



**FLANGEMAN**

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# FLANGEMAN STEEL WORLDWIDE PVT LTD

## ABOUT US

With nearly 20 years of experience, we are a trusted manufacturer of high-quality industrial piping components, specializing in stainless steel flanges, butt welded fittings, forged fittings, threaded fittings, and dairy fittings.



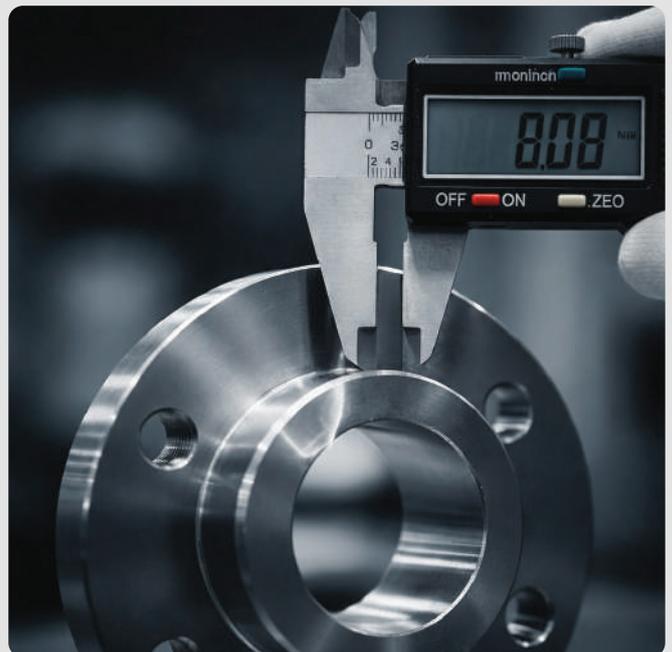
These products are widely used across industries such as oil & gas, petrochemicals, power plants, water treatment, industrial pipelines, and dairy fittings.

Driven by a strong commitment to quality, precision, and reliability, we also offer customized solutions to meet specific project requirements and deliver long-term value through dependable products.

## QUALITY POLICY & CONTROL

Quality is at the core of everything we do. We follow strict quality systems to meet international standards and project-specific requirements. Only approved raw materials are used, and each product is supplied with a Material

All products undergo dimensional checks, visual inspections, and required tests, including both destructive and non-destructive methods, to ensure consistent performance, safety, and reliability in industrial applications.



## OUR MISSION

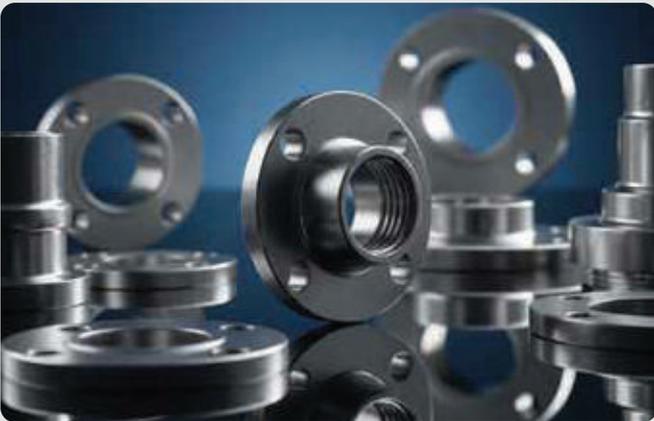
Our mission is to manufacture and supply high-quality stainless steel flanges and industrial piping components that meet international standards. Through consistent quality, efficient processes, and reliable supply, we aim to support industrial projects with durable, cost-effective, and performance-driven solutions.



## OUR VISION

To become a globally trusted manufacturer of high-quality flanges and industrial fittings, delivering precision, durability, and reliability. We support

advanced manufacturing, strict quality control, and dependable solutions that build long-term value.



Automotive



Oil & Gas



Energy & Power



Aerospace



Windmills



Heavy Engineering



Defence



Marine



Pumps/Valves



Turbines

[www.flangemansteel.com](http://www.flangemansteel.com)

# CERTIFICATE

As a certified organization based in Mumbai, India, supported by an efficient supply chain, we ensure consistent quality, minimal lead time, and reliable product availability. Our products are manufactured in compliance with international standards.



## MANAGEMENT SYSTEM CERTIFICATE



www.royalapl.com

This is to certify that

### FLANGEMAN STEEL WORLDWIDE PVT LTD

REGISTERED OFFICE - PLOT-20, 12013, FLOOR-GRD, BADRIKASHRAM, KHETWADI  
1ST LANE, GIRGAON, MUMBAI CITY, MAHARASHTRA-400004, INDIA  
FACTORY: GROUND FLOOR, PLOT NO.6/8 SHED, LAKADI BUNDER ROAD,  
DARUKHANA, MAZGAON, MUMBAI- 400010, MAHARASHTRA-400004, INDIA.

has been assessed by RAPL and found to comply with the requirements of

## ISO 9001: 2015

### Quality Management Systems

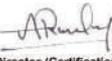
For the following activities:

MANUFACTURER OF STAINLESS-STEEL FLANGES AND PIPE FITTINGS.

