



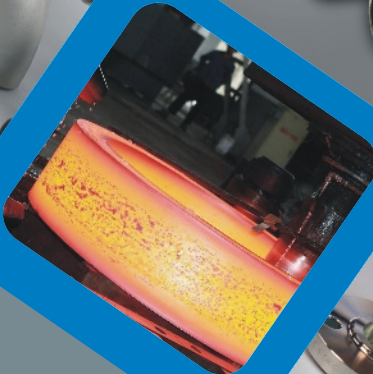
AN ISO 9001:2015,
ISO 14001:2015,
ISO 45001:2018,
PED CERTIFIED CO. &
CE (EUROPE CERTIFIED)



VENUS METAL AND TUBES

(Gulf Lloyds ISO 9001:2015 Co.)

**Manufacturer, Authorised Stockiest & Supplier of
Seamless & Welded Pipes & Tubes, Fittings, Flanges etc.**



Exporters, Stockiest of : High Nickel Alloy,
Hastelloy, SMO 254, Monel, Inconel, Titanium,
Duplex, Super Duplex, Stainless Steel, CS in form of
Seamless, Welded & EFW Pipes, Tubes, Fittings,
Flanges, Fasteners etc

✉ sales@venuspipentubes.com

✉ venuspipentubes@gmail.com

🌐 www.venuspipentubes.com



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Company Profile

We are 30 years old company engaged in making quality pipe fittings, flanges supplying & exporting 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 a 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

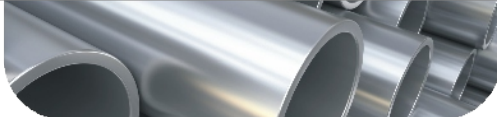
Quality Control

Total Quality Management (TQM) is strictly followed right from the selection of materials & vendors upto the final despatch to the customers. Each procedures at various levels are documented and necessary corrective measures are taken at each step to ensure absolute quality of products. Effective customer response, complete management are also maintained for trouble free performance.

Third Party Inspection

We also accept third party inspection by reputed agencies like :





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Pipes

Stainless Steel & Duplex Steel Pipe

<u>Size</u>	: 15 NB to 3000 NB
<u>Schedule</u>	: Sch. 5 to Sch. XXS
<u>Stainless Steel</u>	: ASTM A312, A358 - TP 304/304H/304L/316/ 316H/316L/316Ti/309/310/317/317L/321/ 347/904L
<u>Duplex Steel</u>	: ASTM A790 - UNS S31803, S32750, S32760, S32205

Alloy Steel, Carbon Steel & LTCS Pipe

<u>Size</u>	: 15 NB to 3000 NB
<u>Schedule</u>	: Sch. 5 to Sch. XXS
<u>Alloy Steel Pipe</u>	: ASTM A335 Gr. P5, P9, P11, P12, P22 & P91
<u>Carbon Steel</u>	: ASTM A 106 Gr. B ASTM A53
<u>Low Temp. Pipe</u>	: ASTM A 333 Gr. 6
<u>Line Pipe</u>	: API 5L, X 42, 46, 52, 56, 60, 70
<u>Mild Steel &</u>	: IS 1239, IS 3589
<u>Galvanized Pipe</u>	

Tubes

<u>Size</u>	: 6 mm OD to 152.4 mm OD
<u>Thickness</u>	: 0.6mm-10mm-Gauge : 22 SWG/BWG to 10 SWG/BWG
<u>Form</u>	: Round, Square, Rectangle, Coil, 'U' Shap
<u>Length</u>	: Standard Length & Cut Length
<u>Stainless Steel</u>	: ASTM A-213, A-249, A269-TP 304/304H/304L, 316/316H/316L/316Ti, TP 309, 310, 317L, 321, 347, 904 L etc.

