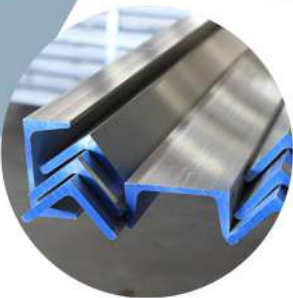
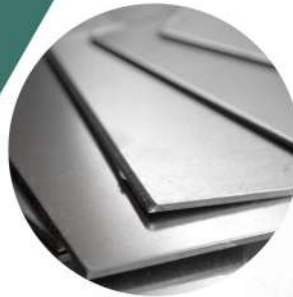




An ISO 9001:2015 Certified



VARDHMAN STEEL OVERSEAS



Brands



Maharashtra Seamless Limited



सेल SAIL



NIPPON STEEL



JINDAL STAINLESS



Company Profile

VARDHMAN STEEL OVERSEAS is one of the leading Manufacturers, Importer, Exporter, Stockist & Supplier of Ferrous & Non Ferrous Metal like Pipe & Tubes, Pipe Fittings, Forged Fittings, Sheet, Plate & Coil, Rod, Fasteners, Virgin Metals, Hot Dipped Galvanize Strips, Alloy Steel, Nickel, EN Series, Duplex Steel, Metallic Bellows, Tube Fittings, Copper & Tube Product. We have set up our business empire since last Two Decade serving many core industries all through out most satisfactorily.

We always strive to meet the exacting standards of quality for our products, which are as per accepted International standards. We supply better quality and better value for money to our customers using best quality control trained manpower coupled with cost effectiveness that will sustain our future growth .

Quality Policy

“Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution, its represents the wise choice, of many alternatives. “The Company possesses the most modern plants, equipped with the latest machinery which ensures production of quality products. The manufactured quality products have earned the trust of customers all over the world. We are committed to satisfy our customers through supply of quality products and to ensure continual improvement in this direction.

- Continual improvement in quality to minimize the customer complaints.
- To ensure timely delivery of products to customer.
- Improvement skill of work force
- To minimize the waste percentage

Brands





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 & Galvanized Pipe	: IS 1239, IS 3589

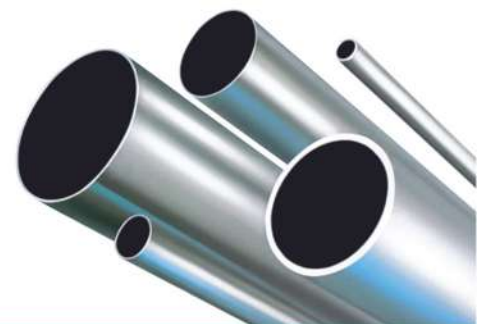
Copper & Nickel Alloys pipe

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 Tube	: ASTM A-213, A-249, A269-TP 304/304H/304L, 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 Tube	: ASTM A 213 - T-11, T-12, T-22, T-5, T-9 etc.
Carbon Steel Tube	: BS 3059 Gr. 360 / 440, SA 179, SA / ASTM A210 Gr. A1
Copper Nickel Tube	: ASTM B111, C70600 (90.10), C71500 (70:30), C71640
Admiralty Brass Tube	: ASTM B 111 C44300, C44400, C44500, C68700
Copper & Brass Tube	: ASTM B 188 C11000, C12200, C26000, C27000, C28000
Nickel Alloy Tube	: Nickel, Monel, Inconel, Alloy 20 etc.
Specialize	: Capillary Tube, IBR Tubes, Copper Nickel Tube

Type :- Round | Square | Rectangle | Hydraulic





Sheets, Plates & Coils

Stainless Steel & Duplex Steel

Stainless Steel : ASTM A240 304/304L/316/316L/316Ti/
309/310/317/317L/321/347/409/410/
430/904L/SMO 254 / AL6XN

Duplex & Super Duplex : Standard
ASTM A240 - UNS S31803/S32205 (2205)
Lean
ASTM A240 - UNS S32304 (2304)
Super Duplex
ASTM A240 - UNS S32750 (2507)
ASTM A240 - UNS S32760 (Zeron 100)

Quenched & Tempered

ASTM A537 CL.1 & 2

Boiler Quality

SA 516 Gr. 70

Hardox

Hardox 400 / 500

Hi-Nickel & Titanium

Hi-Nickel

Nickel : ASTM B162 N02200, N02201
Inconel : ASTM B 168 N06600, N06601, N06617
ASTM B 670 N07718
ASTM B 443 N06625
Incoloy : ASTM B 409 N08800, N08810
ASTM B 424 N08825
ASTM B 462 N08020
Hastelloy : ASTM B 575 N10276, N06022
ASTM B 333 N10665

Titanium

Commercially Pure : ASTM B 265
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 265
Gr.5 R 56400 (6Al-4V)
Gr.23 R 56401 (6Al-4V-ELI)
Gr.12 R 53400

