

Schedule 80

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•What is Schedule 80

Schedule 80 steel pipe are known for their robustness and durability, and play a vital role in a wide range of industries. Schedule 80 steel pipe specifications include materials/sizes and testing standards.

Common materials include PVC, CPVC, and metal alloys. Size variations follow nominal pipe sizes (NPS), ranging from 1/8 inch to 36 inches. Rigorous testing ensures compliance with industry standards to guarantee optimal performance. Schedule 80 steel pipes are commonly available in standard pipe sizes. Rigorous testing ensures compliance with industry standards and guarantees optimum performance. Schedule 80 steel pipes are commonly available in standard lengths, such as 21 feet or 6.4 meters. Custom lengths may be available based on project requirements.

•Size of Schedule 80

Nominal size [inches]	Outside diameter [inches]	Outside diameter [mm]	Wall thickness [inches]	Wall thickness [mm]	Weight [lb/ft]	Weight [kg/m]
1/8	0.405	10.3	0.095	2.41	0.31	0.47
1/4	0.54	13.7	0.119	3.02	0.54	0.8
1/2	0.84	21.3	0.147	3.73	1.09	1.62
3/4	1.05	26.7	0.154	3.91	1.47	2.2

2	2.375	60.3	0.218	5.54	5.02	7.48
2 1/2	2.875	73	0.276	7.01	7.66	11.41
3	3.5	88.9	0.3	7.62	10.25	15.27
3 1/2	4	101.6	0.318	8.08	12.5	18.63
4	4.5	114.3	0.337	8.56	14.98	22.32
5	5.563	141.3	0.375	9.53	20.78	30.97
6	6.625	168.3	0.432	10.97	28.57	42.56
8	8.625	219.1	0.5	12.7	43.39	64.64
10	10.75	273	0.594	15.09	64.43	96.01
12	12.75	323.8	0.688	17.48	88.63	132.08
14	14	355.6	0.75	19.05	106.13	158.1
16	16	406.4	0.844	21.44	136.61	203.53
18	18	457	0.938	23.83	170.92	254.55
20	20	508	1.031	26.19	208.87	311.17

●Pressure of Schedule 80

Maximum Allowable Pressure(psi)(kPa)		
NPS (in)	Outside Diameter (in) (mm)	Schedule 80
1/4	0.54	10798
	13.7	74452
1/2	0.84	8575
	21.3	59125
3/4	1.05	7187
	26.7	49554
1	1.315	6670
	33.4	45990
1 1/4	1.66	5638
	42.2	38874
1 1/2	1.9	5158
	48.3	35564
2	2.375	4498
	60.3	31014
2 1/2	2.875	4704
	73	32434

3	3.5	4200
	88.9	28959
3 1/2	4	3896
	102	26863
4	4.5	3670
	114	25305
5	5.563	3303
	141	22774
6	6.625	3195
	168	22030
8	8.625	2841
	219	19589
10	10.75	2708
	273	18672
12	12.75	2644
	324	18230
14	14	2625
	356	18099
16	16	2585
	406	17824
18	18	2553
	457	17603
20	20	2526
	508	17417
22	22	2506
	559	17279
24	24	2489
	610	17162

●Application of Schedule 80

Schedule 80 steel pipe is versatile, robust and suitable for a wide range of industries. In particular, Sch 80 steel pipe is ideal for use in chemical processing plants, the oil and gas industry, including transportation in harsh environments.

In the construction industry, too, Sch 80 is often found in industrial processes, steam systems, and construction projects with special load-bearing requirements that require robust construction due to its thicker wall and ability to withstand higher pressures.

In chemical processing, schedule 80 steel pipe corrosion-resistant and can withstand harsh chemicals.

Steam Systems, Schedule 80 steel tubing, is known for its strength and is often chosen for steam systems that require the highest level of ruggedness.