Certificate Number: E20260243094  
Date of certification 17/02/2026  
1st Surveillance on or before: 16/02/2027  
IInd Surveillance on or before: 16/02/2028  
Certification Valid Until: 16/02/2029






  
 Director (Certification)  
**ROYALASSESSMENTS PVT. LTD.**  
023 A, Tower-B, (Thum, Plot No. A-40, Sector- 02, Noida 201301), India.  
 www.royalapl.com, info@royalapl.com  
 Phone : 01148 707691  
This Certificate can be verified at www.iafcertsearch.org

This Certificate is an endorsement of certified clients certification status but remains the property of Royal Assessments Pvt. Ltd. Certificate must be returned on RAPL's request or if certificate is withdrawn. Validity of certificate is subject to successful completion of surveillance audits. RAPL is accredited by EGAC. Egac, EGAC is member of International Accreditation Forum (IAF) and signatory of MLA.

### UDYAM REGISTRATION CERTIFICATE

**UDYAM REGISTRATION NUMBER** UDYAM-MH-19-0415470

**NAME OF ENTERPRISE** FLANGEMAN STEEL WORLDWIDE PRIVATE LIMITED

**TYPE OF ENTERPRISE**

S.No.	Classification Year	Enterprise Type	Classification Date
1	2025-26	Micro	16/02/2026

**MAJOR ACTIVITY** **MANUFACTURING**

**SOCIAL CATEGORY OF ENTREPRENEUR** GENERAL

**NAME OF UNIT(S)**

S.No.	Name of Unit(s)
1	FLANGEMAN STEEL WORLDWIDE PRIVATE LIMITED

**OFFICIAL ADDRESS OF ENTERPRISE**

Flat/Door/Block No.	12013,Plot20,Fir Gvd	Name of Premises/ Building	BADARIKA ASHRAM
Village/Town	MUMBAI	Block	GIRGAON
Road/Street/Lane	KHETWADI 1st	City	MUMBAI
State	MAHARASHTRA	District	MUMBAI, Pin 400004
Mobile	9619770076	Email:	flangemansteelworldwide29@gmail.com

**DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE** 07/02/2026

**DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS** 07/02/2026

**NATIONAL INDUSTRY CLASSIFICATION CODE(S)**

S.No.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	24 - Manufacture of basic metals	2410 - Manufacture of basic iron and steel	24106 - Manufacture of tube and tube fittings of basic iron and steel	Manufacturing

**DATE OF UDYAM REGISTRATION** 16/02/2026

\* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the Mo MSME.  
Disclaimer: This is computer generated statement, no signature required. Printed from <https://udyamregistration.gov.in> & Date of printing:- 16/02/2026

**For any assistance, you may contact:**

1. District Industries Centre: MUMBAI CITY (MAHARASHTRA)

2. MSME-DFO: MUMBAI (MAHARASHTRA)

Visit : [www.msme.gov.in](http://www.msme.gov.in) ; [www.dcmsme.gov.in](http://www.dcmsme.gov.in) ; [www.udyamregistration.gov.in](http://www.udyamregistration.gov.in)




# MATERIAL GRADES

Stainless Steel	304/304/304, 316/316L/316, 317/3 17H, 321/321H, 347/347H, 31611, 51, 310
Duplex Steel	UNS 31803, 2205, 32750
High Nickel Alloy	Inconel 600, 800, 825, Hastelloy C-22, C-276, Monel 400, 500 etc.
Cupro Nickel	Cu-Ni 90/10, Cu-Ni 70/30
Alloy Steel	ASTM A 182 F1, F5, F6, F9, F11, F22, F91
Carbon Steel	ASTM A 105/SA 266, ST37.2/C22/C22.8
Low Temp Steel	ASA 350 Lf2
High Yield Steel	ASTM F 694 F50, F52, F60
DIN/EN	1.4404, 1.4401, 1.4541, 1.4571, 1.4306, 1.4307, 1.4301, 1.5415, 1.7380, 1.7335, 1.0460, 1.4462

## SIZE RANGE FLANGES 0.5" TO 60" (10MM TO 1500MM)

STANDARDS	TYPES
ASME/ANSI 16.5 Pressure Class	Welding Neck Flange, Slipon Flange, Blind Flange, High Hub Blind Flange, Socket Weld Flange, Lap Joint Flange, Threaded Flange, Ring Type Joint Flange, Spectacle Blind 150, 300, 400, 600, 900, 1500, 2500
ASME/ANSI B16.47 Pressure Class	Welding Neck Flange, Blind Flange (series A & B) 75, 150, 300, 400, 600, 900
JIS 62220/62291 Pressure Class	(Orifice Flanges) Welding Neck Flange, Slipon Flange, Threaded Flange 150, 300, 400, 600, 900, 1500, 2500
BS 4505 Pressure Class	Welding Neck Flange (111/134), Hubbed Slipon Flange (112), Hubbed, Threaded Flange (113), Lapped Pipe End Flange (113), Plate Flange (101). Bose Plate Flange (102), Loose with Weld NEck Flange (104), Blank Flange (105) PN6, PN10, PN16, PN 25, PN 40
BS 10 TABLE	Welding Neck Flange, Plate Slip-on Flange, Screwed Boss Flange, Slip-on Boss Flanges, Blind Flange Table A to Table T
DIN Flanges	DIN 2527, DIN 2566, DIN 2573, DIN 2576, DIN 2641, DIN 2642, DIN 2655, DIN 2656, DIN 2627, DIN 2628, DIN 2629, DIN 2631, DIN 2632, DIN 2633, DIN 2634, DIN 2635, DIN 2636, DIN 2637, DIN 2638, DIN 2673
Pr EN 1092-1 Flanges Table	Plate Flange (01), Loose Plate Flange (02, 04), Blind Flanges (05) Welding Neck Flanges (11), Hubbed Slip on Flange (12), Screwed Flange (13), Integral Flange (21) PN 2.5 to PN 160