Alloy Steel, Carbon Steel / Mild Steel

Alloy Steel Pipe : ASTM A387 Gr. 11, 12, 22, 5, 91 (CL 1/2)

Carbon Steel : ASTM A 36
S275 JR
IS 2062 Gr. A/B

Aluminium

ASTM B 928
5083 (A95083), 5086 (A95086),
5052 (A95052) T6061 (A96061)

Spring Steel Coils

CR C55, C80, C62, C45

Cupro Nickel

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

Monel

ASTM B127 N04400, DIN N05500

Size

Sheets : 0.8mm to 4mm thk. in 1000 upto 2000 mm Width
& 2000 upto 6000 Length
Plates : 5mm to 100 mm thk. In 1000 upto 2000 mm Width
& 2000 upto 8000 Length
Coils : 0.1 mm thk. to 12mm thk. in 10mm upto 1500 Width
Foils : 0.01 mm thk. to 0.3 mm thk. in any width
Strips : 1mm thk. to 100 mm thk. in 10 mm upto 900 mm Width
& 1000 upto 6000 Length

Finish

HR No.1, 2B, BA, Matt, Matt+1 side PVC, BA + 1side PVC, Chequered

Specializing in:

Stainless Steel Series, Hardox 400/500

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

Round / Hex / Square Bar / Wire Rope

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
 Welding Electrodes : 2.6mm to 4mm Dia

Specification

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

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, UNS32205, UNS 32750, UNS 32760
 Alloy Steel : F5, F9, F11, F22, F91.
 Carbon Steel, Mild Steel, (EN Series)
 Specification : ASTM, AISI, ASME, DIN, UNS etc.

Angle / Channel / Flat Bar



Size

Sizes of Angles :

- 20mm to 150mm, in Thk
- = 3mm to 12mm

Sizes of Channels :

- 20mm to 500mm, in Thk
- = 3mm to 50mm

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, UNS32205, UNS 32750, UNS 32760
 Alloy Steel : F5, F9, F11, F22, F91. Carbon Steel, Mild Steel, (EN Series)
 Specification : ASTM, AISI, ASME, DIN, UNS etc.



Flanges

Stainless Steel & Duplex Steel

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

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

Hi-Nickel & Titanium

Hi-Nickel

Nickel : ASTM B 564 N02200, N02201
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

Titanium

Commercially Pure : ASTM B 381 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 381 Gr.5 R 56400 (6Al-4V)
Gr.23 R 56401 (6Al-4V-ELI)
Gr12 R 53400

Types

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

Alloy Steel, Carbon Steel & LTCS Pipe

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

Cupro Nickel & Monel

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

Monel : ASTM B127 N04400
DIN N05500

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

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

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Buttweld 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 & Super Duplex : Standard
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)

Hi-Nickel & Titanium

Hi-Nickel

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

Titanium

Commercially Pure : ASTM B 363
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)
Gr12 R 53400

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

Cupro Nickel

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

Monel

ASTM B 366 N04400
DIN N05500

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)

Specializing in:
Hi-Nickel &
Stainless Steel Series





Forged Fittings

Size

Size : 15NB To 100NB (Socket Weld & Threaded)

Class : 3000#, 6000#, 9000#, In ANSI B 16.11

Stainless Steel & Duplex Steel

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

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

Hi-Nickel & Titanium

Hi-Nickel

Nickel : ASTM B 564 N02200, N02201

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

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Specializing in: Hi-Nickel & Stainless Steel Series

Types

Elbow (45 & 90 Deg)

Tee

Union

Cross

Swage Nipple

Coupling

Cap

Plug

Bushing

Boss

Titanium

Commercially : ASTM B 381

Titanium 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

Titanium Alloys : ASTM B 381

Gr.5 R 56400 (6Al-4V)

Gr.23 R 56401 (6Al-4V-ELI)

Gr.12 R 53400

Cupro Nickel

ASTM B 171 C70600 (90:10),

ASTM B 171 C71500 (70:30)

Monel

ASTM B 564 N04400

DIN N05500

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





Valves

VALVES DETAILS

- Material** : Stainless Steel / Duplex / Super Duplex / Nickel Alloy / Carbon Steel / Alloy Steel
- Standard** : ASTM / ASME / ANSI / AISI / DIN
- Grade** : WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C, CN7M, CD4MCu, Hastelloy, Inconel, 304L, 316L, 2205, 2507 etc.
- Types** : Gate Valve, Ball Valve, Globe Valve, Butterfly Valve, Check Valve, Cryogenic Valve
- Size** : 1/2" to 60"
- Class** : 150#, 300#, 600#, 800#, 900#, 1500# & 2500#

