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# M.P. METAL & TUBE



“Providing the Best Solution in **STEEL**”



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Cell : 9619998505 / 9082323526 / 9372676025 • Tel.: 022-6743 7152 • E-mail : mpmetal9@gmail.com / info@mpmt.co.in



## Company Profile



**M.P. Metal & Tube** was founded, it has been our mission to not only manufacture All Types of Flanges, Butt weld fittings Elbow, Tee, Reducer, long radius (3D, 5D, Customized) bends and large diameter welded 2 Halves Pipe Fittings but also provide complete piping package solutions to our customers.

By flexibility, skill, experience and dedication to our work as well as long-standing relationships with leading manufacturers for all piping related products, we have become over the years a well-known and leading supplier to EPC and End users across the globe.

We have also become a ONE STOP SHOP for reliable Indian origin Piping Supplies for various stockists and traders around the world. Hard-to-find items, short delivery times, rare material grades and similar tasks are just as much our daily business as standard items from mass production. We find solutions for your individual requirements.

We have our own in-house inspection and commissioning staff enabling us to satisfy each customer's individual logistical requirements.

## Quality Policy

Quality is our mission, the quality policy is our main tool in achieving it.  
Utmost Satisfaction of client's expectation.  
Innovative, Cost and time effective services  
Consistent and Continuous quality improvement  
Fulfillments of defined quality objective targets  
Develop the organization as an International for excellence  
Continuous evaluation of market to explore challenging areas of operation

The group is determined to improve productivity and focus continuously on and people

### Testing Facility Available

- Chemical Analysis
- Mechanical Tests
- Metallography Test
- Hydrostatic
- Corrosion Test
- Ultrasonic Test
- Radiography
- Miscellaneous Test





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## FLANGES

Type	:	<ul style="list-style-type: none"><li>• Slip On</li><li>• Blind</li><li>• Lap Joint</li><li>• Screwed</li><li>• Socket Weld</li><li>• Weld Neck</li><li>• Oriface</li><li>• Spectacle Blind</li><li>• Threaded</li></ul>
Flanges Facing	:	Raised Face, Flat Face, Small & Large-Male-Female, Small & Large Tongue & Groove, Ring Joint,
Dimension	:	ANSI, ASME, DIN, JIS, BS, AFNOR, AS, MSS, Bs10 etc.
Size	:	1/4" NB - 48" NB (Any Special Size)
Thickness	:	125#, 150#, 300#, 600#, 900#, 1500#, 2500# Table D, E, F, H, Pn6, 10, 16, 25, 40, 100 (Any Special Thickness)
Stainless Steel	:	ASTM A 240, ASTM A 182 F, 304, 304L, 304H, 316, 316L, 316H, 316Ti, 321, 309, 310, 347, 904L etc.
Nickel Alloys	:	Hast Alloy, Monel, Inconel, Nickel, Cupro Nickel, Titanium, Duplex Super Duplex etc.





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## BUTTWELD FITTING

Type	:	<ul style="list-style-type: none"><li>• 45°, 90° &amp; 180° Elbow &amp; Bends</li><li>• Equal Tee &amp; Un Equal Tee</li><li>• Short &amp; Long Neck Stubend</li><li>• Concentric &amp; Eccentric Reducers</li><li>• Pipe End Caps</li><li>• Collars</li><li>• Cross etc.</li></ul>
Dimension	:	ANSI, ASME, DIN, JIS, MSS etc.
Size	:	1/4" NB - 16" NB (Seamless) 1/4" NB - 48" NB (ERW)
Thickness	:	SCH 5S, SCH 10S, SCH 20S, SCH 40S, SCH 80S, SCH 120S, SCH 160S, SCH XXS (Any Special Thickness)
Stainless Steel	:	ASTM A403 WP 304, 304H, 316, 316L, 316H, 316Ti, 321, 309, 310, 347, 904L etc.
Nickel Alloys	:	Hast Alloy, Monel, Inconel, Nickel, Cupro Nickel, Titanium, Duplex Super Duplex etc.