01



02

SS RODE



03

LATHE MACHINE



## MANUFACTURING PROCESS

Our products are manufactured using high-quality stainless steel to ensure strength, precision, and durability. The process includes forging and forming, followed by precision machining on Lathes, CNC, and VMC machines. Each component undergoes strict quality checks to ensure dimensional accuracy, superior surface finish, and long service life, making our flanges and fittings suitable for demanding industrial applications.

**Stainless Steel**

ASTM A403, WP304,304L,304H,316, 316L,317,317L,321,310,347,904L

**Duplex & Super Duplex**

UNS S31803, UNS S32750, UNS S32760,

**Hastelloy Alloy**

ASTM B366 Hastelloy B2, Hastelloy C276, Hastelloy C22

**Incoloy Alloys**

ASTM B366 Alloy 20, Alloy 800H/800HT, Alloy 825, Alloy A286

**Inconel Alloys**

ASTM B366 Alloy 600, Alloy 601, Alloy 625, Alloy 718, Alloy 725,

**Monel Alloys**

ASTM B366 Monel 400, Monel K500.

**Carbon Steel**

ASTM A234 WPB, A420 WPL3, A420 WPL6, MSS-SP-75 WPHY 42/46/52

**Alloy Steel**

ASTM A234WP1,WP5, WP9,WP11,WP22

**Size**

4" NB TO 72" NB (welded)