Copper & Nickel Alloys pipe

<u>Size</u>	: 15 NB to 600 NB
<u>Standard</u>	: 10S/40S/80S
<u>Copper Nickel</u>	: C70600 (90:10), C71500 (70:30), C71640
<u>Nickel</u>	: UNS N02200, N02201
<u>Monel</u>	: UNS N04400, N05500, Alloy 20
<u>Inconel</u>	: UNS N06600, N06601, N06625, N08800, N08810, N08825
<u>Hastelloy</u>	: UNS N10276, N06022, N10665, N06455



Test Certificate

Type :-

Round | Square | Rectangle | Hydraulic

Manufacturer Test Certification

En 3.1 & 3.2 IBR Test Certificate & NACE MR 0175 / MR 0103



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BUTT WELD FITTINGS

Stainless Steel: ASTM A403 WP 304/ 304L/ 304H/310S/ 310H/
316/ 316L/ 317/ 317L/ 321/ 310/ 347/ 347H/ 904L etc.

Carbon Steel: ASTM A234 WPB / A420 WPL3/ A420 WPL6/
MSS-SP-75 WPHY 42/46/52 /56/60/65/70

Alloy Steel: ASTM A234 WP1/ WP5/ WP9/ WP11/ WP22/
WP91 etc.

Others: Monel, Nickel, Inconel, Hastalloy, Copper, Brass,
Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed
Steel, Zinc, Lead, etc.

Types: Elbow, Tee, Reducer, Return Bends, Stub-Ends, Cap,
Collar, Cross, Insert etc.

Size: 8 NB TO 3000 NB. (Seamless & Welded)



Ferrule Fittings & Manifolds

Stainless Steel : ASTM A182 F304/ 304L/ 304H/ 316/
316L/ 317/ 317L/ 321/310/ 347/ 904L etc.

Carbon Steel : ASTM A105 / A694 F42/46/ 52/56/ 60/
65/70 / A350 LF3/ A350 LF2.

Alloy Steel : ASTM A182 F1/ F5/ F9/ F11/ F22/F91 etc.

Duplex & Super Duplex Steel : UNS S31803, UNS S32750,
UNS S32760, 904L, Alloy 20

Other : Stainless Steel, Nickel Alloys, Carbon Steel, Alloy
Steel, Monel, Nickel, Inconel, Hastelloy, Copper, Etc.

Types : Nipples, Adaptors, Crosses, Union Ball Joints,
Reducing Bushing, Reducers, Pipe Caps, Couplings, Pipe
Plug, Hollow Hex Plug, Elbow, Reducing Union, 90 Deg.
Union Elbow, Reducing 90 Deg. Union Elbow Etc.
Extender Leg 90 Deg. Union Elbow, 45 Deg. Union Elbow,
Union Tee, Female Connector, Male Connector, Manifold
Tee, Locator Union, Extended Run Leg Union Tee,
Reducing Tee, Tribow, ATW Weld Ring, Tube Socket Weld
To Pipe Butt Weld, Tube, Butt Weld To Tube Socket Weld,
Port Connector, Etc.





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FLANGES



- Stainless Steel** : ASTM A182 F304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 347/904L/ Etc.
- Carbon Steel** : ASTM A105/ A694 F42/ 46/ 52/ 56/ 60/ 65/ 70/ A350 LF3/ A350 LF2, Etc.
- Alloy Steel** : ASTM A 182 F1/ F5/ F9/ F11/ F22/ F91/ Etc.
- Duplex Steel** : 2205 (Duplex), 2507 (Super Duplex)
UNS - 31803, 32750, 32990
- Others** : Monel, Nickel, Inconel, Hastelloy, Copper, Titanium, etc.
- Types** : Weldneck, Slipon, Blind, Socket Weld, Lap Joint, Spectacles, Ring Joint, Oriface, Long Weldneck, Etc.
- Size** : 8 NB TO 3000 NB
- Class** : 150#, 300#, 400#, 600#, 900#, 1500# & 2500#.
Also as per the National & International Standard.