**TEE**



**ELBOW**



**STUBEND**



**REDUCER**



**END CAP**



**180° BEND**





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## FORGED FITTING

- Type :
  - Elbow 45°, 90°
  - Equal Tee & Un Equal Tee
  - Union
  - Full & Half Coupling
  - Cross
  - Cap
  - Swage Nipple
  - Plug
  - Bush
  - Olets (Weldolet, Sockolet etc.)
- Dimension : ANSI, ASME, DIN, JIS, MSS etc.
- Size : 1/4" NB - 4" NB
- Thickness : 3000#, 6000#, 9000# (Any Special Thickness)
- Stainless Steel : ASTM A 182 F 304, 304H, 316, 316L, 316H, 316Ti, 321, 309, 310 347, 904L etc.
- Nickel Alloys : Hast Alloy, Monel, Inconel, Nickel, Cupro Nickel, Titanium, Duplex Super Duplex etc.

**ELBOW**



**TEE**



**UNION**



**CROSS**



**WELDOLET**



**COUPLING**





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**Dimension :** ASTM A 270 TP  
**Size :** 1/2" (12.7mm OD) to 12" (304.8mm OD)

**Thickness :** 1mm, 1.2mm, 1.6mm, 2mm, 3mm  
**Stainless Steel :** ASTM A 270, 304, 304L, 316, 316L



90° Bend Plain



Tee Plain



Con Reducer



45° Bend Plain



Cross Tee Plain



Y Bend Plain



TC Tee



TC Bend 90°



TC Y-Bend



TC 45° Bend



TC U Bend



TC Reducer



TC CKMiss



SMS Bend



TC Clamp Indian Set



TC Clamp Full Set



TC Clamp



TC Ferrule



Ferrule Blind



Union Ring



TC Gasket



Butterfly Gasket



Dairy Pipe Holder



Dairy Pipe Holder Imported



Dairy Clamp with Stand



SMS Union



DIN Union



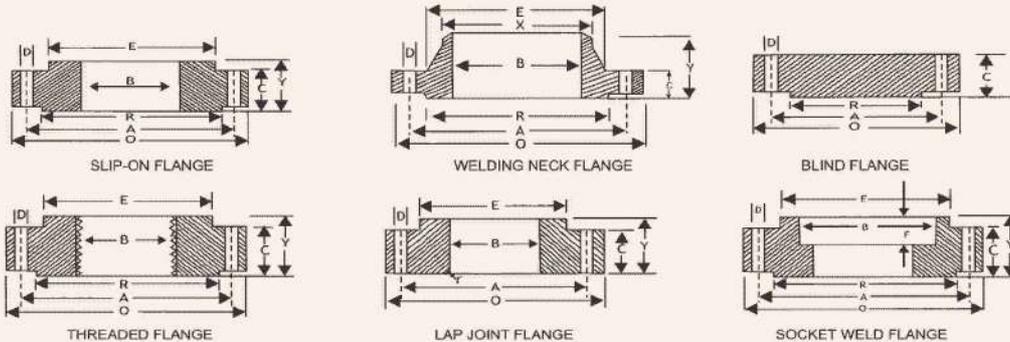
Side View Glass



Blind Nut



Welded Union



### 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

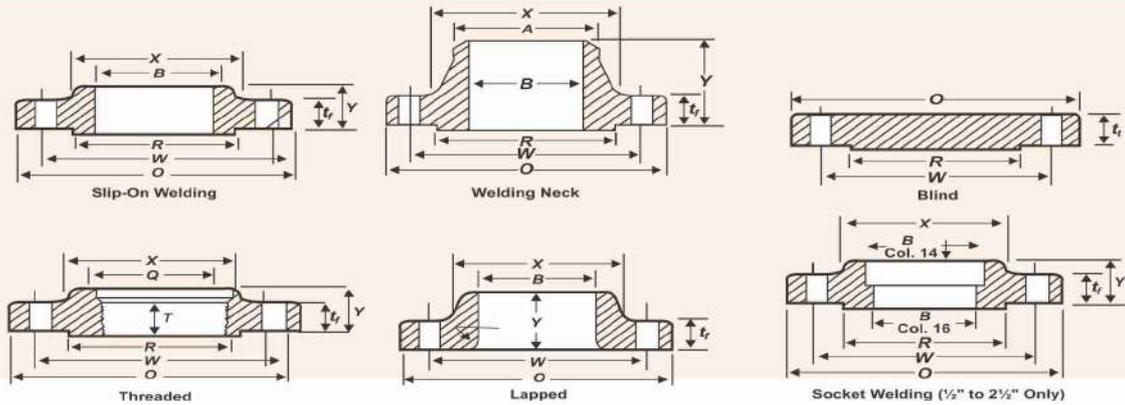
Nominal Pipe Size (MM) (INCH.)	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. of Holes	Thk. of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F	
							S/O & SW Y	W/N Y	L/J Y	S/O & SW B	L/J B			
15	1/2	95.2	66.7	15.9	4	14.3	38.1	22.2	52.4	22.2	22.3	22.9	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)"



