



Sheets
 FLANGES Bars
 Exotic Steel
 Pipes
 Fittings
 Alloy
 Fasteners
 Plates
 Sheets
 Alloy
 Sheets
 Fasteners
 Pipes
 Fittings
 SHEETS
 FLANGES
 Exotic Steel
 Alloy
 Stainless Steel
 Pipes
 Fittings
 SHEETS
 FLANGES
 Exotic Steel
 Pipes
 Fittings
 SHEETS
 FLANGES
 Exotic Steel

IMPORTER, STOCKISTS & SUPPLIERS OF:
 Ferrous & non-ferrous metal, Sheet, Plate,
 Coils, Pipe, Round Bar, etc



Estd. 1991

PADMAVATI
STEEL & ENGG Co.
 AN ISO 9001-2015 CERTIFIED CO.



Corporate Info.

About Us

Padmavati Steel & Engg. Co. one of the leading Importers, Stockiest , Exporters and Suppliers of Stainless steel, Alloy steel, Carbon steel, Copper, Brass, Inconel, Monel, Aluminum, Hastelloy, Titanium, Tantalum, Hordox in the state of Sheets, Plates, Coils, Pipe, Tubes, Rods, Wires, Angels and the whole scope of Flanges and Pipes Fittings, for example, BW/SW/Screwed/Forged and pressure sort with Ferrules, for example, Elbows, Tees, Reducers, stubends, Union, Caps, Nipples, Couplings, Elbowlets, Weldolets, Nuts, Bolts, Studs, Washers, Valves, Gaskets and so on.

Exports Having establish our presence in the Indian market, we are now aggressively venturing into exporting of our products to various countries. We are already exporting our product to Europe, middle East, Far East and African Countries.

ISO 9001-2008: In recognition of our efforts in quality control we have been awarded the coveted ISO 9001 -2008 quality certification from reputed agency.

Vision To wind up distinctly a venturesome association in the field of Ferrous & non-ferrous metal items. To be known for nature of items and astounding administration.

Mission To Satisfy our customers' needs by giving top notch items at Competitive cost according to the timetable and to keep up long haul association with our customers.

Quality Policy We are focused on ceaselessly update our insight and aptitudes to enhance the effectiveness of our association and take a stab at exceptional nature of our items



GRADE RANGE

Stainless Steel Grades

201, 202, JT, J4, 4% Ni, 301, 304, 304L, 304H, 304LN, 308, 309, 309S, 310, 310S, 316, 316L, 316LN, 316Ti, 317, 317L, 321, 321H, 347, 347H, 409, 409L, 409M, 410, 410S, 420, 430, 431, 440C, 441, 904L

Duplex Steel Grade & Super Duplex / 174 PH Grade

2205 (UNS No. S31803), 2207 (UNS No. S32760), 2304, 31803

Nickel Alloy Grade

Nickel 200 (UNS No. N02200)	Nickel 201 (UNS No. N02201)
Monel 400 (UNS No. N04400)	Monel 500 (UNS No. N05500)
Inconel 800 (UNS No. N08800)	Inconel 825 (UNS No. N08825)
Inconel 600 (UNS No. N06600)	Inconel 625 (UNS No. N06625)
Inconel 601 (UNS No. N06601)	Hastelloy C 276 (UNS No. N10276)
Alloy 20 (UNS No. N08020)	Titanium Grade 2 & 5

Grade: All Grades Covering Mild Steel (MS) & Carbon Steel (CS)

PRODUCT RANGE

SHEETS, COILS & STRIPS

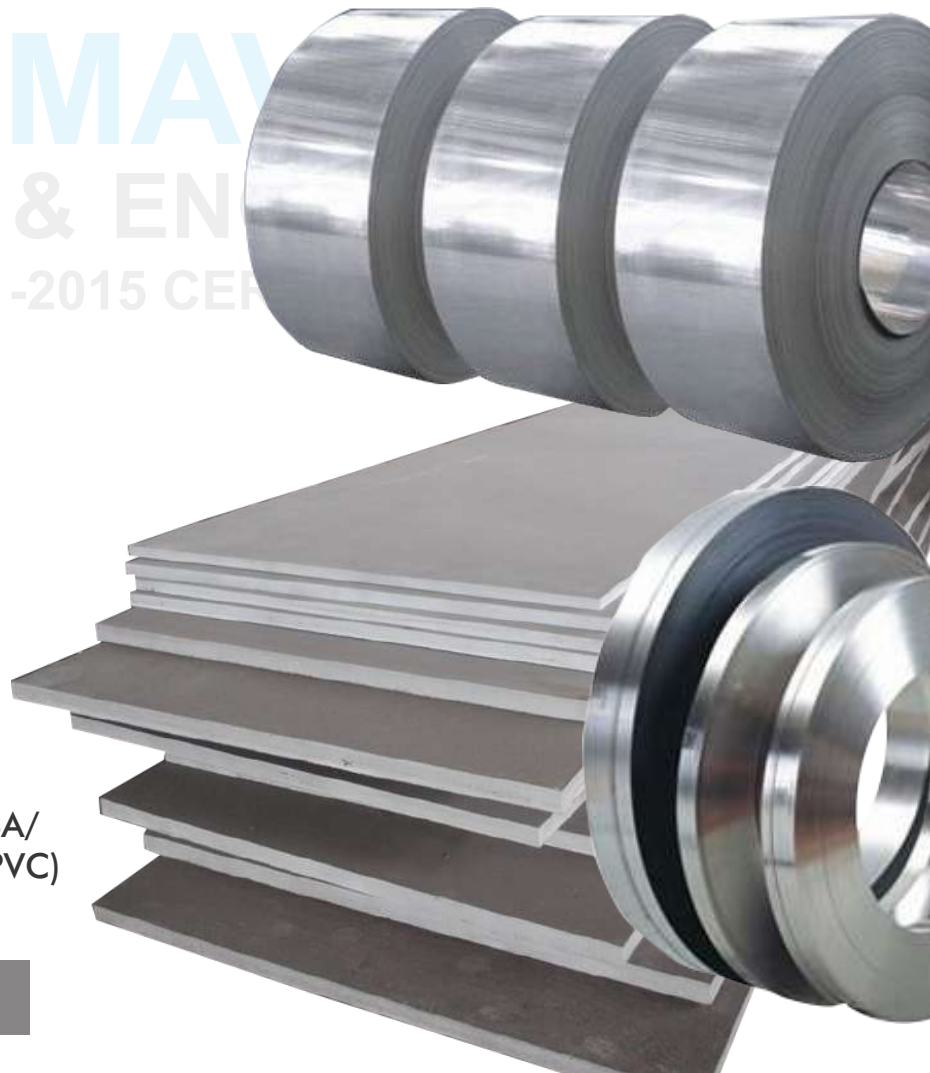
Range (Sheets, Coils & Plate)

Thickness: 0.1 mm to 200 mm
Width: 1000 mm to 2500 mm
Length: 2500 mm, 3000 mm,
5000 mm 6000 mm

Range (STRIPS)

Thickness: 0.1 mm to 20 mm
Width: 10 mm to full width

Finished: Hot Rolled (No. 1)
Colled Rolled (2B/2D/BA/
No.4/No.8/MAT/MAT-PVC)



PIPES & TUBES

Pipe Range

1/8" NB x 30" NB in Schedule 5S, 10S,
10, 20, 40S, 40, STD, 60, 80S, 80, XS, 100, 120, 140, 160 & XXS

Tube Range

2 mm OD up to 600 mm OD
OD in 0.6 to 20 mm Thick.

Form

1. ERW (welded) Round/Square/rectangle
2. Semi Welded - Round/Square/Rectangle
3. Seamless - Indian/imported

- We also forged & fabricate on request



Estd. 1991

FASTENERS

Range & form (Fasteners)

Bolts

Hex Head Bolts, Hexagon Head Screw, studs
Mushroom Head Square Neck Bolts, T- Head Bolts,
Wing Screw, Eye Bolt, Lifting Eye Bolt, Countersunk Raised Head Bolts.

Nuts

Hexagon Nuts, Hexagon Coupling Nuts, Hexagon Thin Nut, Square Nut, Hexagon
Castle Nuts, Self Locking Nut, Hexagon Domed Cap Nuts.

Washer

Plain Washer, Plain Big OD Washer, Plain Small OD
Washer, Spring Lock Washer, Spring Washer Heavy
Duty, Tooth Washer, Serrated Star Washer, Tab
Washer with One Tab, Tab Washer with Two Tab.



ROUND BARS

Range

1.00 mm to 350 mm Diameter

Form

Export Bright, polish bright/Black/Forged in Round, Square, Hex & Wire.

