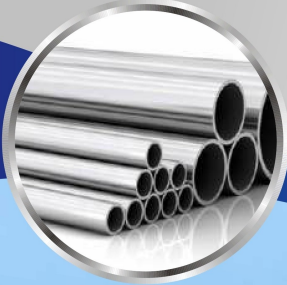




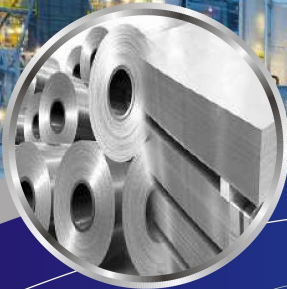
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AN ISO 9001:2015 CERTIFIED CO.



Driving Project  
Through Steel



**Stockist & Suppliers of :**

Stainless Steel, Carbon Steel, Alloy Steel, Sheet, Plate, Coil, Rod, Pipe, Angle,  
Ferrous & Non-Ferrous Metals Etc.

**SPECIALIST IN : STAINLESS STEEL PIPE FITTINGS**

**PERFORMANCE • QUALITY • TRUST**

✉ [skylineoverseas22@yahoo.com](mailto:skylineoverseas22@yahoo.com)

✉ [suresh.skylineoverseas@gmail.com](mailto:suresh.skylineoverseas@gmail.com)



## INTRODUCTION

**Dear Valued Customer !**

**SKYLINE OVERSEAS** under the dynamic leadership of **Mr. VIKRAM PRAJAPATI & SURESH PARIHAR** proudly presents itself as one of the leading & largest Stockists & Suppliers of all kinds of Ferrous & Non-Ferrous Metals Items.

**MANUFACTURERS OF : ALL TYPES OF S.S., C.S., PIPE FITTINGS & STAINLESS STEEL INDUSTRIAL RAW MATERIALS**

More and above, we have 15 years experience in this trade and crossed a substantial business on repeat order basis, from our reputed clients.

We are the regular suppliers to various Mfg. Units of Pharmaceuticals, Chemicals, Fertilizers, Cement, Paper, Power Plant, Water Purifiers, Textiles & Sugar etc.

**Stainless Steel :** Pipes & Tubes (Seamless/Welded/Fabricated), Sheets, Plates, Rods, Wires, Pipes Fittings and Components in AISI 304, 304L, 309, 310, 316, 316L, 317L, 321, 410, 420 & 431 Grades etc. in all dimensions in indigenous and Imported make.

Our greetings to our valued customers and the users of this book and thanks for their continued patronage.

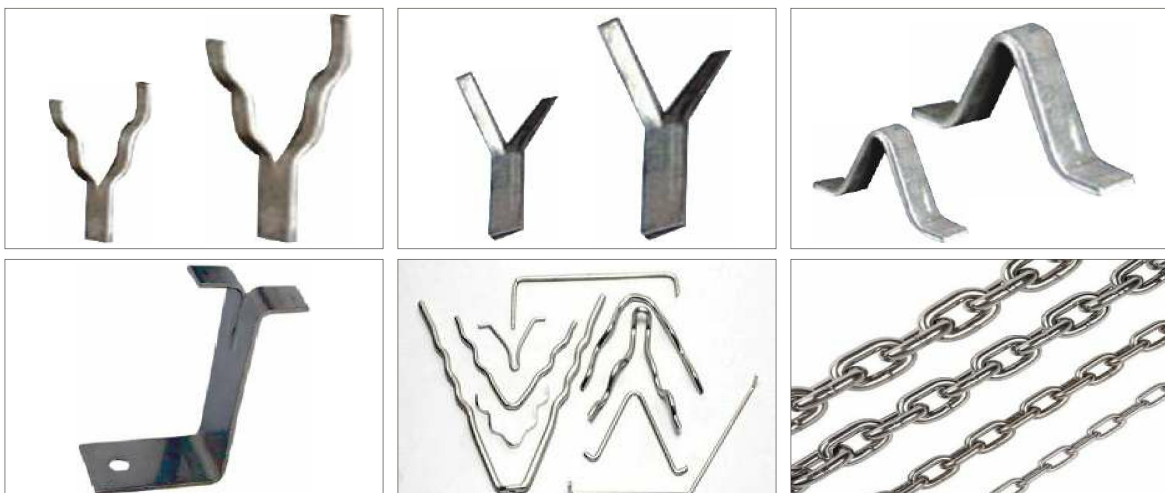
For our Customer's benefit, besides competitive pricing, assured 100% satisfactions and prompt supply. We assure you our best and prompt dedicated services and look forward to building up a long business relation.