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## DIMENSIONS OF CLASS 600 FLANGES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Nominal Pipe Size NPS	Outside Diameter of Flange, O	Thickness of Flange, Min., t	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, 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	To be Specified by Purchaser	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	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Nominal Pipe Size NPS	Outside Diameter of Flange, O	Thickness of Flange, Min., t	Diameter of Hub, X	Drilling			Hub Diameter Beginning of Chamfer Welding Neck, A	Length Thru Hub			Threaded Length Threaded Flange 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/Socket Welding, Y	Lapped, Y	Welding Neck, Y		Slip-On/Socket Welding Min., B	Lapped, 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	To be Specified by Purchaser	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



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## Dimension of Pipe Flanges as per Table BS-10

TABLE - D					
For Working Stream Pressure aboe 250 lbs and upto 350 lbs per sq. inch					
Nominal Pipe Size (in m)	Dia. of Flang	Dia. of Bolt Circle (PCD)	No. of Bolt	Dia. of Bolt	Thickness of Flange
mm	mm	mm	mm	mm	mm
15	95	67	4	13	5
20	102	73	4	13	5
25	114	83	4	13	5
32	121	87	4	13	6
40	133	98	4	13	6
50	152	114	4	16	8
65	165	127	4	16	8
80	184	145	4	16	10
100	216	178	4	16	10
125	254	210	8	16	13
150	279	235	8	16	13
200	337	292	8	16	13
250	406	356	8	19	16
300	457	406	12	19	16
350	527	470	12	22	19
400	578	521	12	22	19
450	641	584	12	22	22
500	705	641	16	22	25
600	826	756	16	25	29

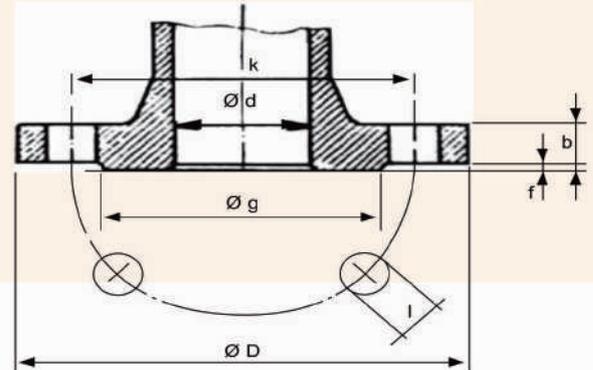
TABLE - E					
For Working Stream Pressure above 350 lbs and upto 450 lbs per sq. inch					
Nominal Pipe Size (in mm)	Dia. of Flang	Dia. of Bolt Circle(PCD)	No. of Bolt	Dia. of Bolt	Thickness of Flange
mm	mm	mm	mm	mm	mm
15	95	67	4	13	6
20	102	73	4	13	6
25	114	83	4	13	7
32	121	87	4	13	8
40	133	98	4	13	9
50	152	114	4	6	10
65	165	127	4	16	10
80	184	145	4	16	11
100	216	178	8	16	13
125	254	210	8	16	14
150	279	235	8	19	17
200	337	292	8	19	19
250	406	356	12	19	22
300	457	406	12	22	25
350	527	470	12	22	25
400	578	521	12	22	25
450	641	584	16	22	29
500	705	641	16	22	32
600	826	756	16	25	38