- Stainless Steel** : ASTM A182 F304/ 304L/ 304H/ 310S/ 310H/ 316/ 316L/316H/ 317/ 317L/ 321/321H/ 347/347H/ 904L etc.
- Carbon Steel** : ASTM A105 / A694 F42/46/ 52/56/ 60/ 65/70/A350 LF2.
- Alloy Steel** : ASTM A182 F1/ F5/ F9/ F11/ F22/F91 etc.
- Others** : Monel, Nickel, Inconel, Hastelloy, Copper, etc.
- Types** : Elbow, Tee, Union, Cross, Coupling, Cap, Bushing, Plug, Swage Nipple, Welding Boss, Hexagon - Nipple, Barrel Nipple, Welding Nipple, Parraler - Nipple, Street Elbow, Hexagon Nut, Hose Nipple, Bend, Adapter, Insert, Weldolet, Elbowlet, Sockolet, Thredolet, Nipolet, Letrolet, etc.
- Size** : 6 NB TO 100 NB. (Socketweld & Threaded)
- Class** : 3000#, 6000#, 9000#.

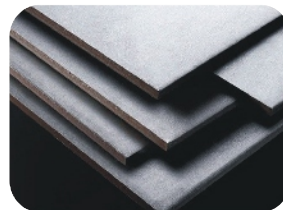
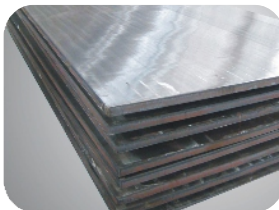
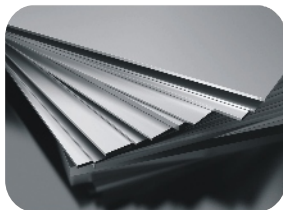
FORGED FITTINGS





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SHEETS/PLATES & COILS DETAILS

We are Importer, Stockiest and supplier of a extensive range of Stainless Steel Plates to our clients. Various national as well as international clients are placing bulk orders for the Stainless Steel Coils due to the unmatched quality and unsurpassable performance. Stainless Steel Coils we supply ensures high durability, tensile strength and resistivity to adverse conditions. Additionally, Customers are eased with the availability of the Cold Rolled Stainless Steel Coils in varied grades, sizes dimensions and finishes as pre the specifications provided.

User Industries

Petrochemical, Chemical, Pharmaceutical, Fertiliser, Agro Chemical, Aerospace, Desalination, Food & Beverage, Sugar, Distillery, Oil & Gas, Power Generation, Cement, Petroleum Refinery, Pulp & paper & Man Made Fiber.

Range : 0.4 mm To 150 mm thickness in Sheets, Plates & Coils

Types : Coil, Foil, Roll, Plain Sheet, Shim Sheet, Perforated Sheet, Chequered Plate, Strip, Flat, Blank (Circle), Ring (Flange)

Material of Construction

High Nickel Alloys	Hastelloy C276 & C22, Nickel 200 & 201, Monel 400 & 500, Inconel 600 & 625, Incoloy 800 & Alloy-20 & Cupro Nickel
Duplex	ASTM A815 / UNS S31803 & S32205 (2205)
Super Duplex	ASTM A815 / UNS S32750 (2507 & S32760.
Titanium	ASTM B265 Gr. - 1, 2, 3, 5 (6AL - 4V), 7, 9, 11, 12, 23 (6AL - 4V ELI)
Stainless Steel	ASTM A240, TP304, 304L, 304H, 316, 316L, 316H, 316Ti, 309, 310, 317L, 321, 347, 409, 410, 420, 430, 446, 904L, 202
Carbon Steel	ASTM A36, A275JR, IS-2062 GR. A / B, Fe 410WA, Fe 410WB, ASTM / ASME A516 / 517 GR. 60 / 70, IS 2062, IS 2002
Test Certificates	MTC, IBR & Third Party Inspection

STAINLESS STEEL BRIGHT BARS (PEELED/TURNED)

We, within a short span has become a major source for Stainless Steel Rolled / Forged / Peeled Rounds, Rcs, Blooms & Billets. We have huge stocks for our quality products which are supplied on time at lowest possible rates meeting most of our customer's requirement.