### **Our Formula for Good Business**

- ❖ Quality of Goods
- ❖ Quick Service
- ❖ Honesty

**S.S. ANCHOR IS OUR OWN MFG. AS PER YOUR DRAWING & ANY GRADE.**

**S.S. ANCHOR FOR CASTE BALL LINING & CERAMIC FIBER**





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## COMPANY PROFILE

COMPANY NAME : **M/s. SKYLINE OVERSEAS**

REGD. OFFICE : **OFFICE NO -19 ,2ND FLOOR ,BLDG 56 , CHANDRAMAHAL ,  
1ST KUMBHARWADA LANE GIRGAON MUMBAI - 400004**

CONTACT PERSON : **Vikram Prajapati +91 9820126892**  
**Suresh Parihar +91 8426035949**

STATUS OF FIRM : **PROPRIETORSHIP**

DATE OF ESTABLISHMENT : **04-08-2022**

E-MAIL : **skylineoverseas22@yahoo.com**  
**suresh.skylineoverseas@gmail.com**

GSTIN : **27HIRPK3417F1ZZ**

PAN No. : **HIRPK3417F**

ITEM IMPORTED/STOCKED : **AS PER OUR STOCK TRADE LIST**

MANUFACTURERS : **AS PER LIST**

TESTING FACILITY : **ANY OUTSIDE**  
**GOVT. NABL APPROVED LAB**

INSPECTION : **ANY TPI AGENCY**



## PRODUCT RANGE



Pipes & Tubes

**Stainless Steel** : ASTM A312 TP 202/304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/310/ 347/ 904L etc.  
**Carbon Steel** : ASTM A53 GR. B/ A106 GR. B/ API 5L GRADE B/ API 5L GR.X42/46/52/56/60/65/70/  
 Low Temperature, Carbon Steel: A333 Gr.3/Gr.6 etc.  
**Alloy Steel** : ASTM A335 GR. P1/ P5/ P9/ P11/ P22/ P91 etc.  
**Nickel Alloys** : Monel, Nickel, Inconel, Hastalloy, Titanium, Tantalum, Bismuth, Aluminium, High Speed  
 Steel, 904L, Alloy 20  
**Duplex & Super Duplex Steel** : UNS S31803, UNS S32750, UNS S32760,  
**Non Ferrous Metal** : Copper, Brass, Bronze, Zinc, Lead etc. Types : Round , Square, Rectangular.  
**Size** : 1/2" to 24" NB. (Seamless & Welded)  
**Wall Thickness** : Sch. 5S to Sch. XXS



Buttweld Fittings

**Stainless Steel** : ASTM A403 WP 304/ 304L/ 304H/316/ 316L/ 317/ 317L/ 321/ 310/ 347/904L 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.  
**Duplex & Super Duplex Steel** : UNS S31803, UNS S32750, UNS S32760,  
**Others** : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth,  
 Aluminium, High Speed Steel, Zinc, Lead, 904L, Alloy 20 etc.  
**Types** : Elbow, Tee, Reducer, Return Bends, Stub-Ends, Cap, Collar, Cross, Insert etc.  
**Size** : 1/4" NB TO 32" NB. (Seamless & Welded)  
**Wall Thickness** : Sch. 5S To Sch. XXS.



Forged Socketweld & Screwed Fittings

**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.  
**Others** : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth,  
 Aluminium, High Speed Steel, Zinc, Lead, 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** : 1/4" NB TO 4" NB. (Socketweld & Threaded)  
**Class** : 3000#, 6000#, 9000#.



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 A182 F1/ F5/ F9/ F11/ F22/ F91 etc.  
**Duplex & Super Duplex Steel** : U NS S31803, UNS S32750, U NS S32760, 904L, Alloy 20  
**Others**: Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth,  
 Aluminium, High Speed Steel, Zinc, Lead, etc.  
**Types** : Weldneck, Slipon, Blind, Socket Weld, Lap Joint, Spectacles, Ring Joint, Oriface, Long  
 Weldneck, Deck Flange, RTJ, Flange  
**Size** : 1/2" NB TO 24" NB.  
**Class** : 150#, 300#, 400#, 600#, 900#, 1500# & 2500#.