TABLE - F					
For Working Stream Pressure aboe 250 lbs and upto 350 lbs per sq. inch					
Nominal Pipe Size (in mm)	Dia. of Flang	Dia. of Bolt Circle (PCD)	No. of Bolt	Dia. of Bolt	Thickness of Flange
mm	mm	mm	mm	mm	mm
15	95	67	4	13	10
20	102	73	4	13	10
25	121	87	4	16	10
32	133	98	4	16	13
40	140	105	4	16	13
50	165	127	4	16	16
65	184	145	8	16	16
80	203	165	8	16	16
100	229	191	8	16	19
125	279	235	8	19	22
150	305	260	12	19	22
200	368	324	12	19	25
250	432	381	12	22	25
300	489	438	16	22	29
350	552	495	16	25	32
400	610	552	20	25	32
450	673	610	20	29	35
500	737	673	24	29	38
600	851	781	24	32	38

TABLE - H					
For Working Stream Pressure above 350 lbs and upto 450 lbs per sq. inch					
Nominal Pipe Size (in mm)	Dia. of Flang	Dia. of Bolt Circle(PCD)	No. of Bolt	Dia. of Bolt	Thickness of Flange
mm	mm	mm	mm	mm	mm
15	114	83	4	16	13
20	114	83	4	16	13
25	121	87	4	16	14
32	133	98	4	16	17
40	140	105	4	16	17
50	165	127	4	16	19
65	184	145	8	16	19
80	203	165	8	16	22
100	229	191	8	16	25
125	279	235	8	19	29
150	305	260	12	19	29
200	368	324	12	19	32
250	432	381	12	22	35
300	489	438	16	22	38
350	552	495	16	25	41
400	610	552	20	25	44
450	673	610	20	29	48
500	737	673	24	29	51
600	851	781	24	32	57

## Flange Dimension DIN Standard

Raised Face Flange, Blind Flange, Raised Face



- d - Nominal bore
- D - Flange diameter
- b - Flange thickness
- k - Pitch circle diameter
- l - Hole diameter
- g - Diameter of raised face
- f - Height of raised face

## Flange Dimension DIN Standard

Flange DN mm	d	PN10							PN16								
		Dimension					Bolts		Dimension					Bolts			
		D	k	b	l	g	f	Nbr	Ø	D	k	b	l	g	f	Nbr	Ø
10	18	90	60	14	14	40	2	4	M12	90	60	14	14	40	2	4	M12
15	22.5	95	65	14	14	45	2	4	M12	95	65	14	14	45	2	4	M12
20	28	105	75	16	14	58	2	4	M12	105	75	16	14	58	2	4	M12
25	34.5	115	85	16	14	68	2	4	M12	115	85	16	14	68	2	4	M12
32	43.5	140	100	18	18	78	2	4	M16	140	100	18	18	78	2	4	M16
40	50	150	110	18	18	88	3	4	M16	150	110	18	18	88	3	4	M16
50	61.5	165	125	18	18	102	3	4	M16	165	125	18	18	102	3	4	M16
65	77.5	185	145	18	18	122	3	4	M16	185	145	18	18	122	3	4	M16
80	90.5	200	160	20	18	138	3	8	M16	200	160	20	18	138	3	8	M16
100	117	220	180	20	18	158	3	8	M16	220	180	20	18	158	3	8	M16
125	142	250	210	22	18	188	3	8	M16	250	210	22	18	188	3	8	M16
150	170	285	240	22	22	212	3	8	M20	285	240	22	22	212	3	8	M20
175	192	315	270	24	22	242	3	8	M20	315	270	24	22	242	3	8	M20
200	220	340	295	24	22	268	3	8	M20	340	295	24	22	268	3	12	M20
250	276	395	350	26	22	320	3	12	M20	405	355	28	26	320	3	12	M24
300	327	445	400	26	22	370	4	12	M20	460	410	30	26	378	4	12	M24
350	360	505	460	26	22	430	4	16	M20	520	470	30	26	438	4	16	M24
400	410	565	515	26	26	482	4	16	M24	580	525	32	30	490	4	16	M27

