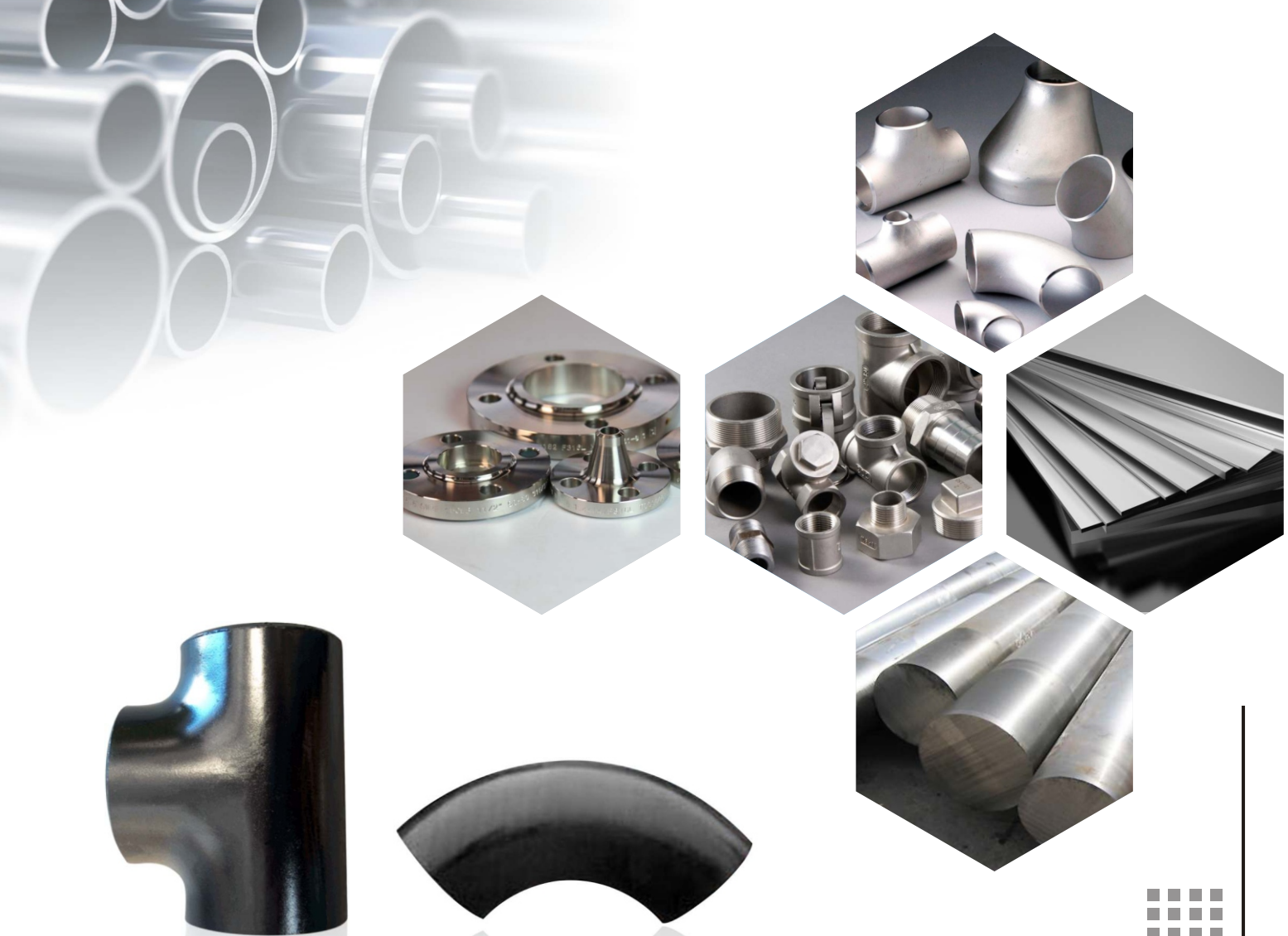
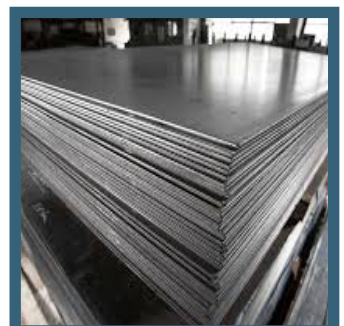
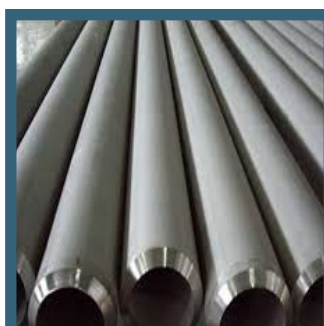
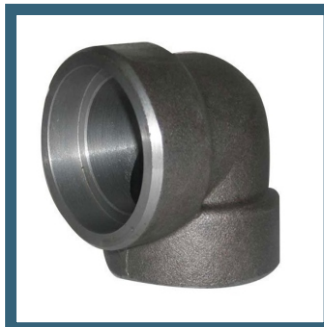
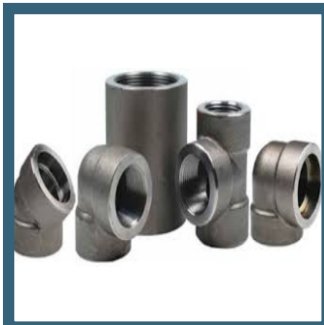
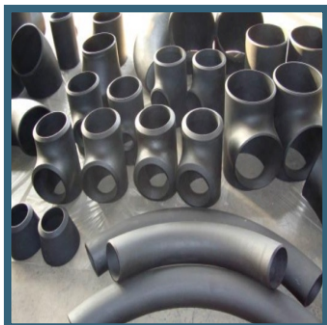
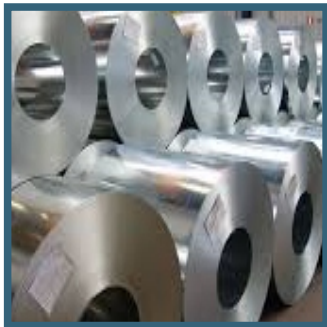