S S Instrumental / Ferrule Fittings



Union Elbow



Male Elbow



Female Elbow



Union Tee



Male Run Tee



Male Branch Tee



Female Run Tee



Female Branch Tee



Union Cross



45 Deg. Elbow



Tube end Closure



Bulk Head Elbow



Positionable Male Elbow



Nut Ferrule



Union



Reducing Union



Bulkhead Union



Male Connector



Female Connector



Male Adaptor



VARDHMAN
STEEL OVERSEAS



Tube Fitting & Fasteners

TUBE FITTING

Size	: 1/16" to 2"
Type	: Union tee, Female tee, Branch tee, Run tee, Male connector, Female connector, Elbow, 3 Bulk Head Union, Reducing Union, OD Cap, OD plug,.
SS Tube fittings	: Gr. 304, 304H, 309, 310, 316, 316L, 317L, 347, 321, 904L
Duplex S S Tube Fittings	: UNS N031803, N032750, N032760
CS Tube Fittings	: A105
AS Tube Fittings	: Gr. 5, Gr.9, Gr.11, Gr.12, Gr.22, Gr.91
Cu Ni Tube Fittings	: C 70600 (90:10), C71500 (70:30)
Nickel	: UNS N02200, N02201
Monel	: UNS N04400, N05500, Alloy 20
Inconel	: UNS N06600, N06601, N08800, N08810, N08825
Hastelloy	: UNS N10276, N06022, N10665, N06455
Other Services	: Silver Plating
Specialize	: Double compression fitting, Ball Valve, Needle, Check.

Types

Union tee	Male Connector	Reducing union
Female tee	Female Connector	OD cap
Branch tee	Elbow	OD plug
Run tee	Bulk head union	

FASTENERS

Material	: Stainless Steel / Duplex / Super Duplex / Nickel Alloy / Carbon Steel / Alloy Steel
Standard	: ASTM / ASME / ANSI / AISI / DIN
Grade	: 202, 304L, 316L, 317L, 321, 347, 310, 410, 420, 904L, 2205, 2507, Monel, Inconel, Hastelloy, Titanium etc.
Types	: Bolts, Nuts, Washers, Anchor Fasteners, Stud Bolts, Eye Bolt, Stud, Threaded Rod, Cotter Pin, Socket Screw, Fine Fasteners & Spares etc.
Size	: M2 to M100





DAIRY & SANITARY TUBE FITTINGS

USED FOR DAIRY, BIO-PHARMA & FOOD INDUSTRY (WELDED ENDS / EXPANDED ENDS) BEND, TEE, CROSS, REDUCER, UNION, VALVE CLAMP WITH FERRULE, CLAMP (PIPE HOLDING) WITH COUPLING, NIPPLE & BASE PLATE

RANGE : 1/2" (15 MM) OD to 12" (300 MM) THK OD 16swg, 14swg, 12swg

GRADE : AISI 304, 316, 316L.

STANDARD : SMS, IDF, DIN, ISO, ASME BPE etc.

FINISH : ELECTRO POLISHED / MIRROR / MATT FINISH



T.C FITTINGS FITTINGS

TC BEND, TC TEE, TC REDUCER, TC UNION, TC CLAMPS, TC LINER (FERRULES), TRI-CLOVER STANDARD FITTINGS IS WIDELYUSED IN PHARMACEUTICALS & FOOD INDUSTRIES FOR ITS EASILY OPENING & CLEANING FACILITIES. IT CONSISTS OF TWO LINERS (FERRULES) & CLAMPS WHICH HOLDS BOTH THE LINES TOGETHER. GASKET IS HOUSED BETWEEN THE LINES TO GIVE LEAK PROOF SEALING.

RANGE : ½" (15MM) to 12" (300MM) (SUITABLE FOR OD &NB SIZE PIPE)

GRADE : AISI 304, 316, 316L

STANDARD : ISO, ASME BPE Standard.

FINISH POLISHED : ELECTRO POLISHED / MIRROR / MATT FINISH

FERRULE FITTINGS

HYDRAULIC, PNEUMATIC, FERRULE & FLARE FITTINGS IN STAINLESS STEEL (F304, 316 & 316L)

TYPE : DOUBLE FERRULE (SWAGEL OK TYPE), SINGLE FERRULE (PARKER TYPE) & DIN2353 (ERMETO TYPE)

SIZE : OD 2 MM to 50 MM (1/16" to 2"), NB 6MM to 40MM (1/4" to 1 1/2")

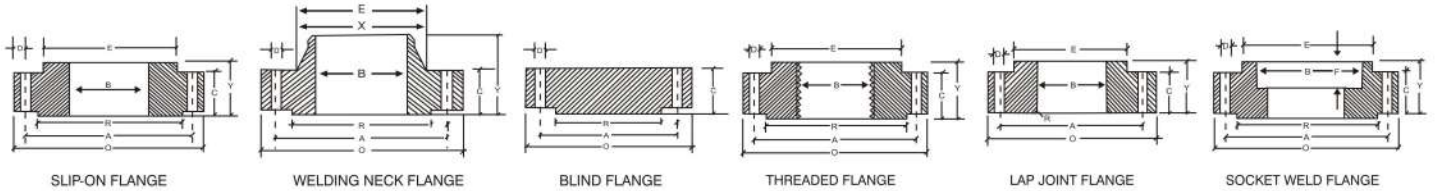
END CONNECTION : BSP, NPT, BSPT, METRIC, UNF.