Ferrule Fittings

**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, Hastalloy,  
 Copper, Brass, Bronze, Titanium, Tantalum, Bimuth, Aluminium, High Speed Steel, Zinc, Lead, 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.



## PRODUCT RANGE



Sheet, Plate & Coil

**Stainless Steel Coils, Sheets & Plates** as per ASTM A 240 Gr. TP 202, 304, 304L, 304LN, 309, 309S, 309H, 310S, 310H, 316, 316L, 316H, 316LN, 316Ti, 317, 317L, 321, 321H, 347, 347H, 348, 348H, 409, 410, 420, 430 etc.

**Alloy Steel Plates** as per ASTM A 387 Gr. 2, 5, 9, 11, 12 & 22 in class 1 & 2, ASTM A 204, Gr. A & B, DIN 17175 Gr. 15Mo3 & 16Mo3 with IBR Test Certificate.

**Carbon Steel / Boiler Quality Plates** as per IS 2062 Gr. A, B & C, IS 2002 Gr. 1 & 2, ASTM A516 Gr. 60 & 70 ASTM A515 Gr. 70.

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

**Duplex & Super Duplex Steel** : UNS S31803, UNS S32750, UNS 532760, 904L, Alloy 20

**Types** : Sheet, Plates, Strips, etc.



Fasteners & Nut Bolts

**Stainless Steel** : AISI 302, 304, 304L, 316, 316L, 310, 317, 321, 347, 410, 420, 904L etc.

**Alloy Steel** : 4.6, 5.6, 6.6, 8.8, 10.9 & 12.9 'R', 'S', 'T' Conditions.

**Carbon Steel** : Bare Condition, Galvanized, Phosphetised, Cadmium Plated, Hot Deep Galvanized, Bloodied, Nickel Chrome Plated etc.

**Non-Ferrous Metal** : Copper, Brass, Aluminium, Titanium, Nichrome, Al-Bronze, Phosphorous Bronze etc.

**Type** : Bolts, Nuts, Washers, Anchor, Fasteners, Stud Bolts, Eye Bolt, Stud, Threaded Rod, Cotter Pin, Socket, Screw, Fine Fasteners & Spares, Foundation Fasteners etc.



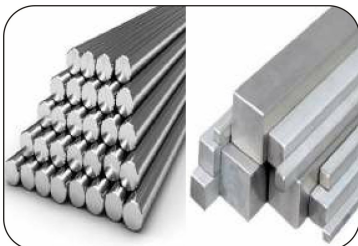
Valve

**Stainless Steel** : AISI 304, 304L, 316, 316L, 310, 317, 317L, 321, 347, 904L etc.

**Carbon Steel** : A105, A216, Gr. WCB, Cadmium Plated, Nickel, chrome Plated etc.

**Non-Ferrous Metal** : Copper, Brass, Titanium, Phosphorous Bronze etc.

**Type** : Ball Valve, Gate Valve, Check Valve, Needle Valve, Mini Valve, Gauge Rott Valve, Globe Valve, Manifolds (2 Way, 3 Way, 5 Way)



Round, Square & Hex Bar

**Stainless Steel** : As per ASTM A276 & A479 Grade 202 / 304 / 304L / 316 / 316L / 316Ti / 317 / 317L / 321 / 310 / 347 / 410 / 416 / 420 / 430 / 440C / 904 / 303 / 17-4PH, 15-5 PH etc.

**Nickel Alloys** : Monel, Inconel, Hastelloy, Nickel, Titanium, Alloy 20

**Duplex & Super Duplex** : UNS 32205, 31803, 32750, 32760,

**Types** : Round, Square, Rectangular.

**Size** : 3mm - 75 mm dia ready stock with Mill Test Certificate

**Process** : Cold Drawn, Annealed, Export Bright & Black

**Tolerance** : H9, H11



Dairy Fittings

**Stainless Steel** : AISI 304, 304L, 316, 316L, 310, 317, 317L, 321, 347, 904L etc.

**Carbon Steel** : A105, A216, Gr. WCB, Cadmium Plated, Nickel, chrome Plated etc.

**Non-Ferrous Metal** : Copper, Brass, Titanium, Phosphorous Bronze etc.

**Type** : Nipple, Dairy Fittings, Union, S.M.S., I.D.F., Dairy Valve, Butterfly Valve, Ball Valve, Needle Valve, N.R.V. Valve, Float Valve, Safety Valve, Cock Valve, Syphon Tube