 **MANIBHADRA
METALS**
(AN ISO 9001 : 2015 CERTIFIED COMPANY)



COMPANY PROFILE

NAME	: MANIBHADRA METALS
ADDRESS	: C.P TANK,GRD-FLOOR 18A, MULSI THAKARSI BUILDING NANUBHAI DESAI ROAD, MUMBAI, MAHARASHTRA - 400 004.
EMAIL	: ✉ info@manibhadrametals.in
WEB	: 🌐 www.manibhadrametals.co.in
CONTACT PERSON	: MR.JAIKUMAR SHETH Mo.:+91-9920079735 +91-9136079735
STOCKIST & SUPPLIERS OF	Carbon Steel, Stainless Steel, Super Duplex, Brass, Copper, Aluminium, Alloy Steel : Pipes, Sheet, Coils Round Bar, Fittings & Flanges, Valves etc. Ferrous & Non-Ferrous Metal
MFRS. OF	: Pipe Fittings,Forge Fittings & Flanges
MSME	: UDYAM-MH-19-0270739
IEC	: MCJPS7936N



MANAGEMENT SYSTEM CERTIFICATE



www.royalapl.com

This is to certify that

MANIBHADRA METALS

248/5, P. B. ROAD, LATIF BUILDING, SHOP NO. 6, KHAMBATA LANE, KHETWADI BACK ROAD,
MUMBAI - 400004, MAHARASHTRA, 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, SUPPLIER, EXPORTER & STOCKIST OF SS SHEET, PLATE, COILS, PIPE, PIPE FITTING,
FLANGES, ROUND BARS & VALVE, MS PIPE, PLATE, SHEET, COILS, PIPE FITTING, FLANGES,
ROUND BARS & VALVE, BRASS PLATE, PIPE & ROUND BARS, COPPER PLATE, PIPE
& ROUND BARS, ALUMINIUM PLATE, PIPE, SHEET & COILS, FERROUS
AND NON - FERROUS MATERIALS.

Certificate Number: E20250117887
Date of certification: 31/01/2025
1st Surveillance on or before: 30/01/2026
IInd Surveillance on or before: 30/01/2027
Certification Valid Until: 30/01/2028



Accredited
QMS Certification CAB# 119012

Director (Certification)
Royal Assessments Pvt. Ltd.

623 A, Tower-B, iThum, Plot No. A - 40, Sector - 62, Noida 201301, India.
www.royalapl.com, info@royalapl.com
Phone : +91 120 4251329

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, Egypt. EGAC is member of International Accreditation Forum (IAF) and signatory of MLA.



सत्यमेव जयते

Government of India / भारत सरकार

Ministry of Commerce and Industry / वाणिज्य और उद्योग मंत्रालय

Directorate General of Foreign Trade / विदेश व्यापार महानिदेशालय

Office of the Additional Director General of Foreign Trade, Mumbai

CGO Office, New Building, SE wing, New Marine Lines, Churchgate, Mumbai / सीजीओ कार्यालय, न्यू बिल्डिंग,

एसई विंग, न्यू मरीन लाइन्स, चर्चगेट, मुंबई, मुंबई, महाराष्ट्र, 400020

Importer-Exporter Code

 This is to certify that **MANIBHADRA METALS** is issued an Importer-Exporter Code
(IEC) **MCJPS7936N** with details as follows -

IEC	MCJPS7936N
स्थाई खाता सं.(पैन) /PAN	MCJPS7936N
फर्म का नाम/Firm Name	MANIBHADRA METALS
निगम की प्रकृति /Nature of Concern	Proprietorship
जारी करने की तारीख/Date of Issue	08/01/2023
पता/Registered Address	18 A, MULSI THAKARSI BUILDING,FLOOR-GRD, CP TANK, NANUBHAI DESAI ROAD, MUMBAI, MUMBAI, MUMBAI, MAHARASHTRA, 400004
धारक का नाम / Name of the Signatory	Rishabh Vimal Sheth
Director / Partner Details	Refer online at https://dgft.gov.in or scan the QR Code
शाखा/इकाई /Branch Details	Refer online at https://dgft.gov.in or scan the QR Code

Last Modified : 08/01/2023

File Number : MUMIECPAPPLY00055413AM23



Note : This is a system-generated certificate. Authenticity / Updated details of the IEC can be checked at official DGFT website <https://dgft.gov.in> by entering the IEC and Firm Name under Services > View Any IEC Details. You can also authenticate the certificate by scanning the QR code.



INTRODUCTION

We are 30 years old company engaged in manufacturing quality pipe fittings, flanges stocking & supplying all other ferrous & non ferrous products to the discerning customers in India & Abroad.

As markets today demand better performance, more reliability & higher quality. We have expanded to new areas on the map globally, offering a larger range of products & services than even before.

With view in our mind of highlighting the products, it becomes necessary to dwell on various aspects of the products that we make and supply to various industries which are in continuous search of quality products.

Before introducing our products, we would like to answer the obvious question in your mind.

Some of the unique values that comes along with products

- Commitment to complete customer satisfaction
- Complete product knowledge
- Total Quality management
- State of the art manufacturing & assembling facilities
- Excellent sourcing capability
- Competitive pricing
- Prompt & reliable customer service

THIRD PARTY INSPECTION

List of third party inspection agency with whom we regularly work



Uhde India Ltd.