**Blind Flanges**



**Companion Flanges**



**Lap Joint Flanges**



**Long Weld Flanges**



**Orifice Flanges**



**Socket Weld Flanges**



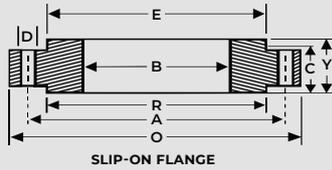
**Slip On Flanges**



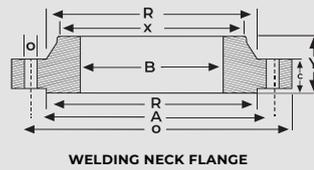
**Threaded Flanges**



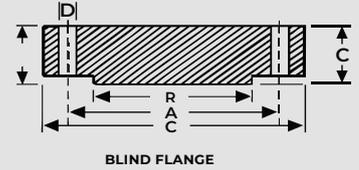
**Weld Neck Flanges**



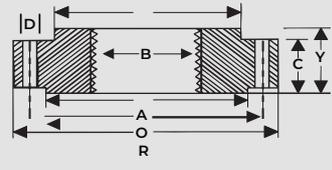
SLIP-ON FLANGE



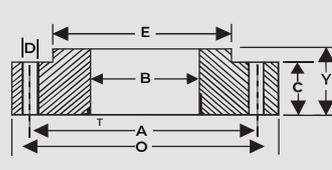
WELDING NECK FLANGE



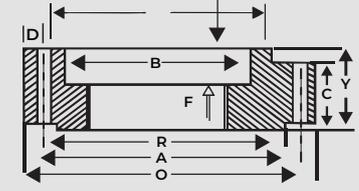
BLIND FLANGE



THREADED FLANGE



LAP JOINT FLANGE



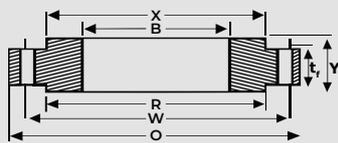
SOCKET WELD FLANGE

## DIMENSIONS OF CLASS 150 FLANGES AS PER ANSI B 16.5

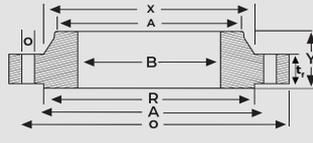
NOMINAL PIPE SIZE (MM)	NOMINAL PIPE SIZE (INCH)	FLANGE DIA (O)	DIA OF BOLT CIRCLE (A)	DIA OF BOLT HOLES (D)	NO. OF HOLES	THK. OF FLANGE (C)	DIA OF HUB E	LENGTH THROUGH HUB			DIA OF BORE		DIA OF R/F R	DEPTH OF SOCKET F
								S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B		
15	1/2	88.9	60.3	15.9	4	11.1	30.2	15.9	15.9	47.6	15.9	22.9	34.9	9.5
20	3/4	98.4	69.8	15.9	4	12.7	38.1	15.9	15.9	52.4	15.9	28.2	42.9	11.1
25	1	107.9	79.4	15.9	4	14.3	49.2	17.5	17.5	55.6	17.5	35.0	50.8	12.7
32	1 1/4	117.5	88.9	15.9	4	15.9	58.7	20.6	20.6	57.1	20.6	43.7	63.5	14.3
40	1 1/2	127.0	98.4	15.9	4	17.5	65.1	22.2	22.2	61.9	22.2	50.0	73.0	15.9
50	2	152.4	120.6	19.0	4	19.0	77.8	25.4	25.4	63.5	25.4	62.5	92.1	17.5
65	2 1/2	177.8	139.7	19.0	4	22.2	90.5	28.6	28.6	69.8	28.6	75.4	104.8	19.0
80	3	190.5	152.4	19.0	4	23.8	107.9	30.2	30.2	69.8	30.2	91.4	127.0	20.6
100	4	228.6	190.5	19.0	8	23.8	134.9	33.3	33.3	76.2	33.3	116.8	157.2	23.8
125	5	254.0	215.9	22.2	8	23.8	163.5	36.5	36.5	88.9	36.5	144.5	185.7	23.8
150	6	279.4	241.3	22.2	8	25.4	192.1	39.7	39.7	88.9	39.7	171.4	215.9	27.0
200	8	342.9	298.4	22.2	8	28.6	246.1	44.4	44.4	101.6	44.4	222.2	269.9	31.7
250	10	406.4	361.9	25.4	12	30.2	304.8	49.2	49.2	101.6	49.2	277.4	323.8	33.3
300	12	482.6	431.8	25.4	12	31.8	365.1	55.6	55.6	114.3	55.6	328.2	381.0	39.7
350	14	533.4	476.2	28.6	12	34.9	400.0	57.1	57.1	127.0	79.4	360.2	412.7	41.3
400	16	596.9	539.7	28.6	16	36.5	457.2	63.5	63.5	127.0	87.3	411.2	469.9	44.4
450	18	635.0	577.8	31.7	16	39.7	504.8	68.3	68.3	139.7	96.8	462.3	533.4	49.2
500	20	698.5	635.0	31.7	20	42.9	558.8	73.0	73.0	144.5	103.2	514.3	584.2	54.0
600	24	812.8	749.3	34.9	20	47.6	663.6	82.5	82.5	152.4	111.1	615.9	692.1	63.5

## DIMENSIONS OF CLASS 300 FLANGES AS PER ANSI B 16.5

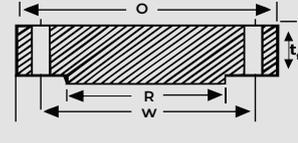
NOMINAL PIPE SIZE (MM)	NOMINAL PIPE SIZE (INCH)	FLANGE DIA (O)	DIA OF BOLT CIRCLE (A)	DIA OF BOLT HOLES (D)	NO. OF HOLES	THK. OF FLANGE (C)	DIA OF HUB E	LENGTH THROUGH HUB			DIA OF BORE		DIA OF R/F R	DEPTH OF SOCKET F
								S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B		
15	1/2	95.2	66.7	15.9	4	14.3	38.1	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	-



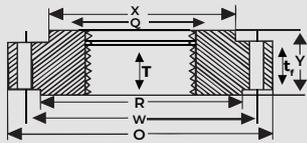
SLIP-ON WELDING



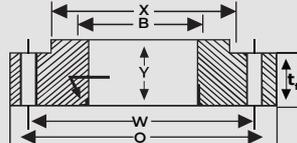
WELDING NECK



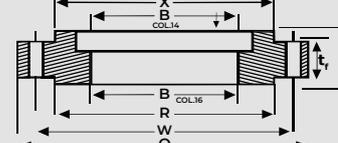
BLIND



THREADED



LAPPED



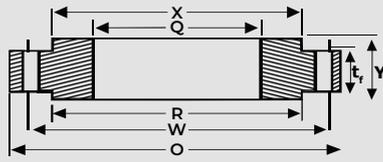
SOCKET WELDING (12" TO 2 1/2" ONLY)