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

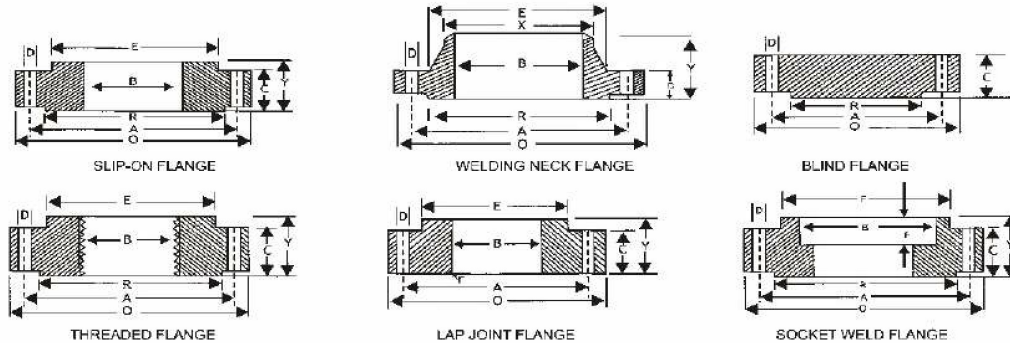
Nominal Bore		Outside Diameter	Sch-5S		Sch-10S		Sch-40S		Sch-80S		Sch-160S		Sch-XXS	
mm	INCH	mm	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)	Wt mm	Weight (Kg/mt)
3	1/8	10.3	1.24	0.276	1.24	0.28	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.24	0.390	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	12.7	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	12.7	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	12.7	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	-	-

**WEIGHT & THICKNESS OF S.S GAUGE PIPES**

DIMENSION		10 SWG (3.2 MM)	12 SWG (2.6 MM)	14 SWG (2.1 MM)	16 SWG (1.65 MM)	18 SWG (1.2 MM)	19 SWG (1.0 MM)
Size	OD	Weight/MTR	Weight/MTR	Weight/MTR	Weight/MTR	Weight/MTR	Weight/MTR
1/2"	12.7	0.754	0.651	0.552	0.452	0.342	0.290
5/8"	15.875	1.006	0.856	0.718	0.582	0.437	0.369
3/4"	19.05	1.258	1.061	0.883	0.712	0.531	0.448
1"	25.4	1.762	1.470	1.214	0.972	0.720	0.605
1 1/4"	31.75	2.266	1.880	1.544	1.232	0.909	0.763
1 1/2"	38.1	2.770	2.289	1.875	1.492	1.098	0.920
2"	50.8	3.778	3.108	2.537	2.012	1.476	1.235
2 1/2"	63.5	4.786	3.928	3.198	2.531	1.854	1.550
3"	76.2	5.794	4.747	3.860	3.051	2.232	1.865
3 1/2"	88.9	6.802	5.566	4.521	3.571	2.610	2.180
4"	101.6	7.810	6.385	5.183	4.091	2.988	2.495