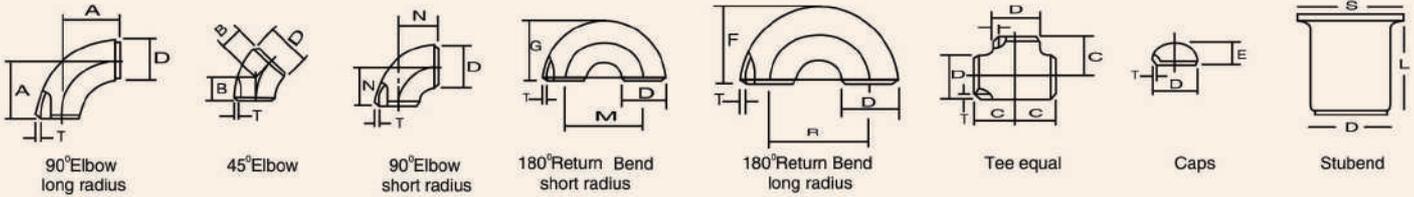
Flange DN mm	d	PN25							PN40								
		Dimension					Bolts		Dimension					Bolts			
		D	k	b	l	g	f	Nbr	Ø	D	k	b	l	g	f	Nbr	Ø
10	18	90	60	16	14	40	2	4	M12	90	60	16	14	40	2	4	M12
15	22.5	95	65	16	14	45	2	4	M12	95	65	16	14	45	2	4	M12
20	28	105	75	18	14	58	2	4	M12	105	75	18	14	58	2	4	M12
25	34.5	115	85	18	14	68	2	4	M12	115	85	18	14	68	2	4	M12
32	43.5	140	100	18	18	78	2	4	M16	140	100	18	18	78	2	4	M16
40	50	150	110	18	18	88	3	4	M16	150	110	18	18	88	3	4	M16
50	61.5	165	125	20	18	102	3	4	M16	165	125	20	18	102	3	4	M16
65	77.5	185	145	22	18	122	3	8	M16	185	145	22	18	122	3	8	M16
80	90.5	200	160	24	18	138	3	8	M16	200	160	24	18	138	3	8	M16
100	117	235	190	24	22	162	3	8	M20	235	190	24	22	162	3	8	M20
125	142	270	220	26	26	188	3	8	M24	270	220	26	26	188	3	8	M24
150	170	300	250	28	26	218	3	8	M24	300	250	28	26	218	3	8	M24
175	192	330	280	28	26	248	3	12	M24	350	295	32	30	260	3	12	M24
200	220	360	310	30	26	278	3	12	M24	375	320	34	30	285	3	12	M27
250	276	425	370	32	30	335	3	12	M27	450	385	38	33	345	3	12	M27
300	327	485	430	34	30	395	4	16	M27	515	450	42	33	410	4	16	M30
350	360	555	490	38	33	450	4	16	M30	580	510	46	36	465	4	16	M33
400	410	620	550	40	36	505	4	16	M33	660	585	50	39	535	4	16	M36



