E

150 lbs

DN (Nominal Pipe Size)		Ring number N° dell'anello	P (Pitch diameter of groove / Diam.medio scanalatura)	F (Width of Groovr / Largh. scanal)	K (Diameter of Raised Face / Diam. risalto)	E (Depth of Groove / Profond. scanal.)	R (Corner Radius / Raggio sul fondo)
½"	Inches mm		- -	- -	- -	- -	- -
¾"	Inches mm		- -	- -	- -	- -	- -
1"	Inches mm	R15	1 7/8 47.6	11/32 8.7	2 1/2 63.5	1/4 6.4	1/32 0.8
1¼"	Inches mm	R17	2 1/4 57.1	11/32 8.7	2 7/8 73.0	1/4 6.4	1/32 0.8
1½"	Inches mm	R19	2 9/16 65.1	11/32 8.7	3 1/4 82.5	1/4 6.4	1/32 0.8
2"	Inches mm	R22	3 1/4 82.5	11/32 8.7	4 101.6	1/4 6.4	1/32 0.8
2½"	Inches mm	R25	4 101.6	11/32 8.7	4 3/4 120.6	1/4 6.4	1/32 0.8
3"	Inches mm	R29	4 1/2 114.3	11/32 8.7	5 1/4 133.3	1/4 6.4	1/32 0.8
3½"	Inches mm	R33	5 3/16 131.8	11/32 8.7	6 1/16 154.0	1/4 6.4	1/32 0.8
4"	Inches mm	R36	5 7/8 149.2	11/32 8.7	6 3/4 171.4	1/4 6.4	1/32 0.8
5"	Inches mm	R40	6 3/4 171.4	11/32 8.7	7 5/8 193.7	1/4 6.4	1/32 0.8
6"	Inches mm	R43	7 5/8 193.7	11/32 8.7	8 5/8 219.1	1/4 6.4	1/32 0.8
8"	Inches mm	R48	9 3/4 247.6	11/32 8.7	10 3/4 273.0	1/4 6.4	1/32 0.8
10"	Inches mm	R52	12 304.8	11/32 8.7	13 330.2	1/4 6.4	1/32 0.8
12"	Inches mm	R56	15 381.0	11/32 8.7	16 406.4	1/4 6.4	1/32 0.8
14"	Inches mm	R59	15 5/8 396.9	11/32 8.7	16 3/4 425.4	1/4 6.4	1/32 0.8
16"	Inches mm	R64	17 7/8 454.0	11/32 8.7	19 482.6	1/4 6.4	1/32 0.8
18"	Inches mm	R68	20 3/8 517.5	11/32 8.7	21 1/2 546.1	1/4 6.4	1/32 0.8
20"	Inches mm	R72	22 558.8	11/32 8.7	23 1/2 596.9	1/4 6.4	1/32 0.8
22"	Inches mm	R80	24 1/4 615.9	11/32 8.7	25 1/2 647.7	1/4 6.4	1/32 0.8
24"	Inches mm	R76	26 1/2 673.1	11/32 8.7	28 711.2	1/4 6.4	1/32 0.8
26"	Inches mm		28 5/8 727.1	13/32 10.3	30 3/4 771.5	5/16 7.9	1/32 0.8
28"	Inches mm		- -	- -	- -	- -	- -
30"	Inches mm		32 7/8 835.0	13/32 10.3	34 5/8 7.9	5/16 7.9	1/32 0.8
32"	Inches mm		- -	- -	- -	- -	
34"	Inches mm		37 939.8	17/32 13.5	38 7/8 987.4	3/8 9.5	
36"	Inches mm		39 1/4 996.9	17/32 13.5	41 1/8 1044.6	3/8 9.5	
42"	Inches mm		46 1168.4	17/32 13.5	47 7/8 1216.0	3/8 9.5	

300-400-600 lbs

Ring number N° dell'anello	P (Pitch diameter of groove / Diam.medio scanalatura)	F (Width of Groovr / Largh. scanal)	K (Diameter of Raised Face / Diam. risalto)	E (Depth of Groove / Profond. scanal.)	R (Corner Radius / Raggio sul fondo)
R11	1 11/32 34.1	9/32 7.1	2 50.8	7/32 5.6	1/32 0.8
R13	1 11/16 42.9	11/32 8.7	2 1/2 63.5	1/4 6.4	1/32 0.8
R16	2 50.8	11/32 8.7	2 3/4 69.8	1/4 6.4	1/32 0.8
R18	2 3/8 60.3	11/32 8.7	3 1/9 79.4	1/4 6.4	1/32 0.8
R20	2 11/16 68.3	11/32 8.7	3 9/16 90.5	1/4 6.4	1/32 0.8
R23	3 1/4 82.5	15/32 11.9	4 1/4 107.9	5/16 7.9	1/32 0.8
R26	4 101.6	15/32 11.9	5 127.0	5/16 7.9	1/32 0.8
R31	4 7/8 123.8	15/32 11.9	5 3/4 146.0	5/16 7.9	1/32 0.8
R34	5 3/16 131.8	15/32 11.9	6 1/4 158.7	5/16 7.9	1/32 0.8
R37	5 7/8 149.2	15/32 11.9	6 7/8 174.6	5/16 7.9	1/32 0.8
R41	7 1/8 181.0	15/32 11.9	8 1/4 209.5	5/16 7.9	1/32 0.8
R45	8 5/16 211.1	15/32 11.9	9 1/2 241.3	5/16 7.9	1/32 0.8
R49	10 5/8 269.9	15/32 11.9	11 7/8 301.6	5/16 7.9	1/32 0.8
R53	12 3/4 323.8	15/32 11.9	14 355.6	5/16 7.9	1/32 0.8
R57	15 381.0	15/32 11.9	16 1/4 412.7	5/16 7.9	1/32 0.8
R61	16 1/2 419.1	15/32 11.9	18 457.2	5/16 7.9	1/32 0.8
R65	18 1/2 469.9	15/32 11.9	20 508.0	5/16 7.9	1/32 0.8
R69	21 533.4	15/32 11.9	22 5/8 574.1	5/16 7.9	1/32 0.8
R73	23 584.2	17/32 13.5	25 635.0	3/8 9.5	1/15 1.6
R81	25 635.0	19/32 15.1	27 685.8	7/16 11.1	1/15 1.6
R87	27 1/4 692.1	2 1/32 16.7	29 1/2 749.3	7/16 11.1	1/15 1.6
R93	29 749.3	25/32 19.8	31 7/8 809.6	1/2 12.7	1/15 1.6
R94	31 1/2 800.1	2 5/32 19.8	33 7/8 860.4	1/2 12.7	1/15 1.6
R95	33 3/4 857.2	25/32 19.8	36 1/8 917.6	1/2 12.7	1/15 1.6
R96	36 914.4	29/32 23.0	38 3/4 984.2	9/16 14.3	1/15 1.6
R97	38 965.2	29/32 23.0	40 3/4 1035	9/16 14.3	1/15 1.6
R98	40 1/4 1022.3	29/32 23.0	43 1092.2	9/16 14.3	1/15 1.6
	47 1193.8	1 1/16 27.0	50 3/16 1274.7	5/8 15.9	

