

GAUTAM TUBES

AN ISO 9001:2015 CERTIFIED COMPANY

SMO 254
Duplex Steel
Super Duplex Steel
High Nickel Alloys



www.gautamtubes.com

India's Trusted Manufacturer & Exporter of Pipes & Tubes, Round Bars, Sheets & Plates, Circle, Pipe Fittings, Flanges & Fasteners

AN ISO 9001:2015 CERTIFIED COMPANY



GAUTAM TUBES

ABOUT US



Gautam Tubes which was established in 1984 by Bhansali Family is now India's leading manufacturer, supplier, stockist & exporter of Stainless Steel, SMO 254, Duplex Steel, Super Duplex Steel, Inconel, Incoloy, Monel, Hastelloy, Nickel Alloy, Alloy 20, Alloy Steel, Carbon Steel, Titanium, etc. in the form of Pipes, Tubes, Round Bars, Sheets & Plates, Circle, Buttweld Fittings, Socket Weld Fittings, Forged Threaded Fittings, Flanges, Fasteners, etc. These products are available in a wide range of sizes, shapes, types, standards & other specifications.

We also make custom ferrous and non-ferrous products as per customer drawings & specifications. All our products are tested and quality approved before delivering to our worldwide customers.



QUALITY POLICY



Gautam Tubes has a reputation of delivering quality ferrous and non-ferrous metals products with fast delivery and to the complete satisfactions of its customers.

At Gautam Tubes our main priority is to deliver quality products to our worldwide customers. Our quality inspectors do several destructive and non destructive tests to make sure our products are defect free and quality approved. We provide manufacture test certificates or Govt. approved laboratory certificates along with supply of products.

Gautam Tubes creates and implements a quality management system that fulfils global standards and client needs in order to achieve customer satisfaction while working to improve them.

PIPES AND TUBES



AVAILABLE MATERIAL & GRADES FOR PIPES & TUBES

Carbon Steel	ASTM A106 Gr B/C, A333 Gr 1/6, A192, A53, ASME SA179, SA210 A1, API 5L, 5L GR B, X42 PSL 1/2 Pipe, X52 PSL 1/2 Pipe, X60 PSL 1/2 Pipe, X70 PSL 1/2 Pipe, etc.
Stainless Steel	SS 304/304L/304H, 316/316L, 317/317L, 321/321H, 347/347H, 904L, SMO 254, etc.
Duplex Steel	Duplex 2205, UNS S31803, UNS S32205, F51/F60, etc.
Super Duplex Steel	Super Duplex 2507, UNS S32750, UNS S32760, F53/F55, etc.
Inconel / Incoloy	Inconel 600, Inconel 601, Inconel 625, Incoloy 800, Incoloy 825, etc.
Monel	Monel 400, Monel K500
Hastelloy	Hastelloy C22, Hastelloy C276, Hastelloy X, etc.
Nickel Alloy	Nickel 200, Nickel 201
Titanium	Titanium Grade 2, Grade 5, Grade 7, etc.
Other Materials	Alloy 20, Alloy Steel, etc.

PIPES & TUBES SPECIFICATIONS

Sizes	Pipes - 1/8" NB to 100" NB, Tubes - 1/4" OD to 12" OD (min. 0.5 Thickness), As per request
Types	Seamless / ERW / Welded / Fabricated / LSAW
Form	Round, Square, Rectangular, Hydraulic, Honed, etc.
Length	Single Random, Double Random & Cut Length
End	Plain End, Beveled End, Treaded
Standards	ASTM, ASME, AISI, DIN, BS, EN, IS, JIS, IBR & Other International Standards
Schedule	Sch. 5, 10, 20, 30, 40, 80, 100, 120, 140, 160, XS, XXS