Tolerance

h8, h9, h10, h11, k12, DIN1013, A484, GRIT 240 & 320

Forging

Shafts, Pistons, Studs, Precision Components, Nut, Bolts, Washers, Turned Components



WEIGHT OF RODS IN KILOGRAMS PER LINER FOOT

SIZE			STAINLESS STEEL/ALLOY STEEL			BRASS			ALUMINIUM		
INCH	FRACTION OF INCH	MM	ROUND	HEX	SQ.	ROUND	HEX	SQ.	ROUND	HEX	SQ.
1/8"	0.125	3.173	-	-	-	0.020	0.023	0.026	-	-	-
3/16"	0.187	4.762	0.043	0.047	0.054	0.046	0.051	0.059	0.015	0.017	0.020
1/4"	0.250	6.350	0.076	0.084	0.097	0.082	0.091	0.104	0.030	0.035	0.037
5/16"	0.312	7.937	0.119	0.132	0.151	0.129	0.142	0.164	0.042	0.047	0.054
3/8"	0.375	9.52	0.171	0.188	0.218	0.185	0.224	0.235	0.061	0.068	0.078
7/16"	0.437	11.112	0.233	0.257	0.296	0.252	0.278	0.321	0.083	0.092	0.106
1/2"	0.500	12.700	0.305	0.336	0.386	0.329	0.363	0.419	0.109	0.120	0.138
9/16"	0.562	14.287	0.384	0.424	0.490	0.416	0.461	0.529	0.138	0.152	0.175
5/8"	0.625	15.875	0.473	0.520	0.604	0.516	0.566	0.652	0.170	0.188	0.217
11/16"	0.687	17.462	0.87	0.647	0.760	0.621	0.684	0.789	0.206	0.227	0.262
3/4"	0.750	19.050	0.687	0.736	0.870	0.739	0.817	0.940	0.245	0.270	0.312
13/16"	0.812	20.637	0.800	0.882	1.021	0.867	0.958	1.104	0.287	0.317	0.366
7/8"	0.875	22.225	0.931	1.038	1.184	1.008	1.109	1.282	0.333	0.368	0.424
15/16"	0.937	23.812	1.067	1.176	1.359	1.154	1.273	1.474	0.383	0.422	0.486
1"	1.00	25.400	1.223	1.350	1.546	1.314	1.451	1.675	0.436	0.481	0.555
1.1/8"	1.125	28.575	1.569	1.730	1.950	1.665	0.834	2.122	0.553	0.608	0.705
1.1/4"	1.250	31.750	1.888	2.080	2.415	2.053	2.268	2.619	0.680	0.748	0.867
1.3/8"	1.375	34.925	2.760	3.042	3.478	2.487	2.742	3.167	0.980	1.082	1.248
1.1/2'	1.500	38.100	2.318	2.554	2.922	2.961	3.262	3.167	0.821	0.907	1.082
1.5/8"	1.625	41.275	3.205	3.540	4.072	3.742	3.833	4.426	1.152	1.272	1.466
1.3/4"	1.750	44.450	3.738	4.120	4.756	4.029	4.444	5.129	1.352	1.474	1.720
1.7/8"	1.875	47.625	4.300	4.740	5.475	4.627	5.101	5.890	1.529	1.692	1.942
2"	2.000	50.800	4.905	5.415	6.224	5.266	5.804	6.703	1.742	1.919	2.220
2.1/4"	2.250	57.150	6.210	6.850	7.910	6.662	7.346	8.482	2.204	2.433	2.802
2.1/2"	2.500	63.500	7.614	8.400	9.700	8.225	9.067	10.472	2.722	3.005	3.462
2.3/4"	2.750	69.850	9.282	10.20	11.820	10.199	11.225	12.955	3.003	3.315	3.820
3"	3.000	76.200	10.996	12.210	14.000	12.454	13.267	15.341	3.919	4.327	4.990
3.1/2"	3.500	88.900	14.946	16.500	19.020	16.364	18.040	20.824	5.408	5.970	6.884
4"	4.000	101.600	19.619	21.620	25.000	21.477	23.210	27.358	6.968	7.693	8.870



BUTT WELD & FORGED PIPE FITTINGS

Range (Butt Weld)

1/8" NB x 30" NB in Schedule 5S, 10S, 10, 20, 40S, 40, STD, 60, 80S, 80, XS, 100, 120, 140, 160 & XXS.

Range (Forged)

1/8" NB x 30" NB in 2000 LBS, 3000 LBS, 6000 LBS & 9000 LBS, 150 LBS, 250 LBS.

Form (Butt Weld)

Seamless & Welded Long Radius & Short Radius Elbow 90 deg, Long Radius Elbow 45 deg, Long Radius & Short Radius Elbow 180 deg (Return Bend), Reducing Elbow, Equal Tee, Unequal Tee, Crosses, Concentric Reducer, Eccentric Reducer, Long Stubend, Short Stubend, Collar, Pipe Cap, Long Radius Bends R = 3D, 5D, 6D, 8D, 10D & 20D in 15 deg, 30 deg, 60 deg & 90 deg and Drawing based Butt Weld Fittings (Customized).

Form (Forged)

Socket Weld Fittings: Elbow 90 deg, Elbow 45 deg, Cross, Tee, Coupling, Half Coupling & Cap.



FLANGES

Range

15 NB upto 600 NB in 150 LBS, 300 LBS, 400 LBS, 600 LBS, 900 LBS, 1500 LBS, 2500 LBS / Table 2.5, Table 6, Table 10, Table 16, Table 25, Table 40, Table 64, Table 160, Table 320, Table 400

Form

Slip On, Socket Weld, Blind, Lapped, Screwed, Weld Neck, Reducing, Spectacle, Slip On Boss, Plate, Plate Blank, Screwed Boss.





STAINLESS STEEL WELDING ELECTRODES & FILLER WIRES

Grade

ER 202, 304, 304L, 308L, 309L, 310, 310S, 316L, 317, 321 347.

Thickness & Size

0.80, 1.00, 1.20 1.60, 2.00, 2.50, 3.15, 4.00, 5.00 mm.

In Coil form and Interlink stick, spools



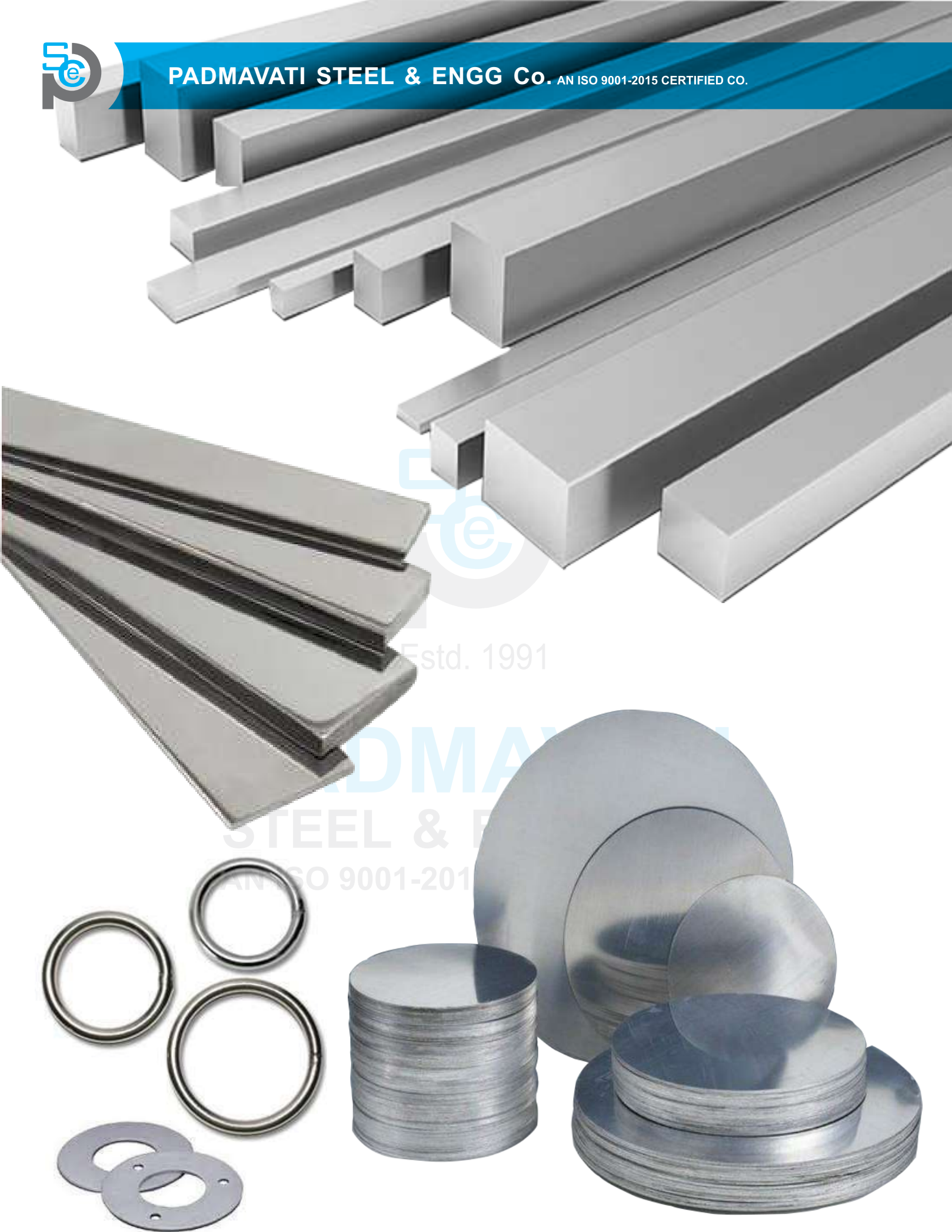
MIG Wires

TIG Wires



Authorised Distributor





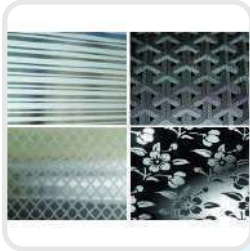
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Designing Sheet