900 lbs

DN (Nominal Pipe Size)		Ring number N° dell'anello	P (Pitch diameter of groove / Diam.medio scanalatura)	F (Width of Groovr / Largh. scanal)	K (Diameter of Raised Face / Diam. risalto)	E (Depth of Groove / Profond. scanal.)	R (Corner Radius / Raggio sul fondo)
½"	Inches mm	R12	1 9/16 39.7	11/32 8.7	2 3/8 60.3	1/4 6.4	1/32 0.8
¾"	Inches mm	R14	1 3/4 44.4	11/32 8.7	2 5/8 66.7	1/4 6.4	1/32 0.8
1"	Inches mm	R16	2 50.8	11/32 8.7	2 13/16 71.4	1/4 6.4	1/32 0.8
1¼"	Inches mm	R18	2 3/8 60.3	11/32 8.7	2 3/16 81.0	1/4 6.4	1/32 0.8
1½"	Inches mm	R20	2 11/16 68.3	11/32 8.7	3 5/8 92.1	1/4 6.4	1/32 0.8
2"	Inches mm	R24	3 3/4 95.2	15/32 11.9	4 7/8 123.8	5/16 7.9	1/32 0.8
2½"	Inches mm	R27	4 1/4 107.9	15/32 11.9	5 3/8 136.5	5/16 7.9	1/32 0.8
3"	Inches mm	R31	4 7/8 123.8	15/32 11.9	6 1/8 155.6	5/16 7.9	1/32 0.8
4"	Inches mm	R37	5 7/8 149.2	15/32 11.9	7 1/8 181.0	5/16 7.9	1/32 0.8
5"	Inches mm	R41	5 7/8 181.0	15/32 11.9	8 1/2 215.9	5/16 7.9	1/32 0.8
6"	Inches mm	R45	8 5/16 211.1	15/32 11.9	9 1/2 241.3	5/16 7.9	1/32 0.8
8"	Inches mm	R49	10 5/8 269.9	15/32 11.9	12 1/8 308.0	5/16 7.9	1/32 0.8
10"	Inches mm	R53	12 3/4 323.8	15/32 11.9	14 1/4 361.9	5/16 7.9	1/32 0.8
12"	Inches mm	R57	15 381.0	15/32 11.9	16 1/2 419.1	5/16 7.9	1/32 0.8
14"	Inches mm	R62	16 1/2 419.1	21/32 16.7	18 3/8 466.7	7/16 11.1	1/16 1.6
16"	Inches mm	R66	18 1/2 469.9	21/32 16.7	20 5/8 523.9	7/16 11.1	1/16 1.6
18"	Inches mm	R70	21 533.4	25/32 19.8	23 3/8 583.7	1/2 12.7	1/16 1.6
20"	Inches mm	R74	23 584.2	25/32 19.8	25 1/2 647.7	1/2 12.7	1/16 1.6
24"	Inches mm	R78	27 1/4 692.1	1 1/16 27.0	30 3/8 771.5	5/8 15.9	3/32 2.4
26"	Inches mm	R100	29 1/2 749.3	1 3/16 30.2	32 3/4 831.9	11/16 17.5	3/32 2.4
28"	Inches mm	R101	31 1/2 800.1	1 5/16 33.3	35 889.0	11/16 17.5	3/32 2.4
30"	Inches mm	R102	33 3/4 857.2	1 5/16 33.3	37 1/4 946.2	11/16 17.5	3/32 2.4
32"	Inches mm	R103	36 914.4	1 5/16 33.3	39 1/2 1003.3	11/16 17.5	3/32 2.4
34"	Inches mm	R104	38 965.2	1 7/16 36.5	42 1066.8	13/16 20.6	3/32 2.4
36"	Inches mm	R105	40 1/4 1022.3	1 7/16 36.5	44 1/4 1124.0	13/16 20.6	3/32 2.4

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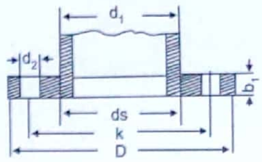
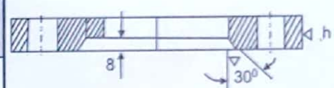
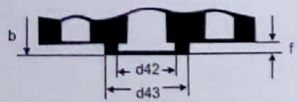
DIN 2576
Loose Flanges, Slip-on type for Brasing or Welding nominal pressure 10

Pipe		Flange				Bolts				Weight of One Flange (7.85 Kg./dm³)kg
NW	d_1	d_s	D	b_1	k	Number	Thread		d_2	
10	14 17.2*)	14.5 17.7	90	14	60	4	M 12	(½")	14	0.613 0.605
15	20 21.3*)	20.5 21.8	95	14	65	4	M 12	(½")	14	0.675 0.669
20	25 26.9*)	25.5 27.4	105	16	75	4	M 12	(½")	14	0.947 0.936
25	30 33.7*)	30.5 34.2	115	16	85	4	M 12	(½")	14	1.14 1.11
32	38 42.4*)	38.5 42.9	140	16	100	4	M 16	(5/8")	18	1.66 1.62
40	44.5 48.3*)	45 48.8	150	16	110	4	M 16	(5/8")	18	1.89 1.86
50	57 60.3*)	57.5 60.8	165	18	125	4	M 16	(5/8")	18	2.51 2.47
65	76.1*)	76.6	185	18	145	4	M 16	(5/8")	18	3.00
80	88.9*)	89.4	200	20	160	4	M 16	(5/8")	18	3.79
100	108 114.3*)	108.5 114.8	220	20	180	8	M 16	(5/8")	18	4.20 4.03
125	133 139.7*)	133.5 140.2	250	22	210	8	M 16	(5/8")	18	5.71 5.46
150	159 168.3*)	159.5 168.8	285	22	240	8	M 20	(3/4")	23	6.72 6.57
175	191 193.7*)	192 194.7	315	24	270	8	M 20	(3/4")	23	8.60 8.45
200	216 219.1*)	217 220.1	340	24	295	8	M 20	(3/4")	23	9.50 9.31
250	267 273*)	268 274	395	26	350	12	M 20	(3/4")	23	12.5 11.9
300	318 323.9*)	319 324.9	445	26	400	12	M 20	(3/4")	23	14.4 13.8
350	355.6*) 368	356.6 369	505	28	460	18	M 20	(3/4")	23	20.6 19.0
400	406.4*) 419	407.4 420	565	32	515	16	M 24	(7/8")	27	27.9 25.9
500	508*) 521	509 522	670	38	620	20	M 24	(7/8")	27	37.9 41.1

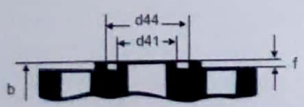




FLANGE FACINGS TONGUE AND GROOVE, NOMINAL PRESSURE, 10 TO 100 ACORDING TO DIN 2512



TONGUE



GROOVE

Nominal Pipe Size	Tongue	Groove					Nominal Pipe Size	Tongue		Groove			
	d_{42} +0.5	d_{43} -0.5	f_1 +0.5	d_{41} -0.5	d_{44} +0.5	f_2 -0.5		d_{42} +0.5	d_{43} -0.5	f_1 +0.5	d_{44} -0.5	d_{44} +0.5	f_2 -0.5
10	24	34	4	23	35	3	175	213	233	4.5	212	234	3.5
15	29	39	4	28	40	3	200	239	259	4.5	238	260	3.5
20	36	50	4	35	51	3	250	292	312	4.5	291	313	3.5
25	47	57	4	42	58	3	300	343	363	4.5	342	364	3.5
32	51	65	4	50	66	3	350	395	421	5	394	422	4
40	61	75	4	60	76	3	400	447	473	5	446	474	4
50	73	87	4	72	88	3	500	549	575	5	548	576	4
65	95	109	4	94	110	3	600	649	675	5	648	676	4
80	106	120	4	105	121	3	700	751	777	5	750	778	4
100	129	149	4.5	128	150	3.5	800	856	882	5	855	883	4
125	155	175	4.5	154	176	3.5	900	961	987	5	960	988	4
150	183	203	4.5	182	204	3.5	1000	1061	1091	6	1060	1092	5