BARS AND RODS



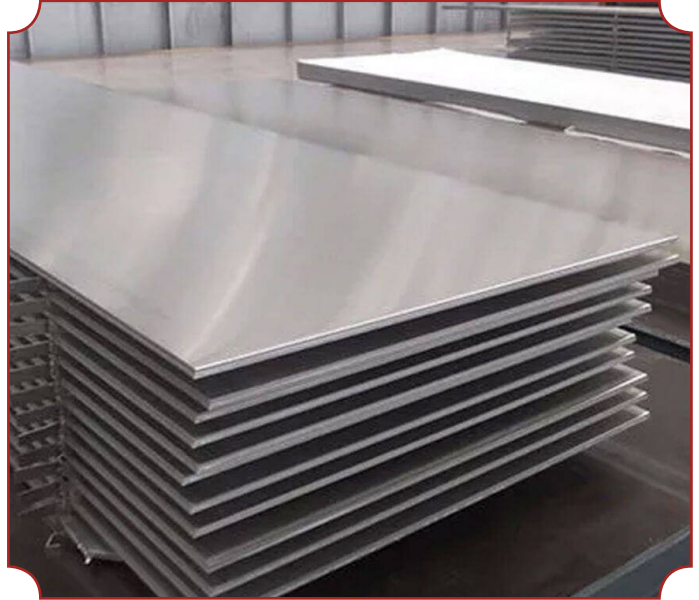
AVAILABLE MATERIAL & GRADES FOR BARS AND RODS

Carbon Steel	Ck 45, 55, 60, SAE 1006, 1008, 1010, 1018, 1020, 1030, 1035, 1040, 1045, En-8D, 9, etc.
Stainless Steel	SS 304/304L/304H, 316/316L, 317/317L, 321/321H, 347/347H, 904L, SMO 254, etc.
Duplex Steel	Duplex 2205, UNS S31803, UNS S32205, F51/F60, etc.
Super Duplex Steel	Super Duplex 2507, UNS S32750, UNS S32760, F53/F55, etc.
Inconel / Incoloy	Inconel 600, Inconel 601, Inconel 625, Incoloy 800, Incoloy 825, etc.
Monel	Monel 400, Monel K500
Hastelloy	Hastelloy C22, Hastelloy C276, Hastelloy X, etc.
Nickel Alloy	Nickel 200, Nickel 201
Titanium	Titanium Grade 2, Grade 5, Grade 7, etc.
Other Materials	Alloy 20, Alloy Steel, etc.

BARS AND RODS SPECIFICATIONS

Round Bars	Outside Diameter in the range of 4mm to 500mm / Custom Sizes
Bright Bars	Outside Diameter in the range of 4mm to 500mm / Custom Sizes
Hex Bars	18mm – 57mm (11/16" to 2-3/4") / Custom Sizes
Square Bars	18mm – 47mm (11/16" to 1-3/4") / Custom Sizes
Flat Bars	1/2" to 10" in thickness range of 2mm to 150mm / Custom Sizes
Length	1 to 6 Meters, Custom Cut Lengths
Finish & Form	Black, Bright, Polished, Rough Turned, Round, Hex, Square, Rectangle, Billet, Ingot, Forging.

SHEETS AND PLATES



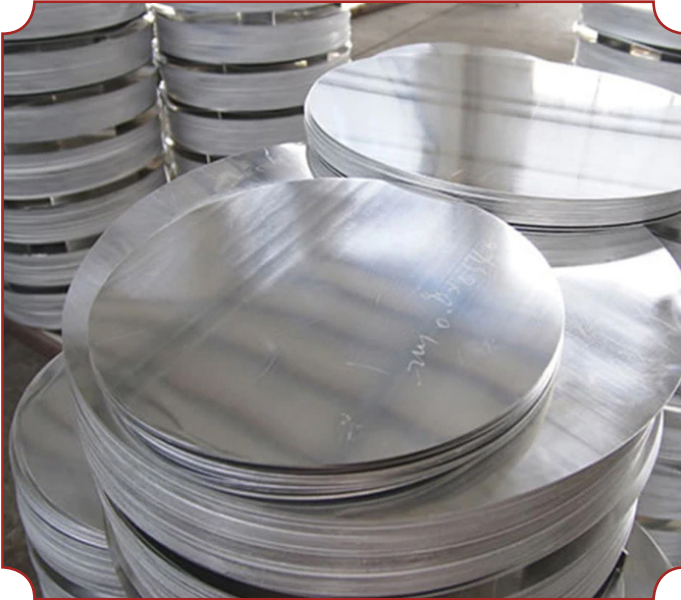
AVAILABLE MATERIAL & GRADES FOR SHEETS AND PLATES

Carbon Steel	ASTM A515 Gr 70, 60, A516 Gr 70, 60, 65, C45, EN8, A572 Gr 42/50, A537 Class 1/2, etc.
Stainless Steel	SS 304/304L/304H, 316/316L, 317/317L, 321/321H, 347/347H, 904L, SMO 254, etc.
Duplex Steel	Duplex 2205, UNS S31803, UNS S32205, F51/F60, etc.
Super Duplex Steel	Super Duplex 2507, UNS S32750, UNS S32760, F53/F55, etc.
Inconel / Incoloy	Inconel 600, Inconel 601, Inconel 625, Incoloy 800, Incoloy 825, etc.
Monel	Monel 400, Monel K500
Hastelloy	Hastelloy C22, Hastelloy C276, Hastelloy X, etc.
Nickel Alloy	Nickel 200, Nickel 201
Titanium	Titanium Grade 2, Grade 5, Grade 7, etc.
Other Materials	Alloy 20, Alloy Steel, etc.

SHEETS AND PLATES SPECIFICATIONS

Thickness	4mm - 100mm / Custom
Width	1000mm, 1219mm, 1500mm, 1800mm, 2000mm, 2500mm, 3000mm, 3500mm, etc.
Length	2000mm, 2440mm, 3000mm, 5800mm, 6000mm, etc.
Surface	2B, 2D, BA, NO.1, NO.4, NO.8, 8K, mirror, checkered, embossed, hair line, Brush, etching, etc
Finish	Hot rolled plate (HR), Cold rolled sheet (CR), 2B, 2D, BA NO(8), SATIN (Met with Plastic Coated)
Standards	ASTM, ASME, AISI, DIN, BS, EN, IS, JIS, IBR & Other International Standards
Form	Coils, Plain Sheet, Shim Sheet, Perforated Sheet, Chequered Plate, Strip, Slitting Coil, Flats, etc.