## DIMENSIONS OF CLASS 600 FLANGES

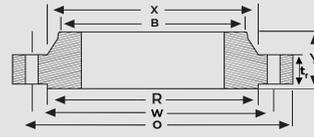
1	2	3	4	5			8	9			12	13			16	17	18	19
				DIAMETER OF BOLT CIRCLE	DIAMETER OF BOLT HOLES	NUMBER OF BOLTS		THREADED/SLIP-ON/SOCKET WELDING	LAPPED	WELDING NECK		THREADED/LENGTH THREADED MIN.	THREADED/LENGTH THREADED MIN.	SLIP-ON/SOCKET WELDING MIN.				
NPS	O	T <sub>f</sub>	X	W	IN		HUB DIAMETER BEGINNING OF CHAMFER WELDING NECK, A	Y	Y	Y	T	B	B	B	R	Q	D	R
1/2	95.5	14.3	38	66.7	15.9	4	21.3	22	22	52	16	22.2	22.9	3	23.6	10	34.9	
3/4	117.5	15.9	48	82.6	19.1	4	26.7	25	25	57	16	27.7	28.2	3	29.0	11	42.9	
1	124.0	17.5	54	88.9	19.1	4	33.4	27	27	62	18	34.5	34.9	3	35.8	13	50.8	
1 1/4	133.5	20.7	64	98.4	19.1	4	42.2	29	29	67	21	43.2	43.7	5	44.4	14	63.5	
1 1/2	155.5	22.3	70	114.3				29									73.0	
					22.3	4	48.3	32	32	70	23	49.5	50.0	6	50.6	16	92.1	
2	165.0	25.4	84	127.0	19.1	8	60.3	37	37	73	29	61.9	62.5	8	63.5	17	104.8	
2 1/2	190.5	28.6	100	149.2	22.3	8	73.0	41	41	79	32	74.6	75.4	8	76.2	19	127.0	
3	209.5	31.8	117	168.3	22.3	8	88.9	46	46	83	35	90.7	91.4	10	92.2	21	139.7	
3 1/2	228.5	35.0	133	184.2	25.4			49		86	40	103.4	104.1	10	104.9		157.2	
4						8	101.6	49									185.7	
	273.0	38.1	152	215.9	25.4	8	114.3	54	51	102	42	116.1	116.8	11	117.6	-	215.9	
5	330.0	44.5	189	266.7	28.6	8	141.3	60	54	114	48	143.8	144.4	11	144.4	-	269.9	
6	355.5	47.7	222	292.1	28.6	12	168.3	67	57	117	51	170.7	171.4	13	171.4	-	323.8	
8	419.0	55.6	273	349.2	31.8	12	219.1	76	68	133	58	221.5	222.2	13	222.2	-	381.0	
10	508.0	63.5	343	431.8	35.0	16	273.0	86	102	152	66	276.2	277.4	13	276.2	-	412.8	
12	559.0	66.7	400	489.0	35.0			108	156		70	327.0	328.2	13	328.6	-	469.9	
						20	323.8	92									533.4	
14	603.5	69.9	432	527.0	38.1	20	355.6	94	117	165	74	359.2	360.2	13	360.4	-	584.2	
16	686.0	76.2	495	603.2	41.3	20	406.4	106	127	178	78	410.5	411.2	13	411.2	-	692.2	
18	743.0	82.6	546	654.0	44.5	20	457.0	117	137	184	80	461.8	462.3	13	462.0	-		
20	813.0	88.9	610	723.9	44.5	24	508.0	127	146	190	83	513.1	514.4	13	512.8	-		
24	940.0	101.6	718	838.2	50.8	24	610.0	140	159	203	93	616.0	616.0	13	614.4	-		

## DIMENSIONS OF CLASS 900 FLANGES

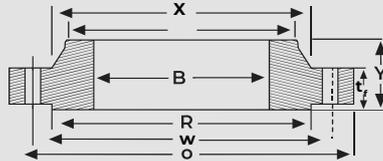
1	2	3	4	5			8	9			12	13	14	15	16	17	18	19
				DIAMETER OF BOLT CIRCLE	DIAMETER OF BOLT HOLES	NUMBER OF BOLTS		THREADED/SLIP-ON/SOCKET WELDING	THREADED/SLIP-ON/SOCKET WELDING	WELDING NECK								
NPS	O	T <sub>f</sub>	X	W	IN		HUB DIAMETER BEGINNING OF CHAMFER WELDING NECK, A	Y	Y	Y	T	B	B	B	R	Q	R	D
1/2	120.7	22.3	38	82.6	22.3	4	21.3	32	32	22.2	22.9							
3/4	130.0	25.4	44	88.9	22.3	4	26.7	35	35	27.7	28.2							
1	149.4	28.6	52	101.6	25.4	4	33.4	41	41	34.5	34.9	22.2	22.9	3	23.6	34.9	10	
1 1/4	158.8	28.6	64	111.1	25.4	4	42.2	41	41	43.2	43.7	27.7	28.2	3	29.0	42.9	11	
1 1/2	177.8	31.8	70	123.8	28.6	4	48.3	44	44	49.5	50.0	34.5	34.9	3	35.8	50.8	13	
												43.2	43.7	5	44.4	63.5	14	
2	215.9	38.1	105	165.1	25.4	8	60.3	57	57	61.9	62.5	49.5	50.0	6	50.6	73.0	16	
2 1/2	244.3	41.3	124	190.5	28.6	8	73.0	64	64	74.6	75.4	61.9	62.5	8	63.5	92.1	17	
3	241.3	38.1	127	190.5	25.4	8	88.9	54	54	90.7	91.4	74.6	75.4	8	76.2	104.8	19	
4	292.1	44.5	159	235.0	31.8	8	114.3	70	70	116.1	116.8	90.7	91.4	10	92.2	127.0		
												103.4	104.1	10	117.6	139.7		
5	349.3	50.8	190	279.4	35.0	8												
6	381.0	55.6	235	317.5	31.8	12	168.3	86	86	170.7	171.4	116.1	116.8	11	144.4	157.2		
8	469.9	63.5	298	393.7	38.1	12	219.1	102	114	221.5	222.2	143.8	144.4	11	171.4	185.7		
10	546.1	69.9	368	469.9	38.1	16	273.0	108	127	276.2	277.4	170.7	171.4	13	222.2	215.9		
12	609.5	79.4	419	533.4	38.1	20	323.8	117	143	327.0	328.2	221.5	222.2	13	276.2	269.9		
												276.2	277.4	13	328.6	323.8		
14	641.4	85.8	451	558.8	41.3	20	355.6	130	156	359.2	360.2	327.0	328.2	13	360.4	381.0		
16	704.9	88.9	508	616.0	44.5	20	406.4	133	165	410.5	411.2	410.5	411.2	13	462.0	469.9		
18	787.4	101.6	565	685.8	50.8	20	457.0	152	190	461.8	462.3	461.8	461.8	13	512.8	533.4		
20	857.3	108.0	622	749.3	54.0	20	508.0	159	210	513.1	514.4	513.1	514.4	13	584.2	584.2		
24	1041.4	139.7	749	901.7	66.7	20	610.0	203	267	616.0	616.0	616.0	616.0	13	614.4	692.2		



