

**BLAZE**

ASTM A106 Seamless Steel Pipe

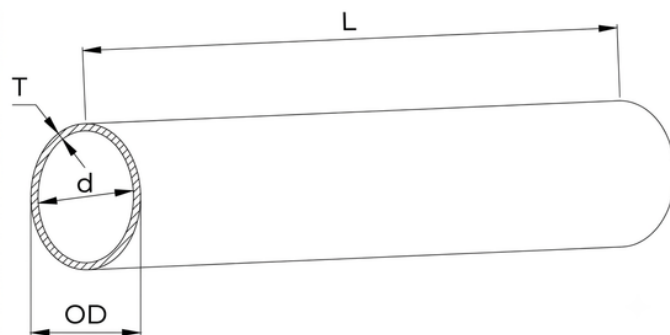
Description:

ASTM A106 Seamless Steel Pipe (SMLS) is manufactured by piercing a solid steel billet to form a hollow tube without any welded seam. This seamless construction provides superior strength and pressure resistance, making the pipe suitable for bending, cutting and other fabrication processes.

Manufactured in accordance with ASTM A106, seamless steel pipe is specifically designed for high-temperature and high-pressure service. It is widely used in power plants, boiler systems, fire protection pipelines, shipbuilding and other industrial applications where the safe transportation of fluids and gases under demanding operating conditions is required.

Specifications :

Size	1/2" to 12" (DN15 to DN300)
Working Pressure	20 Bar (300 psi)
Standard	ASTM A106, Grade B
End	Plain / Beveled / Grooved / Threaded
Finish	Galvanized / Black / Red / FBE Coated / Custom Coating / Lining Also available
Applications	Fire Standpipe, Fire Sprinkler Branch Pipe



Schedule 40 Pipe Size Chart :

Size			Thickness	Mass	Test Pressure
NPS	DN	OD(mm)	T(mm)	kg/m	MPa
1/2"	15	21.3	2.77	1.27	17.0
3/4"	20	26.7	2.87	1.69	17.0
1"	25	33.4	3.38	2.5	17.0
1-1/4"	32	42.2	3.56	3.39	17.0
1-1/2"	40	48.3	3.68	4.05	17.0
2"	50	60.3	3.91	5.44	17.0
2-1/2"	65	73	5.16	8.63	17.0
3"	80	88.9	5.49	11.29	17.0
4"	100	114.3	6.02	16.08	15.2
5"	125	141.3	6.55	21.77	13.4
6"	150	168.3	7.11	28.26	12.2
8"	200	219.1	8.18	42.55	10.8
10"	250	273	9.27	60.29	9.8
12"	300	323.8	10.31	79.71	9.2

Note:

1. For NPS 1/2" to 3/4" pipe, the manufacturing method is cold drawn.
2. For NPS 1" to 1- 1/2" pipe, the manufacturing method is cold drawn or hot rolled process.
3. For NPS 2" to 3" pipe, the manufacturing method is hot rolled 6-5/8" PQF mill.
4. For NPS 4" to 12" pipe, the manufacturing method is hot rolled 10-3/4" PQF mill.

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ASTM A106 Seamless Steel Pipe

Schedule 80 Pipe Size Chart :

Size			Thickness	Mass	Test Pressure
NPS	DN	OD(mm)	T(mm)	kg/m	MPa
1/2"	15	21.3	3.73	1.62	17.0
3/4"	20	26.7	3.91	2.2	17.0
1"	25	33.4	4.55	3.24	17.0
1-1/4"	32	42.2	4.85	4.47	17.0
1-1/2"	40	48.3	5.08	5.41	17.0
2"	50	60.3	5.54	7.48	17.0
2-1/2"	65	73	7.01	11.41	17.0
3"	80	88.9	7.62	15.27	17.0
4"	100	114.3	8.56	22.32	19.0
5"	125	141.3	9.53	30.97	19.0
6"	150	168.3	10.97	42.56	18.8
8"	200	219.1	12.7	64.64	16.7
10"	250	273	15.09	95.98	15.9
12"	300	323.8	17.48	132.05	15.5

Note:

1. For NPS 1/2" to 3/4" pipe, the manufacturing method is cold drawn.
2. For NPS 1" to 1- 1/2" pipe, the manufacturing method is cold drawn or hot rolled process.
3. For NPS 2" to 3" pipe, the manufacturing method is hot rolled 6-5/8" PQF mill.
4. For NPS 4" to 12" pipe, the manufacturing method is hot rolled 10-3/4" PQF mill.

Permissible Dimensional Variations :

Size			OD Tolerance	Thickness Tolerance		Remark
NPS	DN	OD(mm)	mm	Sch10 (mm)	Sch40 (mm)	
1/2"	15	21.3	20.9 ~ 21.7	2.42 ~ 3.32	3.26 ~ 4.48	1. For pipe ≤ NPS 1-1/2", OD tolerance is ±0.40mm. 2. For pipe NPS 1-1/2" to NPS 4", OD tolerance is ± 0.80mm. 3. For pipe NPS 4" to NPS 8", OD tolerance is - 0.80 / +1.6mm. 4. For pipe > NPS 8", OD tolerance is - 0.80 /+2.4mm. 5. The min thickness shall be not more than 12.5%. 6. The max weight shall be 20%, 22.5% or 15% as t/D ratio as per ASTM A530.
3/4"	20	26.7	26.3 ~ 27.1	2.51 ~ 3.44	3.42 ~ 4.69	
1"	25	33.4	33.0 ~ 33.8	2.96 ~ 4.06	3.98 ~ 5.46	
1-1/4"	32	42.2	41.8 ~ 42.6	3.12 ~ 4.27	4.24 ~ 5.82	
1-1/2"	40	48.3	47.9 ~ 48.7	3.22 ~ 4.42	4.45 ~ 6.10	
2"	50	60.3	59.5 ~ 61.1	3.42 ~ 4.69	4.85 ~ 6.65	
2-1/2"	65	73	72.2 ~ 73.8	4.52 ~ 6.19	6.13 ~ 8.41	
3"	80	88.9	88.1 ~ 89.7	4.80 ~ 6.31	6.67 ~ 8.76	
4"	100	114.3	113.5 ~ 115.2	5.27 ~ 7.37	7.49 ~ 9.84	
5"	125	141.3	140.5 ~ 142.9	5.73 ~ 8.02	8.34 ~ 10.96	
6"	150	168.3	167.5 ~ 169.9	6.22 ~ 8.71	9.60 ~ 12.62	
8"	200	219.1	218.3 ~ 220.7	7.16 ~ 10.02	11.11 ~ 14.61	
10"	250	273	272.2 ~ 275.4	8.11 ~ 11.36	13.20 ~ 17.35	
12"	300	323.8	323.0 ~ 326.2	9.02 ~ 12.63	15.30 ~ 21.41	

Note:

1. For fixed length, length tolerance is -0.0mm / +6.0mm, as ASTM A530.
2. The weight (mass) tolerance of unit pipe is -3.5% / +10%.
3. For pipe ≤ NPS 4", weight is measured as per bundle. For pipe > NPS 4", measured as per individual length.

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