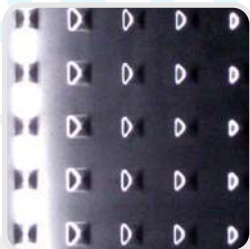
No.8 Super Mirror



3D-Arts



Chequered & Embossing



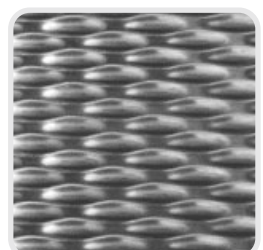
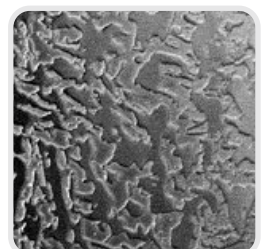
Hairline



Perforation



Textured





SPECIFICATIONS

CHEMICAL COMPOSITION

	Designation/Grade	%C (Max)	%Mn (Max)	%P (Max)	%S (Max)	%Si (Max)	%Cr	%Ni
Austenitic Cr-Mn	201#	0.15	5.5-7.5	0.060	0.030	1.00	16.00-18.00	3.50-5.50
	201L	0.030	5.5-7.5	0.045	0.030	0.75	16.00-18.00	3.50-5.50
	201LN	0.030	6.4-7.5	0.045	0.015	0.75	16.00-17.50	4.00-5.00
	202	0.15	7.5-10.0	0.060	0.030	1.00	17.00-19.00	4.00-6.00
	204CS	0.10	6.5-9.0	0.060	0.010	0.75	16.00-17.50	1.50-3.50
	JSLAUS(J1)	0.08	6.0-8.0	0.070	0.010	0.75	16.00-18.00	4.00-6.00
	J-4	0.10	8.50-10.0	0.080	0.010	0.75	15.00-16.00	1.00-2.00
Austenitic Cr-Ni	301	0.15	2.00	0.045	0.030	1.00	16.00-18.00	6.00-8.00
	301L	0.030	2.00	0.045	0.030	1.00	16.00-18.00	6.00-8.00
	301LN	0.030	2.00	0.045	0.030	1.00	16.00-18.00	6.00-8.00
	304	0.07	2.00	0.045	0.030	0.75	17.50-19.50	8.00-10.50
	304M	0.04-0.10	2.00	0.045	0.030	0.75	18.00-20.00	8.00-10.50
	304L	0.030	2.00	0.045	0.030	0.75	17.50-19.50	8.00-12.00
	304LN	0.030	2.00	0.045	0.030	0.75	18.00-20.00	8.00-12.00
	309	0.20	2.00	0.045	0.030	0.75	22.00-24.00	12.00-15.00
	3095	0.08	2.00	0.045	0.030	0.75	22.00-24.00	12.00-15.00
	310	0.25	2.00	0.045	0.030	1.50	24.00-26.00	19.00-22.00
	310S	0.08	2.00	0.045	0.030	1.50	24.00-26.00	19.00-22.00
	316	0.08	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00
	316L	0.030	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00
	316LN	0.030	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00
	316Ti	0.08	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00
	317	0.08	2.00	0.045	0.030	0.75	18.00-20.00	11.00-15.00
	317L	0.030	2.00	0.045	0.030	0.75	18.00-20.00	11.00-15.00
	317LN	0.030	2.00	0.045	0.030	0.75	18.00-20.00	11.00-15.00
	31727	0.030	1.00	0.030	0.030	1.00	17.50-19.00	14.50-16.50
	321	0.08	2.00	0.045	0.030	0.75	17.00-19.00	9.00-12.00
347	0.08	2.00	0.045	0.030	0.75	17.00-19.00	9.00-13.00	
Martensitic	410	0.08-0.15	1.00	0.040	0.030	1.00	11.50-13.50	0.75max
	415	0.05	0.50-1.00	0.030	0.030	0.60	11.50-14.00	3.50-5.50
	420	0.15 min	1.00	0.040	0.030	1.00	12.00-14.00	0.75max
	431	0.20	1.00	0.040	0.030	1.00	15.00-17.00	1.25-2.50
	JBS	0.6-0.7	1.00	0.030	0.015	0.75	12.50-13.50	-
Ferritic	405	0.08	1.00	0.040	0.030	1.00	11.50-14.50	0.60
	409	0.030	1.00	0.040	0.020	1.00	10.50-11.70	0.50 max
	409L	0.030	1.00	0.040	0.030	1.00	10.50-11.70	0.50 max
	410S	0.08	1.00	0.040	0.030	1.00	11.50-13.50	0.60 max
	430	0.12	1.00	0.040	0.030	1.00	16.00-18.00	0.75 max
	430Ti	0.030	1.00	0.040	0.030	1.00	16.00-19.00	-
	436	0.120	1.00	0.040	0.030	1.00	16.00-18.00	-
	4367	0.025	1.00	0.040	0.030	1.00	16.00-19.00	-
	439	0.030	1.00	0.040	0.030	1.00	17.00-19.00	0.50 max
	441	0.030	1.00	0.040	0.015	1.00	17.50-18.50	-
Ferritic + Martensitic								
	409M	0.030	0.8-1.5	0.030	0.030	1.00	10.80-12.50	1.50 max
Duplex (Austenitic + Ferritic)								
	2205	0.030	2.00	0.030	0.020	1.00	22.00-23.00	4.50-6.50
	2304	0.030	2.50	0.040	0.030	1.00	21.50-24.50	3.00-5.50
	31803	0.030	2.00	0.030	0.020	1.00	21.00-23.00	4.50-6.50





			CHEMICAL COMPOSITION			
%Mo	N PPM (Max)	%OTHERS	Tensile Strength MPa (min)	Yield strength MPa (min)	%Elongation (min)	Headness Rockwell B (max)
-	2500	-	655	310	40	100
-	2500	-	655	260	40	95
-	1000-2500	Cu = 1.0 Max	655	310	45	100
-	2500	-	620	260	40	100
-	1000-2000	Cu = 2.0-4.0	620	310	40	100
-	1000	Cu = 1.5-2.0	550	205	40	95
-	2000	Cu = 1.5-2.0	650	325	40	100
-	1000	-	515	205	40	95
-	2000	-	550	220	45	100
-	700-2000	-	550	240	45	100
-	1000	-	515	205	40	92
-	-	-	515	205	40	92
-	1000	-	485	170	40	92
-	1000-1600	-	515	205	40	95
-	-	-	515	205	40	95
-	-	-	515	205	40	95
-	-	-	515	205	40	95
-	-	-	515	205	40	95
2.00-3.00	1000	-	515	205	40	95
2.00-3.00	1000	-	485	170	40	95
2.00-3.00	1000-1600	-	515	205	40	95
2.00-3.00	1000	Ti=5X(C+N) Min., 0.70Max	515	205	35	95
3.00-4.00	1000	-	515	205	40	95
3.00-4.00	1000	-	515	205	40	95
3.00-4.00	1000-2200	-	550	240	35	95
3.80-4.50	1500-2100	Cu=2.8-4.0	550	245	40	96
-	1000	Ti=5X(C+N)Min., 0.70Max	515	205	40	95
-	-	Nb= 10XCMin., 1.00 Max.	515	205	20	92
-	-	-	450	205	15	96
0.50-1.00	-	-	795	620	15	32rc
0.50 max	-	-	690	-	-	96
-	-	-	-	-	-	29rc
-	-	-	-	-	20	-
-	-	Al = 0.10-0.30	415	170	20	88
-	-	Ti = 6X(C+N)Min., 0.5Max.	380	170	20	88
-	300	Ti = 6X(C+N)Min., 0.75Max.	380	170	22	88
-	-	-	415	205	22	89
-	-	-	450	205	22	89
-	-	Ti = 0.10-1.00	360	175	22	90
0.75-1.25	-	Nb = 5XC Min., 0.70Max.	450	240	20	89
0.75-1.25	250	%Nb or & Ti or %combination = 8X(C+N) Min., 0.80 Max.	410	245	22	96
-	300	Ti = 0.20+4X(C+N) Min., 1.10 Max. Al=0.5 Max	415	205	18	89
-	-	Nb = 3XC+0.3Min. 1% Max., T1=0.1-06%	430	250	-	88
-	300	Ti= 0.75Max	450	275	20	90
3.0-3.50	1400-2000	-	655	450	25	31rc
0.05-0.60	500-2000	Cu 0.05 Min.-0.60Max	600	400	25	32rc
2.50-3.50	800-2000	-	620	450	25	31rc