CIRCLES



AVAILABLE MATERIAL & GRADES FOR CIRCLES

Carbon Steel	ASTM A515 Gr 70, 60, A516 Gr 70, 60, 65, C45, EN8, A572 Gr 42/50, A537 Class 1/2, etc.
Stainless Steel	SS 304/304L/304H, 316/316L, 317/317L, 321/321H, 347/347H, 904L, SMO 254, etc.
Duplex Steel	Duplex 2205, UNS S31803, UNS S32205, F51/F60, etc.
Super Duplex Steel	Super Duplex 2507, UNS S32750, UNS S32760, F53/F55, etc.
Inconel / Incoloy	Inconel 600, Inconel 601, Inconel 625, Incoloy 800, Incoloy 825, etc.
Monel	Monel 400, Monel K500
Hastelloy	Hastelloy C22, Hastelloy C276, Hastelloy X, etc.
Nickel Alloy	Nickel 200, Nickel 201
Titanium	Titanium Grade 2, Grade 5, Grade 7, etc.
Other Materials	Alloy 20, Alloy Steel, etc.

CIRCLES SPECIFICATIONS

Thickness	Pipes - 1/8" NB to 100" NB, Tubes - 1/4" OD to 12" OD (min. 0.5 Thickness), As per request
Diameter	1 mm To 100 mm
Ring	Round, Square, Rectangular, Hydraulic, Honed, etc.
Cutting	Plazma & Machined Cut, Forging & Plate Cut, etc.
Finish	HR, CR, 2B, 2D, BA NO(8), SATIN (Met with Plastic Coated), etc.
Standards	ASTM, ASME, AISI, DIN, BS, EN, IS, JIS, IBR & Other International Standards
Form	CR Circles, Proof Machined Circles, Forged Steel Circles, CNC Finish & Hot Rolled Circles, etc.

BUTTWELD FITTINGS



AVAILABLE MATERIAL & GRADES FOR BUTTWELD FITTINGS

Carbon Steel	A234 WPB, A240 WPL6, P235GH, P265GH, WPHY 42, 52, 56, 60, 65, 70, 80, etc.
Stainless Steel	SS 304/304L/304H, 316/316L, 317/317L, 321/321H, 347/347H, 904L, SMO 254, etc.
Duplex Steel	Duplex 2205, UNS S31803, UNS S32205, F51/F60, etc.
Super Duplex Steel	Super Duplex 2507, UNS S32750, UNS S32760, F53/F55, etc.
Inconel / Incoloy	Inconel 600, Inconel 601, Inconel 625, Incoloy 800, Incoloy 825, etc.
Monel	Monel 400, Monel K500
Hastelloy	Hastelloy C22, Hastelloy C276, Hastelloy X, etc.
Nickel Alloy	Nickel 200, Nickel 201
Titanium	Titanium Grade 2, Grade 5, Grade 7, etc.
Other Materials	Alloy 20, Alloy Steel, etc.

BUTTWELD SPECIFICATIONS

Sizes	1/8" NB TO 48" NB / Custom Sizes
Thickness	Schedule 5s, 10s, 40s, 80s, 10, 20, 40, STD, 60, 80, XS, 100, 120, 140, 160, XXS
Type	Seamless / Welded / Fabricated
Standards	ASTM, ASME, AISI, DIN, BS, EN, IS, JIS, IBR & Other International Standards
Bending Radius	R=1D, 2D, 3D, 5D, 6D, 8D, 10D / Custom
Fittings Type	Buttweld 45/90/180 Degree Elbow, Eccentric Reducer, Concentric Reducer, Lateral Tee, Equal Tee, Long/ Short Stub End, End Cap, Equal/Unequal Cross, Bend, etc.

FORGED FITTINGS



AVAILABLE MATERIAL & GRADES FOR FORGED FITTINGS

Carbon Steel	ASTM A105, A350, A694, A350 LF2, etc.
Stainless Steel	SS 304/304L/304H, 316/316L, 317/317L, 321/321H, 347/347H, 904L, SMO 254, etc.
Duplex Steel	Duplex 2205, UNS S31803, UNS S32205, F51/F60, etc.
Super Duplex Steel	Super Duplex 2507, UNS S32750, UNS S32760, F53/F55, etc.
Inconel / Incoloy	Inconel 600, Inconel 601, Inconel 625, Incoloy 800, Incoloy 825, etc.
Monel	Monel 400, Monel K500
Hastelloy	Hastelloy C22, Hastelloy C276, Hastelloy X, etc.
Nickel Alloy	Nickel 200, Nickel 201
Titanium	Titanium Grade 2, Grade 5, Grade 7, etc.
Other Materials	Alloy 20, Alloy Steel, etc.

FORGED FITTINGS SPECIFICATIONS

Sizes	1/8" NB to 4" NB / Custom Sizes
Class	2000 LBS, 3000 LBS, 6000 LBS, 9000 LBS
Type	Socket Weld & Screwed-Threaded Fittings
Standards	ASTM, ASME, AISI, DIN, BS, EN, IS, JIS, IBR & Other International Standards
Thread	NPT, BSPT, BSPP
Fittings Type	Socket Weld & Threaded 45/90/180 Degree Elbow, Tee, Union, Boss, Bushing, Cross, Hex Plug, Coupling, Cap, Pipe Nipple, etc.