Product Range

Condition	Peeled, Centreless & Polished	Peeled & Polished	Peeled (Rough Turned)	Forged, Rough Turned
Grades	201, 202, 301, 303, 304, 304L, 310, 316, 316L, 321, 410, 416, 420, 430, 431, 430F & others	85mm to 140mm (3-1/4" to 5 - 1/2")	304, 304L, 316L, 410, 416, 420, 430	303, 304, 304L, 316, 316L, 410, 416, 420, 431
Diameter (Size)	20mm to 85mm (3/4" to 3-1/4")	85mm to 140mm (3-1/4" to 5 - 1/2")	25mm to 140mm (1" to 5-1/2")	150mm to 400mm (6" to 16")
Diameter Tolerance	h9 (Din 671) (ASTM A484)	h 11	K 12/K 13 (Din 1013)	-0mm to +3mm (-0"/+0.12")
Length	3/4/5, 6/6 meter (12/14ft/20 feet)	3/4/5, 6/6 meter (12/14ft/20 feet)	3/4/5, 6/6 meter 10 feet, 16 feet	3 meter - 5 meter
Length Tolerance	-0/+200mm of + 100mm to + 50mm (-0"/1 feet or +4" or 2")	-0/+ 200mm or +100mm or +50mm (-0"/+1 feet or +4" or 2")	-0/+ 100mm or 500mm (-0"/+3 feet or +2 feet)	-0/+2 meter - (-0"/+6 feet)



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Stainless Steel is essentially a low carbon steel which contains chromium at 10% or more by weight . It is this addition of chromium of chromium that gives the steel its unique stainless corrosion resisting properties. The corrosion resistance and useful properties of the are enhanced by increase, chromium content and the addition of other such as molybdenum, nickel and nitrogen.

Chemical Composition of Stainless Steel										Nearest Equivalent Specification		
USN NO.	AISI Grade	C Max	Mn Max	P Max	S Max	Si Max	Cr	Ni	Mo	Cu	I.S.	Other Element

Austenitic

S20100	201	0.15	5.5/7.5	0.06	0.03	1	16.0/18.0	3.5/5.5	-	-	-	-
S20200	202	0.15	7.5/10	0.06	0.03	1	17.0/19.0	4.0/6.0	-	-	-	-
S30100	301	0.15	2.0max	0.045	0.040	1.0	16.0/18.0	6.0/8.0	-	-	10Cr17Ni7	-
S30200	302	0.15	2.0	0.045	0.030	1.0	17.0/19.0	8.0/10.0	-	-	07Cr18Ni9	E-4-3-4%
S30300	303	0.15	2.0	0.045	0.15 min	1.0	17.0/19.0	8.0/10.0	-	-	15Cr18Ni9	E-4-1%Max
S30400	304	0.08	2.0	0.045	0.030	1.0	18.0/20.0	8.0/10.0	-	-	04Cr18Ni10	-
S30403	304L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	8.0/12.0	-	-	02Cr18Ni11	-
S30453	304LN	0.030	2.0	0.045	0.030	0.75	18.0/20.0	8.0/11.0	-	-	-	-
S30409	304H	0.05	2.0	0.045	0.03	1	18.0/20.0	8.5/9.5	-	-	-	CU:-2-2.50
S30900	309	0.20	2.0 max	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	20Cr24Ni12	-
S30908	309S	0.08	2.0	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	-	-
S31009	310H ⁴	0.25	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	10Cr25Ni12	-
S31008	310S	0.08	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	-	-
S31600	316	0.08	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	04Cr17Ni12Mo2	-
S31603	316L	0.030	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	03Cr17Ni12Mo2	-
S31653	316LN	0.030	2.0	0.045	0.030	0.75	16.0/18.0	10.0/14.0	2.0/3.0	-	-	-
S31635	316Ti	0.080	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	-	Ti5xCmin
S31700	317	0.08	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	-	-
S31703	317L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	-	N:0.10/0.22
S31753	317LN	0.03	2.0	0.045	0.03	1	18.0/20.0	11.0/15.0	3.0/4.0	-	-	N:0.10/0.22
S32100	321	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	-	-	04Cr18Ni10Ti20	Ti5xCmin
S34700	347	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	-	-	04Cr18Ni10Nb-40	Nb/Ta10xCmin
N08904	904L ^G	0.02	2.0	0.045	0.035	1	19.0/23.0	23.0/28.0	4.0-5.0	-	-	CU : 1-2