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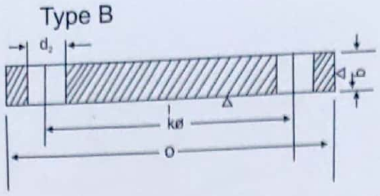
Type B



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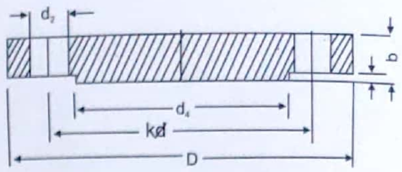
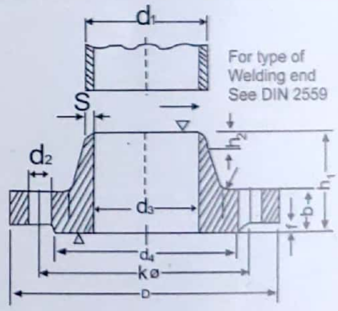


DIN 2527

	NW	D	Flange b	k	Raised face d_4	f	No.	Bolts		Dia of Bolt Hole d_2	Weight of One Flange (7.85 Kg./dm³) Type-B kg	Type-C kg
ND-6	10	75	12	50	35	2	4	M 10	-	11.5	0.38	0.33
	15	80	12	55	40	2	4	M 10	-	11.5	0.44	0.38
	20	90	14	65	50	2	4	M 10	-	11.5	0.65	0.59
	25	100	14	75	60	2	4	M 10	-	11.5	0.82	0.74
	32	120	14	90	70	2	4	M 12	(½")	14	1.17	1.07
	40	130	14	100	80	3	4	M 12	(½")	14	1.39	1.21
	50	140	14	110	90	3	4	M 12	(½")	14	1.62	1.43
	65	160	14	130	110	3	4	M 12	(½")	14	2.44	2.21
	80	190	16	150	128	3	4	M 16	(5/8")	18	3.43	3.09
	100	210	16	170	148	3	4	M 16	(5/8")	18	4.76	4.37
	125	240	18	200	178	3	8	M 16	(5/8")	18	6.11	5.68
	150	265	18	225	202	3	8	M 16	(5/8")	18	7.51	7.02
	175	295	20	255	232	3	8	M 16	(5/8")	18	10.40	9.85
	200	320	20	280	258	3	8	M 16	(5/8")	18	12.30	11.70
	250	375	22	335	312	3	12	M 16	(3/8")	18	18.30	17.60
	300	440	22	395	365	4	12	M 20	(3/4")	23	25.30	24.00
	350	490	22	445	415	4	12	M 20	(3/4")	23	31.60	30.10
	400	540	22	495	465	4	16	M 20	(3/4")	23	38.40	36.40
	500	645	24	600	570	4	20	M 20	(3/4")	23	60.40	58.10



DIN 2632
Welding Neck Flanges for Nominal pressure 10

Pipe NW	d_1	Flange D	b	k	h_1	Neck d_3	s	-s	h_2	Raised face d_4	f	Bolts Number	Thread		d_2	Weight of One Flange (7.85 Kg./dm³)kg
200	216 / 219.1	340	24	295	62	232 / 235	5.9	10	16	268	3	8				11.3
250	267 / 273	395	26	350	68	285 / 292	6.3	12	16	320	3					14.7
300	318 / 323.9	445	26	400	68	335 / 344	7.1	12	16	370	4	12	M 20	(3/4")	23	17.6
350	355.6 / 368	505	26	460	68	385	7.1	12	16	430	4					21.4
400	406.4 / 419	565	26	515	72	440	7.1	12	16	482	4	16				26.1
500	508 / 521	670	28	620	75	542	7.1	12	16	585	4		M 24	(7/8")	27	34.7
600	609.6 / 622	780	28	725	80	642	7.1	12	18	685	5	20	M 27	(1")	30	42.2

Note : For nominal sizes 10 upto 175 see DIN - 2633.

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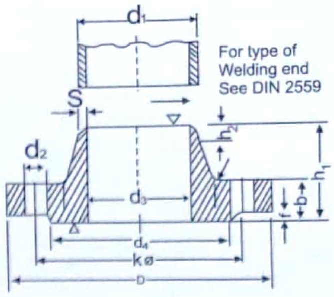

DIN 2633
Welding Neck Flanges for Nominal pressure 16

Pipe		Flange				Neck						Bolts				Weight of One Flange (7.85 Kg./dm³)kg
NW	d_1	D	b	k	h_1	d_3	s	r	h_2	d_4	f	Number	Thread		d_2	
10	14 / 17.2	90	14	60	35	25 / 28	1.8	4	6	40	2					0.580
15	20 / 21.3	95	14	65	35	30 / 32	2	4	6	45	2		M 12	(½")	14	0.648
20	25 / 26.9	105	16	75	38	38 / 40	2.3	4	6	58	2					0.952
25	30 / 33.7	115	16	85	38	42 / 45	2.6	4	6	68	2	4				1.14
32	38 / 42.4	140	16	100	40	52 / 56	2.6	6	6	78	2					1.69
40	44.5 / 48.3	150	16	110	42	60 / 64	2.6	6	7	88	3					1.86
50	57 / 60.3	165	18	125	45	72 / 75	2.9	6	8	102	3					2.53
65	76.1	185	18	145	45	90	2.9	6	10	122	3					3.06
80	88.9	200	20	160	50	105	3.2	8	10	138	3	4*/8	M 16	(5/8*)	18	3.70
100	108 / 114.3	220	20	180	52	125 / 131	3.6	8	12	158	3					4.62
125	133 / 139.7	250	22	210	55	150 / 156	4	8	12	188	3	8				6.30
150	159 / 168.3	285	22	240	55	175 / 184	4.5	10	12	212	3		M 20	(3/4")	23	11.0
175	191 / 193.7	315	24	270	60	208 / 210	5.4	10	12	242	3	8				10.0
200	216 / 219.1	340	24	295	62	232 / 235	5.9	10	16	268	3		M 20	(3/4")	23	7.5
250	267 / 273	405	26	355	70	285 / 292	6.3	12	16	320	3	12				15.6
300	318 / 323.9	460	28	410	78	338 / 344	7.1	12	16	378	4		M 24	(7/8")	27	22.0
350	355.6 / 368	520	30	470	82	390	8	12	16	438	4	16				28.7
400	406.4 / 419	580	32	525	85	445	8	12	16	490	4		M 27	(1")	30	36.3
500	508 / 521	715	34	650	90	548	8	12	16	610	4	20	M 30	(1 1/8")	33	59.3
600	609.6 / 622	840	36	770	95	652	8.8	12	18	725	5		M 33	(1 1/4")	36	73.4
700	711.2 / 720	910	36	840	100	755	8.8	12	18	795	5	24				75.0
800	812.8 / 820	1025	38	950	105	855	10	12	20	900	5		M 36	(1 3/8")	39	99.0
900	914.4 / 920	1125	40	1050	110	955	10	12	20	1000	5	28				119
1000	1016 / 1020	1255	42	1170	120	1058	10	16	22	1115	5		M 39	(1 1/2")	42	159

* 4 bolts for ND 10 (nominal pressure) (the order than reeds welding neck flange 80/88.9 ND 10 DIN 2633)

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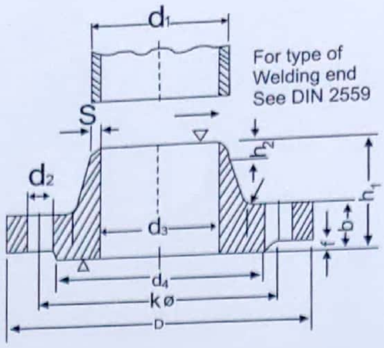