FLANGES

DIMENSIONS OF CLASS 150/300/600 FLANGES AS PER B 16.5



DIMENSIONS OF CLASS 150 FLANGES AS PER B 16.5

Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	No. of Bolt Holes D	No. of Holes	Thk. of Holes 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	170.1	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	415.0	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	457.00
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 B 16.5

Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	No. of Bolt Holes D	No. of Holes	Thk. of Holes 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	20.3	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	38.5	206.4	52.4	98.4	62.4	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	415.0	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	-	457.00
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

DIMENSIONS OF CLASS 600 FLANGES AS PER B 16.5

Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	No. of Bolt Holes D	Thk. of Holes C	No. of Holes	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	95.2	66.7	15.9	4	14.3	38.1	22.2	52.4	22.3	22.3	22.8	34.9	9.5	21.33
20	117.5	82.5	19.0	4	15.9	47.6	25.4	57.1	25.4	27.7	28.1	42.9	11.1	26.67
25	123.8	88.9	19.0	4	17.5	54.0	27.0	61.9	26.9	34.5	35.0	50.8	12.7	33.40
32	133.3	98.4	19.0	4	20.6	63.5	28.6	66.7	28.4	43.2	43.6	63.5	14.2	42.16
40	155.6	114.3	22.2	4	22.2	69.8	31.7	69.8	31.7	49.5	50.0	73.0	15.8	48.26
50	165.1	127.0	19.0	8	25.4	84.1	36.5	73.0	36.5	62.0	62.4	92.1	17.4	60.31
65	190.5	149.2	22.2	8	28.6	100.0	41.3	79.4	41.1	74.7	75.4	104.8	19.0	73.02
80	209.5	168.3	22.2	8	31.8	117.5	46.0	82.5	45.9	90.7	91.4	127.0	-	88.90
100	273.0	215.9	25.4	8	38.1	152.4	54.0	101.6	53.8	116.1	116.8	157.2	-	114.30
125	330.2	266.7	28.6	8	44.4	188.9	60.3	114.3	60.4	143.8	141.5	185.7	-	141.30
150	355.6	292.1	28.6	12	47.6	222.2	66.7	117.5	66.5	170.7	171.4	215.9	-	168.27
200	419.1	349.2	31.7	12	55.6	273.0	76.2	133.3	76.2	221.5	222.2	269.9	-	219.07
250	508.0	431.8	34.9	16	63.5	342.9	85.7	152.4	111.2	276.3	277.3	323.8	-	273.05
300	558.8	488.9	34.9	20	66.7	400.0	92.1	155.6	117.3	327.1	328.1	381.0	-	323.85
350	603.2	527.0	38.1	20	69.9	431.8	93.7	165.1	127.0	359.1	360.1	412.7	-	355.80
400	685.8	603.2	41.3	20	76.2	495.3	106.4	177.8	139.7	410.5	411.2	469.9	-	406.40
450	742.9	654.0	44.4	20	82.6	546.1	117.5	184.1	152.4	461.8	462.2	533.4	-	457.20
500	812.8	729.9	44.4	24	88.9	609.6	127.0	190.5	165.1	513.1	514.3	584.2	-	508.00
600	939.8	838.2	50.8	24	101.6	717.5	139.7	203.2	184.1	615.9	615.9	692.1	-	609.60

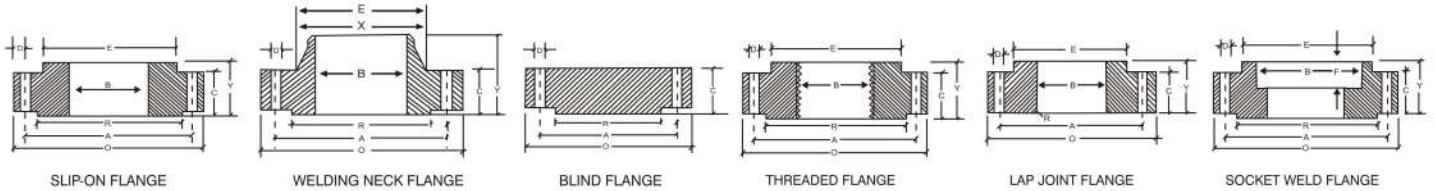
All Dimensions are in Millimeters.

Flanges except Lap Joint Will be furnished with 1.6 mm raised face Class 150/300 & 6.35 mm for Class 600. Which is included in "Thickness" (C) and Length Through Hub (Y).