**FLANGES 150 & 300**



**Dimensions of Class 150 Flanges as per ANSI B 16.5**

Nominal Pipe Size (MM) (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 & SW Y	W/N Y	L/J Y	S/O & SW B	L/J B			
15	1/2	88.9	60.3	15.9	4	11.1	30.2	15.9	47.6	15.9	22.3	22.9	34.9	9.5
20	3/4	98.4	69.8	15.9	4	12.7	38.1	15.9	52.4	15.9	27.7	28.2	42.9	11.1
25	1	107.9	79.4	15.9	4	14.3	49.2	17.5	55.6	17.5	34.5	35.0	50.8	12.7
32	1 1/4	117.5	88.9	15.9	4	15.9	58.7	20.6	57.1	20.6	43.2	43.7	63.5	14.3
40	1 1/2	127.0	98.4	15.9	4	17.5	65.1	22.2	61.9	22.2	49.5	50.0	73.0	15.9
50	2	152.4	120.6	19.0	4	19.0	77.8	25.4	63.5	25.4	62.0	62.5	92.1	17.5
65	2 1/2	177.8	139.7	19.0	4	22.2	90.5	28.6	69.8	28.6	74.7	75.4	104.8	19.0
80	3	190.5	152.4	19.0	4	23.8	107.9	30.2	69.8	30.2	90.7	91.4	127.0	20.6
100	4	228.6	190.5	19.0	8	23.8	134.9	33.3	76.2	33.3	116.1	116.8	157.2	23.8
125	5	254.0	215.9	22.2	8	23.8	163.5	36.5	88.9	36.5	143.8	144.5	185.7	23.8
150	6	279.4	241.3	22.2	8	25.4	192.1	39.7	88.9	39.7	170.7	171.4	215.9	27.0
200	8	342.9	298.4	22.2	8	28.6	246.1	44.4	101.6	44.4	221.5	222.2	269.9	31.7
250	10	406.4	361.9	25.4	12	30.2	304.8	49.2	101.6	49.2	276.3	277.4	323.8	33.3
300	12	482.6	431.8	25.4	12	31.8	365.1	55.6	114.3	55.6	327.1	328.2	381.0	39.7
350	14	533.4	476.2	28.6	12	34.9	400.0	57.1	127.0	79.4	359.1	360.2	412.7	41.3
400	16	596.9	539.7	28.6	16	36.5	457.2	63.5	127.0	87.3	410.5	411.2	469.9	44.4
450	18	635.0	577.8	31.7	16	39.7	504.8	68.3	139.7	96.8	461.8	462.3	533.4	49.2
500	20	698.5	635.0	31.7	20	42.9	558.8	73.0	144.5	103.2	513.1	514.3	584.2	54.0
600	24	812.8	749.3	34.9	20	47.6	663.6	82.5	152.4	111.1	615.9	615.9	692.1	63.5

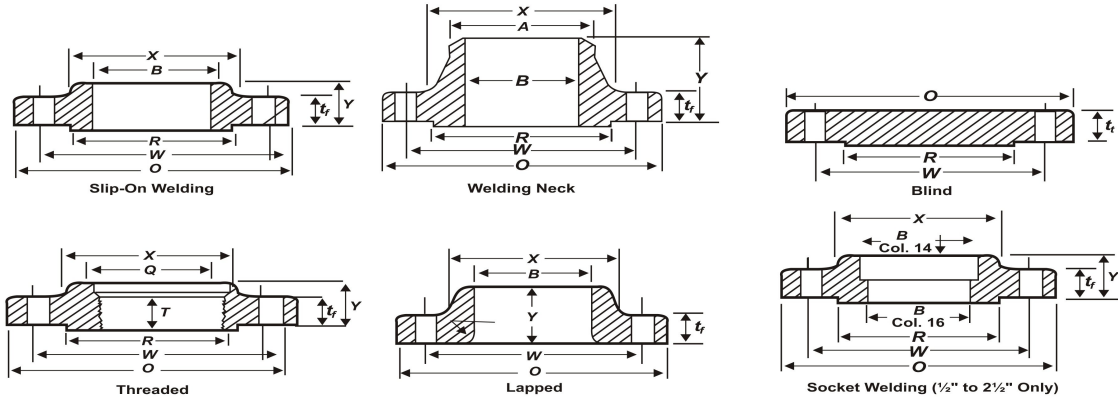
**Dimensions of Class 300 Flanges as per ANSI B 16.5**

Nominal Pipe Size (MM) (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 & SW Y	W/N Y	L/J Y	S/O & SW 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	-