EQUIVALENT INTERNATIONAL STAINLESS STEEL GRADES

	JSL Designation/ Grade	UNS Designation	USA - Canada / AISI - ASTM - ASME	INDIA/IS Letter Symbol	European	Chinese	GERMANY/DIN Designation	Japan/JIS	GOST
Austenitic Cr-Mn	201	20100	201	X10Cr17Mn6Ni4N20	-	-	X12CrMnNiN17-7-5	SUS201	-
	201L	20103	201L	-	1.4371	-	X2CrMnNiN17-7-5	-	-
	201LN	20153	201LN	-	-	-	-	-	-
	202	20200	202	X10Cr18Mn9Ni5	-	-	X12CrMnNiN18-9-5	SUS202	-
	204Cu	20430	-	-	-	-	-	-	-
	JSLAUS(J1)	-	-	-	-	-	-	-	-
Austenitic Cr-Ni	301	30100	301	X10Cr17Ni7	1.4310	1Cr17Ni7	X12CrNi17-7	SUS301	-
	301L	30103	301L	-	-	-	-	-	-
	301LN	30153	301LN	-	1.4318	-	X2CrNi18-7	-	-
	304	30400	304	X04Cr19Ni9	1.4301	0Cr18Ni9	X5CrNi18-10	SUS304	-
	304H	30409	304H	-	-	-	-	-	-
	304L	30403	304L	-	1.4307	-	X2CrNi18-9	SUS304L	-
	304LN	30453	304LN	-	1.4311	-	X2CrNi18-10	SUS304LN	-
	309	30900	309	X15Cr24Ni13	1.4828	-	-	-	-
	309S	30908	309S	-	1.4833	1Cr23Ni13	X7CrNi23-14	SUS309S	-
	310	31000	310	X20Cr25Ni20	-	-	X15CrNi25-20	SUH310	20Ch25N20S2
	310S	31008	310S	-	1.4845	0Cr25Ni20	X12CrNi25-21	SUS310S	20Ch23N18
	316	31600	316	X04Cr17Ni12Mo2	1.4401	0Cr17Ni12Mo2	X5CrNiMo17-12-2	SUS316	-
	316L	31603	316L	X02Cr17Ni12Mo2	1.4404	00Cr17Ni14Mo2	X2CrNiMo17-13-2	SUS316L	-
	316LN	31653	316LN	-	1.4429	-	X2CrNiMoN17-11-2	SUS316LN	-
	316Ti	31635	316Ti	X04Cr17Ni12Mo2Ti	1.4571	0Cr18Ni12Mo2Ti	X6CrNiMoTi17-12-2	SUS316Ti	10Ch17N13M2T
	317	31700	317	-	-	-	-	-	-
	317L	31703	317L	-	1.4438	00Cr19Ni13Mo3	X2CrNiMo18154	SUS317L	-
	317LN	31753	317LN	-	-	-	-	-	-
	J31727	31727	-	-	-	-	-	-	-
321	32100	321	X04Cr18Ni10Ti	1.4541	0Cr18Ni10Ti	X6CrNiTi18-10	SUS321	08Ch18N10T	
347	34700	347	X04Cr18Ni10Nb	1.4550	0Cr18Ni11Nb	X6CrNiNb18-10	SUS347	08Ch18N12B	
Martensitic	410	41000	410	X12Cr12	1.4006	1Cr12	X12Cr13	SUS410	-
	415	41500	-	-	1.4313	-	X3CrNiMo13-4	-	-
	420	42000	420	X12Cr13	1.4021	-	X20Cr13	SUS420J1	-
	431	43100	431	-	1.4057	1Cr17Ni2	X17CrNi15-2	-	20Ch17N2
	JBS	-	-	-	-	-	-	-	-
Ferritic	405	40500	405	X04Cr12	1.4002	0Cr17Ni2	X6CrAl13	SUS405	-
	409	40900	409	-	1.4512	-	X2CrTi12	SUH409	-
	409RC	-	-	-	-	-	-	-	-
	410S	41008	410S	-	1.4000	0Cr13	X6Cr-13	SUS403	-
	430	43000	430	X07Cr17	1.4016	1Cr17	X6Cr17	SUS430	-
	430Ti	-	-	-	-	-	X3CrTi17	SUS430LX	-
	436	43600	436	-	-	-	-	-	-
	436L	43932	436L	-	-	-	-	SUS436L	-
	439	43035	439	-	-	00Cr18Ti	X3CrTi17	-	-
	441	43940	-	-	1.4509	-	X2CrTiNb18	-	-
Ferritic + Martensitic									
	409M	-	-	-	-	-	-	-	-
Duplex (Austenitic + Ferritic)									
	2205	32205	2205	-	-	-	-	-	-
	31803	31803	-	-	1.4462	-	X2CrNiMoN 22-5-3	SUS329J3L	-
	2304	32304	2304	-	1.4362	-	X2CrN N 23-4	-	-



FEATURES OF STAINLESS STEEL

- Corrosion Resistance
- Hygiene
- Strength-to-Weight Advantage
- Lower Total Life Cycle Cost

- Fire and Heat Resistance
- Aesthetic Appearance
- Impact Resistance
- 100% Recyclable

Equivalent Table for Various Specifications

USA AISI NO	GERMANY DIN	INDIA IS	BRITAIN BS	JAPAN JIS	SWEDEN SIS	FRANCE AFNOR	ITALY UNI	CHINA GB	USN DESIGNATION
303	1.4305	X10Cr18Ni9S	303S31	SUS303	-	Z10CNF18.09	X10CrNiS18 09	-	S30300
304	1.4301	X04Cr19Ni9	304S15	SUS304	14 23 33	Z6CN18.09	X5CrNi18 10	0Cr19Ni9	S30400
304 L	1.4306	X02Cr19Ni10	304S11	SUS304L	14 23 52	Z2CN18.10	X2CrNi18 11	00Cr19Ni11	S30403
310	1.4845	X20Cr25Ni20	310S24	SUS310S	14 23 61	Z12CN25.20	X22CrNi25 20	0Cr25Ni20	S31008
316	1.4401	X04Cr17Ni12Mo2	316S31	SUS316	14 23 47	Z6CND17.11	X8CrNiMo17 13	0Cr17Ni12Mo2	S31600
316 L	1.4404	X02Cr17Ni12Mo2	316S11	SUS316L	14 23 48	Z2CND17.12	X2CrNiMo17 12	00Cr17Ni14Mo2	S31603
321	1.4541	X04Cr18Ni10Ti	321S31	SUS321	14 23 37	Z6CNT18.12	X6CrNiTi18 11	0Cr18Ni9Ti	S32100

Chemical Composition of Nickel Alloys Chemical Analysis

Grades Name	Ni min	Co max	Cr	Mo	W	Fe max	Si max	Mn max	C max	Cu max	Al max	Ti max	S max	P max
Nickel 200	99.0	-	-	-	-	0.4	0.35	0.35	0.01	0.25	-	-	0.01	-
Nickel 201	99.0	-	-	-	-	0.4	0.35	0.35	0.02	0.25	-	-	0.01	-
Monel 400	63.0	-	-	-	-	2.5	0.5	2.0	0.30	28-34	-	-	0.024	-
Monel K500	63.0	-	-	-	-	2.0	0.5	1.5	0.25	27-33	2.3-3.2	0.4-0.9	0.01	-
Inconel 600	72.0	-	14-17	-	-	6-10	0.5	1.0	0.15	0.5	-	-	0.015	-
Inconel 601	58-63	-	21-25	-	-	Rest	0.5	1.0	0.10	1.0	1.0-1.7	-	0.015	-
Inconel 625 ¹	58.0	1.0	20-23	8-10	-	5.0	0.5	0.5	0.10	-	0.4	0.4	0.015	0.015
Incolloy 800	30-35	-	19-23.5	-	-	Rest	1.0	1.5	0.10	0.75	0.15-0.6	0.15-0.6	0.015	-
Incolloy 800H	30-35	-	19-23.5	-	-	Rest	1.0	1.5	0.05-0.1	0.75	0.15-0.6	0.15-0.6	0.015	-
Incolloy 825	38-46	-	19-23.5	2.5-3.5	-	Rest	0.5	1.0	0.05	1.5-3	0.2	0.5-1.2	0.03	-
Hastalloy B-2	Rest	1.0	1.0	26-30	-	2.0	0.10	1.0	0.02	-	-	-	0.03	0.04
Hastalloy C276	Rest	2.5	14-16.5	15-17	3-4.5	4-7	0.08	1.0	0.01	-	-	-	0.03	0.04
Hastalloy C-4	Rest	2.0	14-18	14-17	-	3.0	0.08	1.0	0.015	-	-	0.7	0.03	0.04
Hastalloy G3 ³	Rest	5.0	21-23.5	6-8	1.5	18-21	1.0	1.0	0.015	1.5-2.5	-	-	0.03	-
Incolloy DS	34.5-41	17-19	-	-	-	Rest	1.9-2.6	0.8-1.5	0.1	0.5	-	0.2	0.03	-
Alloy 20 ⁴	32-38	-	19-21	2-3	-	Rest	1.0	2.0	0.07	3-4	-	-	0.035	0.045