DIN 2635
Welding Neck Flanges for Nominal pressure 40

Pipe		Flange				Neck				Raised face		Bolts				Weight of One Flange (7.85 Kg./dm³)kg
NW	d_1	D	b	k	h_1	d_3	s	r	h_2	d_4	f	No.	Thread		d_2	
10	14 / 17.2	90	16	60	35	25 / 28	1.8	4	6	40	2					0.661
15	20 / 21.3	95	16	65	38	30 / 32	2	4	6	45	2					0.746
20	25 / 26.9	105	18	75	40	38 / 40	2.3	4	6	58	2		M 12	(½")	14	1.06
25	30 / 33.7	115	18	85	40	42 / 46	2.6	4	6	68	2	4				1.29
32	38 / 42.4	140	18	100	42	52 / 56	2.6	6	6	78	2					1.88
40	44.5 / 48.3	150	18	110	45	60 / 64	2.6	6	7	88	3					2.33
50	57 / 60.3	165	20	125	48	72 / 75	2.9	6	8	102	3		M 16	(5/8")	18	2.82
65	76.1	185	22	145	52	90	2.9	6	10	122	3					3.74
80	88.9	200	24	160	58	105	3.2	8	12	138	3					4.75
100	108 / 114.3	235	24	190	65	128 / 134	3.6	8	12	162	3	8	M 20	(3/4")	23	6.52
125	133 / 139.7	270	26	220	68	155 / 162	4	8	12	188	3	8	M 24	(7/8")	27	9.07
150	159 / 168.3	300	28	250	75	182 / 192	4.5	10	12	218	3					11.8
175	191 / 193.7	350	32	295	82	215 / 218	5.6	10	15	260	3					18.2
200	216 / 219.1	375	34	320	88	240 / 244	6.3	10	16	285	3	12	M 27	(1")	30	21.5
250	267 / 273	450	38	385	105	298 / 306	7.1	12	18	345	3					34.9
300	318 / 323.9	515	42	450	115	352 / 362	8	12	18	410	4		M 30	($1^1/8$")	33	49.7
350	355.6 / 368	580	46	510	125	408	8.8	12	20	460	4	16	M 33	($1^1/4$")	36	68.1
400	406.4 / 419	660	50	585	135	462	11	12	20	535	4		M 36	($1^3/8$")	39	96.5
500	508 / 521	755	52	670	140	562	14.2	12	20	615	4	20	M 39	($1^1/2$")	42	117

* 4 bolts for ND 10 (nominal pressure) (the order than reeds welding neck flange 80/88.9 ND 10 DIN 2633)

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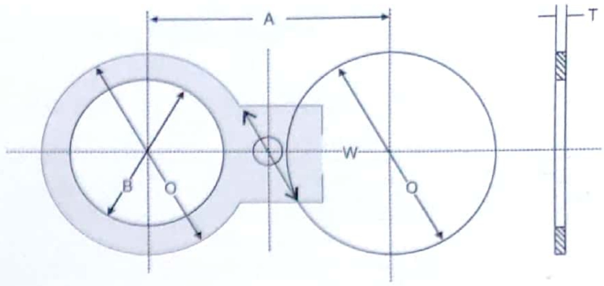
ANSI / ASME B-16.48
Spectacle Flg8 RF & FF, Spacer & Blanks
Spectacle Flanges

150 Class, 300 Class, 600 Class, 900 Class



CLASS 150

NPS	Inside Diameter B	Outside Diameter O	Centerline Dimension A	Thickness T	Web Width W
½"	16	44	60	6	38
3/4"	21	54	70	6	38
1"	27	64	79	6	38
1 1/4"	42	73	88	6	38
1 1/2"	48	83	99	6	38
2"	60	102	121	6	51
2 1/2"	73	121	140	6	51
3"	89	133	152	6	64
3 1/2"	102	159	178	10	64
4"	114	171	190	10	64
5"	141	194	216	10	76
6"	168	219	241	13	76
8"	219	276	298	13	76
10"	273	337	362	16	102
12"	324	406	432	19	102
14"	356	448	476	19	108
16"	406	511	540	22	108
18"	457	546	578	26	114
20"	508	603	635	28	121
24"	610	714	749	32	140

CLASS 300

NPS	Inside Diameter B	Outside Diameter O	Centerline Dimension A	Thickness T	Web Width W
½"	16	51	67	6	38
3/4"	21	64	83	6	38
1"	27	70	89	6	38
1 1/4"	42	79	99	6	38
1 1/2"	48	92	114	6	51
2"	60	108	127	10	51
2 1/2"	73	127	149	10	64
3"	89	146	168	10	64
3 1/2"	102	162	184	13	64
4"	114	178	200	13	64
5"	141	213	235	16	76
6"	168	248	220	16	76
8"	219	305	330	22	89
10"	273	359	387	25	102
12"	324	419	451	28	102
14"	356	483	514	32	121
16"	406	537	572	38	124
18"	457	594	629	41	114
20"	508	651	686	44	121
24"	610	772	813	51	140

CLASS 600

NPS	Inside Diameter B	Outside Diameter O	Centerline Dimension A	Thickness T	Web Width W
½"	16	51	67	6	36
3/4"	21	64	83	6	38
1"	27	70	89	10	57
1 1/4"	37	79	99	10	57
1 1/2"	43	92	114	10	67
2"	55	108	127	10	57
2 1/2"	67	127	149	13	67
3"	83	146	168	13	67
3 1/2"	96	159	184	16	76
4"	108	191	216	16	76
5"	135	238	267	19	86
6"	162	264	292	22	86
8"	212	318	349	28	95
10"	265	397	432	35	105
12"	315	454	489	41	105
14"	346	489	527	44	114
16"	397	562	6000	51	124
18"	448	610	654	54	133
20"	497	678	724	64	133
24"	597	787	838	73	152

CLASS 900

NPS	Inside Diameter B	Outside Diameter O	Centerline Dimension A	Thickness T	Web Width W
½"	16	60	83	6	38
3/4"	21	67	89	6	41
1"	27	76	102	6	57
1 1/4"	37	86	111	10	57
1 1/2"	43	95	124	10	57
2"	55	140	165	13	57
2 1/2"	67	162	190	13	67
3"	83	165	190	16	67
4"	108	203	235	19	78
5"	135	244	279	22	86
6"	162	286	318	25	86
8"	212	356	394	35	95
10"	265	432	470	41	105
12"	315	495	533	48	105
14"	346	518	559	54	114
16"	397	572	616	60	124
18"	448	635	686	67	138
20"	497	695	749	73	133
24"	507	835	902	89	152

Notes
(1) Thickness (dimension t) includes a corrosion allowance of 0.05 inch (1.3 millimeters) for material groups 1.1, 1.7, 1.9, 1.10, and 1, 12, Corrosion allowance is 0.00 inch for material groups 2.1, 2.2, 2.4 and 2.5
(2) Hole size (where required due to bolt spacing) shall be the same as the flanges bolt hole.
(3) The thickness of the web (or the bar) dimension Wt. shall be 0.25 inch (6.4 millimeter) minimum, except when r is less than 0.25 inch Wt. shall equalt.