DET NORSKE VERITAS



Bharat Heavy Electricals Ltd.



HEG Ltd.



Larsen & Toubro Ltd.



BUREAU
VERITAS



Nuclear Power Corp. of India Ltd.





BUTT-WELD FITTINGS

Stainless Steel & Duplex Steel

Stainless Steel : ASTM A 403 WP - 304/304H/304L/316/316H
316/316Ti, 309, 310, 317L, 321, 347, 904L

Duplex & : Standard
Super Duplex ASTM A815 - UNS S31803, S32205 (2205)
Lean
ASTM A815, 790 - UNS S32304 (2304)
Super Duplex
ASTM A815, 790 - UNS S32750 (2507)
UNS S32760 (Zeron 100)

Alloy Steel & Carbon Steel

Alloy Steel : ASTM A 234 WPB WP5, WP9, WP11,
WP12, WP91
Carbon Steel : ASTM A 234 WPB, IS 1239 PART II
Low Temp. CS : ASTM A-420 WPL6
Other Service : Hot Dip Galvanizing, Sand Blasting

Hi-Nickel & Titanium

Hi-Nickel

Nickel : ASTM B 366 N02200, N02201
Monel : ASTM B 366 N04400, DIN N05500
Inconel : ASTM B 366 N06600, N06601, N06617
ASTM B 366 N07718
ASTM B 366 N06625
Incoloy : ASTM B 366 N08800, N08810
ASTM B 366 N08825
ASTM B 366 N08020
Hastelloy : ASTM B 366 N10276, N06022
ASTM B 366 N10665
ASTM B 366 N06455

Cupro Nickel

ASTM B 171 C70600 (90:10),
ASTM B 171 C71500 (70:30)

Size

Pipes : ½" to 30"
Schedule : Sch. 5 to Sch. XXS

Types

Stubend - (Long & Short)	Elbow (45 DEG, 90 DEG, 180 DEG)
U Bend	Tee - (Barred, Equal, Reducing)
End Cap	Reducer - (Concentric & Eccentric)
Laterals	Nipple - (Swage & Barrel)

Titanium

Commercially : ASTM B 363
Pure Gr.1 R 56250 (CP4) Gr.2 R 50400 (CP3)
Gr.3 R 50550 (CP2) Gr.4 R 50700 (CP1)
Gr.7 R 52400 Gr.11 R 52250
Alloys : ASTM B 363
Gr.5 R 56400 (6Al-4V)
Gr.23 R 56401 (6Al-4V-ELI)
Gr.12 R 53400

Specialize :
EFW / WFSW Pipes with 100% Radiography



FLANGES

Stainless Steel & Duplex Steel

Stainless Steel : ASTM A 182F - 304/304H/304L/316/316H
316/316Ti, 309, 310, 317L, 321, 347, 904L

Duplex & : ASTM A 182 - F51, F53, F55
Super Duplex

Alloy Steel & Carbon Steel

Alloy Steel : ASTM A182 F5, F9, F11, F12, F22, F91

Carbon Steel : ASTM A105 A36 IS 2062

Low Temp. CS : ASTM A-350 LF2

Other Service : Hot Dip Galvanizing, Sand Blasting

Hi-Nickel

Hi-Nickel

Nickel : ASTM B 564 N02200, N02201

Monel : ASTM B127 N04400 DIN N05500

Inconel : ASTM B 564 N06600, N06601, N06617
ASTM B 564 N07718
ASTM B 564 N06625

Incoloy : ASTM B 564 N08800, N08810
ASTM B 564 N08825
ASTM B 564 N08020

Hastelloy : ASTM B 564 N10276, N06022
ASTM B 564 N10665
ASTM B 564 N06455

Inconel®, Incoloy®, Monel®, Hastelloy®, Duplex®
are Registered Trade Marks of their Respective Owners.

Titanium

Commercially : ASTM B 861, 862, 381 Gr.1 R 56250 (CP4)
Pure : Gr.2 R 50400 (CP3) Gr.3 R 50550 (CP2)
Gr.4 R 50700 (CP1) Gr.7 R 52400
Gr.11 R 52250

Alloys : ASTM B 861, 862, 381 Gr.5 R 56400 (6Al-4V)
Gr.23 R 56401 (6Al-4V-ELI)
Gr12 R 53400

Cupro Nickel

ASTM B171 C70600 (90:10),
ASTM B171 C71500 (70:30)

Size

1/2" NB to 48" NB, ANSI B 16.5

Class

150#, 300#, 600#, 900#, 1500#, 2500#
in ASA 150 & ASA 300

Types

Weldneck	Screwed / Threaded
Socketweld	Long Weldneck
Slip on	Lapped Joint
Blind	Spectacle Blind

Specializing in :
Hi-nickel & Stainless Steel Series



PIPES & TUBES

Pipes

Stainless Steel & Duplex Steel Pipe

Size	: ½" to 30"
Schedule	: Sch. 5 to Sch. XXS
Stainless Steel	: ASTM A312, A358 - TP 304/304H/304L/316/316H/ 316L/316Ti/309/310/317/317L/321/347/904L
Duplex Steel	: ASTM A790 - UNS S31803, S32750, S32760, S32205

Alloy Steel, Carbon Steel & LTCS Pipe

Size	: 1/2" to 36"
Schedule	: Sch. 5 to Sch. XXS
Alloy Steel Pipe	: ASTM A335 Gr. P5, P9, P11, P12, P22 & P91
Carbon Steel	: ASTM A 106 Gr. B ASTM A53
Low Temp. Pipe	: ASTM A 333 Gr. 6
Line Pipe	: API 5L, X 42, 46, 52, 56, 60, 70
Mild Steel &	: IS 1239, IS 3589
Galvanized Pipe	