FLANGES

DIMENSIONS OF CLASS 900/1500/2500 FLANGES AS PER B 16.5



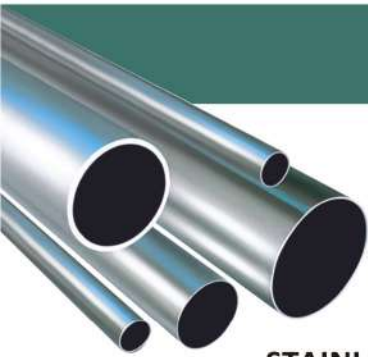
DIMENSIONS OF CLASS 900 FLANGES AS PER B 16.5														
Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	No. of Bolt Holes D	No. of Holes	Thk. of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	120.6	82.5	22.2	4	22.2	38.1	31.7	60.3	31.7	22.3	22.8	34.9	9.5	21.33
20	130.2	88.9	22.2	4	25.4	44.4	34.9	69.8	35.0	27.7	28.1	42.9	11.1	26.67
25	149.2	101.6	25.4	4	28.6	52.4	41.3	73.0	41.1	34.5	35.0	50.8	12.7	33.40
32	158.7	111.1	25.4	4	28.6	63.5	41.3	73.0	41.1	43.2	43.6	63.5	14.2	42.16
40	177.8	123.8	28.6	4	31.8	69.8	44.4	82.5	44.4	49.5	50.0	73.0	15.8	48.26
50	215.9	165.1	25.4	8	38.1	104.9	57.1	101.6	57.1	62.0	62.4	92.1	17.4	60.31
65	244.5	190.5	28.6	8	41.3	123.8	63.5	104.8	63.5	74.7	75.4	104.8	19.0	73.02
80	224.1.3	190.5	25.4	8	38.1	127.0	53.9	101.6	53.8	90.7	91.4	127.0	-	88.90
100	292.1	234.9	31.7	8	44.4	158.7	69.8	114.3	69.8	116.0	116.8	157.1	-	114.30
125	349.2	279.4	35.0	8	50.8	190.5	79.3	127.0	79.2	143.7	144.5	185.7	-	141.30
150	381.0	317.5	31.7	12	55.6	234.9	85.5	139.7	85.8	170.6	171.4	215.9	-	168.27
200	469.9	393.7	38.1	12	63.5	298.4	101.6	162.0	114.3	221.4	222.2	269.8	-	219.07
250	546.1	469.9	38.1	16	69.8	368.3	107.9	184.1	127.0	276.3	277.3	323.8	-	273.05
300	609.6	533.4	38.1	20	79.3	419.1	117.4	200.0	142.7	327.1	328.1	381.0	-	323.85

DIMENSIONS OF CLASS 1500 FLANGES AS PER B 16.5														
Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	No. of Bolt Holes D	No. of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	120.6	82.5	22.2	4	22.2	38.1	31.7	60.3	31.7	22.3	22.8	34.9	9.5	21.33
20	130.2	88.9	22.2	4	25.4	44.4	34.9	69.8	34.9	27.7	28.1	42.9	11.1	26.67
25	149.2	101.6	25.4	4	28.6	52.4	41.3	73.0	41.3	34.5	35.0	50.8	12.7	33.40
32	158.7	111.1	25.4	4	28.6	63.5	41.3	73.0	41.3	43.2	43.6	63.5	14.2	42.16
40	177.8	123.8	28.6	4	31.8	69.8	44.4	82.5	44.4	49.5	50.0	73.0	15.8	48.26
50	215.9	165.1	25.4	8	38.1	104.8	57.1	101.6	57.1	62.0	62.0	92.1	17.4	60.31
65	244.5	190.5	28.6	8	41.3	123.8	63.5	104.8	63.5	74.7	75.4	104.8	19.0	73.02
80	266.7	203.2	31.7	8	47.6	133.3	73.0	117.5	73.0	90.7	91.7	127.0	-	88.90
100	311.1	241.3	34.9	8	54.0	161.9	90.5	123.0	90.4	116.1	116.8	157.2	-	114.30
125	374.6	292.1	41.3	8	73.0	196.8	104.8	155.6	104.8	143.8	144.5	185.7	-	141.30
150	393.7	317.5	38.1	12	82.6	228.6	119.1	171.4	119.1	170.7	171.4	215.9	-	168.27
200	482.6	393.7	44.4	12	92.1	292.1	142.9	212.7	142.8	221.5	222.2	269.9	-	219.07
250	584.2	482.6	50.8	12	107.9	368.3	158.7	254.0	177.8	276.3	277.3	323.8	-	273.05
300	673.1	571.5	54.0	16	123.8	450.8	181.0	282.6	218.9	327.1	328.1	381.0	-	323.85

