



ASTL SIZE CHART



Plant Address |

Survey No 2154/2155,
Ahmedabad - Rajkot Highway (NH47) Near Hotel Orizon,
At: Panshina, Taluka: Limbdi, Dist.: Surendranagar,
Gujarat, India-363423

ASTL Size Chart

Wall Thickness															
OD	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00
10.30															
13.70															
17.10															
21.30															
26.70															
33.40															
38.00															
42.20															
48.30															
60.30															
73.00															
76.00															
88.90															
101.60															
114.30															

Legend															
- Size is available in Cold Drawn Seamless Tubes - Size is available in Cold Drawn Seamless or Hot Finish Seamless Pipes/Tubes - Size is available in Hot Finish Seamless Pipes															

ASTL SIZE RANGE					
Hot Finish Seamless Pipe/Tubes		Cold Drawn Seamless Pipes/Tubes		Stainless Steel Mother Hollow	
Outer Diameter	33.40 mm to 114.00 mm	Outer Diameter	10.00 mm to 60.00 mm	Outer Diameter	55.00 mm to 76.00 mm
wall Thickness	4.00 mm to 16.50 mm	wall Thickness	2.00 mm to 6.00 mm	wall Thickness	5.50 mm to 8.00 mm
Length	Max. 8.50 meter	Length	Max. 12 meter	Length	Max. 4.5 meter

ASTM Schedule Sizes and weights

Nominal Pipe Size		OD mm	Schedule Wall Thickness (in mm)							
			Pipe Weight (in Kg/mtr)							
			SCH 5	SCH 10	STD	Sch 40	XS	Sch 80	Sch 160	XXS
6	1/8	10.30		1.24	1.73	1.73	2.41	2.41		
				0.28	0.37	0.37	0.47	0.47		
8	1/4	13.70		1.65	2.24	2.24	3.02	3.02		
				0.49	0.63	0.63	0.80	0.80		
10	3/8	17.10		1.65	2.31	2.31	3.20	3.20		
				0.63	0.84	0.84	1.10	1.10		
15	1/2	21.30	1.65	2.11	2.77	2.77	3.73	3.73	4.78	7.47
			0.80	1.00	1.27	1.27	1.62	1.62	1.95	2.55
20	3/4	26.70	1.65	2.11	2.87	2.87	3.91	3.91	5.56	7.82
			1.03	1.28	1.69	1.69	2.20	2.20	2.90	3.64
25	1	33.40	1.65	2.77	3.38	3.38	4.55	4.55	6.35	9.09
			1.29	2.09	2.50	2.50	3.24	3.24	4.24	5.45
32	1 1/4	42.20	1.65	2.77	3.56	3.56	4.85	4.85	6.35	9.70
			1.65	2.69	3.39	3.39	4.47	4.47	5.61	7.77
40	1 1/2	48.30	1.65	2.77	3.68	3.68	5.08	5.08	7.14	10.15
			1.90	3.11	4.05	4.05	5.41	5.41	7.25	9.56
50	2	60.30	1.65	2.77	3.91	3.91	5.54	5.54	8.74	11.07
			2.30	3.93	5.44	5.44	7.48	7.48	11.11	13.44
65	2 1/2	73.00	2.11	3.05	5.16	5.16	7.01	7.01	9.53	14.02
			3.69	5.26	8.63	8.63	11.41	11.41	14.92	20.39
80	3	88.90	2.11	3.05	5.49	5.49	7.62	7.62	11.13	15.24
			4.52	6.46	11.29	11.29	15.27	15.27	21.35	27.68
90	3 1/2	101.60	2.11	3.05	5.74	5.74	8.08	8.08		16.15
			5.16	7.39	13.57	13.57	18.63	18.63		33.95
100	4	114.30	2.11	3.05	6.02	6.02	8.56	8.56	13.49	17.12
			5.82	8.34	16.07	16.07	22.32	22.32	33.54	41.03

Note:

- Weights are specified for Plain End Pipes in Kg/m for reference Actual weight may differ.
- For Mechanical pipes, Please forward your enquiry to sales team for feasibility.