FLANGES



AVAILABLE MATERIAL & GRADES FOR FLANGES

Carbon Steel	ASTM A105, A36, IS 2062, A350 LF2, A694 F42, F52, F56, F60, F65, F70, F80, etc.
Stainless Steel	SS 304/304L/304H, 316/316L, 317/317L, 321/321H, 347/347H, 904L, SMO 254, etc.
Duplex Steel	Duplex 2205, UNS S31803, UNS S32205, F51/F60, etc.
Super Duplex Steel	Super Duplex 2507, UNS S32750, UNS S32760, F53/F55, etc.
Inconel / Incoloy	Inconel 600, Inconel 601, Inconel 625, Incoloy 800, Incoloy 825, etc.
Monel	Monel 400, Monel K500
Hastelloy	Hastelloy C22, Hastelloy C276, Hastelloy X, etc.
Nickel Alloy	Nickel 200, Nickel 201
Titanium	Titanium Grade 2, Grade 5, Grade 7, etc.
Other Materials	Alloy 20, Alloy Steel, etc.

FLANGES SPECIFICATIONS

Sizes	6 NB to 2400 NB, As per request
Class	75#, 125#, 150#, 175#, 250#, 300#, 350#, 400#, 600#, 900#, 1500#, 2500#, 3000#, etc.
Pressure	PN6, PN10, PN16, PN25, PN40, PN64, etc.
Standards	ASTM, ASME, AISI, DIN, BS, EN, IS, JIS, IBR & Other International Standards
Face Type	Flat Face (FF), Raised Face (RF), Ring Type Joint (RTJ), etc.
Coating	Anti-rust Paint, Oil Black Paint, Yellow Transparent, Zinc Plated, Cold and Hot Dip Galvanized, etc.
Types	Slip on Flanges, Weld Neck Flanges, Blind Flanges, Orifice Flanges, Lap Joint Flanges, etc.

FASTENERS



AVAILABLE MATERIAL & GRADES FOR FASTENERS

Carbon Steel	ASTM A 307 Grade A, B, C, Class 4.6, 4.8, 8.8, 12.9, SAE J429 Grade 1, 2, 4, 5, 5.2, 8, 8.1, 8.2, F1554 Grade 36, 55, 105, etc.
Stainless Steel	SS 304/304L/304H, 316/316L, 317/317L, 321/321H, 347/347H, 904L, SMO 254, etc.
Duplex Steel	Duplex 2205, UNS S31803, UNS S32205, F51/F60, etc.
Super Duplex Steel	Super Duplex 2507, UNS S32750, UNS S32760, F53/F55, etc.
Inconel / Incoloy	Inconel 600, Inconel 601, Inconel 625, Incoloy 800, Incoloy 825, etc.
Monel	Monel 400, Monel K500
Hastelloy	Hastelloy C22, Hastelloy C276, Hastelloy X, etc.
Nickel Alloy	Nickel 200, Nickel 201
Titanium	Titanium Grade 2, Grade 5, Grade 7, etc.
Other Materials	Alloy 20, Alloy Steel, etc.

FASTENERS SPECIFICATIONS

Sizes	M3 - M100 / Custom Sizes
Length	3 mm To 200 mm / Custom Lengths
Standard	ASTM, ASME, DIN, BS, EN, IS, AMS, JIS & Other International Standards
Form	Hex, Threading, Square, Round, As per Gauge, etc.
Finish	Self-Colour, Passivated, Bright Zinc Plated (BZP), Hot Dip Galvanised (HDG), Nickel Plated, etc.
Types	Stud Bolts, Hex Head & Square Bolts, U bolts, Eye bolts, Hex Head & Square nuts, Lock nuts, Eye nuts, wing nuts, Hex Head Screw, Socket Head Cap Screw, Flat Washer, Lock Washer, etc.

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GAUTAM TUBES

INDUSTRIES WE SERVE



Petroleum Refinery



Offshore



Pharmaceutical



Ship Building



Sewage Treatment



Electric Power



Paper Mills



Food Processing



Textile Industry



Nuclear Industries

In addition to the above mentioned industries, our products are also utilized in following industries :

Automobiles

Heat Exchangers & Condenser

Architectural Application

Railways

Thermocouples

Heating Elements

Chilling Plants

Sugar Mills

Instrumentation

Fertilizer Plants

Submersible Pumps

Water Pipelines

THIRD PARTY INSPECTION



PIPES WEIGHT (ACCORDING TO ANSI B36.9)