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DIMENSION OF PIPE FLANGES AS PER TABLE BS - 10

Table D : For Working Steam Pressure upto 50 lbs per sq. inch

Nominal Pipe Size	O.D. of Pipe	Dia of Flange	Dia of Bolt Circle	No. of Bolt	Dia of Bolt	Thickness
½"	21.3	95.3	66.7	4	12.7	4.8
3/4"	26.7	101.6	73.0	4	12.7	4.8
1"	33.4	114.3	82.6	4	12.7	4.8
1.1/4"	42.2	120.7	87.6	4	12.7	6.4
1.1/2"	48.3	133.4	98.4	4	12.7	6.4
2"	60.3	152.4	114.3	4	15.9	7.9
2.1/2"	73.0	165.1	127.0	4	15.9	7.9
3"	88.9	184.2	146.1	4	15.9	9.5
3.1/2"	101.6	203.2	165.1	4	15.9	9.5
4"	114.3	215.9	177.8	4	15.9	9.5
5"	141.3	254.0	209.6	8	15.9	12.7
6"	168.3	279.4	228.6	8	15.9	12.7
7"	190.5	304.8	260.4	8	15.9	12.7
8"	219.1	336.6	292.1	8	15.9	12.7
9"	244.5	368.3	323.9	8	15.9	15.9
10"	273.0	406.4	355.6	8	19.1	15.9
12"	323.0	457.2	406.4	12	19.1	15.9
14"	355.6	527.1	469.9	12	22.2	19.1
16"	406.4	577.9	520.7	12	22.2	19.1
18"	457.2	641.4	584.2	12	22.2	22.2
20"	508.0	704.9	641.4	16	22.5	25.4
24"	609.6	825.5	755.7	16	25.4	28.6

Table E : For Working Steam Pressure 50 lbs and upto 100 lbs per sq. inch

Nominal Pipe Size	Dia of Flange	Dia of Bolt Circle	No. of Bolt	Dia of Bolt	Thickness
½"	95.3	66.7	4	12.7	6.4
3/4"	101.6	73.0	4	12.7	6.4
1"	114.3	82.6	4	12.7	7.1
1.1/4"	120.7	87.3	4	12.7	7.9
1.1/2"	133.4	98.4	4	12.7	8.7
2"	152.4	114.3	4	15.9	9.5
2.1/2"	165.1	127.0	4	15.9	10.3
3"	184.2	146.1	4	15.9	11.1
3.1/2"	203.2	165.1	8	15.9	11.9
4"	215.9	177.8	8	15.9	12.7
5"	254.0	209.6	8	15.9	14.3
6"	279.4	228.6	8	19.1	17.5
7"	304.8	260.4	8	19.1	19.1
8"	336.6	292.1	8	19.1	19.1
9"	368.3	323.9	12	19.1	20.6
10"	406.4	355.6	12	19.1	22.2
12"	457.2	406.4	12	22.2	25.4
14"	527.2	469.9	12	22.2	25.4
16"	577.9	520.7	12	22.2	25.4
18"	641.4	584.2	16	22.2	28.6
20"	704.9	647.4	16	22.2	31.8
24"	825.5	755.7	16	25.4	38.1

Table F : For Working Steam Pressure 100 lbs and upto 150 lbs per sq. inch

Nominal Pipe Size	O.D. of Pipe	Dia of Flange	Dia of Bolt Circle	No. of Bolt	Dia of Bolt	Thickness
½"	21.3	95.3	66.7	4	12.7	9.5
3/4"	26.7	101.6	73.0	4	12.7	9.5
1"	33.4	120.7	87.3	4	15.9	9.5
1.1/4"	42.2	133.4	98.4	4	15.9	12.7
1.1/2"	48.3	139.7	104.8	4	15.9	12.7
2"	60.3	165.1	127.0	4	15.9	15.9
2.1/2"	73.0	184.2	146.1	8	15.9	15.9
3"	88.9	203.2	165.1	8	15.9	15.9
3.1/2"	101.6	215.9	177.8	8	15.9	19.1
4"	114.3	228.6	190.5	8	15.9	19.1
5"	141.3	279.4	235.0	8	19.1	22.2
6"	168.3	304.8	260.4	12	19.1	22.2
7"	190.5	336.6	292.1	12	19.1	22.2
8"	219.1	368.3	323.9	12	19.1	25.4
9"	244.5	406.4	355.6	12	22.2	25.4
10"	273.0	431.8	381.0	12	22.2	25.4
12"	323.0	489.0	438.2	16	22.2	28.6
14"	355.6	552.5	495.3	16	25.4	31.8
16"	406.4	609.6	552.5	20	25.4	31.8
18"	457.2	673.1	609.6	20	28.6	34.9
20"	508.0	736.6	673.1	24	28.6	38.1
24"	609.6	850.9	781.1	24	31.8	41.3

Table H : For Working Steam Pressure 150 lbs and upto 250 lbs per sq. inch

Nominal Pipe Size	Dia of Flange	Dia of Bolt Circle	No. of Bolt	Dia of Bolt	Thickness
½"	114.3	82.6	4	15.9	12.7
3/4"	114.3	82.6	4	15.9	12.7
1"	120.78	87.3	4	15.9	14.3
1.1/4"	133.4	98.4	4	15.9	17.5
1.1/2"	139.7	104.8	4	15.9	17.5
2"	165.1	127.0	4	15.9	19.1
2.1/2"	184.2	146.1	8	15.9	19.1
3"	203.2	165.1	8	15.9	22.2
3.1/2"	215.9	177.8	8	15.9	22.2
4"	228.6	190.5	8	15.9	25.4
5"	279.4	235.0	8	19.1	28.6
6"	304.8	260.4	12	19.1	28.6
7"	336.6	292.1	12	19.1	31.8
8"	368.3	323.9	12	19.1	31.8
9"	406.4	355.6	12	22.2	34.9
10"	431.8	381.0	12	22.2	34.9
12"	489.0	438.2	16	22.2	38.1
14"	552.5	495.3	16	25.4	41.3
16"	609.6	552.5	20	25.4	44.5
18"	673.1	609.6	20	28.6	47.6
20"	736.6	673.1	24	28.6	50.8
24"	850.9	781.1	25	31.8	57.2

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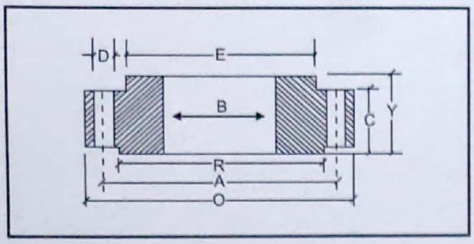
WEIGHTS FOR FLANGES