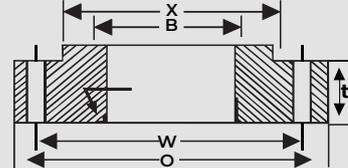
THREADED (NPS 1/2" TO 2" ONLY)



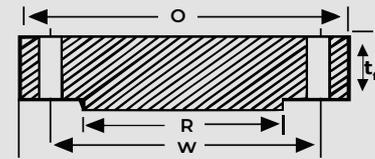
SLIP-ON WELDING (NPS 1/2" TO 2" ONLY)



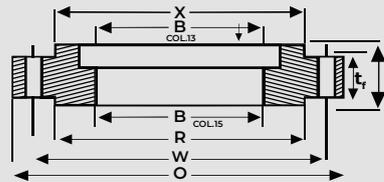
LAPPED



LAPPED



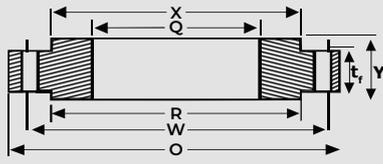
BLIND



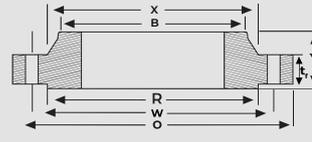
SOCKET WELDING (1/2" TO 2" ONLY)

## DIMENSIONS OF CLASS 1500 FLANGES

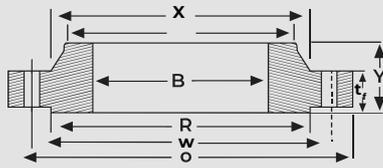
1	2	3	4	5			8	9			12	13			16	17	18	19
				DIAMETER OF BOLT CIRCLE	DIAMETER OF BOLT HOLES	NUMBER OF BOLTS		THREADED/SLIP-ON/SOCKET WELDING.	LAPPED,	WELDING MECK		THREADED/LENGTH THREADED MIN.	THREADED/LENGTH THREADED MIN.	SLIP-ON/SOCKET WELDING MIN.				
NPS	O	T <sub>f</sub>	X	W	IN		Y	Y	Y	T	B	B	B	R	Q	D	R	
1/2	120.7	22.3	38	82.6	22.3	4	21.3	32	32	83	23 20	22.2	22.9	3	23.6	10	34.9	
3/4	130.0	25.4	44	88.9	22.3	4	26.7	35	35	102	26 20	27.7	28.2	3	29.0	11	42.9	
1	149.4	28.6	52	101.6	25.4	4	33.4	41	41	105	29 20	34.5	34.9	3	35.8	13	50.8	
1 1/4	158.8	28.6	64	111.1	25.4	4	42.2	41	41	117	31 33	43.2	43.7	5	44.4	14	63.5	
1 1/2	177.8	31.8	70	123.8	28.6	4	48.3	44	44	124	32	49.5	50.0					
														6	50.6	16	73.0	
2	215.9	38.1	105	165.1	25.4	8	60.3	57	57	156	39 35	61.9	62.5	8	63.5	17	92.1	
2 1/2	244.3	41.3	124	190.5	28.6	8	73.0	64	64	171	48 46	74.6	75.4	8	76.2	19	104.8	
3	266.7	47.7	133	203.2	31.8	8	88.9		73	213			91.4	10	-	-	127.0	
3 1/2	311.2	54.0	162	241.3	35.0	8	114.3		90	254			116.8	11	-	-	139.7	
4	374.7	73.1	197	292.1	41.3	8	141.3	105	283				144.4					
														11	-	-	157.2	
5	393.7	82.6	229	317.5	38.1	12	168.3		119	298			171.4	13	-	-	185.7	
6	482.6	92.1	292	393.7	44.5	12	219.1		143	311			222.2	13	-	-	215.9	
8	584.2	108.0	368	482.6	50.8	12	273.0		178	327			277.4	13	-	-	269.9	
10	673.1	123.9	451	571.5	54.0	16	323.8		219	356			328.2	13	-	-	323.8	
12	749.3	133.4	495	635.0	60.4	16	355.6		241	406			360.2	13	-	-	381.0	
14	825.5	146.1	552	704.8	66.7	16	406.4		260				411.2	13	-	-	412.8	
16	914.4	162.0	597	774.7	73.0	16	457.0		276				462.3	13	-	-	469.9	
18	984.3	177.8	641	831.8	79.4	16	508.0		292				514.4	13	-	-	533.4	
20	1168.4	203.2	762	990.6	92.1	16	610.0		330				616.0	13	-	-	584.2	
24																		692.2



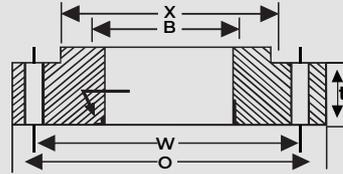
THREADED (NPS 1/2" TO 2 1/2" ONLY)