Copper & Nickel Alloys pipe

Size	: ½" NB to 10" NB
Standard	: 10S/40S/80S
Copper Nickel	: C70600 (90:10), C71500 (70:30), C71640
Nickel	: UNS N02200, N02201
Monel	: UNS N04400, N05500, Alloy 20
Inconel	: UNS N06600, N06601, N06625, N08800, N08810, N08825
Hastelloy	: UNS N10276, N06022, N10665, N06455

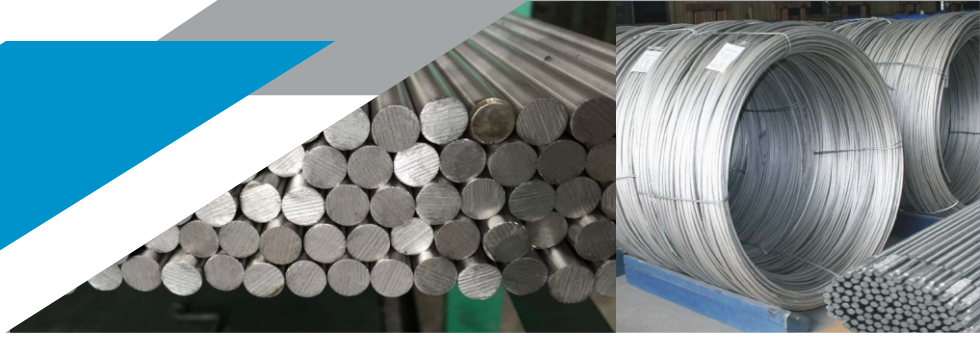
Tubes

Size	: 6 mm OD to 219.08 mm OD
Thickness	: 0.6mm-10mm-Gauge : 22 SWG/BWG to 10 SWG/BWG
Form	: Round, Square, Rectangle, Coil, 'U' Shap
Length	: Standard Length & Cut Length
Stainless Steel	: ASTM A-213, A-249, A269-TP 304/304H/304L, Tube 316/316H/316L/316Ti, TP 309, 310, 317L, 321, 347, 904 L etc.
Duplex Steel	: ASTM A790 - UNS S31803, S32750, S32760, S32205
Low Alloy Steel	: ASTM A 213 - T-11, T-12, T-22, T-5, T-9 etc.
Tube	
Carbon Steel	: BS 3059 Gr. 360 / 440, SA 179, Tube SA / ASTM A210 Gr. A1
Copper Nickel	: ASTM B111, C70600 (90:10), C71500 (70:30), Tube C71640
Admiralty Brass	: ASTM B 111 C44300, C44400, Tube C44500, C68700
Copper & Brass	: ASTM B 188 C11000, C12200, C26000, Tube C27000, C28000
Nickel Alloy Tube	: Nickel, Monel, Inconel, Alloy 20 etc.
Specialize	: Capillary Tube, IBR Tubes, Copper Nickel Tube

Test Certificate

Manufacturer Test Codification
En 3.1 & 3.2
IBR Test Certificate

Type :- Round | Square | Rectangle | Hydraulic



ROUND BAR, HEX, SQUARE, WELDING FILLER WIRE

Round Bar, Hex, Square :

Grades :

Stainless Steel	: 304/304L, 316/316L/316Ti, 321, 310/310S, 317/317L, 347, 17-4Ph.15-5Ph, 904L, 410, 420, 430, 431, 430F, 416, 440C etc.
	Copper, Brass, Aluminium, Hast Alloy, Titanium, Monel, Inconel, Nickel, etc.
Duplex Steel	: UNS 31803, UNS 32205, UNS 32750, UNS 32760
Alloy Steel	: F5, F9, F11, F22, F91 Carbon Steel, Mild Steel, Boiler Quality Plates
Specification	: ASTM, AISI, ASME, DIN, UNS etc.

High Nickel

Nickel Alloys	: 201/200
Monel Alloy	: 400/K-500
Inconel	: 600, 601, 625, 825, 800 /800H /800HT
Hastalloy	: C22, C276, B-2000
Titanium	: Gr.1, 2, 5, 7, Tantalum SMO 254, Alloy - 904L, Alloy 20, Alloy 330, etc.

Forms

Round, Square, Hex, (A/Fi), Bush, Rectangle, Flat, Block, Billet, Ingot etc.

Welding Filler Wire :

Specification :

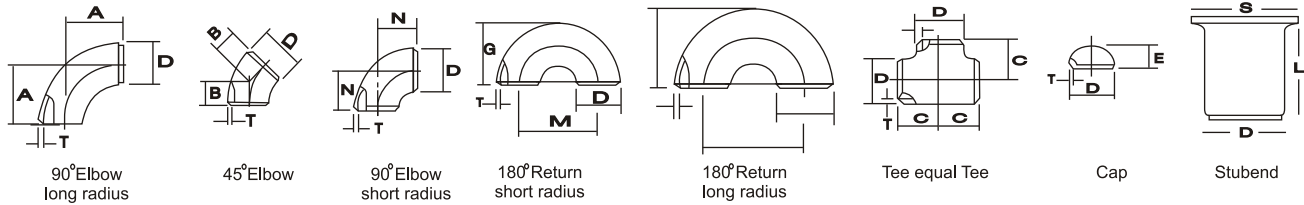
Condition	: Rolled, Forged, Annealed, Picked, Hot Rolled, Cold Roll
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Size :

Bright Bars	: From 5mm Dia upto 350mm Dia
Black Bars	: From 16mm Dia upto 350mm Dia
Square Bars	: From 5mm Dia upto 250mm Dia
Hex Bars	: From 5mm Dia upto 150mm Dia
Wires	: 0.1mm Dia to 5mm Dia