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



Nominal Pipe Size		Outside Diameter D	Center to Face				Back to Face			Center to Center			Length 'L'	
Inch.	mm		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	—	—	—	—	—	—	—





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

Nominal Bore		Outside Diameter mm	Sch-5S		Sch-10S		Sch-40S		Sch-80S		Sch-160S		Sch-XXS	
mm	INCH		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

S.S. Welded Pipe 12.5% Tolrence (-)



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## Dimension & Weight of Black & Galvanized ERW / Welded Steel Tubes Confirming to ISI - IS : 3589 Gr. FE-330/410

SIZE		WALL THICKNESS (mm)							
NB	OD	4.00	5.00	6.00	6.35	7.00	8.00	9.50	10.00
Inch	mm	CONVENTIONAL MASS (Kg/m)							
7	175	18.71	23.27	27.77	29.34	32.23	36.63	-	-
8	200	21.22	26.40	31.53	33.31	36.61	41.65	49.10	51.56
10	250	26.54	33.06	39.52	41.77	45.93	52.30	61.75	64.88
12	300	31.55	39.32	47.04	49.73	54.70	62.32	73.65	77.41
14	350	34.68	43.23	51.73	54.69	60.18	68.57	81.08	85.22
16	400	-	49.49	59.24	62.64	68.94	78.60	92.98	97.75
18	450	-	55.73	66.73	70.57	77.68	88.58	104.84	110.23
20	500	-	62.02	74.28	78.55	86.48	98.64	116.78	122.81
24	600	-	74.60	89.37	94.53	104.09	118.76	140.68	147.96

## Dimension & Weight of Black & Galvanized ERW / Welded Steel Tubes Confirming to ISI : 1239 (I)

SERIES/ CLASS	LIGHT / A			MEDIUM / B			HEAVY / C		
	O.D. mm	Wall Thk mm	Weight Kg/m	Wall Thk mm	Weight Kg/m	Wall Thk mm	Weight Kg/m	Wall Thk mm	Weight Kg/m
1/2	15	2.0	0.947	2.6	1.21	3.2	1.44	3.2	1.45
3/4	20	2.3	1.38	2.6	1.56	3.2	1.87	3.2	1.88
1	25	2.6	1.98	3.2	2.41	4.0	2.93	4.0	2.95
1.1/4	32	2.6	2.54	3.2	3.10	4.0	3.79	4.0	3.82
1.1/2	40	2.9	3.23	3.2	3.56	4.0	4.37	4.0	4.41
2	50	2.9	4.08	3.6	5.03	4.5	6.19	4.5	6.26
2.1/2	65	3.2	5.71	3.6	6.42	4.5	7.93	4.5	8.05
3	80	3.2	6.72	4.0	8.36	4.8	9.90	4.8	10.10
4	100	3.6	9.75	4.5	12.20	5.4	14.50	5.4	14.80
5	125	4.5	15.00	4.8	15.90	5.4	17.90	5.4	18.40
6	150	4.5	17.80	4.8	18.90	5.4	21.30	5.4	21.90

P/E : Plain End • S/S : Screwed & Socketed



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भारत सरकार  
 Government of India  
 सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
 Ministry of Micro, Small and Medium Enterprises

सूक्ष्म, लघु एवं मध्यम उद्यम  
 MSME

### UDYAM REGISTRATION CERTIFICATE

**UDYAM REGISTRATION NUMBER** : UDYAM-MH-19-065525  
**NAME OF ENTERPRISE** : M P METAL & TUBE

S.No.	Classification Year	Enterprise Type	Classification Date
1	2025-26	Micro	01/04/2025
2	2024-25	Small	27/04/2024
3	2023-24	Small	09/05/2023
4	2022-23	Small	26/06/2022

**TYPE OF ENTERPRISE\*** : **MANUFACTURING**  
**MAJOR ACTIVITY** : **GENERAL**  
**SOCIAL CATEGORY OF ENTREPRENEUR** : **GENERAL**

