

**BLAZE**

ASTM A53 Seamless Steel Pipe

Description:

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 excellent strength, making the pipe suitable for bending, cutting and other fabrication processes, while offering superior resistance to high operating pressures.

Manufactured in accordance with ASTM A53, seamless steel pipe is intended for pressure and mechanical applications and is widely used in oil, gas, steam, water and air distribution systems. It is also suitable for welding, bending and flanging, making it a reliable choice for a wide range of industrial and commercial piping applications.

Specifications :

Size	1/2" to 14" (DN15 to DN350)
Working Pressure	Up to 25 Bar
Standard	ASTM A53, Type S, Grade B
End	Plain (square cut) / Beveled to 30° / Roll groove as AWWA C606 / NPT thread as ANSI B1.20.1
Finish	Galvanized / Black / Red



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	4.8
3/4"	20	26.7	2.87	1.69	4.8
1"	25	33.4	3.38	2.5	4.8
1-1/4"	32	42.2	3.56	3.39	9
1-1/2"	40	48.3	3.68	4.05	9
2"	50	60.3	3.91	5.44	17.2
2-1/2"	65	73	5.16	8.63	17.2
3"	80	88.9	5.49	11.29	17.2
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	12.3
8"	200	219.1	8.18	42.55	10.8
10"	250	273	9.27	60.29	9.9
12"	300	323.8	10.31	79.71	9.2
14"	350	355.6	11.13	94.55	9

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.

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ASTM A53 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	5.9
3/4"	20	26.7	3.91	2.20	5.9
1"	25	33.4	4.55	3.24	5.9
1-1/4"	32	42.2	4.85	4.47	13.1
1-1/2"	40	48.3	5.08	5.41	13.1
2"	50	60.3	5.54	7.48	17.2
2-1/2"	65	73	7.01	11.41	17.2
3"	80	88.9	7.62	15.27	17.2
4"	100	114.3	8.56	22.32	19.3
5"	125	141.3	9.53	30.94	19.3
6"	150	168.3	10.97	42.56	18.9
8"	200	219.1	12.70	64.64	16.8
10"	250	273	15.09	95.97	16.0
12"	300	323.8	17.48	132.04	15.7
14"	350	355.6	19.05	158.10	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.
3. For NPS 2" to 12" pipe, the manufacturing method is hot rolled, produced using 6-5/8" PQF mill (Sizes 2" to 3") or 10-3/4" PQF mill (Sizes 4" to 14").

Permissible Dimensional Variations :

Size			OD Tolerance	Thickness Tolerance		Remark
NPS	DN	OD(mm)	mm	Sch40 (mm)	Sch80 (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 2", OD tolerance is ± 1%. 3. The minimum wall thickness at any point must not be more than 12.5% below the nominal wall thickness. 4. The max thickness is not defined in ASTM A53, and Blazetech refers to ASTM- A53 with 20%, 22.5% or 15% as t/d ratio.
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	59.7 ~ 60.9	3.42 ~ 4.69	4.85 ~ 6.65	
2-1/2"	65	73	72.3 ~ 73.7	4.52 ~ 6.19	6.13 ~ 8.41	
3"	80	88.9	88.0 ~ 89.8	4.80 ~ 6.31	6.67 ~ 8.76	
4"	100	114.3	113.2 ~ 115.4	5.27 ~ 7.37	7.49 ~ 9.84	
5"	125	141.3	139.9 ~ 142.7	5.73 ~ 8.02	8.34 ~ 10.96	
6"	150	168.3	166.6 ~ 170.0	6.22 ~ 8.71	9.60 ~ 12.62	
8"	200	219.1	216.9 ~ 221.3	7.16 ~ 10.02	11.11 ~ 14.61	
10"	250	273	270.3 ~ 275.7	8.11 ~ 11.36	13.20 ~ 17.35	
12"	300	323.8	320.6 ~ 327.0	9.02 ~ 12.63	15.30 ~ 21.41	
14"	350	355.6	352.0 ~ 359.2	9.74 ~ 13.63	16.67 ~ 23.34	

Note:

1. For exact lengths, the length tolerance is -0.0 mm / +6.0 mm.
2. The weight (mass) tolerance for an individual pipe is ±10%.
3. For pipes ≤ NPS 4", the weight is measured per bundle. For pipes > NPS 4", the weight is measured per individual length.

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