DIMENSIONS OF CLASS 2500 FLANGES PER B 16.5														
Nominal Pipe Size	Flange Dia O	Dia of Bolt Circle A	No. of Bolt Holes D	No. of Holes	Thk. of Flange C	Dia of Hub E	Length through Hub			Dia Bore		Dia of R/F R	Depth of Socket F	Pipe Dia X
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B			
15	133.3	88.9	22.2	4	30.2	42.9	39.7	73.0	39.7	22.3	22.3	34.9	-	21.33
20	139.7	95.2	22.2	4	31.7	50.8	42.9	79.4	42.9	27.7	27.7	42.9	-	26.67
25	158.7	107.9	25.4	4	34.9	57.1	47.7	88.9	47.7	34.5	34.5	50.8	-	33.40
32	184.1	130.2	28.6	4	38.1	73.0	52.4	95.2	52.4	43.2	43.2	63.5	-	42.16
40	203.2	146.0	31.7	4	44.4	79.4	60.3	111.1	60.3	49.5	49.5	73.0	-	48.26
50	234.9	171.4	28.6	8	50.8	95.2	69.8	127.0	69.8	62.4	62.0	92.1	-	60.31
65	266.7	196.8	31.7	8	57.1	114.3	79.4	142.9	79.4	74.7	74.7	104.8	-	73.02
80	304.8	228.6	34.9	8	66.7	133.3	92.1	168.3	92.1	90.7	90.7	127.0	-	88.90
100	355.6	273.0	41.3	8	76.2	165.1	107.9	190.5	107.9	116.1	116.1	157.2	-	114.30
125	416.1	323.8	47.6	8	92.1	203.2	130.0	228.6	130.0	143.8	143.8	185.7	-	141.30
150	482.6	368.3	54.0	8	107.9	234.9	152.4	273.0	152.4	170.7	170.7	215.1	-	168.27
200	552.4	438.1	54.0	12	127.0	304.8	177.8	317.5	177.8	221.5	221.5	269.9	-	219.07
250	673.1	539.7	66.7	12	165.1	374.6	228.6	419.1	228.6	276.3	276.3	323.8	-	273.05
300	762.0	619.1	73.0	12	184.1	441.3	254.9	463.5	254.0	327.1	327.1	381.0	-	323.85

All Dimensions are in Millimeters.

Flanges except Lap Joint Will be furnished with 6.35 mm raised face, Which is included in "Thickness" (C) and Length Through Hub (Y).



STAINLESS STEEL PIPE DIMENSION & WEIGHT-KG. PER MTR. (ANSI B36.19)

Nominal Bore		Outside Diameter	Schedule 5S		Schedule 10S		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)
3	1/8	10.3	1.24	0.276	1.24	0.28	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.24	0.390	1.65	0.49	2.24	0.631	3.02	0.80	-	-	-	-
10	3/8	17.1	1.24	0.490	1.65	0.63	2.31	0.845	3.20	1.10	-	-	-	-
15	1/2	21.3	1.65	0.800	2.11	1.00	2.77	1.27	3.75	1.62	4.75	1.94	7.47	2.55
20	3/4	26.7	1.65	1.03	2.11	1.28	2.87	1.68	3.91	2.20	5.54	2.89	7.82	3.63
25	1	33.4	1.65	1.30	2.77	2.09	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	3.56	3.38	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	3.68	4.05	5.08	5.41	7.14	7.25	10.16	9.54
50	2	60.3	1.65	2.40	2.77	3.93	3.91	5.44	5.54	7.48	8.74	11.1	11.07	13.44
65	2 1/2	73.0	2.11	3.69	3.05	5.26	5.16	8.63	7.01	11.4	9.53	14.9	14.2	20.39
80	3	88.9	2.11	4.51	3.05	6.45	5.49	11.30	7.62	15.2	11.1	21.3	15.24	27.65
100	4	114.3	2.11	5.84	3.05	8.36	6.02	16.07	8.56	22.3	13.49	33.54	17.12	41.03
125	5	141.3	2.77	9.47	3.40	11.57	6.55	21.8	9.53	31.97	15.88	49.11	19.05	57.43
150	6	168.3	2.77	11.32	3.40	13.84	7.11	28.3	10.97	42.7	18.2	67.56	21.95	79.22
200	8	219.1	2.77	14.79	3.76	19.96	8.18	42.6	12.07	64.6	23.0	111.2	22.23	107.8
250	10	273.1	3.40	22.63	4.19	27.78	9.27	60.5	15.08	96.0	28.6	172.4	25.40	155.15
300	12	323.9	3.96	31.25	4.57	36.00	9.52	73.88	17.45	132.0	33.32	238.76	25.40	186.97
350	14	355.6	3.96	34.36	4.78	41.3	11.13	94.59	19.05	158.08	35.71	281.70	-	-
400	16	406.4	4.19	41.56	4.78	47.29	12.7	123.30	21.41	203.33	40.46	365.11	-	-
450	18	457.2	4.19	46.80	4.78	53.42	14.27	155.80	23.8	254.36	45.71	466.40	-	-
500	20	508.0	4.78	59.25	5.54	68.71	15.09	183.42	26.19	311.2	49.99	564.68	-	-
600	24	609.6	5.54	82.47	6.35	94.45	17.48	255.41	30.96	442.08	59.54	808.22	-	-