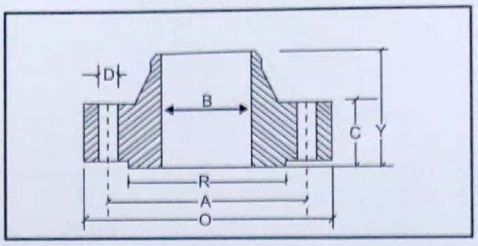
	NB	NB	WNRF	SORF	BLRF	LAPPED	THRD
150#	½"	15	0.7	0.4	0.5	0.4	0.4
	3/4"	20	0.8	0.7	0.8	0.7	0.7
	1"	25	1.1	0.8	0.9	0.8	0.8
	1 1/4"	32	1.5	1.2	1.3	1.1	1.2
	1 1/2"	40	1.8	1.4	1.6	1.4	1.5
	2"	50	2.7	2.2	2.6	2.2	2.3
	2 1/2"	65	4.4	3.5	4.1	3.5	3.7
	3"	80	5.2	3.8	5.1	3.8	4.1
	3 1/2"	90	6.4	5.0	6.5	5.0	5.1
	4"	100	7.5	5.6	7.5	5.6	5.9
	5"	125	9.2	6.5	9.2	6.5	7.0
	6"	150	11	8.1	11.8	8.1	8.4
	8"	200	18.4	13	20.4	13	13
	10"	250	25.5	18.4	31	18.4	18
	12"	300	37	28.5	47	28.5	29
	14"	350	51	37.5	60	41.5	39
	16"	400	61.5	44.5	81	53	47
	18"	450	71.5	54	93	59	57
	20"	500	85	72	127	74	76
	24"	600	119	95	190	99	97
300#	½"	15	0.8	0.7	0.8	0.7	0.7
	3/4"	20	1.4	1.2	1.2	1.2	1.2
	1"	25	1.7	1.4	1.5	1.4	1.4
	1 1/4"	32	2.2	1.8	2.0	1.8	1.9
	1 1/2"	40	3.2	2.7	2.9	2.7	2.8
	2"	50	3.6	3.2	3.5	3.2	3.3
	2 1/2"	65	5.4	4.5	5.3	4.5	4.6
	3"	80	7.3	5.9	7.2	5.9	6.3
	3 1/2"	90	8.9	7.5	9.2	7.5	7.8
	4"	100	11.8	10	12.2	10	10.2
	5"	125	16	12.5	16	12.5	12.9
	6"	150	20.2	16.5	22	16.5	16.8
	8"	200	31.2	25.5	36	25.5	26
	10"	250	44.3	35	55	35	37.5
	12"	300	63.5	52	82.5	62	53
	14"	350	86	73	108	86	73
	16"	400	112	88	139	113	88
	18"	450	141	115	178	134	115
	20"	500	173	139	228	167	139
	24"	600	249	212	350	240	212
600#	½"	15	0.9	0.8	0.8	0.8	0.9
	3/4"	20	1.6	1.4	1.4	1.4	1.4
	1"	25	1.9	1.7	1.7	1.7	1.8
	1 1/4"	32	2.6	2.1	2.4	2.1	2.3
	1 1/2"	40	3.6	3.1	3.4	3.1	3.3
	2"	50	4.7	3.9	4.4	3.9	4.0
	2 1/2"	65	4.8	5.4	6.8	3.4	5.5
	3"	80	8.7	7.3	8.8	7.3	7.4
	3 1/2"	90	11.6	9.8	12.7	9.0	9.2
	4"	100	16.4	16.5	18.6	16.1	16.8
	5"	125	31	28.5	30.8	27.5	28.5
	6"	150	37	36.2	38	35.4	36.2
	8"	200	54.5	51.5	62.2	49.5	21.5
	10"	250	98.5	76.2	102	74	76.2
	12"	300	105	69.5	132	89	89.5
	14"	350	150	102	168	114	102
	16"	400	177	150	225	165	150
	18"	450	228	100	285	194	180
	20"	500	285	231	385	255	231
	24"	600	372	330	532	362	330

	NB	NB	WNRF	SORF	BLRF	LAPPED	THRD
900#	½"	15	2.1	1.8	1.9	1.8	1.8
	3/4"	20	2.7	2.4	2.7	2.3	2.3
	1"	25	3.9	3.6	3.7	3.6	3.6
	1 1/4"	32	4.5	4.1	4.3	4.1	4.1
	1 1/2"	40	6.2	5.4	5.9	5.4	5.4
	2"	50	11.3	10.5	11.3	10.5	10.5
	2 1/2"	65	16.3	15.8	16	15.8	15.8
	3"	80	15	12.3	16.8	11.8	12.3
	3 1/2"	90					
	4"	100	24	23.2	24.5	22.6	23.2
	5"	125	38.5	37.5	39.5	36.5	37.5
	6"	150	50	48.3	51.5	47.5	48.3
	8"	200	85	75	89	86	75
	10"	250	123	110	131	124	110
	12"	300	168	146	187	167	146
	14"	350	198	172	224	180	172
	16"	400	225	192	259	210	192
	18"	450	318	272	383	294	272
	20"	500	376	330	482	365	330
	24"	600	690	632	905	700	632
1500#	½"	15	2.1	1.8	1.9	1.8	1.8
	3/4"	20	2.7	2.4	2.7	2.3	2.3
	1"	25	3.9	3.6	3.7	3.6	3.6
	1 1/4"	32	4.5	4.1	4.3	4.1	4.1
	1 1/2"	40	6.2	5.4	5.9	5.4	5.4
	2"	50	11.3	10.5	11.3	10.5	10.5
	2 1/2"	65	16.3	15.8	16	15.8	15.8
	3"	80	21	21.5	19.5	18.5	18.5
	3 1/2"	90					
	4"	100	31.8	31	33	29	29
	5"	125	59	58.8	60	54	53
	6"	150	72	74	75	62	61
	8"	200	124	112	125	106	105
	10"	250	207	184	215	173	172
	12"	300	306	264	316	262	264
	14"	350	416				
	16"	400	567				
	18"	450	736				
	20"	500	929				
	24"	600	1504				
2500#	½"	15	3.2		3	3	3
	3/4"	20	3.6		4.5	4	4
	1"	25	5.4		5	5	5
	1 1/4"	32	7.8		8	8	8
	1 1/2"	40	11.5		11	11	11
	2"	50	19		17	17	17
	2 1/2"	65	24		25	25	25
	3"	80	42.6	42.6	39	38	38
	3 1/2"	90					
	4"	100	64		60	58	58
	5"	125	111		101	95	95
	6"	150	171		156	146	146
	8"	200	261		242	220	220
	10"	250	495		465	420	420
	12"	300	698		665	590	590
	14"	350					
	16"	400					
	18"	450					
	20"	500					
	24"	600					

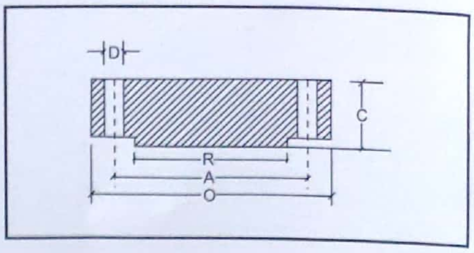
SLIP - ON FLANGE



WELDING NECK FLANGE



BLIND FLANGE



DIMENSIONAL TOLERANCES

Welding Neck			
* Outside diameter	O.D. 600 or smaller		± 1.6
	O.D. over 600		± 3.1
inside diameter (bore)	250 and smaller		± 0.7
	12 through 450		± 1.6
	500 and larger	± 3.1	- 1.6
diameter of contact face	1.6 raised face	± 0.7	
	6.3 raised face : tongue & grooved male and female	± 0.4	
* diameter of hub at base	When E is 600 or smaller	± 1.6	
	When E is over 600	± 3.1	
diameter of hub at point of welding	125 and smaller	+ 0.7	± 0.7
	150 and larger	+ 0.4	± 0.0
thickness	450 and smaller	+ 3.1	- 0.0
	500 and larger	+ 4.7	- 0.0
length through hub	250 and smaller		± 1.6
	300 and larger		± 3.1
drilling	bolt circle		± 1.6
	bolt hole spacing		± 0.7
	eccenticity with respect to bore		0.7 max

Threaded, slip on, lap Joint, socket welding and blind			
* Outside diameter	O.D. 500 or smaller		± 1.6
	O.D. over 600		± 3.1
inside diameter (bore)	threaded	to standard gauge limits slip-on : lap joint : socket welding :	
	250 and smaller	+ 0.7	- 0.0
	300 and larger	+ 1.6	- 0.0
diameter of counter bore	threaded		
	250 and smaller	+ 0.7	- 0.0
	300 and larger	+ 1.6	- 0.0
* outside diameter of hub	300 and smaller	+ 2.3	- 1.6
	350 and larger		± 3.1
diameter of contact face	1.6 raised face		± 0.7
	6.3 raised : toungue & grooved. male & female		± 0.4
thickness	450 and smaller	+ 3.1	- 0.0
	500 and larger	+4.7	- 0.0
* length through hub	250 and smaller		± 1.6
	300 and larger		± 3.1
drilling	bolt circle		± 1.6
	bolt hole spacing		± 0.7
	eccenticity with respect to bore		0.7 max

* Not covered by ANSI-B 16.5

All dimensions are in Millimeters.