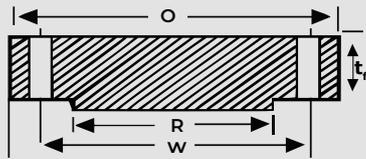
SLIP-ON WELDING (NPS 1/2" TO 2 1/2" ONLY)



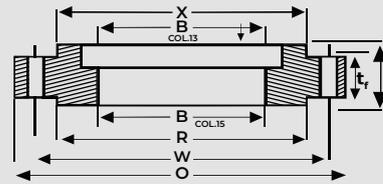
LAPPED



LAPPED



BLIND



SOCKET WELDING (1/2" TO 2 1/2" ONLY)

## DIMENSIONS OF CLASS 2500 FLANGES

1 NOMINAL PIPE SIZE  NPS	2 OUTSIDE DIAMETER OF FLANGE,  O	3 THICKNESS OF FLANGE MIN  T <sub>f</sub>	4 DIAMETER OF HUB,  X	5 DRILLING			8 HUB DIAMETER BEGIN-NING OF CHAMFER WELDING NECK, A	9 LENGTH THRU HUB			12 THREADED/ LENGTH THREADED MIN.,  T	13 BORE			16 CORNER RADIUS OF BORE OF LAPPED FLANGE AND PIPE R	17 COUNTER- BORE THREADED FLANGE MIN Q	18 DEPTH OF SOCKET,  D	19 DIAMETER OF RF  R
				5 DIAMETER OF BOLT CIRCLE  W	6 DIAMETER OF BOLT HOLES  IN	7 NUMBER OF BOLTS		9 THREADED/ SLIP-ON/ SOCKET WELDING,  Y	10 LAPPED,  Y	11 WELDING MECK  Y		13 THREADED/ LENGTH THREADED MIN.  B	14 SLIP-ON/ SOCKET WELDING MIN.  B	15 WELDING NECK/ SOCKET WELDING,  B				
1/2	133.4	30.2	48	88.9	22.3	4	21.3	40	40	73	29	22.9	22.9	3	3	23.6	34.9	
3/4	139.7	31.8	51	95.2	22.3	4	26.7	43	43	79	32	28.2	28.2	3	3	29.0	42.9	
1	158.8	35.0	57	108.0	25.4	4	33.4	48	48	89	35	34.9	34.9	3	3	35.8	50.8	
1 1/4	184.2	38.1	73	130.2	28.6	4	42.2	52	52	95	39	43.7	43.7	5	5	44.4	63.5	
1 1/2	203.2	44.5	79	146.0	31.8	4	48.3	60	60	111	45	50.0	50.0	6	6	50.6	73.0	
2	235.0	50.9	95	171.4	28.6	8	60.3	70	70	127	51	62.5	62.5	8	8	63.5	92.1	
2 1/2	266.7	57.2	114	196.8	31.8	8	73.0	79	79	143	58	75.4	75.4	8	8	76.2	104.8	
3	304.8	66.7	133	228.6	35.0	8	88.9	92	92	168	68	91.4	91.4	10	10	104.8	127.0	
4	355.6	76.2	165	273.0	41.3	8	114.3	108	108	190	78	116.8	116.8	11	11	139.7	157.2	
5	419.1	92.1	203	323.8	47.7	8	141.3	130	130	229	88	144.4	144.4	11	11	157.2	185.7	
6	482.6	108.0	235	368.3	54.0	8	168.3	152	152	273	98	171.4	171.4	13	13	185.7	215.9	
8	552.5	127.0	305	438.2	66.7	12	219.1	178	178	318	118	222.2	222.2	13	13	215.9	269.9	
10	673.1	165.1	375	539.8	73.0	12	273.0	229	229	419	138	277.4	277.4	13	13	269.9	323.8	
12	762.0	184.2	441	619.1	73.0	12	323.8	254	254	464	158	328.2	328.2	13	13	323.8	323.8	