CARBON STEEL SEAMLESS PIPE DIMENSION & WEIGHT - KG. PER MTR. (ANSI B 36.10)

Nominal Pipe size		O/D	Schedule 10		Schedule 20		Schedule 30		Schedule STD		Schedule 40		Schedule 60		Schedule Extra Strong (XS)		Schedule 80		Schedule 100		Schedule 120		Schedule 140		Schedule 160		Schedule Double Extra Strong (XXS)		
mm	inch	mm	mm	kg/m	mm	kg/m	mm	kg/m	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	wall	wt.	
3	1/8	10.3							1.73	0.37	1.73	0.37			2.41	0.47	2.41	0.47											
6	1/4	13.7							2.24	0.63	2.24	0.63			3.02	0.80	3.02	0.80											
10	3/8	17.1							2.31	0.84	2.31	0.84			3.20	1.10	3.20	1.10											
15	1/2	21.3							2.77	1.27	2.77	1.27			3.73	1.62	3.73	1.62								4.78	1.95	7.5	2.55
20	3/4	26.7							2.87	1.69	2.87	1.69			3.91	2.20	3.91	2.20								5.6	2.90	7.82	3.64
25	1	33.4							3.38	2.50	3.38	2.50			4.55	3.24	4.55	3.24								6.35	4.24	9.1	5.45
32	1 1/4	42.2							3.56	3.39	3.56	3.39			4.85	4.47	4.85	4.47								6.35	5.61	9.7	7.77
40	1 1/2	48.3							3.68	4.05	3.68	4.05			5.08	5.41	5.08	5.41								7.14	7.25	10.2	9.56
50	2	60.3							3.91	5.44	3.91	5.44			5.54	7.48	5.54	7.48								8.74	11.11	11.07	13.4
65	2 1/2	73.0							5.16	8.63	5.16	8.63			7.01	11.41	7.01	11.41								9.53	14.92	14.0	20.4
80	3	88.9							5.49	11.3	5.49	11.3			7.62	15.27	7.62	15.3								11.13	21.35	15.24	27.7
90	3 1/2	101.6							5.74	13.57	5.74	13.57			8.08	18.63	8.08	18.63								-	-	16.2	34.1
100	4	114.3							6.02	16.07	6.02	16.07			8.56	22.3	8.56	22.3			11.13	28.32				13.5	33.5	17.12	41.03
125	5	141.3							6.55	21.77	6.55	21.77			9.53	30.9	9.53	30.9			12.7	40.2				15.9	49.11	19.0	57.4
150	6	168.3							7.11	28.26	7.11	28.26			10.97	42.5	10.97	42.5			14.3	54.2				18.3	67.5	21.95	79.22
200	8	219.1		6.35	33.3	7.0	36.8	8.18	42.5	8.18	42.55	10.31	53.10	12.7	64.6	12.7	64.5	15.1	75.92	18.3	90.4	20.6	100.9	23.0	111.27	22.23	108.0		
250	10	273.0		6.35	41.7	7.8	51.3	9.27	60.3	9.27	60.31	12.70	81.50	12.7	81.5	15.1	96.0	18.3	114.7	21.44	133.0	25.4	155	28.6	172.3	25.4	155.0		
300	12	323.9		6.35	49.7	8.4	65.2	9.53	73.8	10.31	79.73	14.30	109.0	12.7	97.4	17.5	132.0	21.4	160.0	25.4	187.0	28.6	208	33.3	238.7	25.4	187.0		
350	14	355.6	6.35	54.6	7.92	67.9	9.53	81.3	9.53	81.3	11.13	94.55	15.10	126.4	12.7	107.4	19.0	158.0	23.8	195.0	27.8	224.0	31.8	253.5	35.7	281.7			
400	16	406.4	6.35	62.6	7.92	77.9	9.53	93.3	9.53	93.3	12.7	123.3	16.70	160.0	12.7	123.3	21.44	203.5	26.2	245.5	30.9	286.6	36.53	333	40.5	365.4			
450	18	457.0	6.35	70.5	7.92	87.7	11.13	122.4	9.53	105.0	14.27	156.0	19.05	206.0	12.7	139.0	23.8	254.6	29.36	309.6	34.9	363.6	39.7	408.3	45.2	459.4			
500	20	508.0	6.35	78.5	9.53	117.2	12.7	155.1	9.53	117.2	15.09	183.4	20.62	248.5	12.7	155.1	26.2	311.2	32.54	381.5	38.1	441.5	44.4	508	50.0	564.8			
550	22	559.0	6.35	86.5	9.53	129.0	12.7	171.0	9.53	129.0			22.20	294.0	12.7	171.0	28.6	373.8	34.9	451.4	41.3	527.0	47.6	600	54.0	672.0			
600	24	610.0	6.35	94.5	9.53	141.0	14.3	209.7	9.53	141.0	17.48	255.4	24.61	355.0	12.7	187.0	30.96	442.08	38.89	547.7	46.0	640.0	52.4	720.15	59.5	808.22			
650	26	660.0	7.92	127.0	12.7	203.0			9.53	153.0					12.7	202.7													
700	28	711.0	7.92	137.4	12.7	218.7	15.88	271.2	9.53	165.0					12.7	218.7													
750	30	762.0	7.92	147.3	12.7	234.6	15.88	292.18	9.53	176.8					12.7	234.7													
800	32	813.0	7.92	157.0	12.7	250.6	15.88	312.0	9.53	188.2	17.48	342.9			12.7	250.6													
850	34	864.0	7.92	167.0	12.7	266.6	15.88	332.1	9.53	200.3	17.48	364.9			12.7	266.6													
900	36	914.4	7.92	176.9	12.7	282.3	15.88	351.7	9.53	212.5	19.05	420.4			12.7	282.2													