NOMINAL PIPE SIZE MM / INCH		OD (mm)	Sch 10	Sch 20	Sch 30	STD	Sch 40	Sch 60	Sch 80S	Sch 80	Sch 100	Sch 120	Sch 140	Sch 160	XXS
6	1/8"	10.3	W.THK MM Wgt: Kg/M			1.73 0.37	1.73 0.37		2.41 0.47	2.41 0.47					
8	1/4"	13.7	1.65 0.50			2.24 0.63	2.24 0.63		3.02 0.80	3.02 0.80					
10	3/8"	17.1	1.65 0.64			2.31 0.84	2.31 0.84		3.20 1.10	3.20 1.10					
15	1/2"	21.3	2.11 1.02			2.77 1.27	2.77 1.27		3.73 1.62	3.73 1.62				4.78 1.95	7.47 2.55
20	3/4"	26.7	2.11 1.30			2.87 1.69	2.87 1.69		3.91 2.20	3.91 2.20				5.56 2.90	7.82 3.64
25	1"	33.4	2.77 2.12			3.38 2.50	3.38 2.50		4.55 3.24	4.55 3.24				6.35 4.24	9.09 5.45
32	1.1/4"	42.2	2.77 2.73			3.56 3.39	3.56 3.39		4.85 4.47	4.85 4.47				6.35 5.61	9.70 7.77
40	1.1/2"	48.3	2.73 3.16			3.68 4.05	3.68 4.05		5.08 5.41	5.08 5.41				7.14 7.25	10.15 9.56
50	2"	60.3	2.77 3.99			3.91 5.44	3.91 5.44		5.54 7.48	5.54 7.48				8.74 11.11	11.07 13.44
65	2.1/2"	73.0	3.05 5.34			5.16 8.63	5.16 8.63		7.01 11.41	7.01 11.41				9.53 14.92	14.02 20.39
80	3"	88.9	1.65 0.50			5.49 11.29	5.49 11.29		7.62 15.27	7.62 15.27				11.13 21.35	15.24 27.68
90	3.1/2"	101.6	3.05 7.53			5.74 13.57	5.74 13.57		8.08 18.63	8.08 18.63				-	-
100	4"	114.3	3.05 8.50			6.02 16.07	6.02 16.07		8.56 22.32	8.56 22.32		11.13 28.32		13.49 33.54	17.12 41.03
125	5"	141.3	3.40 11.74			6.55 21.77	6.55 21.77		9.53 30.97	9.53 30.97		12.70 40.28		15.88 49.11	19.05 57.43
150	6"	168.3	3.40 14.04			7.11 28.26	7.11 28.26		10.97 42.57	10.97 42.57		14.27 54.20		18.26 67.56	21.95 79.22
200	8"	219.1	3.76 20.27	6.35 33.31	7.04 36.31	8.18 42.55	8.18 42.55	10.31 53.08	12.70 64.64	12.70 64.64	15.09 75.92	18.26 90.44	20.62 100.92	23.01 111.27	22.23 107.92
250	10"	273.1	4.19 28.20	6.35 41.77	7.80 51.03	9.27 60.31	9.27 60.31	12.70 81.55	12.70 81.55	15.09 96.01	18.26 114.75	21.44 133.66	25.40 155.15	28.58 172.33	25.4 186.97
300	12"	323.9	4.57 36.54	6.35 49.73	8.38 65.20	9.53 75.88	10.31 79.73	14.27 108.96	12.70 97.46	17.48 132.08	21.44 159.91	25.40 186.97	28.58 208.14	33.32 238.76	
350	14"	355.6	6.35 54.69	7.92 57.90	9.53 81.33	9.53 91.33	11.13 94.55	15.09 126.71	12.70 107.39	19.05 158.10	23.83 194.96	27.79 224.65	31.75 253.56	35.71 281.70	
400	16"	406.4	6.35 62.64	7.92 77.90	9.53 93.27	9.53 93.27	12.70 123.30	16.66 160.12	12.70 123.30	21.44 203.53	26.19 245.56	30.96 286.64	35.53 333.19	40.49 365.35	
450	18"	457.0	6.35 70.57	7.92 87.71	11.13 122.38	9.53 105.16	14.27 155.80	19.05 205.74	12.70 139.15	23.88 254.55	29.36 309.62	34.93 363.56	39.67 408.26	45.24 459.37	
500	20"	508.0	6.35 78.55	9.53 117.15	12.70 155.12	9.53 117.15	15.09 183.42	20.62 247.83	12.70 155.12	26.19 311.17	32.54 381.53	38.10 441.49	44.45 508.11	50.01 564.81	
550	22"	559.0	6.35 86.54	9.53 129.13	12.70 171.09	9.53 129.13	-	22.23 294.25	12.70 171.09	28.58 373.83	34.93 451.42	41.28 527.02	47.63 600.63	53.98 672.62	
600	24"	610.0	6.35 94.53	9.53 141.12	14.27 209.64	9.53 141.12	17.48 255.41	24.61 355.26	12.70 187.06	30.96 442.08	38.89 547.71	46.02 640.03	52.37 720.15	672.26 808.22	
650	26"	660.0	7.92 127.36	12.70 202.72	-	9.53 152.87	-		12.70 202.72						
700	28"	711.0	7.92 137.36	12.70 218.69	15.88 271.21	9.53 164.85	-		12.70 218.69						
750	30"	762.0	7.92 147.28	12.70 234.67	15.88 292.18	9.53 176.84	-		12.70 234.67						
800	32"	813.0	7.92 157.2	12.70 250.64	15.88 312.18	9.53 188.82	17.48 342.91		12.70 250.64						
850	34"	864.0	7.92 167.20	12.70 266.61	15.88 332.12	9.53 200.31	17.48 364.90		12.70 266.61						
900	36"	914.0	7.92 176.96	12.70 282.27	15.88 351.70	9.53 212.56	19.05 420.42		12.70 282.27						
950	38"	965.0				9.53 224.54			12.70 298.24						
1000	40"	1016.0				9.53 236.53			12.70 314.22						
1050	42"	1067.0				9.53 248.52			12.70 330.19						
1100	44"	1118.0				9.53 260.50			12.70 346.16						
1150	46"	1168.0				9.53 272.25			12.70 351.82						
1200	48"	1219.0				9.53 284.24			12.70 377.79						