Types	: Stick Welding, Mig Welding Tig Welding Flux Cored Arc Welding
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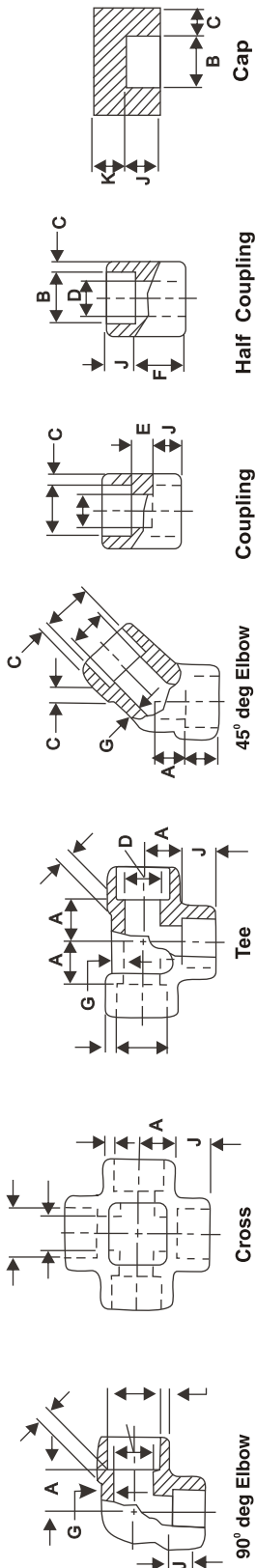
DIMENSION OF BUTT WELD FITTINGS ANSI B-16.9 / B-16.29



Nominal Pipe Size		Outside Diameter	Center to Face				Back to Face			Center to Center			Length 'L'	
INCH	MM	D	A R=1.5D	B	C	N R=1D	E	F	G	R	M	S	Short L	Long L
1/2	15	21.3	38.00	16.0	25.0	-	25.0	48.0	-	76.0		35.0	50.8	76.2
3/4	20	26.7	29.00	11.0	29.0	-	25.0	43.0	-	57.0		43.0	50.8	76.2
1	25	33.4	38.00	22.0	38.0	25.0	38.0	56.0	41.0	76.0	51.0	51.0	50.8	101.6
1.1/4	32	42.2	48.00	25.0	48.0	32.0	38.0	70.0	52.0	95.0	64.0	64.0	50.8	101.6
1.1/2	40	48.3	57.15	29.0	57.0	38.0	38.0	83.0	62.0	114.0	76.0	73.0	50.8	101.6
2	50	60.3	76.00	35.0	64.0	51.0	38.0	106.0	81.0	152.0	102.0	93.0	63.5	152.4
2.1/2	65	73.0	95.25	44.0	76.0	64.0	38.0	132.0	100.0	191.0	127.0	105.0	63.5	152.4
3	80	88.9	114.30	51.0	86.0	76.0	51.0	159.0	121.0	229.0	152.0	127.0	63.5	152.4
3.1/2	90	101.6	133.35	57.0	95.0	89.0	54.0	184.0	140.0	267.0	175.0	140.0	76.2	152.4
4	100	114.3	152.0	64.0	105.0	102.0	64.0	210.0	159.0	305.0	203.0	157.0	76.2	152.4
5	125	141.3	190.0	79.0	123.0	127.0	76.0	262.0	197.0	381.0	254.0	186.0	76.2	152.4
6	150	168.3	229.0	95.0	143.0	152.0	102.0	313.0	237.0	457.0	305.0	218.0	88.9	203.2
8	200	219.1	305.0	127.0	178.0	203.0	89.0	414.0	313.0	610.0	406.0	270.0	101.6	203.2
10	250	273.1	381.0	159.0	216.0	254.0	102.0	515.0	391.0	762.0	508.0	324.0	127.0	254.0
12	300	323.8	457.0	190.0	254.0	305.0	127.0	619.0	467.0	914.0	610.0	381.0	152.4	254.0
14	350	355.6	533.0	222.0	279.0	358.0	152.0	711.0	533.0	1067.0	711.0	413.0	152.4	305.0
16	400	406.4	610.0	254.0	305.0	406.0	165.0	813.0	610.0	1219.0	813.0	470.0	152.4	305.0
18	450	457.2	686.0	286.0	343.0	457.0	178.0	914.0	686.0	1372.0	914.0	533.0	152.4	305.0
20	500	508.0	762.0	318.0	381.0	508.0	203.0	1016.0	762.0	1524.0	1016.0	584.0	152.4	305.0
22	550	559.0	838.0	343.0	419.0	559.0	229.0	1118.0	838.0	1676.0	1118.0	614.4	152.4	305.0
24	600	610.0	914.0	381.0	432.0	610.0	254.0	1219.0	914.0	1629.0	1219.0	692.0	152.4	305.0
26	650	660.0	991.0	405.0	495.0	660.0	267.0							
28	700	711.0	1067.0	438.0	521.0	771.0	267.0							
30	750	762.0	1143.0	470.0	559.0	762.0	267.0							
32	800	813.0	1219.0	502.0	597.0	813.0	267.0							
34	850	864.0	1295.0	533.0	635.0	864.0	267.0							
36	900	914.4	1372.0	565.0	673.0	914.0	267.0							

All Dimension in Millimeters

DIMENSIONS OF SOCKET-WELD FITTINGS ANSI B 16.11



Avg. Min.