Ferritic

S41000	410	0.15	1.00	0.040	0.030	1.0	11.50-13.50	0.75	...	...	...	...
S41008	410S	0.08	1.00	0.040	0.030	1.0	11.50-13.50	0.60	...	...	...	...
S42900	429 ^G	0.12	1.00	0.040	0.030	1.0	14.00-16.00	...	...	...	...	...
S43000	430	0.12	1.00	0.040	0.030	1.0	16.00-18.00	0.75	...	...	...	...
S43035	439	0.07	1.00	0.040	0.030	1.0	17.00-19.00	0.050	...	0.04	...	Ti 0.20 + 4 (C+N) min; 1.10 max Al 0.15max
S44400	444	0.025	1.00	0.040	0.030	1.0	17.5-19.5	1.00	1.75-2.50	0.035	...	Ti+Cb 0.20+4 (C+N min)
	409L	≤ 0.030	≤ 1.00	≤ 1.00	-	-	-	10.50-11.75	~	-	-	Ti 6 X C-0.75

Duplex & Super Duplex

S31803	---	0.030	2.00	0.030	0.020	1.0	21.0-23.0	4.5-6.5	2.5-3.5	---	0.08-0.20	---
S32550	255 ^G	0.040	1.50	0.040	0.030	1.0	24.0-27.0	4.5-6.5	2.9-3.9	1.50-2.50	0.10-0.25	---
S32750	2507	0.030	1.20	0.035	0.020	0.8	24.0-26.0	6.0-8.0	3.0-5.0	0.50	0.24-0.32	---
S32760	---	0.030	1.00	0.030	0.010	1.0	24.0-26.0	6.0-8.0	3.0-4.0	0.50-1.00	0.20-0.30	W 0.50-1.00