¹Nb/ Ta 3.15-4.15

²V 0.35

³Nb/Ta 0.5 max., Mb 6.8, Ph 0.04

⁴Cb&Ta8xc min. 1.0 max



DIMENSION OF PIPES & TUBE

Size of Pipes & Tubes		DIMENSION ANSI B 36-10										DIMENSION ANSI B 36-10																			
		Nominal Thickness and Weight																													
		Number of Schedule																													
in	mm	5S		10S		10		20		30		40		60		80		100		120		140		160		Standard		Extra Strong		Double Extra Strong	
		Kg/m	mm	Kg/m	mm	Kg/m	mm	Kg/m	mm	Kg/m	mm	Kg/m	mm	Kg/m	mm	Kg/m	mm	Kg/m	mm	Kg/m	mm	Kg/m	mm	Kg/m	mm	Kg/m	mm	Kg/m	mm	Kg/m	mm
18"	10.3	-	1.28	0.28	-	1.73	0.36	-	2.41	0.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.73	0.36	2.41	0.46	-	-
14"	13.7	-	1.65	0.49	-	2.24	0.63	-	3.02	0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.24	0.63	3.02	0.80	-	-
38"	17.1	-	1.65	0.63	-	2.31	0.85	-	3.20	1.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.31	0.85	3.20	1.10	-	-
12"	21.3	0.81	2.11	1.00	-	2.77	1.26	-	3.73	1.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.77	1.26	3.73	1.62	7.47	2.54
3/4"	26.7	1.03	2.11	1.28	-	2.87	1.68	-	4.55	2.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.87	1.68	3.91	2.91	7.82	3.63
1"	33.4	1.65	2.77	2.08	-	3.38	2.5	-	5.43	3.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.38	2.50	4.55	3.23	9.09	5.45
1 1/4"	42.2	1.65	2.77	2.69	-	3.56	3.38	-	4.85	4.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.56	3.38	4.85	4.46	9.70	7.75
1 1/2"	48.3	1.65	2.77	3.12	-	3.68	4.05	-	5.08	5.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.68	4.05	5.40	5.40	10.16	9.54
2"	60.3	2.11	3.70	3.94	-	3.91	5.43	-	7.47	7.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.91	5.43	7.47	7.47	11.07	13.44
2 1/2"	73.0	2.11	3.70	5.26	-	5.16	8.62	-	11.40	11.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.16	8.62	11.40	11.40	14.02	20.29
3"	88.9	2.11	4.50	6.45	-	5.49	11.29	-	15.25	15.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.49	11.28	15.25	15.25	15.24	27.65
3 1/2"	101.6	2.11	5.20	7.40	-	5.74	13.56	-	18.62	18.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.74	13.56	18.62	18.62	-	-
4"	114.3	2.11	5.81	8.34	-	6.02	16.06	-	22.29	22.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.02	16.06	22.29	22.29	17.12	40.99
5"	141.3	2.77	9.45	11.56	-	6.55	21.76	-	30.92	30.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.55	21.76	30.92	30.92	19.05	57.37
6"	168.3	2.77	11.31	13.82	-	7.11	28.23	-	42.52	42.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.11	28.23	42.52	42.52	2.95	79.11
8"	219.1	2.77	14.78	19.94	-	8.18	42.49	-	64.97	64.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.18	42.49	64.97	64.97	22.22	107.78
10"	273.0	3.40	22.62	27.83	-	9.27	60.24	-	86.26	86.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.27	60.24	86.26	86.26	25.40	154.97
12"	323.9	3.96	33.00	36.00	-	10.31	79.71	-	108.97	108.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.31	79.71	108.97	108.97	28.40	186.75
14"	355.6	3.96	34.23	41.18	-	11.13	94.31	-	126.51	126.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.13	94.31	126.51	126.51	31.40	214.97
16"	409.4	4.19	41.60	47.33	-	12.70	123.18	-	166.64	166.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.70	123.18	166.64	166.64	34.40	243.44
18"	457.2	4.19	46.83	53.18	-	14.27	155.90	-	205.62	205.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.27	155.90	205.62	205.62	37.40	272.91
20"	508.0	4.78	59.22	68.50	-	15.09	183.14	-	247.79	247.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.09	183.14	247.79	247.79	40.40	301.88
22"	558.8	4.78	63.75	73.81	-	17.48	209.54	-	293.80	293.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.48	209.54	293.80	293.80	43.40	331.35
24"	609.6	5.54	82.60	94.37	-	20.95	254.74	-	354.62	354.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.95	254.74	354.62	354.62	46.40	360.82
26"	660.4	-	-	-	-	22.85	271.94	-	342.17	342.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.85	271.94	342.17	342.17	49.40	390.29
28"	711.2	-	-	-	-	25.84	301.88	-	384.01	384.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.84	301.88	384.01	384.01	52.40	419.76
30"	762.0	-	-	-	-	28.83	331.35	-	426.21	426.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.83	331.35	426.21	426.21	55.40	449.23
32"	812.8	-	-	-	-	31.82	360.82	-	468.46	468.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31.82	360.82	468.46	468.46	58.40	478.70
34"	863.6	-	-	-	-	34.81	390.29	-	510.66	510.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34.81	390.29	510.66	510.66	61.40	508.17
36"	914.4	-	-	-	-	37.80	420.21	-	552.86	552.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37.80	420.21	552.86	552.86	64.40	537.64

N.B.: Thickness and weights "Extra strong" & "double extra strong" within swell edges have a correspondent value in "Schedule" for different thickness that suitable the weights can proceeds by following formula 24.66 (d.t)

COPPER & BRASS

Since our establishment way back in the year 1985, we Padmavati Steel & Engg. Co. one of the leading importers, stockiest & suppliers of electrolytic & copper in the form of strips, wires, flats, rods, section, pipes & tubes. Our product range includes bus bar (heavy type), flexible bus bar - type I, strips, rods & pipes, copper wire, bus bars & flats, flexible connectors, bus bar assemblies, flat copper wire, winding strips & wires of copper, forged copper clamp and flexible bus bar - type II.

Products

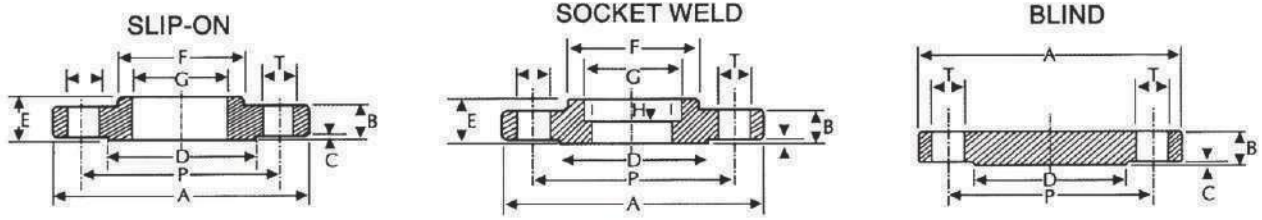
- Copper Bars • Copper Rods • Copper Tape and Foils • Copper Pipes & Tubes
- Flexible Copper Products • Other Copper Products • Brass Bars • Brass Rods

All the above products are supplied in copper nickel alloy, Brass Alloys & other copper alloys.

Copper and Copper-Base Alloys													
Composition, %													
UNS Designation Number	Alloy	General Name	Aluminum	Copper, min	Iron, max	Manganese, max	Phosphorus	Silicon	Zinc, max	Lead, max	Tin	Arsenic, max	Nickel, max
C11000	110	ETP copper	-	99.9	-	-	-	-	-	-	-	-	-
C26000	260	brass	-	68.5-71.5	0.05	-	-	-	balance	0.07	-	-	-
C27000	270	brass	-	63.0-68.5	0.07	-	-	-	balance	0.1	-	-	-
C46200	462	naval brass	-	62.0-65.0	0.1	-	-	-	balance	0.2	0.5-1	-	-
C46400	464	naval brass	-	59.0-62.0	0.1	-	-	-	balance	0.2	0.5-2	-	-
C51000	510	phosphor bronze	-	balance	0.1	-	0.03-0.35	-	0.3	0.05	4.2-5.8	-	-
C61300	613	aluminum bronze	6.0-7.5	B	2.0-3.0	0.1	0.015	0.1	0.05	0.01	0.2-0.5	-	0.15
C61400	614	aluminum bronze	6.0-8.0	88.0D	1.5-3.5	1	-	-	-	-	-	-	-
C63000	630	aluminum bronze	9.0-11.0	78.0D	20-4.0	1.5	-	0.25	-	-	0.2	-	4-5.5
C64200	642	aluminum silicon bronze	6.3-7.6	88.65D	0.3	0.1	-	1.5-2.2	0.5	0.05	0.2	0.15	0.25
C65100	651	silicon bronze	-	96.0D	0.8	0.7	-	0.8-2	1.5	0.05	-	-	-
C65500	655	silicon bronze	-	94.8D	0.8	1.5	-	2.8-3.8	1.5	0.05	-	-	0.6
C66100	661	silicon bronze	0.25 max.	94.0D	0.25	1.5	-	2.8-3.5	1.5	0.2-0.8	-	-	-
C67500	675	manganese bronze	-	57.0-60.0	0.8-2.0	0.05-0.5	-	-	balance	0.2	0.5-1.5	-	-
C71000	710	cupro-nickel	-	74.0D	0.6	1	-	-	1	0.05	-	-	19-23
C71500	715	cupro-nickel	-	65.0D	0.4-0.7	1	-	-	1	0.05	-	-	29-33