ASME B16.5 Size ½" - 24" Forged Flanges

TABLE OF WEIGHT (Approx) (LBS)



CATEGORY	Nominal pipe size NPS (Inches)	Slip on Flange	Threaded Flange	SORF Flange	Lap Joint Flange	BLRF Flange	WNRF Neck Flange
150 lb	1/2	1	1	2	1	2	2
	3/4	2	2	2	2	2	2
	1	2	2	2	2	2	3
	1 1/4	3	3	3	3	3	3
	1 1/2	3	3	3	3	4	4
	2	5	5	5	5	5	6
	2 1/2	8	8	8	8	7	10
	3	9	9	9	9	9	11.5
	3 1/2	11	12	11	11	13	12
	4	13	13	13	13	17	16.5
	5	15	15	15	15	20	21
	6	19	19	19	19	27	26
	8	30	30	30	30	47	42
	10	43	43	43	43	70	54
	12	64	64	64	64	123	88
	14	90	90	90	105	140	114
	16	106	98	98	140	180	140
	18	130	130	130	160	220	165
	20	165	165	165	195	285	197
	22	185	185	185	245	355	225
	24	220	220	220	275	430	268

CATEGORY	Nominal pipe size NPS (Inches)	Slip on Flange	Threaded Flange	SORF Flange	Lap Joint Flange	BLRF Flange	WNRF Neck Flange
300 lb	1/2	2	2	3	2	2	2
	3/4	3	3	3	3	3	3
	1	3	3	3	3	4	4
	1 1/4	4.5	4.5	4	4.5	6	5
	1 1/2	6.5	6.5	6	6.5	7	7
	2	7	7	7	7	8	9
	2 1/2	10	10	10	10	12	12
	3	13	14	13	14.5	16	18
	3 1/2	17	17	17	17	21	20
	4	23.5	24	22	24	28	26.5
	5	29	31	28	28	37	36
	6	39	39	39	39	50	45
	8	58	58	58	58	81	69
	10	81	81	81	91	124	100
	12	115	115	115	140	185	142
	14	165	165	165	190	250	206
	16	210	220	190	234	315	250
	18	253	280	250	305	414	320
	20	315	325	315	375	515	400
	22	370	370	370	435	640	465
	24	490	490	475	550	800	580

ASME B16.5 Size ½" - 24" Forged Flanges

TABLE OF WEIGHT (Approx) (LBS)



CATEGORY	Nominal pipe size NPS (Inches)	Slip on Flange	Threaded Flange	SORF Flange	Lap Joint Flange	BLRF Flange	WNRF Neck Flange
400 lb	1/2	2	2	2	2	2	3
	3/4	3	3	3	3	3	.35
	1	3.5	3.5	3.5	3.5	4	4
	1 1/4	4.5	4.5	4.5	4.5	6	4.5
	1 1/2	6.5	6.5	6.5	6.5	8	8
	2	8	8	8	8	10	10
	2 1/2	12	12	12	11	15	14
	3	15	15	15	14	20	18
	3 1/2	21	21	21	20	29	26
	4	26	26	26	25	33	35
	5	31	31	31	29	44	43
	6	44	44	44	42	61	57
	8	67	67	67	64	100	89
	10	91	91	91	110	155	125
	12	130	130	130	152	226	175
	14	191	191	191	210	310	233
	16	253	253	253	280	398	295
	18	310	310	310	345	502	360
	20	378	378	378	420	621	445
	22	405	405	405	455	720	505
	24	539	539	539	615	936	640

CATEGORY	Nominal pipe size NPS (Inches)	Slip on Flange	Threaded Flange	SORF Flange	Lap Joint Flange	BLRF Flange	WNRF Neck Flange
600 lb	1/2	2	2	2	2	3	3
	3/4	3	3	3	3	4	4
	1	4	4	4	4	4	4
	1 1/4	5	5	5	5	6	6
	1 1/2	7	7	7	7	8	8
	2	9	9	9	9	10	12
	2 1/2	13	13	13	12	15	18
	3	16	16	16	15	20	23
	3 1/2	21	21	21	20	29	26
	4	37	37	37	36	41	42
	5	63	63	63	63	68	68
	6	80	80	80	78	86	81
	8	115	15	15	112	140	120
	10	177	177	177	195	231	190
	12	215	215	215	240	295	226
	14	259	259	259	290	378	347
	16	366	366	366	400	527	481
	18	476	476	476	469	665	555
	20	612	612	612	604	855	690
	22	590	590	590	670	1000	720
	24	876	876	876	866	1250	977

ASME B16.5 Size ½" - 24" Forged Flanges

TABLE OF WEIGHT (Approx) (LBS)