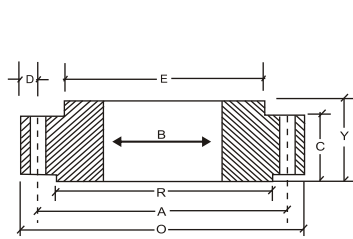
Nominal Pipe Size		Socket Bore Diameter B	Bore Diameter of Fitting D [Note(1)]		Socket Wall Thickness, C [Note (2)]								Body wall G			Min. Depth of Socket J	Center to Bottom of Socket, A						Laying Lengths			Tolerances			End Wall Thickness K Min. Class Designation		
			NB	INCH	Note 1	Class Designation		Class Designation		Class Designation		Class Designation		Class Designation		Class Designation		Class Designation		Couplings E	Half Couplings F	A	E	F	3000	6000	9000				
3000	6000	9000				3000	6000	9000	3000	6000	9000	3000	6000	9000	3000	6000	9000														
6	1/8	11.2	7.6	4.8	...	...	3.18	3.18	3.96	3.43	...	...	2.41	3.15	...	9.5	11.0	11.0	...	8.0	8.0	...	6.5	16.0	1.0	1.5	1.0	4.8	6.4	...	
8	1/4	14.6	10.0	7.1	...	...	3.78	3.30	4.60	4.01	...	...	3.02	3.68	...	9.5	11.0	13.5	...	8.0	8.0	...	6.5	16.0	1.0	1.5	1.0	4.8	6.4	...	
10	3/8	18.0	13.3	9.9	...	...	4.01	3.50	5.03	4.37	...	...	3.20	4.01	...	9.5	13.5	15.5	...	8.0	11.0	...	6.5	17.5	1.5	3.0	1.5	4.8	6.4	...	
15	1/2	22.2	16.6	12.5	7.2	...	4.67	4.09	5.97	5.18	9.35	8.18	3.73	4.78	7.47	9.5	15.5	19.5	25.5	11.0	12.5	15.5	9.5	22.5	1.5	3.0	1.5	6.4	7.9	11.2	
20	3/4	27.6	21.7	16.3	11.8	...	4.90	4.27	6.96	6.04	9.78	8.56	3.91	5.56	7.82	12.5	19.0	22.5	28.5	13.0	14.0	19.0	9.5	24.0	1.5	3.0	1.5	6.4	7.9	12.7	
25	1	34.3	27.4	21.5	16.0	...	5.69	4.98	7.92	6.93	11.38	9.96	4.55	6.35	9.09	12.5	22.5	27.0	32.0	14.0	17.5	20.5	12.5	28.5	2.0	4.0	2.0	9.6	11.2	14.2	
32	1 1/4	43.1	35.8	30.2	23.5	...	6.07	5.28	7.92	6.93	12.14	10.62	4.85	6.35	9.70	12.5	27.0	32.0	35.0	17.5	20.5	22.5	12.5	30.0	2.0	4.0	2.0	9.6	11.2	14.2	
40	1 1/2	49.2	41.6	34.7	28.7	...	6.35	5.54	8.92	7.80	12.70	11.12	5.08	7.14	10.15	12.5	32.0	38.0	38.0	20.5	25.5	25.5	12.5	32.0	2.0	4.0	2.0	11.2	12.7	15.7	
50	2	61.7	53.3	43.6	38.9	...	6.93	6.04	10.92	9.50	13.84	12.12	5.54	8.74	11.07	16.0	38.0	41.0	54.0	25.5	28.5	28.5	19.0	41.0	2.0	4.0	2.0	12.7	15.7	19.0	
65	2 1/2	74.4	64.2	...	...	...	8.76	7.67	...	...	...	...	7.01	...	...	16.0	41.0	...	...	28.5	...	...	19.0	43.0	2.5	5.0	2.5	15.7	19.0	...	
80	3	90.3	79.4	...	...	...	9.52	8.30	...	...	...	...	7.62	...	...	16.0	57.0	...	...	32.0	...	...	19.0	44.5	2.5	5.0	2.5	19.0	22.4	...	
100	4	115.7	103.8	...	...	...	10.69	9.35	...	...	...	...	8.56	...	...	19.0	66.5	...	...	41.0	...	...	19.0	48.0	2.5	5.0	2.5	22.4	28.4	...	

(1) All Dimensions Are In Millimeters

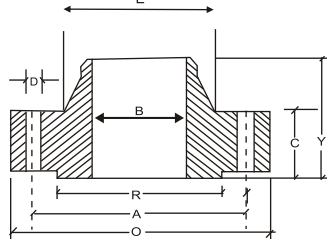
(2) Upper and lower values for each size are the respective maximum and minimum dimensions.

(3) Average of socket wall thickness around periphery shall be no less than listed values. The minimum values are permitted in localized areas.

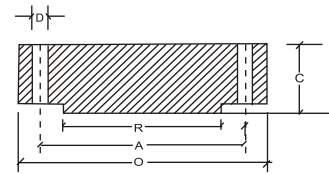
DIMENSIONS OF FORGED FLANGES ANSI B 16.5