DIMENSIONS OF ALL CLASS 150, 300, 600, 1500 FLANGES AS ANSI B - 16.5



N.B.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	T	No. of Holes
15	89	11.1	1.6	35	16	30	22.4	9.5	21.3	-	48	16	16	23.0	60.3	3.0	159	4
20	98	12.7	1.6	43	16	38	27.7	11.0	26.7	-	52	16	16	28.0	69.8	3.0	159	4
25	108	14.3	1.6	51	17	49	34.5	12.5	33.4	-	56	17	17	35.0	79.4	3.0	159	4
32	117	15.9	1.6	64	21	59	43.2	14.5	42.2	-	57	21	21	43.5	88.9	5.0	159	4
40	127	17.5	1.6	73	22	65	49.5	16.0	48.3	-	62	22	22	50.0	98.4	6.5	159	4
50	152	19.0	1.8	92	25	78	62.0	17.5	60.3	-	64	25	25	62.5	120.6	8.0	190	4
65	178	22.2	1.6	105	29	90	74.7	19.0	73.0	-	70	29	29	75.5	139.7	8.0	190	4
80	190	23.8	1.6	127	30	108	90.7	20.5	88.9	-	70	30	30	91.5	152.4	9.5	190	8
90	216	23.8	1.6	140	32	122	103.4	-	101.6	-	71	32	32	104.0	177.8	9.5	190	8
100	229	23.8	1.6	157	33	135	118.1	-	114.3	-	76	33	33	117.0	190.5	11.0	190	8
125	254	23.8	1.6	186	37	164	143.8	-	141.3	-	89	37	37	145.0	215.9	11.0	222	8
150	279	25.4	1.6	216	40	192	170.7	-	168.3	-	89	40	40	171.0	241.3	12.5	222	8
200	343	28.6	1.6	270	44	246	221.5	-	219.1	-	102	44	44	222.0	293.4	12.5	222	8
250	406	30.2	1.6	324	49	305	278.4	-	273.0	-	102	49	49	277.0	362.0	12.5	254	12
300	483	31.8	1.6	381	56	365	327.2	-	323.9	-	114	56	56	328.0	431.8	12.5	254	12
350	533	34.9	1.6	413	57	400	359.2	-	355.6	-	127	57	79	360.0	476.2	12.5	286	12
400	597	36.5	1.6	470	64	457	410.5	-	408.4	-	127	64	87	411.0	539.8	12.5	286	16
450	635	39.7	1.6	533	68	505	461.8	-	457.2	-	140	68	97	462.0	577.8	12.5	318	16
500	698	42.9	1.6	584	73	559	513.1	-	508.0	-	144	73	103	514.0	635.0	12.5	318	20
600	813	47.6	1.6	692	83	664	616.0	-	609.6	-	152	83	111	616.0	749.3	12.5	349	20

DIMENSIONS OF CLASS 300 FLANGES AS ANSI B - 16.5

N.B.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	T	No. of Holes
15	95	14.3	1.6	35	22	38	22.4	9.5	21.3	23.5	52	16	22	23.0	66.7	3.0	159	4
20	117	15.9	1.6	43	25	48	27.7	11.0	26.7	29.0	57	16	25	28.0	82.6	3.0	190	4
25	124	17.5	1.6	51	27	54	34.5	12.5	33.4	36.0	62	17	27	35.0	88.9	3.0	190	4
32	133	19.0	1.6	64	27	64	43.2	14.5	42.2	44.5	65	21	27	43.5	98.4	5.0	190	4
40	156	20.6	1.6	73	30	70	49.5	16.0	48.3	50.5	68	22	30	50.0	114.3	6.5	222	4
50	165	22.2	1.6	92	33	84	62.0	17.5	60.3	63.5	70	29	33	62.5	127.0	8.0	190	8
65	190	25.4	1.6	105	38	100	74.7	19.0	73.0	76.0	76	32	38	75.5	149.2	8.0	222	8
80	210	28.6	1.6	127	43	117	90.7	20.5	88.9	92.0	79	32	43	91.5	168.3	9.5	222	8
90	229	30.2	1.6	140	44	133	103.4	-	101.6	105.0	81	37	44	104.0	184.2	9.5	222	8
100	254	31.8	1.6	157	48	146	116.1	-	114.3	118.0	86	37	48	117.0	200.0	11.0	222	8
125	279	34.9	1.6	186	51	178	143.8	-	141.3	145.0	98	43	51	145.0	235.0	11.0	222	8
150	318	36.5	1.6	216	52	206	170.7	-	168.3	171.0	98	46	52	171.0	269.9	12.5	222	12
200	381	41.3	1.6	270	62	260	221.5	-	219.1	222.0	111	51	62	222.0	330.2	12.5	254	12
250	444	47.6	1.6	324	67	321	276.4	-	273.0	276.0	117	56	95	277.0	387.4	12.5	286	16
300	521	50.8	1.6	381	73	375	327.2	-	323.9	329.0	130	60	102	328.0	450.8	12.5	318	16
350	584	54.0	1.6	413	76	425	359.2	-	355.6	360.0	143	64	111	360.0	514.4	12.5	318	20
400	648	57.2	1.6	470	83	483	410.5	-	406.4	411.0	146	68	121	411.0	571.5	12.5	349	20
450	711	60.3	1.6	533	89	533	461.8	-	457.2	462.0	159	70	130	462.0	628.6	12.5	349	24
500	775	63.5	1.6	584	95	587	513.1	-	508.0	513.0	162	73	140	514.0	685.8	12.5	349	24
600	914	69.8	1.6	692	106	702	616.0	-	609.6	614.0	168	83	152	616.0	812.8	12.5	413	24

- 1) All dimensions are in Millimeters
- 2) Flanges except Lap Joint will be furnished with (1,6) Raised Face, which is included in "Thickness (C)" and "Length through Hub (Y)".

DIMENSION OF PIPE FLANGES AS PER TABLE BS- 10

Table E: For Working Steam Pressure 50 lbs upto 100 lbs per sq. inch

Nominal Pipe Size	Dia. of Flange	Dia. of Bolt Circle	No. of Bolt	Dia. of Bolt	Thickness
1/2"	95.3	66.7	4	12.7	6.4
3/4"	101.6	73.0	4	12.7	6.4
1"	114.3	82.6	4	12.7	7.1
1 1/4"	120.7	87.3	4	12.7	7.9
1 1/2"	133.4	98.4	4	12.7	8.7
2"	152.4	114.3	4	15.9	9.5
2 1/2"	165.1	127.0	4	15.9	10.3
3"	184.2	146.1	4	15.9	11.1
3 1/2"	203.2	165.1	8	15.9	11.9
4"	215.9	177.8	8	15.9	12.7
5"	254.0	209.6	8	15.9	14.3
6"	279.4	228.6	8	19.1	17.5
7"	304.8	260.4	8	19.1	19.1
8"	336.6	292.1	8	19.1	19.1
9"	368.3	323.9	12	19.1	20.6
10"	406.4	355.6	12	19.1	22.2
12"	457.2	406.4	12	22.2	25.4
14"	527.2	469.9	12	22.2	25.4
16"	577.9	520.7	12	22.2	25.4
18"	641.4	584.2	16	22.2	28.6
20"	704.9	647.4	16	22.2	31.8
24"	825.5	755.7	16	25.4	38.1

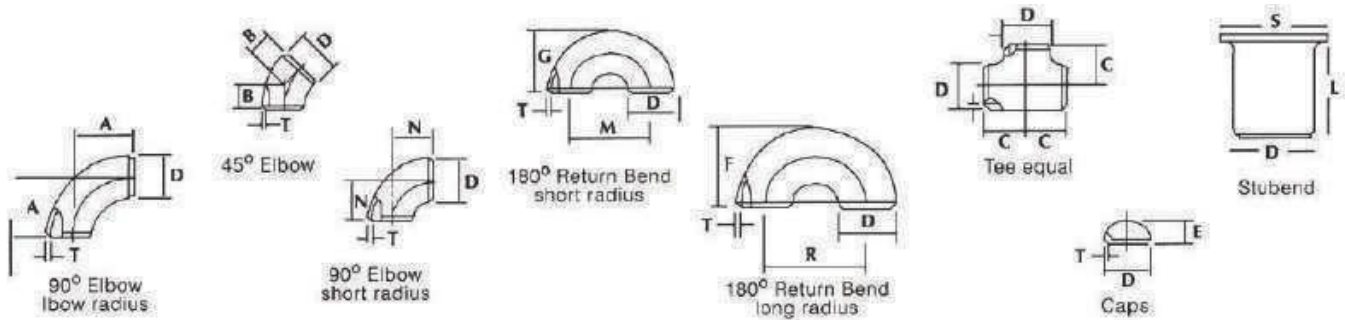
Table F: For Working Steam Pressure above 100 lbs and upto 150 lbs per sq. inch