# BUTTWELDED FITTINGS



**Pipe Fitting Bends**



**Pipe Fitting Coupling**



**Pipe Fitting Cross**



**Pipe Fitting Elbow**



**Pipe Fitting End Caps**



**Pipe Fitting Nipple**



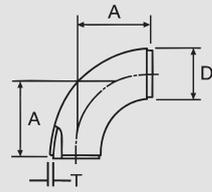
**Pipe Fitting Reducer**



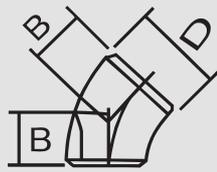
**Pipe Fitting Stub End**



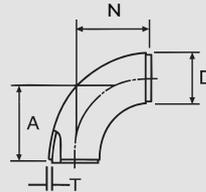
**Pipe Fitting Tee**



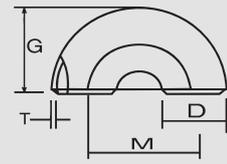
90 ELBOW  
LONG RADIUS



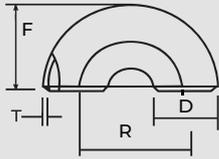
45° ELBOW



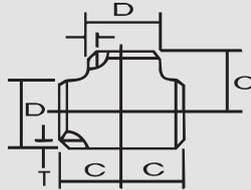
90 ELBOW SHORT RADIUS



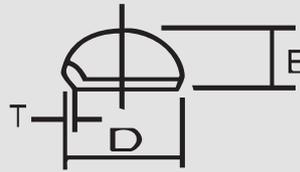
180 RETURN BEND  
SHORT RADIUS



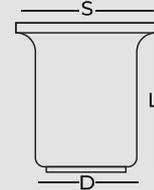
180 RETURN BEND  
LONG RADIUS



TEE EQUAL



CAPS



STUBEND

## BUTT WELDING PIPE FITTINGS DIMENSIONAL STANDARD ANSI B-16.9, B-16.28

NOMINAL PIPE SIZE		NOMINAL PIPE SIZE	CENTER TO FACE				BACK TO FACE			CENTER TO CENTER			LENGTH 'L'	
INCH	MM	D	C	B	C	N	E	F	G	R	M	S	MSS SP43	ANSI B 16.9
1/2	15	21.3	38	16	25	-	25	48	-	76	-	34.9	50.8	76.2
3/4	20	26.7	38	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	73.0	50.8	101.6
2	50	60.3	76	35	64	51	38	106	81	152	102	92.0	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	127.0	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	270.0	101.6	203.2
10	250	273.1	381	159	216	254	127	518	391	762	508	324.0	127.0	254.0
12	300	323.9	457	190	254	305	152	619	467	914	610	381.0	152.4	254.0
14	350	355.6	533	222	279	356	165	711	533	1067	711	412.8	152.4	305.0
16	400	406.4	610	254	305	406	178	813	610	1219	813	470.0	152.4	305.0
18	450	457.2	686	286	343	457	203	914	686	1372	914	533.4	152.4	305.0
20	500	508.0	762	318	381	508	229	1016	762	1524	1016	584.2	152.4	305.0
22	550	559.0	838	343	419	559	254	1118	838	1676	1118	614.4	152.4	305.0
24	600	610.0	914	381	432	610	267	1219	914	1829	1219	692.2	152.4	305.0

# FORGED FITTINGS



**Forged Bushing**



**Forged Caps**



**Forged Coupling**



**Forged Reducer**



**Forged Plug**



**Forged Cross**



**Forged Elbow**



**Forged End Connection**



**Forged Tee**

# THREADED FITTINGS



**Threaded Tee Fittings**



**Threaded Fittings**



**Threaded Fuel Line Fittings**

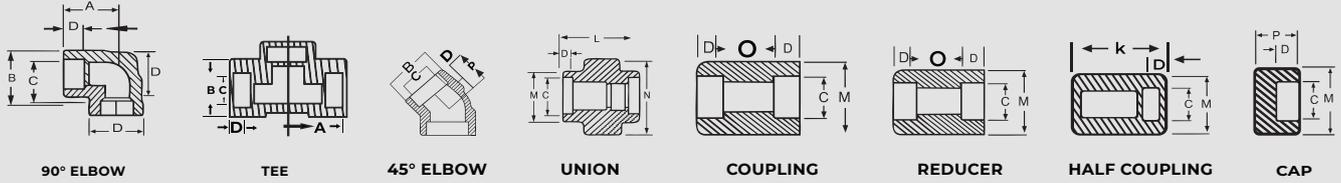


**NPT Threaded Fittings**

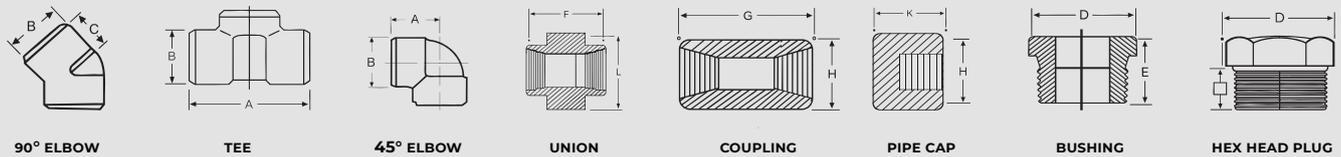


**Threaded Fittings forge**

# FORGED FITTING TO ANSI B-16.11



NOM BORE	PIPE O.D.	3000 LBS									COMMON FACTORS				6000 LBS				
		A MAX.	B MAX.	K	J	L	M	N	P	Q	C min	D min	O min	O max	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
1 1/4"	42.2	42	56	40	29	70	55	70	22.5	13	42.6	13	9	17	47	59	58	41	100
1 1/2"	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	52	37	89	75	95	29	13	61.2	16	15	23	59	84	83	55	-
2 1/2"	73.02	60	92	52	48	114	91.3	125	32	16	73.8	16	14	24	-	102	-	56	-
3"	89.00	76	110	52	51	127	108.8	140	35	16	89.8	16	14	24	-	121	-	58	-
4"	114.50	88	137	58	-	150	136.9	-	42	19	115.5	19	14	24	-	152	-	64	-



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



# FLANGEMAN



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○ BUTTWELDED FITTINGS

○ FORGED FITTINGS

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**REGISTERED OFFICE**  
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Near Alankar Cinema, Mumbai - 400 004.



**PLANT UNIT 1**  
floor-grd, plot-6/8, shed, lakadi bunder  
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