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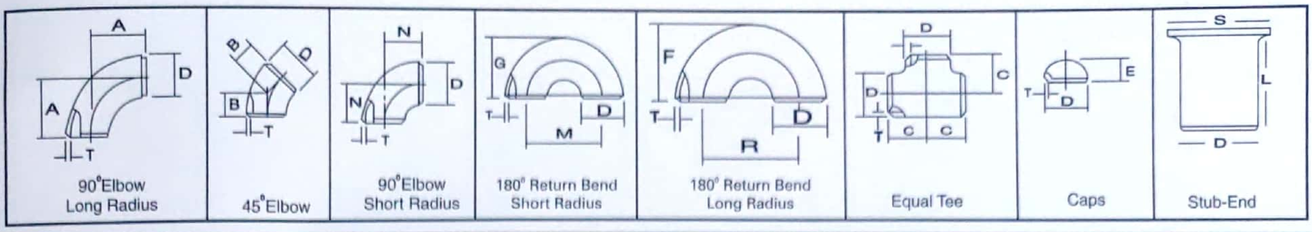
BUTT WELDING PIPE FITTINGS



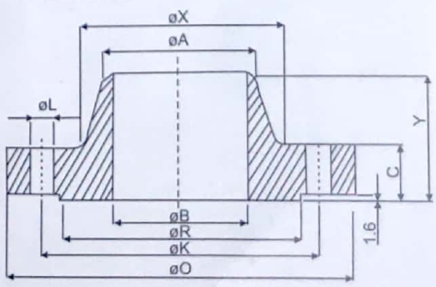
DIMENSIONAL STANDARD ANSI B-16.9, B-16.28 MSS SP-43

Nominal Pipe Size		Outside Diameter	Center to Face				Back to Face			Center to Center			Length 'L'	
													MSS SP43	ANSI B16.9
Inch.	mm	D	A	B	C	N	E	F	G	R	M	S	L	L
1/2	15	21.3	38	16	25	-	25	48	-	76	-	34.9	50.8	76.2
3/4	20	26.7	29	11	29	-	25	43	-	57	-	42.8	50.8	76.2
1	25	33.4	38	22	38	25	38	56	41	76	51	50.8	50.8	101.6
1 1/4	32	42.2	48	25	48	32	38	70	52	95	64	63.5	50.8	101.6
1 1/2	40	48.3	57	29	57	38	38	83	62	114	76	73	50.8	101.6
2	50	60.3	76	35	64	51	38	106	81	152	102	92	63.5	152.4
2 1/2	65	73.0	95	44	76	64	38	132	100	191	127	104.8	63.5	152.4
3	80	88.9	114	51	86	76	51	159	121	229	152	127	63.5	152.4
3 1/2	90	101.6	133	57	95	89	64	184	140	267	178	139.7	76.2	152.4
4	100	114.3	152	64	105	102	64	210	159	305	203	157.2	76.2	152.4
5	125	141.3	190	79	124	127	76	262	197	381	254	185.7	76.2	203.2
6	150	168.3	229	95	143	152	89	313	237	457	305	215.9	88.9	203.2
8	200	219.1	305	127	178	203	102	414	313	610	406	270	101.6	203.2
10	250	273.1	381	159	216	254	127	518	391	762	508	324	127	254

Nominal Pipe Size	Flange				Hub		Raised Face	Drilling Template		
	O	B	C	Y	A	X	R	No. of Holes	L	K
25	124.0	⊗	38.1	82.6	33.5	53.9	50.8	4	17.5	88.9
40	155.5	⊗	38.1	85.9	48.3	69.9	73.2	4	20.6	114.3
50	165.1	⊗	38.1	85.9	60.5	84.1	92.0	8	17.5	127.0
65	190.5	⊗	38.1	88.9	73.2	100.1	104.7	8	20.6	149.4
80	209.6	⊗	38.1	88.9	88.9	117.4	127.0	8	20.6	168.2
100	254.0	⊗	38.1	92.0	114.3	146.1	157.2	8	20.6	200.2
150	317.5	⊗	38.1	100.1	168.4	206.3	215.9	12	22.4	269.8
200	381.0	⊗	41.2	111.3	219.2	260.4	269.8	12	25.4	330.2
250	444.5	⊗	47.8	117.4	273.1	320.6	323.9	16	28.5	387.4
300	520.7	⊗	50.8	130.1	323.9	374.7	381.0	16	31.8	450.9
350	584.2	⊗	53.9	142.8	355.6	425.5	412.8	20	31.8	514.4
400	647.7	⊗	57.2	146.1	406.4	482.6	469.9	20	35.1	571.5
450	711.2	⊗	60.5	158.8	457.2	533.4	533.4	24	35.1	628.7
500	774.7	⊗	63.5	162.1	508.0	587.3	584.2	24	35.1	685.8
600	914.4	⊗	69.9	168.2	609.6	701.6	692.2	24	41.2	812.8

Dimensions as per ANSI B 16.36 300# Orifice Flanges

NOTE 4



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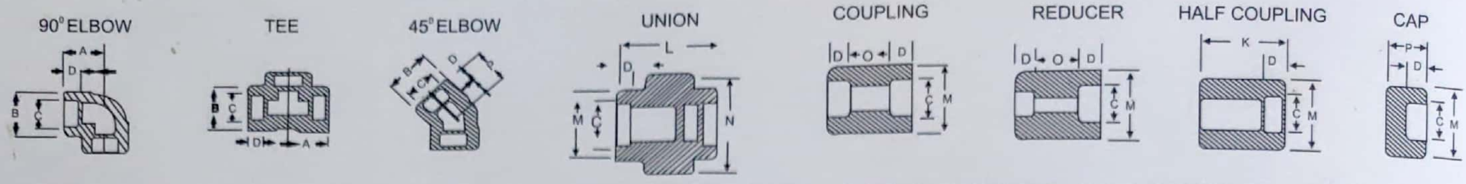
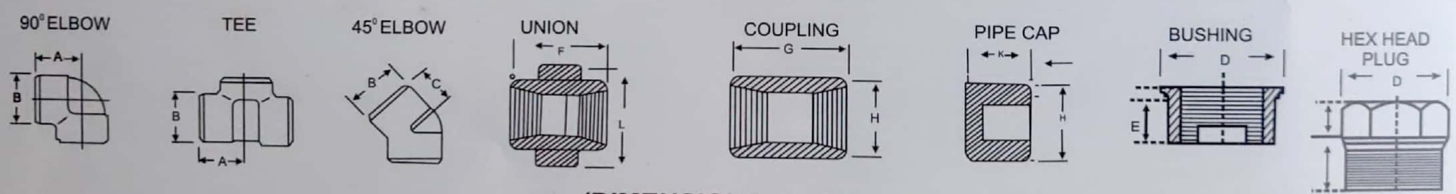
Socket Weld Fitting To ANSI B-16.11



NOM BORE	PIPE O.D.	3000 LBS A max.	B max.	K	J	L	M	N	P	Q	COMMON FACTORS C min.	D min.	O min.	O max.	6000 LBS A	B	M	K	N
1/8"	10.3	22	18.5	26	16	40	17.3	32	15	10	10.7	10	5	8	22	22	20	25	46
1/4"	13.7	22	22	26	18	43	21.2	32	15	10	14.1	10	5	8	27	25	24	25	51
3/8"	17.2	25	25	26	19	48	25.4	36	16.5	10	17.6	10	3	9	27	28	28	26	60
1/2"	21.3	27	32	30	21	51	31	41	16.5	10	21.7	10	6	13	31	34	34	31	72
3/4"	26.7	34	38	36	24	57	37	50	19.5	13	27	13	6	13	37	42	41	35	80
1"	33.4	37	46	40	25	64	45.2	60	22.5	13	33.8	13	9	17	42	50	50	40	94
11/4"	42.2	42	56	40	29	70	55	70	22.5	13	42.6	13	9	17	47	59	58	41	100
11/2"	48.3	47	62	40	30	79	61.4	78	24	13	48.7	13	9	17	53	67	66	43	122
2"	60.3	56	75	55	37	89	75	95	29	13	61.2	16	15	23	59	84	83	55	
21/2"	73.02	60	92	65	48	114	91.3	125	32	16	73.8	16	14	24		102		56	
3"	89.00	76	110	65	51	127	108.8	140	35	16	89.8	16	14	24		121		58	
4"	114.50	88	137	70		150	136.9		42	19	115.5	19	14	24		152		64	