**NAME OF UNIT(S)** :  
 S.No. Name of Unit(s)  
 1 M P METAL & TUBE

**OFFICIAL ADDRESS OF ENTERPRISE** :  

Flat/Door/Block No.	IST FLOOR, 90/92,	Name of Premises/ Building	KAKAD HOUSE OFFICE NO.-7
Village/Town	MUMBAI	Block	MUMBAI
Road/Street/Lane	BHANDARI STREET	City	MUMBAI
State	MAHARASHTRA	District	MUMBAI, Pin-400004
Mobile	9619998505	Email:	mpmetal9@gmail.com

**DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE** : 05/10/2017  
**DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS** : 05/10/2017

S.No.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	24 - Manufacture of basic metals	2432 - Casting of non-ferrous metals	24320 - Casting of non-ferrous metals	Manufacturing

**NATIONAL INDUSTRY CLASSIFICATION CODE(S)** :  
**DATE OF UDYAM REGISTRATION** : 05/04/2021

\* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the Mo/ MSME.  
 Disclaimer: This is computer generated statement, no signature required. Printed from <https://udyamregistration.gov.in> & Date of printing: 22/04/2022

### Certificate of Registration

This is to certify that

**MP METAL & TUBE**  
 IST FLOOR" 90 / 92KAKAD HOUSE, OFFICE NO 7, BHANDARI STREET,  
 MUMBAI, MAHARASHTRA- 400004, INDIA

has been independently assessed by QRO  
 and is compliant with the requirement of:

**ISO 9001:2015**  
**Quality Management System**

For the following scope of activities:

**MANUFACTURER & SUPPLIER OF PIPE, TUBE, FITTING, ROUND BARS, PLATES, FASTENERS MATERIAL: - STAINLESS STEEL, CARBON STEEL, ALLOY STEEL, DUPLEX STEEL, NICKLE ALLOYS**

Date of Certification: 9th March 2024  
 1<sup>st</sup> Surveillance Audit Due: 8th March 2025  
 2<sup>nd</sup> Surveillance Audit Due: 8th March 2026  
 Certificate Expiry: 8th March 2027

Certificate Number: 05024030908Q

Validity of this certificate is subject to annual surveillance audits to be done successfully as or before 90 days from date of the audit. In case surveillance audit is not allowed to be conducted this certificate shall be suspended/ withdrawn.  
 The validity of this certificate can be verified at [www.qroert.org](http://www.qroert.org).  
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DATE : 20.07.2022, MUMBAI

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 एमआई बिल्डिंग, न्यू मरीन लाइन्स, चर्चगेट, मुंबई, महाराष्ट्र, 400020

**Importer-Exporter Code**

This is to certify that **M.P. METAL & TUBE** is issued an Importer-Exporter Code (IEC) **AHGPP8170M** with details as follows -

IEC	AHGPP8170M
पदाई कार्यालय सं./पैन / PAN	AHGPP8170M
फर्म का नाम/Firm Name	M.P. METAL & TUBE
विषय की प्रकृति /Nature of Concern	Partnership
जारी करने की तारीख/Date of Issue	27/10/2022
पता/Registered Address	90/92, Kakad House, 1st Floor, Office No. 7, Bhandari Street, Opp. Goldevai Temple, GIRGAON, Mumbai, MAHARASHTRA-400004.
सहस्रक नाम / Name of the Signatory	MEHDARAM E. PATEL
Director / Partner Details	Refer online at <a href="https://dgft.gov.in">https://dgft.gov.in</a> or scan the QR Code
शाखा/दफ्तार /Branch Details	Refer online at <a href="https://dgft.gov.in">https://dgft.gov.in</a> or scan the QR Code

Last Modified : 27-10-2022  
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# M.P. METAL & TUBE

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## FORMULA OF CALCULATING WEIGHT

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

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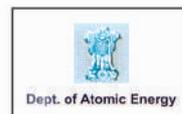
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