SLIP-ON FLANGE



WELDING NECK FLANGE



BLIND FLANGE

ASA 150 CLASS

Nominal Pipe Size	Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Lenght through Hub			Dia of Bore		Dia of R/F	Depth of Socket	Pipe Dia
							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	X
15	1/2	88.9	60.3	15.9	4	11.1	15.9	47.6	15.9	22.3	22.9	34.9	9.5	21.33
20	3/4	98.4	69.8	15.9	4	12.7	15.9	52.4	15.9	27.7	28.2	42.9	11.1	26.67
25	1	107.9	79.4	15.9	4	14.3	17.5	55.6	17.5	34.5	35.0	50.8	12.7	33.40
32	1 1/4	117.5	88.9	15.9	4	15.9	20.6	57.1	20.6	43.2	43.7	63.5	14.3	42.16
40	1 1/2	127.0	98.4	15.9	4	17.5	22.2	61.9	22.2	49.5	50.0	73.0	15.9	48.26
50	2	152.4	120.6	19.0	4	19.0	25.4	63.5	25.4	62.0	62.5	92.1	17.5	60.31
65	2 1/2	177.8	139.7	19.0	4	22.2	28.6	69.8	28.6	74.7	75.4	104.8	19.0	73.02
80	3	190.5	152.4	19.0	4	23.8	30.2	69.8	30.2	90.7	91.4	127.0	20.6	88.90
100	4	228.6	190.5	19.0	8	23.8	33.3	76.2	33.3	116.1	116.8	157.2	23.8	114.30
125	5	254.0	215.9	22.2	8	23.8	36.5	88.9	36.5	143.8	144.5	185.7	23.8	141.30
150	6	279.4	241.3	22.2	8	25.4	39.7	88.9	39.7	170.7	171.4	215.9	27.0	168.27
200	8	342.9	298.4	22.2	8	28.6	44.4	101.6	44.4	221.5	222.2	269.9	31.7	219.07
250	10	406.4	361.9	25.4	12	30.2	49.2	101.6	49.2	276.3	277.4	323.8	33.3	273.05
300	12	482.6	431.8	25.4	12	31.8	55.6	114.3	55.6	327.1	328.2	381.0	39.7	323.85
350	14	533.4	476.2	28.6	12	34.9	57.1	127.0	79.4	359.1	360.2	412.7	41.3	355.60
400	16	596.9	539.7	28.6	16	36.5	63.5	127.0	87.3	410.5	411.2	469.9	44.4	406.40
450	18	635.0	577.8	31.7	16	39.7	68.3	139.7	96.8	461.8	462.3	533.4	49.2	457.20
500	20	698.5	635.0	31.7	20	42.9	73.0	144.5	103.2	513.1	514.3	584.2	54.0	508.00
600	24	812.8	749.3	34.9	20	47.6	82.5	152.4	111.1	615.9	615.9	692.1	63.5	609.60

All Dimensions are in Millimeters • Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, which is included in Thickness(C) and Lenght through Hub(Y).

ASA 300 CLASS

Nominal Pipe Size	Flange Dia	Dia of Bolt Circle	Dia of Bolt Holes	No. of Holes	Thk of Flange	Dia of Hub	Lenght through Hub			Dia of Bore		Dia of R/F	Depth of Socket	Pipe Dia
							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	X
15	1/2	95.2	66.7	15.9	4	14.3	22.2	52.4	22.2	22.3	22.9	34.9	9.5	21.33
20	3/4	117.5	82.5	19.0	4	15.9	25.4	57.1	25.4	27.7	28.2	42.9	11.1	26.67
25	1	123.8	88.9	19.0	4	17.5	27.0	61.9	27.0	34.5	35.0	50.8	12.7	33.40
32	1 1/4	133.3	98.4	19.0	4	19.0	27.0	65.1	27.0	43.2	43.7	63.5	14.3	42.16
40	1 1/2	155.6	114.3	22.2	4	20.6	30.2	68.3	30.2	49.5	50.0	73.0	15.9	48.26
50	2	165.1	127.0	19.0	8	22.2	33.3	69.8	33.3	62.0	62.5	92.1	17.5	60.31
65	2 1/2	190.5	149.2	22.2	8	25.4	38.1	76.2	38.1	74.7	75.4	104.8	19.0	73.02
80	3	209.5	168.3	22.2	8	28.6	42.9	79.4	42.9	90.7	91.4	127.0	20.6	88.90
100	4	254.0	200.0	22.2	8	31.8	47.6	85.7	47.6	116.1	116.8	157.2	23.8	114.30
125	5	279.4	234.9	22.2	8	34.9	50.8	98.4	50.8	143.8	144.5	185.7	-	141.30
150	6	317.5	269.9	22.2	12	36.5	52.4	98.4	52.4	170.7	171.4	215.9	-	168.27
200	8	381.0	330.2	25.4	12	41.3	61.9	111.1	61.9	221.5	222.2	269.9	-	219.07
250	10	444.5	387.3	28.6	16	47.6	66.7	117.5	95.2	276.3	277.4	323.8	-	273.05
300	12	520.7	450.8	31.7	16	50.8	73.0	130.2	101.6	327.1	328.2	381.0	-	323.85
350	14	584.2	514.3	31.7	20	54.0	76.2	142.9	111.1	359.1	360.2	412.7	-	355.60
400	16	647.7	571.5	34.9	20	57.2	82.5	146.0	120.6	410.5	411.2	469.9	-	406.40
450	18	711.2	628.5	34.9	24	60.3	88.9	158.7	130.2	461.8	462.3	533.4	-	457.20
500	20	774.7	685.8	34.9	24	63.5	95.2	161.9	139.7	513.1	514.3	584.2	-	508.00
600	24	914.4	812.8	41.3	24	69.8	106.4	168.3	152.4	615.9	615.9	692.1	-	609.60

All Dimensions are in Millimeters • Flanges except Lap Joint will be furnished with (1.6mm) Raised Face, which is included in Thickness(C) and Lenght through Hub(Y).