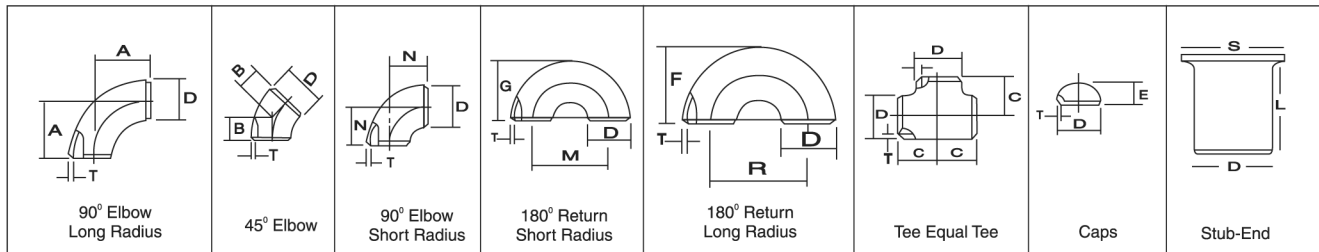
CATEGORY	Nominal pipe size NPS (Inches)	Slip on Flange	Threaded Flange	SORF Flange	Lap Joint Flange	BLRF Flange	WNRF Neck Flange
900 lb	1/2	6	6	6	6	4	7
	3/4	6	6	6	6	6	7
	1	7.5	7.5	7.5	7.5	9	8.5
	1 1/4	10	10	10	10	10	10
	1 1/2	14	14	14	14	14	14
	2	22	22	22	21	25	24
	2 1/2	31	31	31	25	32	31
	3	36	36	36	29	35	36
	4	53	53	53	51	54	53
	5	83	83	83	81	87	86
	6	110	110	110	105	115	110
	8	172	172	172	190	200	187
	10	245	245	245	277	290	268
	12	326	326	326	371	415	372
	14	400	400	400	415	520	562
	16	459	459	459	488	619	685
	18	647	647	647	670	880	924
	20	792	792	792	868	1107	1164
	24	1480	1480	1480	1659	2099	2107

CATEGORY	Nominal pipe size NPS (Inches)	Slip on Flange	Threaded Flange	SORF Flange	Lap Joint Flange	BLRF Flange	WNRF Neck Flange
1500 lb	1/2	6	6	6	6	4	7
	3/4	6	6	6	6	6	7
	1	8	8	8	8	9	9
	1 1/4	10	10	10	10	10	10
	1 1/2	14	14	14	14	14	14
	2	25	25	25	25	25	25
	2 1/2	36	36	36	35	35	36
	3	48	48	48	47	48	48
	4	73	73	73	75	73	73
	5	132	132	132	140	140	132
	6	165	165	165	170	160	165
	8	260	260	260	286	302	275
	10	436	436	436	485	510	455
	12	667	667	667	749	775	690
	14	940	940	940	890	975	940
	16	1250	1250	1250	1250	1300	1250
	18	1625	1625	1625	1475	1750	1625
	20	2050	2050	2050	1775	2225	2050
	24	2825	2825	2825	2825	3625	3325





DIMENSION OF BUTT WELDING FITTING ANSI B-16.9 / 16.29 / MSS SP-43



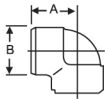
Nominal Pipe Size		Outside Diameter	Center to Face				Back to Face			Center to Center			Length 'L'	
INCH	MM	D	A R=1.5D	B	C	N R=1D	E	F	G	R	M	S	Short L	Long L
1/2	15	21.3	38.00	16.0	25.0	-	25.0	48.0	-	76.0		35.0	50.8	76.2
3/4	20	26.7	29.00	11.0	29.0	-	25.0	43.0	-	57.0		43.0	50.8	76.2
1	25	33.4	38.00	22.0	38.0	25.0	38.0	56.0	41.0	76.0	51.0	51.0	50.8	101.6
1.1/4	32	42.2	48.00	25.0	48.0	32.0	38.0	70.0	52.0	95.0	64.0	64.0	50.8	101.6
1.1/2	40	48.3	57.15	29.0	57.0	38.0	38.0	83.0	62.0	114.0	76.0	73.0	50.8	101.6
2	50	60.3	76.00	35.0	64.0	51.0	38.0	106.0	81.0	152.0	102.0	93.0	63.5	152.4
2.1/2	65	73.0	95.25	44.0	76.0	64.0	38.0	132.0	100.0	191.0	127.0	105.0	63.5	152.4
3	80	88.9	114.30	51.0	86.0	76.0	51.0	159.0	121.0	229.0	152.0	127.0	63.5	152.4
3.1/2	90	101.6	133.35	57.0	95.0	89.0	64.0	184.0	140.0	267.0	178.0	140.0	76.2	152.4
4	100	114.3	152.0	64.0	105.0	102.0	64.0	210.0	159.0	305.0	203.0	157.0	76.2	152.4
5	125	141.3	190.0	79.0	123.0	127.0	76.0	262.0	197.0	381.0	254.0	186.0	76.2	203.2
6	150	168.3	229.0	95.0	143.0	152.0	102.0	313.0	237.0	457.0	305.0	218.0	88.9	203.2
8	200	219.1	305.0	127.0	178.0	203.0	89.0	414.0	313.0	610.0	406.0	270.0	101.6	203.2
10	250	273.1	381.0	159.0	216.0	254.0	102.0	515.0	391.0	762.0	508.0	324.0	127.0	254.0
12	300	323.8	457.0	190.0	254.0	305.0	127.0	619.0	467.0	914.0	610.0	381.0	152.4	254.0
14	350	355.6	533.0	222.0	279.0	356.0	152.0	711.0	533.0	1067.0	711.0	413.0	152.4	305.0
16	400	406.4	610.0	254.0	305.0	406.0	165.0	813.0	610.0	1219.0	813.0	470.0	152.4	305.0
18	450	457.2	686.0	286.0	343.0	457.0	178.0	914.0	686.0	1372.0	914.0	533.0	152.4	305.0
20	500	508.0	762.0	318.0	381.0	508.0	203.0	1016.0	762.0	1524.0	1016.0	584.0	152.4	305.0
22	550	559.0	838.0	343.0	419.0	559.0	229.0	1118.0	838.0	1676.0	1118.0	614.4	152.4	305.0
24	600	610.0	914.0	381.0	432.0	610.0	254.0	1219.0	914.0	1829.0	1219.0	692.0	152.4	305.0
26	650	660.0	991.0	405.0	495.0	660.0	267.0							
28	700	711.0	1067.0	438.0	521.0	771.0	267.0							
30	750	762.0	1143.0	470.0	559.0	762.0	267.0							
32	800	813.0	1219.0	502.0	597.0	813.0	267.0							
34	850	864.0	1295.0	533.0	635.0	864.0	267.0							
36	900	914.4	1372.0	565.0	673.0	914.0	267.0							