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



**FLANGES 600 & 900**



**DIMENSIONS OF CLASS 600 FLANGES**

1	2	3	4	6			8	9			12	13			16	17	18	19
				5	6	7		10	11	14		15						
Nominal Pipe Size NPS	Outside Diameter of Flange, O	Thickness of Flange, Min., t <sub>f</sub>	Diameter of Hub, X	Drilling			Hub Diameter Beginning of Chamfer Welding Neck, A	Length Thru Hub			Threaded Length Threaded, Min., T	Bore			Corner Radius of Bore of Lapped Flange and Pipe, r	Counter-bore Threaded FLANGE Min., Q	Depth of Socket, D	Diameter of RF R
				Diameter of Bolt Circle W	Diameter of Bolt Holes, in.	Number of Bolts		Threaded/ Slip-On/ Socket Welding, Y	Lapped, Y	Welding Neck, Y		Slip-On/ Socket Welding Min., B	Lapped Min., B	Welding Neck/ Socket Welding, B				
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	22.3	4	48.3	32	32	70	23	49.5	50.0	6	50.6	16	73.0	
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	92.1	
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	104.8	
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	127.0	
3 1/2	228.5	35.0	133	184.2	25.4	8	101.6	49	49	86	40	103.4	104.1	10	104.9	...	139.7	
4	273.0	38.1	152	215.9	25.4	8	114.3	54	51	102	42	116.1	116.8	11	117.6	...	157.2	
5	330.0	44.5	189	266.7	28.6	8	141.3	60	54	114	48	143.8	144.4	11	144.4	...	185.7	
6	355.5	47.7	222	292.1	28.6	12	168.3	67	57	117	51	170.7	171.4	13	171.4	...	215.9	
8	419.0	55.6	273	349.2	31.8	12	219.1	76	68	133	58	221.5	222.2	13	222.2	...	269.9	
10	508.0	63.5	343	431.8	35.0	16	273.0	86	102	152	66	276.2	277.4	13	276.2	...	323.8	
12	559.0	66.7	400	489.0	35.0	20	323.8	92	108	156	70	327.0	328.2	13	328.6	...	381.0	
14	603.5	69.9	432	527.0	38.1	20	355.6	94	117	165	74	359.2	360.2	13	360.4	...	412.8	
16	686.0	76.2	495	603.2	41.3	20	406.4	106	127	178	78	410.5	411.2	13	411.2	...	469.9	
18	743.0	82.6	546	654.0	44.5	20	457.0	117	137	184	80	461.8	462.3	13	462.0	...	533.4	
20	813.0	88.9	610	723.9	44.5	24	508.0	127	146	190	83	513.1	514.4	13	512.8	...	584.2	
24	940.0	101.6	718	838.2	50.8	24	610.0	140	159	203	93	616.0	616.0	13	614.4	...	692.2	

NOTE : (1) Height of RF 7mm

**DIMENSIONS OF CLASS 900 FLANGES**

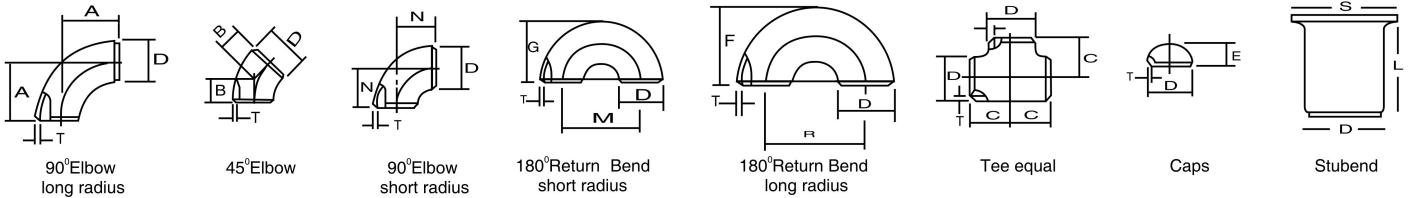
1	2	3	4	6			8	9			12	13			16	17	18	19
				5	6	7		10	11	14		15						
Nominal Pipe Size NPS	Outside Diameter of Flange, O	Thickness of Flange, Min., t <sub>f</sub>	Diameter of Hub, X	Drilling			Hub Diameter Beginning of Chamfer Welding Neck, A	Length Thru Hub			Threaded Length Threaded, Min., T	Bore			Corner Radius of Bore of Lapped Flange and Pipe, r	Counter-bore Threaded FLANGE Min., Q	Diameter of RF R	Socket, Weld D
				Diameter of Bolt Circle W	Diameter of Bolt Holes, in.	Number of Bolts		Threaded/ Slip-On/ Y	Lapped, Y	Welding Neck, Y		Slip-On/ Socket Welding Min., B	Lapped Min., B	Welding Neck/ Socket Welding, B				
1/2	120.7	22.3	38	82.6	22.3	4	21.3	32	32	60	23	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	70	26	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	73	29	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	73	31	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	83	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	102	39	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	105	48	74.6	75.4	8	76.2	19	104.8	
3	241.3	38.1	127	190.5	25.4	8	88.9	54	54	102	42	90.7	91.4	10	92.2	21	127.0	
4	292.1	44.5	159	235.0	31.8	8	114.3	70	70	114	48	116.1	116.8	11	117.6	...	139.7	
5	349.3	50.8	190	279.4	35.0	8	141.3	79	79	127	54	143.8	144.4	11	144.4	...	185.7	
6	381.0	55.6	235	317.5	31.8	12	168.3	86	86	140	58	170.7	171.4	13	171.4	...	215.9	
8	469.9	63.5	298	393.7	38.1	12	219.1	102	114	162	64	221.5	222.2	13	222.2	...	269.9	
10	546.1	69.9	368	469.9	38.1	16	273.0	108	127	184	72	276.2	277.4	13	276.2	...	323.8	
12	609.5	79.4	419	533.4	38.1	20	323.8	117	143	200	77	327.0	328.2	13	328.6	...	381.0	
14	641.4	85.8	451	558.8	41.3	20	355.6	130	156	213	83	359.2	360.2	13	360.4	...	412.8	
16	704.9	88.9	508	616.0	44.5	20	406.4	133	165	216	86	410.5	411.2	13	411.2	...	469.9	
18	787.4	101.6	565	685.8	50.8	20	457.0	152	190	229	89	461.8	462.3	13	462.0	...	533.4	
20	857.3	108.0	622	749.3	54.0	20	508.0	159	210	248	93	513.1	514.4	13	512.8	...	584.2	
24	1041.4	139.7	749	901.7	66.7	20	610.0	203	267	292	102	616.0	616.0	13	614.4	...	692.2	