STAINLESS STEEL PIPE DIMENSION AS PER ASTM AND WEIGHT-KG. PER MTR. (ANSI B 36.19-1965)

Nominal Bore		Outside Diameter	Schedule 5S		Schedule 10S		Schedule 20S		Schedule 40S		Schedule 80S		Schedule 160S		Schedule XXS	
mm	Inch	Inch	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)
3	1/8	10.3	1.2	0.26	1.24	0.28	1.5	0.33	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.2	0.37	1.65	0.49	2.00	0.58	2.24	0.63	3.02	0.80	-	-	-	-
10	3/8	17.1	1.2	0.47	1.65	0.63	2.00	0.74	2.31	0.84	3.20	1.10	-	-	-	-
15	1/2	21.3	1.65	0.80	2.11	1.00	2.30	1.07	2.77	1.27	3.73	1.62	4.78	1.94	7.47	2.55
20	3/4	26.7	1.65	1.02	2.11	1.28	2.55	1.52	2.87	1.69	3.91	2.20	5.56	2.90	7.82	3.64
25	1	33.4	1.65	1.30	2.77	2.09	3.00	2.25	3.38	2.50	4.55	3.24	6.35	4.24	9.09	5.45
32	1.1/4	42.2	1.65	1.65	2.77	2.70	3.0	2.90	3.58	3.39	4.85	4.47	6.35	5.61	9.70	7.77
40	1.1/2	48.3	1.65	1.91	2.77	3.11	3.00	3.35	3.68	4.05	5.08	5.41	7.14	7.25	10.15	9.55
50	2	60.3	1.65	2.39	2.77	3.93	3.00	4.24	3.91	5.44	5.54	7.48	8.74	11.11	11.07	13.44
65	2.1/2	73.0	2.11	3.69	3.05	5.26	4.00	6.81	5.16	8.63	7.01	11.41	9.53	14.91	14.02	20.39
80	3	88.9	2.11	4.51	3.05	6.45	4.00	8.37	5.49	11.29	7.62	15.27	11.10	21.30	15.24	27.68
100	4	114.3	2.11	5.84	3.05	8.36	4.50	12.18	6.02	16.07	8.56	22.32	13.49	33.54	17.12	41.03
125	5	141.3	2.77	9.47	3.40	11.57	5.00	16.80	6.55	21.80	9.53	30.97	15.88	49.11	19.05	57.43
150	6	168.3	2.77	11.32	3.40	13.82	6.35	25.36	7.11	28.26	10.97	42.58	18.25	67.53	21.95	79.22
200	8	219.1	2.77	14.78	3.76	19.96	6.35	33.31	8.18	42.55	12.70	64.64	23.01	111.27	22.23	107.92
250	10	273.1	3.40	22.61	4.19	27.78	6.35	41.77	8.27	60.31	12.70	81.55	28.58	172.33	25.40	155.15
300	12	323.8	3.96	31.24	4.57	36.00	6.35	49.70	9.53	73.85	12.70	97.43	33.32	238.68	25.40	186.90
350	14	355.6	3.96	34.34	4.76	41.3	7.92	67.90	9.53	82.367						
400	16	406.4	4.19	41.56	4.78	47.34	7.92	77.83	9.53	94.457						
450	18	457.2	4.19	46.81	4.76	53.32	7.92	87.74	9.53	106.547						
500	20	508.0	4.78	59.31	5.54	68.64	9.53	117.14	9.53	117.14						
600	24	610.0	5.54	82.57	6.35	94.52	9.53	114.11	9.53	141.11						
650	26	660.4					12.70	205.97	9.53	155.32	12.70	222.13				
700	28	711.2					12.70	222.13	9.53	167.44	12.70	238.28				
750	30	762.0	6.35	120.15	7.92	149.55	12.70	238.28	9.53	179.56	12.70	254.44				
800	32	812.8					12.70	254.44	9.53	191.69	12.70	270.50				

FORMULA OF WEIGHT CALCULATION

1)	WEIGHT OF STAINLESS STEEL PIPES & TUBES OD (mm) - W.T. (mm) X W.T. (mm) X 0.02466 = Kg. per Mtr.
2)	SHEET WIDTH REQUIRED FOR ROLLED AND WELDED PIPES O.D (mm) - THK (mm) X 3.14 = Sheet Width
3)	WEIGHT OF STAINLESS STEEL SHEETS Length (mtr.) X Width (mtr.) X Yhk (mm) x 8 = Kg Per Sheet
4)	WEIGHT OF STAINLESS STEEL CIRCLE & BLANKS O.D.(mm) x O.D.(mm) X Thk (mm) / 160 / 1000 = Kg Per Pcs.
5)	WEIGHT OF STAINLESS STEEL ROUNDS Dia. (mm) X Dia. (mm) X 0.00623 = Per Mtr.
6)	WEIGHT OF STAINLESS STEEL HEXAGONAL RODS Dia.(mm) X Dia.(mm) x 0.00879 = Per Mtr.
7)	WEIGHT OF STAINLESS STEEL SQUARE BARS Dia. (mm) x Dia. (mm) x 0.00787 = Kg Per Mtr.
8)	WEIGHT OF CARBON STEEL PIPES & TUBES O.D. (mm) X W.T.(mm) X W.T. (mm) X 0.02466 = Kg. Per Mtr.
9)	WEIGHT OF CARBON STEEL SHEETS - PLATES Length (mtr.) X Width (mtr.) X Thk (mm) X 7.85 = Kg. Per Sheet
10)	WEIGHT OF COPPER PIPES O.D. (mm) - W.T.(mm) X W.T. (mm) X 0.0256 = Per Mtr.
11)	WEIGHT OF LEAD PIPES (appro.) O.D.(mm) - W.T.(mm) X W.T. (mm) X 0.0345 = Per Mtr.
12)	WEIGHT OF LEAD SHEETS (appro.) Length (mtr.) X Width (mtr.) X Thk (mm) X 11.2 = Kg Per Sheet
13)	WEIGHT OF ALUMINIUM PIPES (appro.) O.D. (mm) - W.T. (mm) X W.T. (mm) X 0.0082 = Kg Per Sheet
14)	WEIGHT OF ALUMINIUM SHEETS Length (mtr.) X Width (mtr.) X Thk (mm) x 2.66 = Kg Per Sheet



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