Nominal Pipe Size	O.D. of Pipe	Dia of Flange	Dia of Bolt Circle	No. of Bolt	Dia. of Bolt	Thickness
1/2"	21.3	95.3	66.7	4	12.7	9.5
3/4"	26.7	101.6	73.0	4	12.7	9.5
1"	33.4	120.7	87.3	4	15.9	9.5
1 1/4"	42.2	133.4	98.4	4	15.9	12.7
1 1/2"	48.3	139.7	104.8	4	15.9	12.7
2"	60.3	165.1	127.0	4	15.9	15.9
2 1/2"	73.0	184.2	146.1	8	15.9	15.9
3"	88.9	203.2	165.1	8	15.9	15.9
3 1/2"	101.6	215.9	177.8	8	15.9	19.1
4"	114.3	228.6	190.5	8	15.9	19.1
5"	141.3	279.4	235.0	8	19.1	22.2
6"	168.3	304.8	260.4	12	19.1	22.2
7"	190.3	336.6	292.1	12	19.1	22.2
8"	219.1	368.3	323.9	12	19.1	25.4
9"	244.5	406.4	355.6	12	22.2	25.4
10"	273.0	431.8	381.0	12	22.2	25.4
12"	323.0	489.0	438.2	16	22.2	28.6
14"	355.6	552.5	495.3	16	25.4	31.8
16"	406.4	609.6	552.5	20	25.4	31.8
18"	457.2	673.1	609.6	20	28.6	34.9
20"	508.0	736.6	673.1	24	28.6	38.1
24"	609.6	850.9	781.1	24	31.8	41.3



BUTT WELDING PIPE FITTING DIMENSIONAL STANDARD

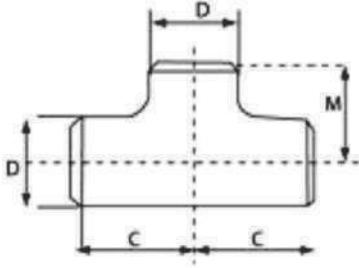
ANSI B-16.9 / 16.28 / MSS SP-43



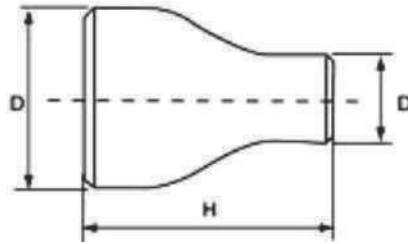
Nominal Pipe Size		Outside Diameter D	Center to Face				Back to Face			Center to Center			Length 'L'	
Inch.	mm		A	B	C	N	E	F	G	R	M	S	MSS SP43	ANSI B 16.9
1/2	15	21.3	38	16	25	-	25	48	-	76	-	34.9	50.8	76.2
3/4	20	26.7	29	11	29	-	25	43	-	57	-	42.8	50.8	76.2
1	25	33.4	38	22	38	25	38	56	41	76	51	50.8	50.8	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	50.8	101.6
2	50	60.3	76	35	64	51	38	106	81	152	102	92	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	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	101.6	203.2
10	250	273.1	381	159	216	254	127	518	391	762	508	324	127.0	254.0
12	300	323.9	467	190	254	305	152	619	467	914	610	381	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	152.4	305.0
18	450	457.2	686	286	343	457	203	914	686	1372	914	500.4	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
28	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							



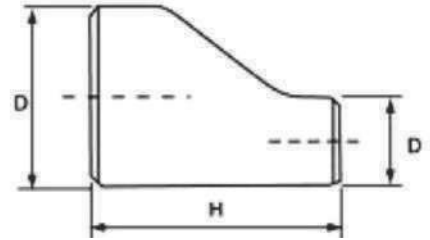
BUTT WELDING PIPE FITTING ANSI 16.9 / 16.28



REDUCING TEES



CONCENTRIC REDUCERS

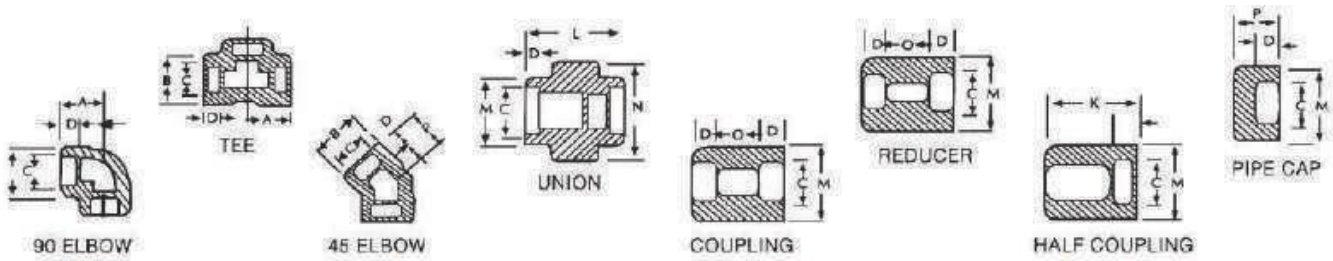


ECCENTRIC REDUCERS

Nominal Pipe Size		Outside Diameter		Center to End		Length
Inch.	mm	D	P	C	M	H
1 1/2 x 3/8	15 x 10	21.3	17.1	25	25	-
1/2 x 1/4	15 x 8	21.3	13.7	25	25	-
3/4 x 1/2	20 x 15	26.7	21.3	29	29	38
3/4 x 3/8	20 x 10	26.7	17.1	29	29	38
1 x 3/4	25 x 20	33.4	26.7	38	38	51
1 x 1/2	25 x 15	33.4	21.3	38	38	51
1 1/4 x 1	32 x 25	42.2	33.4	48	48	51
1 1/4 x 3/4	32 x 20	42.2	26.7	48	48	51
1 1/4 x 1 1/2	32 x 15	42.2	21.3	48	48	51
1 1/2 x 1 1/2	40 x 32	48.3	42.2	57	57	64
1 1/2 x 1	40 x 25	48.3	33.4	57	57	64
1 1/2 x 3/4	40 x 20	48.3	26.7	57	57	64
1 1/2 x 1/2	40 x 15	48.3	21.3	57	57	64
2 x 1 1/2	50 x 40	60.3	48.2	64	60	76
2 x 1 1/4	50 x 32	60.3	42.2	64	57	76
2 x 1	50 x 25	60.3	33.4	64	51	76
2 x 3/4	50 x 20	60.3	26.7	64	44	76
2 1/2 x 2	65 x 50	73.0	60.3	76	70	89
2 1/2 x 1 1/2	65 x 40	73.0	48.3	76	67	89
2 1/2 x 1 1/4	65 x 32	73.0	42.2	76	64	89
2 1/2 x 1	65 x 25	73.0	33.4	76	57	89
3 x 2 1/2	80 x 65	88.9	73.0	86	83	89
3 x 2	80 x 50	88.9	60.3	86	76	89
3 x 1 1/2	80 x 40	88.9	48.3	86	73	89
3 x 1 1/4	80 x 32	88.9	42.2	86	70	89
3 1/2 x 3	90 x 80	101.6	88.9	95	92	102
3 1/2 x 2 1/2	90 x 65	101.6	73.0	95	89	102
3 1/2 x 2	90 x 50	101.6	60.3	95	83	102
3 1/2 x 1 1/2	90 x 40	101.6	48.3	95	79	102
3 1/2 x 1	90 x 32	101.6	42.2	-	-	102
4 x 3 1/2	100 x 90	114.3	101.6	105	102	102
4 x 3	100 x 80	114.3	88.9	105	96	102
4 x 2 1/2	100 x 65	114.3	73.0	105	95	102
4 x 2	100 x 50	114.3	60.3	105	89	102
4 x 1 1/2	100 x 40	114.3	48.3	105	86	102
5 x 4	125 x 100	141.3	114.3	124	117	127
5 x 3 1/2	125 x 90	141.3	101.6	124	114	127
5 x 3	125 x 80	141.3	88.9	124	111	127
5 x 2 1/2	125 x 65	141.3	73.0	124	108	127
5 x 2	125 x 50	141.3	60.3	124	105	127
6 x 5	150 x 125	168.3	141.3	143	137	140
6 x 4	150 x 100	168.3	114.3	143	130	140
6 x 3 1/2	150 x 90	168.3	101.6	143	127	140
6 x 3	150 x 80	168.3	88.9	143	124	140
6 x 2 1/2	150 x 65	168.3	73.0	143	121	140