NOTE : (1) Height of RF 7mm





**Butt Welding Pipe Fittings Dimensional Standard ANSI B-16.9, B-16.28**

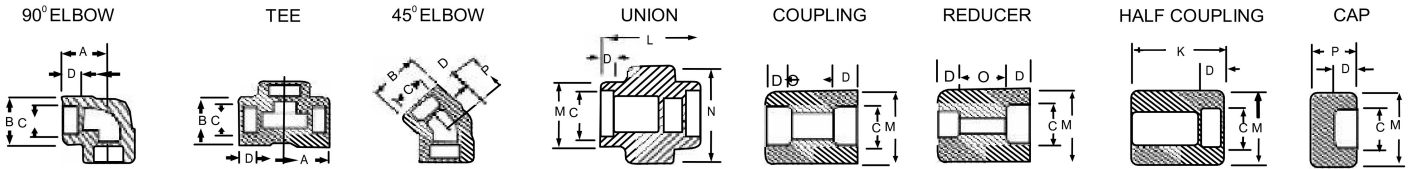


Nominal Pipe Size		Outside Diameter	Center to Face				Back to Face			Center to Center			Length 'L'	
Inch.	mm	D	A	B	C	N	E	F	G	R	M	S	MSS SP43	ANSI B 16.9
1/2	15	21.3	38	16	25	—	25	48	—	76	—	34.9	50.8	76.2
3/4	20	26.7	38	11	29	—	25	43	—	57	—	42.8	50.8	76.2
1	25	33.4	38	22	38	25	38	56	41	76	51	50.8	50.8	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
26	650	660.0	991	406	495	660	267	—	—	—	—	—	—	—
28	700	711.0	1067	438	521	711	267	—	—	—	—	—	—	—
30	750	762.0	1143	470	559	762	267	—	—	—	—	—	—	—
32	800	813.0	1219	502	597	813	267	—	—	—	—	—	—	—
34	850	864.0	1295	533	635	864	267	—	—	—	—	—	—	—
36	900	914.0	1372	565	673	914	267	—	—	—	—	—	—	—
38	950	965.0	1448	600	711	965	305	—	—	—	—	—	—	—
40	1000	1016.0	1524	632	749	1016	305	—	—	—	—	—	—	—
42	1050	1067.0	1600	660	762	1067	305	—	—	—	—	—	—	—
44	1100	1118.0	1676	695	813	1118	343	—	—	—	—	—	—	—
46	1150	1168.0	1753	727	851	1168	343	—	—	—	—	—	—	—
48	1200	1219.0	1829	759	889	1219	343	—	—	—	—	—	—	—