Specifications and Grades

Specification	Grade	Chemical Composition															Mechanical Properties				
		C		Mn		P	S	Si		Cr		Mo		Cu	Ni	V	Yield Strength		Tensile Strength		
		Min	Max	Min	Max	Max	Max	Min	Max	Min	Max	Min	Max	Max	Max	Max	PSI	Min. MPa	PSI	Min. MPa	
HYDROCARBON PROCESS INDUSTRY / STRUCTURAL / PRESSURE VESSEL TUBES																					
ASTM A-53	A	-	0.25	-	0.95	0.050	0.045	-	-	-	0.40	-	0.15	0.40 for S	0.40	0.08	30000	205	48000	330	e=625000 A02/U09
	B	-	0.30	-	1.20	0.050	0.045	-	-	-	0.40	-	0.15	0.40 for S	0.40	0.08	35000	240	60000	415	
ASTM A-106	A	-	0.25	0.27	0.93	0.035	0.035	0.10	-	-	0.40	-	0.15	0.40	0.40	0.08	30000	205	48000	330	35L/25T
	B	-	0.30	0.29	1.06	0.035	0.035	0.10	-	-	0.40	-	0.15	0.40	-	0.08	35000	240	60000	415	30L/16.5T
	C	-	0.35	0.29	1.06	0.035	0.035	0.10	-	-	0.40	-	0.15	0.40	-	0.08	40000	275	70000	485	30L/16.5T
ASTM A333 & A334	1	-	0.30	0.40	1.06	0.025	0.025	-	-	-	-	-	-	-	-	-	30000	205	55000	380	35
	6	-	0.30	0.29	1.06	0.025	0.025	0.10	-	-	-	-	-	-	-	-	35000	240	60000	415	30
Seamless Cold Drawn Precision Steel Tubes for mechanical Applications / Hydraulic / Pneumatic Power Systems																					
EN 10305-1/ EN1035-4	E 235		0.17		1.20	0.025	0.025		0.35							0.02		235		340	25
	E355		0.22		1.60	0.025	0.025		0.55							0.02		355		490	22
EN 10216-1	P195 TR1		0.13		0.70	0.025	0.020		0.35		0.30		0.08	0.30	0.30			195		320	27
	P235 TR1		0.16		1.20	0.025	0.020		0.35		0.30		0.08	0.30	0.30			235		360	25
EN 10216-2	P235 GH		0.16		1.20	0.025	0.020		0.35		0.30		0.08	0.30	0.30	0.02					
DIN 2391	ST 35	-	0.17	0.40	-	0.025	0.025	-	0.35	-	-	-	-	-	-	-	NBK:215 / GBK : -		NBK: 340 / GBK: 315		NBK:470
	ST 45	-	0.21	0.40	-	0.025	0.025	-	0.35	-	-	-	-	-	-	-	NBK:255 / GBK : -		NBK:440 / GBK: 390		NBK:570
	ST 52	-	0.22	-	1.60	0.025	0.025	-	0.55	-	-	-	-	-	-	-	NBK:355 / GBK : -		NBK:490 / GBK:490		NBK:630
ASTM A 519	SAE 1010	0.08	0.13	0.30	0.60	0.040	0.050	-	-	-	-	-	-	-	-	-	As per Customer Requirements				
	SAE 1018	0.15	0.20	0.60	0.90	0.040	0.050	-	-	-	-	-	-	-	-	-					
	SAE 1026	0.22	0.28	0.60	0.90	0.040	0.050	-	-	-	-	-	-	-	-	-					
	SAE 1035	0.32	0.38	0.60	0.90	0.040	0.050	-	-	-	-	-	-	-	-	-					
	SAE 1040	0.37	0.44	0.60	0.90	0.040	0.050	-	-	-	-	-	-	-	-	-					
	SAE 1518	0.15	0.21	1.10	1.40	0.040	0.050	-	-	-	-	-	-	-	-	-					
	SAE 1541	0.36	0.44	1.35	1.65	0.040	0.050	-	-	-	-	-	-	-	-	-					
	SAE 4130	0.28	0.33	0.40	0.60	0.040	0.040	0.15	0.35	0.80	1.10	0.15	0.25	-	-	-					
Boiler/ Heat Exchanger/ Superheater & Condenser Tubes																					
ASTM A179	-	0.06	0.18	0.27	0.63	0.035	0.035	-	-	-	-	-	-	-	-	-	26000	180	47000	325	35
ASTM A192		0.06	0.18	0.27	0.63	0.035	0.035	-	0.25	-	-	-	-	-	-	-	26000	180	47000	325	35
ASTM A 210	A-1	-	0.27	-	0.93	0.035	0.035	0.10	-	-	-	-	-	-	-	-	37000	255	60000	415	30
	C	-	0.35	0.29	1.06	0.035	0.035	0.10	-	-	-	-	-	-	-	-	40000	275	70000	485	30
ASTM A 213	T-11	0.05	0.15	0.30	0.60	0.025	0.025	0.50	1.00	1.00	1.50	0.44	0.65	-	-	-	30000	205	60000	415	30
	T-12	0.05	0.15	0.30	0.61	0.025	0.025	-	0.50	0.80	1.25	0.44	0.65	-	-	-	32000	220	60000	415	30
	T-22	0.05	0.15	0.30	0.60	0.025	0.025	-	0.50	1.90	2.60	0.87	1.13	-	-	-	30000	205	60000	415	30
ASTM A335	P-11	0.05	0.15	0.30	0.60	0.025	0.025	0.50	1.00	1.00	1.50	0.44	0.65	-	-	-	30000	205	60000	415	30
	P-12	0.05	0.15	0.30	0.61	0.025	0.025	-	0.50	0.80	1.25	0.44	0.65	-	-	-	32000	220	60000	415	30
	P-22	0.05	0.15	0.30	0.60	0.025	0.025	-	0.50	1.90	2.60	0.87	1.13	-	-	-	30000	205	60000	415	30
BS 3059 Pt I	320	-	0.16	0.30	0.70	0.040	0.040	0.10	0.35	-	-	-	-	-	-	-	28000	195	46000	320	69500
BS 3059 Pt II	622-490	0.08	0.15	0.40	0.70	0.030	0.030	-	0.50	2.00	2.50	0.9	1.2	-	-	-	40000	275	71000	490	93000
DIN 1629	St - 37.0	-	0.17	-	-	0.040	0.040	-	-	-	-	-	-	-	-	-	WT<=16mm = 235 / WT > 16mm = 225		350		-
	St - 52	-	0.22	-	-	0.040	0.035	-	-	-	-	-	-	-	-	-	WT<=16mm = 355 / WT > 16mm = 345		-		Long 21 / Trans 19
DIN 17175	St - 35.8	-	0.17	0.40	0.80	0.040	0.040	0.10	0.35	-	-	-	-	-	-	-	WT<=16mm = 235 / WT > 16mm = 225		360		480
	St - 45.8	-	0.21	0.40	1.20	0.040	0.040	0.10	0.35	-	-	-	-	-	-	-	WT<=16mm = 255 / WT > 16mm = 245		410		530