

Schedule 10

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•What is Schedule 10

Schedule 10 abbreviated as SCH 10. Schedule 10 is a specification standard for measuring the wall thickness of steel pipe. It is generally used in low to medium pressure fluid piping systems. The Schedule 10 standard is in accordance with ASME B36.10M and ASME B36.19M in the United States. These standards define dimensional criteria for carbon and stainless steel pipe, respectively. schedule 10 specifications have thinner wall thicknesses than schedule 40 and schedule 80 and are suitable for low-pressure applications.

Schedule 10 pipe dimensions are expressed through outside diameter (OD) and wall thickness (WT). As the OD increases, the wall thickness increases but remains thinner.

•Size of Schedule 10

Outside Diameter (OD)	Schedule 10 Thickness (mm)	Schedule 10 Thickness (inches)	Inside Diameter (ID) (mm)	Inside Diameter (ID) (inches)
1/2" (21.3 mm)	2.77	0.109	15.76	0.62
3/4" (26.7 mm)	2.87	0.113	21.96	0.865
1" (33.4 mm)	3.38	0.133	26.64	1.049
1-1/4" (42.2 mm)	3.56	0.14	35.08	1.38
1-1/2" (48.3 mm)	3.68	0.145	41.96	1.65
2" (60.3 mm)	3.91	0.154	52.48	2.064

2-1/2" (73.0 mm)	4.11	0.162	64.88	2.56
3" (88.9 mm)	4.5	0.177	80.89	3.19
4" (114.3 mm)	5.08	0.2	94.14	3.705
5" (141.3 mm)	5.49	0.216	130.26	5.13
6" (168.3 mm)	6.35	0.25	155.55	6.12
8" (219.1 mm)	7.11	0.28	205.88	8.115
10" (273.0 mm)	8.18	0.322	256.6	10.1
12" (323.9 mm)	8.76	0.345	306.28	12.065
14" (355.6 mm)	9.27 mm	0.365	337.72	13.305
16" (406.4 mm)	9.53 mm	0.375	367.34	14.462
18" (457.2 mm)	10.16 mm	0.4	436.88	17.187
20" (508.0 mm)	10.97 mm	0.432	486.06	19.125
24" (609.6 mm)	11.91 mm	0.468	586.28	23.086
30" (762.0 mm)	14.27 mm	0.561	733.46	28.878
36" (914.4 mm)	16.26 mm	0.64	881.48	34.703

●Pressure of Schedule 10

Maximum Allowable Pressure(psi)(kPa)		
NPS (in)	Outside Diameter (in) (mm)	Schedule 10
14	14	875
	356	6033
16	16	766
	406	5282
18	18	681
	457	4695
20	20	613
	508	4227
22	22	557
	559	3841
24	24	510
	610	3516
30	30	510
	762	3516
32	32	478
	813	3296

34	34	450
	864	3103
36	36	425
	914	2930

●Application of Schedule 10

Petrochemical industry: used to transport non-corrosive or weakly corrosive media (such as crude oil, refined oil, ordinary process water), suitable for medium and low pressure pipeline systems.

Municipal engineering: urban water supply and drainage, gas transmission branch pipelines, and non-strong acid and strong alkali environment pipelines in sewage treatment plants.

Mechanical manufacturing: as equipment structure support, hydraulic system pipelines, or shells of small and medium-sized pressure vessels.

Energy field: boiler pipes, thermal network branches, and auxiliary pipelines in solar energy and nuclear power projects