

Schedule 160

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•What is Schedule 160

Schedule 160 is an ASTM standard for pipe wall thickness. Schedule 160 is considered thick pipe wall thickness, second only to the double-strength XXH and XXS. Due to its thickness and excellent performance, this pipe can withstand extreme environments such as high temperature and high pressure, and is commonly used in industrial pipelines, wear-resistant steel pipes in mines and docks, and other fields.

•Size of Schedule 160

Nominal size / NPS (inches)	Outside diameter (inches)	Outside diameter (mm)	Wall thickness (inches)	Wall thickness (mm)	Weight [lb/ft]	Weight [kg/m]
1/2	0.84	21.3	0.188	4.78	1.31	1.95
3/4	1.05	26.7	0.219	5.56	1.94	2.9
1	1.32	33.4	0.25	6.35	2.84	4.24
1 1/4	1.66	42.2	0.25	6.35	3.76	5.61
1 1/2	1.9	48.3	0.281	7.14	4.86	7.25
2	2.375	60.3	0.344	8.74	7.46	11.11
2 1/2	2.875	73	0.375	9.53	10.01	14.92
3	3.5	88.9	0.438	11.13	14.32	21.35
4	4.5	114.3	0.531	13.49	22.51	33.54
5	5.563	141.3	0.625	15.88	32.96	49.11
6	6.625	168.3	0.719	18.26	45.35	67.56

8	8.625	219.1	0.906	23.01	74.69	111.27
10	10.75	273	1.125	28.58	115.64	172.33
12	12.75	323.8	1.312	33.32	160.27	238.76
14	14	355.6	1.406	35.71	189.11	281.7
16	16	406.4	1.594	40.49	245.25	365.35
18	18	457	1.781	45.24	308.5	459.37
20	20	508	1.969	50.01	379.17	564.81
22	22	559	2.125	53.98	451.06	672.26
24	24	610	2.344	59.54	542.13	808.22

●Pressure of Schedule 160

Maximum Allowable Pressure(psi)(kPa)		
NPS (in)	Outside Diameter (in) (mm)	Schedule 160
1/2	0.84	10908
	21.3	75211
3/4	1.05	10220
	26.7	70467
1	1.315	9316
	33.4	64234
1 1/4	1.66	7380
	42.2	50885
1 1/2	1.9	7247
	48.3	49968
2	2.375	7097
	60.3	48934
2 1/2	2.875	6391
	73	44066
3	3.5	6132
	88.9	42280
3 1/2	4	
	102	
4	4.5	5782
	114	39867
5	5.563	5505
	141	37957

6	6.625	5318
	168	36668
8	8.625	5147
	219	35489
10	10.75	5128
	273	35358
12	12.75	5042
	324	34765
14	14	4921
	356	33930
16	16	4882
	406	33661
18	18	4848
	457	33427
20	20	4824
	508	33261
22	22	4733
	559	32634
24	24	4786
	610	32999

●Application of Schedule 160

● Power station boiler system

Suitable for main steam piping design, need to meet ASME B31.1 power piping code, recommended ASTM A335 P11/P22 alloy steel pipe.

● Offshore platform structure

As a high-pressure hydraulic pipeline for conduit racks, it needs to be certified by DNVGL-OS-F101, and the wall thickness tolerance is controlled within $\pm 10\%$.

● Oil and gas transportation

As a high-pressure gathering pipeline, Sch160 pipe can withstand the pulse pressure in shale gas extraction, recommended to use API 5L X60 or above materials and supporting 3PE anti-corrosion layer.

● Chemical Process System

In acidic and alkaline environments, it is recommended to choose ASTM A312 Sch160 stainless

steel composite pipe, taking into account the needs of pressure resistance and corrosion resistance.