- A 106 Gr B
- API - 5L - Gr B
- A 333 Gr 6
- A 335 P 5



Application Industries

- OIL & GAS INDUSTRIES
- PHARMACEUTICALS
- PETROCHEMICAL
- SUGAR INDUSTRIES
- REFINERIES
- PAPER & PULP
- FOOD & BEVERAGES
- AUTOMOBILE
- ENGINEERING
- SHIP BUILDING
- FURNACE INDUSTRIES
- STEEL PLANT
- CEMENT INDUSTRIES
- DAIRY INDUSTRIES
- NUCLEAR & POWER
- FABRICATIONS

Formula of Calculation Weight

<p>1) WEIGHT OF STAINLESS STEEL PIPES O.D. (mm) - W.T. (mm) x W.T. (mm) x 0.0248 = Kg. per Mtr. O.D. (mm) - W.T. (mm) x W.T. (mm) x 0.00756 = Wt. Per Feet.</p>	<p>8) WEIGHT OF BRASS PIPE / COPPER PIPE O.D. (mm) - Thick (mm) x Thick (mm) x 0.0260 = Wt. Per Mtr.</p>
<p>2) WEIGHT OF STAINLESS STEEL ROUND BAR DIA (mm) x DIA (mm) x 0.00623 = Wt. Per Mtr. DIA (mm) x DIA (mm) x 0.00623 = Wt. Per Feet.</p>	<p>9) WEIGHT OF LEAD PIPE O.D. (mm) - Wt. (mm) x Wt. (mm) x 0.0345 = Wt. Per Mtr.</p>
<p>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.</p>	<p>10) WEIGHT OF ALUMINUM PIPE Length (Mtr.) x Width (Mtr.) x Thick (mm) x 0.0083 = Wt. Per Mtr.</p>
<p>4) WEIGHT OF STAINLESS STEEL HEX 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.</p>	<p>11) WEIGHT OF ALUMINUM SHEET Length (Mtr.) x Width (Mtr.) x Thick (mm) x 2.69 = Wt. Per PC</p>
<p>5) WEIGHT OF STAINLESS STEEL FLAT BAR Width (mm) x Thick (mm) x 0.00798 = Wt. Per Mtr. Width (mm) x Thick (mm) x 0.00243 = Wt. Per Feet.</p>	<p>12) WEIGHT OF CONVERSION OF MTR. TO FEET Weight of 1 Mtr. ÷ 3.2808 = Feet</p>
<p>6) WEIGHT OF STAINLESS STEEL SHEETS & PLATES Length (Mtrs) X Width (Mtrs) X Thick (mm) X 8 = Kg. Per Sheet Length (Ft) X Width (Ft) X Thick (mm) X 3/4 = Kg. Per Sheet</p>	<p>13) WEIGHT OF CALCULATING WIDTH OF SHEET FOR MAKING PIPE Outer DIA - Wall Thickness x 22/7 Width of Sheet</p>
<p>7) WEIGHT OF STAINLESS STEEL CIRCLE DIA (mm) x DIA (mm) x Thick (mm) ÷ 160 = Gms. Per PC DIA (mm) x DIA (mm) x Thick (mm) x 0.000063 = Kg. Per PC</p>	<p>14) FORMULA FOR HEALTHY BUSINESS Honesty + Quality of Goods + Quick Service + Reasonable Rate = Good Health of Business</p>



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To Go Through
The Hottest Fire”



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OFFICE NO.1002, NEO PEARL TOWER, 2ND CARPENTER STREET MUMBAI 400004. MAHARASHTRA , INDIA

CONTACT PERSON : MAHENDRA JAIN : 9833924928 | RISHI JAIN : 9653384498

TEL.: 022 - 6015 8085 / 6636 3472 / 6743 6464

Email : vardhmansteeloverseas@gmail.com, vardhmansteeloverseas@hotmail.com