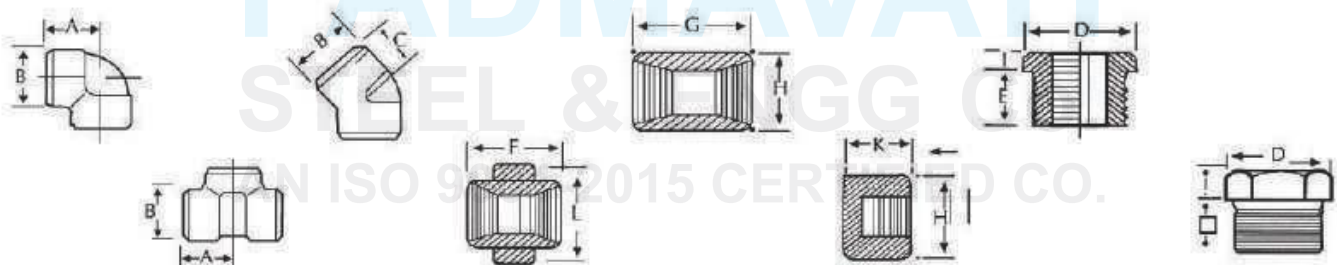
Nominal Pipe Size		Outside Diameter		Center to End		Length
Inch.	mm	D	P	C	M	H
8 x 6	200 x 150	219.1	168.3	178	168	152
8 x 5	200 x 125	219.1	141.3	178	162	152
8 x 4	200 x 100	219.1	114.3	178	156	152
8 x 3 1/2	200 x 90	219.1	101.6	178	152	152
10 x 8	250 x 200	273.1	219.1	216	203	178
10 x 6	250 x 150	273.1	168.1	216	194	178
10 x 5	250 x 125	273.1	141.3	216	191	178
10 x 4	250 x 100	273.1	114.3	216	184	178
12 x 10	300 x 250	323.9	273.1	254	241	203
12 x 8	300 x 200	323.9	219.1	254	229	203
12 x 6	300 x 150	323.9	168.3	254	219	203
12 x 5	300 x 125	323.9	141.3	254	216	203
14 x 12	350 x 300	355.6	323.9	279	270	330
14 x 10	350 x 250	355.6	273.1	279	257	330
14 x 8	350 x 200	355.6	219.1	279	248	330
14 x 6	350 x 150	355.6	168.3	279	238	330
16 x 14	400 x 350	406.4	355.6	305	305	356
16 x 12	400 x 300	406.4	323.9	305	295	356
16 x 10	400 x 250	406.4	273.1	305	283	356
16 x 8	400 x 200	406.4	219.1	305	273	356
16 x 6	400 x 150	406.4	168.3	305	264	356
18 x 16	450 x 400	457.0	406.4	343	330	381
18 x 14	450 x 350	457.0	355.6	343	330	381
18 x 12	450 x 300	457.0	323.9	343	321	381
18 x 10	450 x 250	457.0	273.1	343	308	381
18 x 8	450 x 200	457.0	219.1	343	298	381
20 x 18	500 x 450	508.0	457.0	381	368	508
20 x 16	500 x 400	508.0	406.4	381	356	508
20 x 14	500 x 350	508.0	355.6	381	356	508
20 x 12	500 x 300	508.0	323.9	381	346	508
20 x 10	500 x 250	508.0	273.1	381	333	508
20 x 8	500 x 200	508.8	219.1	381	324	508
22 x 20	550 x 500	559.0	508.0	419	406	508
22 x 18	550 x 450	559.0	457.0	419	394	508
22 x 16	550 x 400	559.0	406.4	419	381	508
22 x 14	550 x 350	559.0	355.6	419	381	508
22 x 12	550 x 300	559.0	323.9	419	371	508
24 x 10	550 x 250	559.0	273.1	419	359	508
24 x 22	600 x 550	610.0	559.0	432	432	508
24 x 20	600 x 500	610.0	508.0	432	432	508
24 x 18	600 x 450	610.0	457.0	432	419	508
24 x 16	600 x 400	610.0	406.4	432	406	508
24 x 14	600 x 350	610.0	355.6	432	406	508
24 x 12	600 x 300	610.0	323.9	432	397	508
24 x 10	600 x 250	610.0	273.1	432	384	508

SOCKET WELD FITTING TO ANSI B - 16.11



NOM		3000 LBS.									COMMON FACTORS				6000 LBS.				
BORE	O.D.	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	78	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	-	32	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



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	148	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



APPLICATION INDUSTRIES



Heat Exchange & Condensors

Chemical Equipment

Pharmaceuticals

Sugar Industries

Furniture

Fabrication (Vessel)

Oil & Gas Industries

Dairy & Foos Industriatrys

Automobile



Paper & Puip Industries

Doors & Handles

Boilers

Sanitary & Plumbing

Instrumentation

Fertilizer Plants

Power Plants

Pailway Coaches





FORMULAS FOR CALCULATING WEIGHT

WEIGHT OF S.S. PIPE

$$\text{O.D. (mm)} - \text{W Thick (mm)} \times \text{W.Thick (mm)} \times 0.0248 = \text{Wt. Per Mtr.}$$

$$\text{O.D. (mm)} - \text{W Thick (mm)} \times \text{W.Thick (mm)} \times 0.00756 = \text{Wt. Per Feet.}$$

WEIGHT OF S.S. ROUND BAR

$$\text{DIA (mm)} \times \text{Dia (mm)} \times 0.00623 = \text{Wt. Per. Mtr.}$$

$$\text{DIA (mm)} \times \text{Dia (mm)} \times 0.0019 = \text{Wt. Per. Feet.}$$

WEIGHT OF S.S. SQUARE BAR

$$\text{DIA (mm)} \times \text{Dia (mm)} \times 0.00788 = \text{Wt. Per. Mtr}$$

$$\text{DIA (mm)} \times \text{Dia (mm)} \times 0.0024 = \text{Wt.Per. Feet.}$$

WEIGHT OF S.S. HEXAGONAL BAR

$$\text{DIA (mm)} \times \text{Dia (mm)} \times 0.00680 = \text{Wt. Per.Mtr}$$

$$\text{Width (mm)} \times \text{Dia (mm)} \times 0.002072 = \text{Wt. Per Feet}$$

WEIGHT OF S.S. FLATE BAR

$$\text{Width (mm)} \times \text{Thick (mm)} \times 0.00798 = \text{Wt.Per Mtr.}$$

$$\text{Width (mm)} \times \text{Thick (mm)} \times 0.00243 = \text{Wt.Per Feet.}$$

WEIGHT OF S.S. SHEETS & PLATES

$$\text{Length (Mtrs)} \times \text{Width (Mtrs)} \times \text{Thick (MM)} \times 8 = \text{Wt. Per PC}$$

$$\text{Length (Feet)} \times \text{Width (Feet)} \times \text{Thick (Feet)} \times \frac{3}{4} = \text{Kg Per PC}$$

WEIGHT OF S.S. CIRCLE

$$\text{DIA (mm)} \times \text{Dia (mm)} \times \text{Thick (mm)} \div 160 = \text{Gms. Per PC}$$

$$\text{DIA (mm)} \times \text{Dia (mm)} \times \text{Thick (mm)} \times 0.0000063 = \text{Kg. Per PC.}$$

WEIGHT OF BRASS PIPE / COPPER PIPE

$$\text{O.D. (mm)} - \text{Thick (mm)} \times \text{Thick (mm)} \times 0.0260 = \text{Wt. Per Mtr.}$$

WEIGHT OF LEAD PIPE

$$\text{O.D. (mm)} - \text{Wt (mm)} \times \text{Wt (mm)} \times 0.0345 = \text{Wt. Per Mtr.}$$

WEIGHT OF ALUMINIUM PIPE

$$\text{O.D. (mm)} - \text{Thick (mm)} \times \text{Thick (mm)} \times 0.0083 = \text{Wt.Per. Mtr.}$$

WEIGHT OF ALUMINIUM SHEET

$$\text{Length (Mtr)} \times \text{Width (Mtr)} \times \text{Thick (mm)} \times 2.69 = \text{Wt.Per PC}$$

WEIGHT OF CONVERSION OF MTR TO FEET

$$1 \text{ Mtr.} = 3.280 \text{ Feet.}$$

WIDTH OF SHEET REQUIRED FOR MAKING PIPE

$$\text{Outer DIA} - \text{Wall Thickness} \times \frac{22}{7} = \text{Width of sheet}$$

TENSILE STRENGTH CONVERSION TABLE

$$1. \text{ Kg/mm}^2 \times 9.81 = \text{N/mm}^2 = \text{Mpa}$$

$$2. \text{ Psi} \times 0.0007 = \text{Kg/mm}^2$$

$$3. \text{ Ksi} \times 1000 = \text{Psi}$$

$$4. \text{ Kg/mm}^2 \times 1.422 = \text{Ksi}$$

Formula for Healthy Business = Honesty + Quality of Goods + Quick Service = Good Healthy Business






Estd. 1991

PADMAVATI

STEEL & ENGG Co.


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 14/16, Kanta Tarrace, Dr. Wilson Street, Near VP Road,
C.P. Tank Circle, Mumbai - 400004, Maharashtra, INDIA.

 steel.padmavati@gmail.com

 www.padmavatisteel.com

 +91 993038808, +91 22 6651 8706 / 6639 4262

 +91 22 23 876 006

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