+91 8928179536 / +91 9982861232



+91-22-66109860/1



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

Nominal Bore		Outside Diameter	Schedule 5S		Schedule 10		Schedule 10s		Schedule 20		Schedule 40		Schedule 40S		Schedule 80S		Schedule 160S		Schedule XXS	
mm	INCH	mm	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)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)
3	1/8	10.3	1.24	0.28	1.24	0.28	1.24	0.28	1.5	0.33	1.73	0.37	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.24	0.39	1.65	0.49	1.65	0.49	2.00	0.58	2.24	0.64	2.24	0.64	3.02	0.80	-	-	-	-
10	3/8	17.1	1.24	0.49	1.65	0.63	1.65	0.63	2.00	0.74	2.31	0.85	2.31	0.85	3.2	1.10	-	-	-	-
15	1/2	21.3	1.65	0.80	2.11	1.00	2.11	1.00	2.30	1.07	2.77	1.27	2.77	1.27	3.75	1.63	4.75	1.95	7.47	2.56
20	3/4	26.7	1.65	1.03	2.11	1.29	2.11	1.29	2.55	1.52	2.87	1.70	2.87	1.70	3.91	2.21	5.54	2.91	7.82	3.66
25	1	33.4	1.65	1.30	2.11	2.10	2.11	2.10	3.00	2.25	3.38	2.52	3.38	2.52	4.55	3.26	6.35	4.26	9.09	5.48
32	1.1/4	42.2	1.65	1.66	2.77	2.71	2.77	2.71	3.00	2.90	3.56	3.41	3.56	3.41	4.85	4.49	6.35	5.65	9.7	7.82
40	1.1/2	48.3	1.65	1.91	2.77	3.13	2.77	3.13	3.00	3.35	3.68	4.07	3.68	4.07	5.08	5.45	7.14	7.29	10.16	9.61
50	2	60.3	1.65	2.40	2.77	3.95	2.77	3.95	3.00	4.24	3.91	5.47	3.91	5.47	5.54	7.52	8.74	11.18	11.07	13.52
65	2.1/2	73.0	2.11	3.71	3.05	5.29	3.05	5.29	3.50	6.81	5.16	8.68	5.16	8.68	7.01	11.47	9.53	15.00	14.2	20.71
80	3	88.9	2.11	4.54	3.05	6.56	3.05	6.49	4.00	8.37	5.49	11.47	5.49	11.36	7.62	15.36	11.10	21.42	15.24	27.84
100	4	114.3	2.11	5.87	3.05	8.50	3.05	8.41	4.50	12.18	6.02	16.32	6.02	16.17	8.56	22.45	13.49	33.73	17.12	41.26
125	5	141.3	2.77	9.52	3.40	11.74	3.40	11.63	5.00	16.80	6.55	22.10	6.55	21.89	9.53	31.97	15.88	49.39	19.05	57.76
150	6	168.1	2.77	11.37	3.40	14.04	3.40	13.90	6.35	25.36	7.11	28.70	7.11	28.42	10.97	42.80	18.20	67.75	21.95	79.67
200	8	219.1	2.77	14.86	3.76	20.27	3.76	20.08	6.35	33.83	8.18	43.20	8.18	42.79	12.7	65.01	23.00	111.86	22.23	108.54
250	10	273.1	3.40	22.74	4.19	28.21	4.19	27.94	6.35	42.41	9.27	61.23	9.27	60.65	12.7	82.02	28.00	172.4	25.4	156.03
300	12	323.9	3.96	31.42	4.57	36.54	4.57	36.19	6.35	50.49	10.31	80.96	9.52	74.22	12.7	98.02	33.32	240.12	25.4	188.03
350	14	355.6	3.96	34.53	6.35	55.53	4.78	41.59	7.92	68.95	11.13	96.00	11.13	95.08	19.05	159.00	35.71	283.30	-	-
400	16	406.4	4.19	41.79	6.35	63.61	4.78	47.61	7.92	79.03	12.70	125.20	12.7	124.00	21.41	204.42	40.46	367.19	-	-
450	18	457.2	4.19	47.07	6.35	71.69	4.78	53.63	7.92	89.10	14.27	158.27	14.27	156.75	23.8	255.81	45.71	466.47	-	-
500	20	508.0	4.78	59.65	6.35	79.76	5.54	69.03	9.53	118.95	15.09	186.25	15.09	184.46	26.19	312.94	49.99	567.82	-	-
600	24	609.6	5.54	82.99	6.35	95.92	6.35	95.00	9.53	143.20	17.45	258.74	17.48	256.69	30.96	444.28	59.54	812.21	-	-
650	26	660.4			7.92	129.40	7.92	129.40	12.70	205.97	-	-	9.53	155.32	12.7	205.97				
700	28	711.2			7.92	139.47	7.92	139.47	12.70	222.13	-	-	9.53	167.44	12.7	222.13				
750	30	762.0	6.35	120.11	7.92	149.55	7.92	149.55	12.70	238.28	-	-	9.53	179.56	12.7	238.28				
800	32	812.8	-	-	7.92	159.62	7.92	159.62	12.70	254.44	17.48	348.11	9.53	191.69	12.7	254.44				
850	34	863.6	-	-	7.92	169.70	7.92	169.70	12.70	270.59	17.48	370.35	9.53	203.74	12.7	270.59				
900	36	914.4	-	-	7.92	179.77	7.92	179.77	12.70	286.75	19.05	427.09	9.53	215.93	12.7	286.75				