All Dimensions in Millimeters

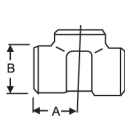


DIMENSION IN MM OF FORGED SCREWED FITTINGS TO ANSI B-16.11 THREADED TO ASA B2.1

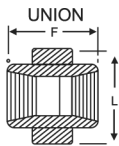
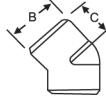
90° ELBOWS



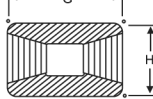
TEE



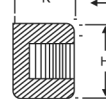
45° ELBOW



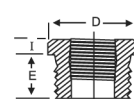
COUPLING



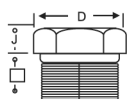
PIPE CAP



BUSHING



HEX HEAD PLUG

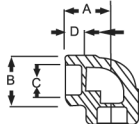


HALF COUPLING = G/2

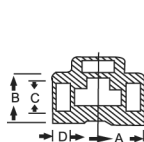
NOM BORE	PIPE O.D.	3000 L.B.S.						COMMON FACTORS						6000 L.B.S					
		A	B	C	G	H	K	D	E	F	I	J	L	A	B	C	G	H	K
1/8"	10.3	21	22	17	32	16	19	11	10	40	-	6	-	25	25	19	32	22	-
1/4"	13.7	25	25	19	35	19	25	16	11	43	3	6	32	29	33	22	35	25	27
3/8"	17.2	29	33	22	38	22	25	17.5	13	48	4	8	38	33	38	25	38	32	27
1/2"	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

SOCKET WELD FITTING TO ANSI B-16.11

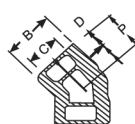
90° ELBOWS



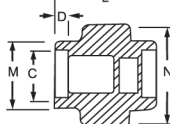
TEE



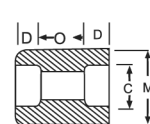
45° ELBOW



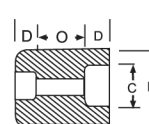
UNION



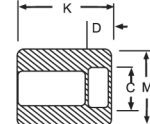
COUPLING



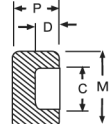
REDUCER



HALF COUPLING



CAP



NOM BORE	PIPE O.D.	3000 L.B.S.									COMMON FACTORS				6000 L.B.S				
		A	B	K	J	L	M	N	P	Q	Cmin	Dmin	Omin	Omax	A	B	M	K	N
1/8"	10.3	22	18.5	26	16	40	17.3	32	17.5	10	10.7	10	5	8	22	22	20	25	46
1/4"	13.7	22	22	26	18	43	21.2	32	17.5	10	14.1	10	5	8	27	25	24	25	51
3/8"	17.2	25	25	26	19	48	25.4	36	19	10	17.6	10	3	9	27	28	28	26	60
1/2"	21.3	27	32	30	21	51	31	43	22	10	21.7	10	6	13	31	34	34	31	72
3/4"	26.7	34	38	36	24	57	37	50	25	13	27	13	6	13	37	42	41	35	80
1"	33.4	37	46	40	25	64	45.2	60	27	13	33.8	13	9	17	42	50	50	40	94
1 1/4"	42.2	42	56	40	29	70	55	70	30	13	42.6	13	9	17	47	59	58	41	100
1 1/2"	48.3	47	62	40	30	79	61.4	78	32	13	48.7	13	9	17	53	67	55	43	122
2"	60.3	56	75	52	37	89	75	95	38	13	61.2	16	15	23	59	84	83	55	
2 1/2"	73.02	60	92	52	48	114	91.3	125	38	16	73.8	16	14	24		102		56	
3"	89.00	76	110	52	51	127	108.8	140	44	16	89.8	16	14	24		121		58	
4"	114.50	88	137	58		150	136.9		48	19	115.5	19	14	24		152		64	

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



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