Forged Screwed Fitting To ANSI B-16.11 3000/6000 LBS. Threaded To ASA B 2.1



(DIMENSIONS IN MM)

NOM BORE	PIPE O.D.	3000 LBS A	B	C	G	H	K	COMMON FACTORS D	E	F	I	J	L	6000 LBS A	B	C	G	H	K
1/8"	10.3	21	22	17	32	16	19	11	10	40	-	6	-	25	25	19	32	22	-
1/4"	13.7	25	25	19	35	19	25	16	11	43	3	6	32	29	33	22	35	25	27
3/8"	17.2	29	33	22	38	22	25	17.5	13	48	4	8	38	33	38	25	38	32	27
1/2"	21.3	33	38	25	48	29	32	22	15	51	5	8	46	38	46	29	48	38	33
3/4"	26.7	38	46	29	51	35	37	27	16	57	6	10	51	44	56	33	51	44	38
1"	33.4	44	56	33	60	44	41	35	19	64	6	10	60	51	62	35	60	57	43
11/4"	42.2	51	62	35	67	57	44	44.5	21	70	7	14	72	60	75	43	67	64	46
11/2"	48.3	60	75	43	79	64	44	51	21	79	8	16	80	64	84	44	79	76	48
2"	60.3	64	84	45	86	76	48	63.5	22	88	9	17	94	83	102	52	86	92	51
21/2"	73.02	83	102	52	92	92	60	76	27	118	10	21	122	95	121	64	92	108	64
3"	89.0	95	121	64	108	108	65	89	29	121	10	65	140	106	146	79	108	127	68
4"	114.5	114	152	79	121	140	68	117.5	32	150	13	25	180	114	152	79	121	159	75

DIMENSIONS AND OTHERS SPECIFICATIONS AS PER CUSTOMERS REQUIREMENTS ARE AVAILABLE ON REQUEST

Tel. : 022 6659 5713, 6743 6515 • Fax : 022-6659 5710

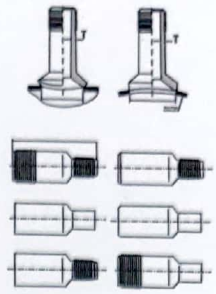
3000# (in millimeters)

Run-Pipe Size	Outlet Size	Wall-T	G	Unit Weight (kg)
36-34	½	7.3	23.9	0.36
36-1	3/4	7.9	30.2	0.56
36-1 1/4	1	8.9	36.6	0.84
36-1 ½	1 /14	9.7	44.5	1.22
36-2	1 ½	10.2	50.8	2.00
36-2 ½	2	11/2	65/0	3.12

Swaged Nippolets

MSS SP-95

TBE Threaded both end
PBE Plain both end
BLE/ISE Beveled large end-Threaded small end
BLE/PSE Beveled large-Plain small end
TLE/PSE Threaded large end-Plain small end



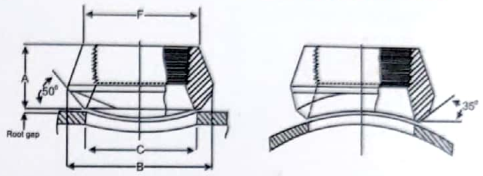
(in millimeters)

Large end Size	Small and Size	Length-L
½	3/8-1/8	70
3/4	1/2-1/8	76
1	3/4-1/8	89
1 1/4	1-1/8	102
1 ½	1 1/4-1/8	114
2	1 1/2-1/8	165
2 ½	2 - 1/8	178
3	2 ½ - 1/8	203
3 ½	3-1/8	203
4	3 1/2-1/8	229

Forged Steel Outlet Fittings Sockolets, Weldolet & Threadolets

3000#, 6000#

Outlet Size	A		B		C	
	3000#	6000#	3000#	6000#	3000#	6000#
½	25.4	31.8	34.9	44.5	23.8	19.1
3/4	27.0	36.5	44.5	50.8	30.2	25.4
1	33.3	39.7	54.0	61.9	36.5	33.3
1 1/4	33.3	41.3	65.1	69.9	44.5	38.1
1 ½	34.9	42.9	73.0	82.6	50.8	49.2
2	38.1	52.4	88.9	103.2	65.1	69.9
2 ½	46.0	-	103.2	-	76.2	-
3	50.8	-	122.2	-	93.7	-
4	57.2	-	152.4	-	120.7	-



Applicable Run Pipe Size are From out-Let to 36"
For the 3000# and 6000# Sockolets and Threadolets, Inside Bore,
Thread, Socket Bore and Socket depth Dimensions are According to ANSI B 16.11
Pipe Schedule Numbers and Weight Designation are in Accordance With ANSI B36.10
When Ordering Sockolets and Thredolets, Include The Quantity, Run and Out-Let Size
Item And Rating (or Schedule Number) and Material

Formulae of Calculating Weight

1) Weight of Stainless Steel Pipe
O.E. (mm) - W. Thick (mm) X W. Thick (mm) X 0.0248 = Wt. Per Mtr.
O.D. (mm) - W. Thick (mm) X W. Thick (mm) X 0.00756 = Wt. Per Feet

2) Weight of Stainless Steel Round Bar
Dia (mm) X Dia (mm) X 0.00623 = Wt. per Mtr.
Dia (mm) X Dia (mm) X 0.0019 = Wt. per Feet

3) Weight of Stainless Steel Square Bar
Dia (mm) X Dia (mm) X 0.00788 = Wt. per Mtr.
Dia (mm) X Dia (mm) X 0.0024 = Wt. per Feet

4) Weight of Stainless Steel Hexagonal Bar
A/F (mm) X A/F (mm) X 0.00680 = Wt. per Mtr.
A/F (mm) X A/F (mm) X 0.002072 = Wt. per Feet

5) Weight of Stainless Steel Sheets & Plates
Lenght (Mtrs) X Width (Mtrs) X Thick (mm) X 8 = Weight per PC
Lenght (Feet) X Width (Feet) X Thick (mm) X 3/4 = Weight per PC

6) Weight of Stainless Steel Circle
Dia (mm) x Dia (mm) x Thick (mm) x 160000 Weight per PC
Dia (mm) x Dia (mm) x Thick (mm) x 0.0000063 - Kg Per PC

7) Weight of Brass Pipe / Copper Pipe
OD - Thick x Thick x 0.00876 = Per Ft.
OD - Thick x Thick x 0.0260 = Per Mtr.

8) Weight of Aluminium Pipe
O.D. (mm) - Thick (mm) X Thick (mm) X 0.0083 = Wt. Per Mtr.

9) Formula For Making of Pipe From Sheet
O.D. - Wt x Thickness x 3.14 = Width of Sheet

10) Weight of Aluminium Sheet
Lenght (Mtrs) X Width (Mtrs) X Thick (mm) X 2.69 = Weight per PC

11) Weight Conversion of Mtrs. to Ft. (Pipe)
Meter = 3.2808 Foot = Wt. Per Feet

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