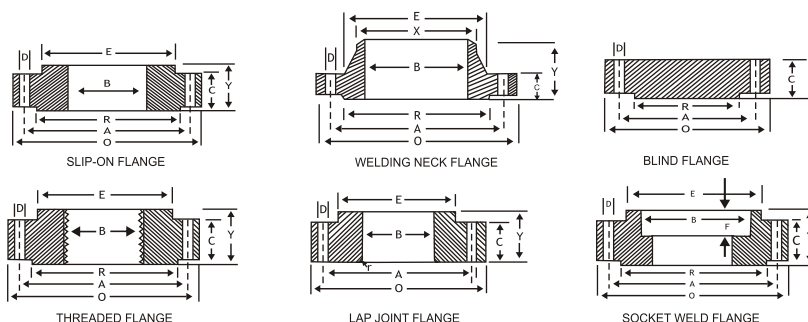




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(Gulf Lloyds ISO 9001:2015 Co.)

FLANGES CLASS 150 & 300



DIMENSIONS OF CLASS 150 FLANGES AS PER B16.5

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

DIMENSIONS OF CLASS 300 FLANGES AS PER B16.5

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

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

Flanges except Lap Joint will be furnished with (1.6 mm) raised face, Which is included in " Thickness " (C) and Length Through Hub (Y).



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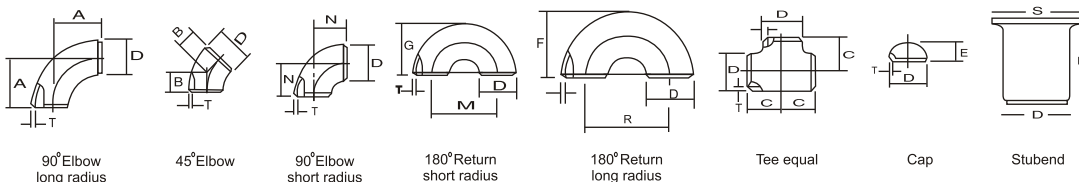
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BUTT WELDING PIPE FITTING DIMENSIONAL STANDARD ANSI B-16.9, B-16.28



Nominal Pipe Size		Outside Diameter	Center to Face				Back to Face			Center to Center			Length 'L'	
													MSS SP43	B16.9
Inch.	mm	D	A	B	C	N	E	F	G	R	M	S	L	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	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	64.0	184.0	140.0	267.0	178.0	140.0	76.2	152.4
4	100	114.3	152.0	63.0	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	203.2
6	150	168.3	229.0	95.0	143.0	152.0	89.0	313.0	237.0	457.0	305.0	216.0	88.9	203.2
8	200	219.1	305.0	127.0	178.0	203.0	102.0	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	127.0	515.0	391.0	762.0	508.0	324.0	127	254
12	300	323.9	457.0	190.0	254.0	303.0	152.0	619.0	467.0	914.0	610.0	381.0	152.4	254
14	350	355.6	533.0	222.0	279.0	356.0	165.0	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	178.0	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	203.0	914.0	686.0	1372.0	914.0	533.0	152.4	305.0
20	500	508	762.0	318.0	381.0	508.0	229.0	1016.0	762.0	1524.0	1016.0	584.0	152.4	305.0
22	550	559	838.0	343.0	419.0	559.0	254.0	1118.0	838.0	1676.0	1118.0	614.4	152.4	305.0
24	600	610	914.0	381.0	432.0	610.0	267.0	1219.0	914.0	1829.0	1219.0	692.0	152.4	305.0
26	650	660	991.0	406.0	495.0	660.0	267.0							
28	700	711	1067.0	438.0	521.0	771.0	267.0							
30	750	762	1143.0	470.0	589.0	762.0	267.0							
32	800	813	1219.0	502.0	597.0	813.0	267.0							
34	850	864	1295.0	533.0	635.0	864.0	267.0							
36	900	914	1372.0	565.0	673.0	914.0	267.0							

T = Wall Thickness



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- Pharmaceutical
- Petrochemical
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