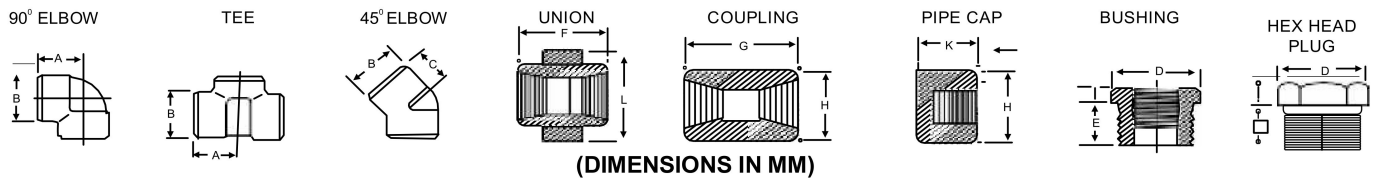


**SOCKET WELD FITTING TO ANSI B-16.11**



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	

**FORGED SCREWED FITTING TO ANSI B-16.11 3000/6000 LBS. THREADED TO ASA B 2.1**



(DIMENSIONS IN MM)

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

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



Power House



Steel Plant



Offshore Platform



Chemical Industries



Petrochemical Industries

## FORMULA OF CALCULATING WEIGHT

- 1) **WEIGHT OF S. S. PIPE**  
 $O.D. (mm) - W. Thick (mm) \times W. Thick (mm) \times 0.0248 = Wt. Per Mtr.$   
 $O.D. (mm) - W. Thick (mm) \times W. Thick (mm) \times 0.00756 = Wt. Per Feet$
- 2) **WEIGHT OF S. S. ROUND BAR**  
 $DIA (mm) \times DIA (mm) \times 0.00623 = Wt. Per Mtr.$   
 $DIA (mm) \times DIA (mm) \times 0.0019 = Wt. Per Feet$
- 3) **WEIGHT OF S. S. SQUARE BAR**  
 $DIA (mm) \times DIA (mm) \times 0.00788 = Wt. Per Mtr.$   
 $DIA (mm) \times DIA (mm) \times 0.0024 = Wt. Per Feet$
- 4) **WEIGHT OF S. S. HEXAGONAL BAR**  
 $DIA (mm) \times DIA (mm) \times 0.00680 = Wt. Per Mtr.$   
 $DIA (mm) \times DIA (mm) \times 0.002072 = Wt. Per Feet$
- 5) **WEIGHT OF S. S. FLAT BAR**  
 $Width (mm) \times Thick (mm) \times 0.00798 = Wt. Per Mtr.$   
 $Width (mm) \times Thick (mm) \times 0.00243 = Wt. Per Feet$
- 6) **WEIGHT OF S. S. SHEETS & PLATES**  
 $Length (Mtrs) \times Width (Mtrs) \times Thick (mm) \times 8 = Wt. Per PC$   
 $Length (Fit) \times Width (Fit) \times Thick (mm) \times 3/4 = Wt. Per PC$
- 7) **WEIGHT OF S. S. CIRCLE**  
 $DIA (mm) \times DIA (mm) \times Thick (mm) \div 160 = Gms. PC$   
 $DIA (mm) \times DIA (mm) \times Thick (mm) \times 0.0000063 = Kg. Per PC$
- 8) **WEIGHT OF BRASS PIPE / COPPER PIPE**  
 $O.D. (mm) - Thick (mm) \times 0.0260 = Wt. Per Mtr.$
- 9) **WEIGHT OF LEAD PIPE**  
 $O. D. (mm) - Wt. (mm) \times Wt. (mm) \times 0.0345 = Wt. Per Mtr.$
- 10) **WEIGHT OF ALUMINIUM PIPE**  
 $O. D. (mm) - Thick (mm) \times Thick (mm) \times 0.0083 = Wt. Per Mtr.$
- 11) **WEIGHT OF ALUMINIUM SHEET**  
 $Length (Mtr.) \times Width (Mtr.) \times Thick (mm) \times 2.69 = Wt. Per PC$
- 12) **WEIGHT OF CONVERSION OF MTR. TO FEET**  
 $Wt. of Mtr. \div 3.2808 = Wt. Per Feet.$



Flange CNC Machine



Fertilizer Plants



Refinery Petrochemical Plant



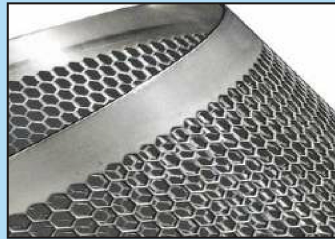
Port Trusts



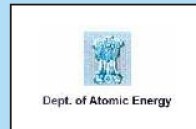
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