

Schedule 20

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•What is Schedule 20

Schedule 20 is a very common wall thickness specification for steel pipes. Sch20 is a representation of the American standard steel pipe size and belongs to the British pipe wall thickness series. Widely used in petroleum, chemical and other fields.

Compared with the pipe of sch40, sch80 and other specifications, the pipe of this specification has a different outside diameter and belongs to the thin pipe wall series. It has lower weight and higher fluid transfer efficiency, while also sacrificing bearing capacity to a certain extent.

•Size of Schedule 20

Nominal size [inch]	Outside diameter [inch]	Outside diameter [mm]	Wall thickness [inch]	Wall thickness [mm]	Weight [lb/ft]	Weight [kg/m]
3/4	1.050	26.67	0.065	1.65	1.021	1.52
1	1.315	33.4	0.065	1.65	1.68	2.5
1-1/4	1.660	42.16	0.065	1.65	2.28	3.4
1-1/2	1.900	48.26	0.065	1.65	2.68	3.99

2	2.375	60.32	0.065	1.65	3.69	5.48
2-1/2	2.875	73.03	0.083	2.11	5.80	8.63
3	3.500	88.90	0.083	2.11	5.69	8.46
3-1/2	4.000	101.60	0.083	2.11	5.79	8.61
4	4.500	114.30	0.083	2.11	7.40	10.99
6	6.625	168.28	0.109	2.77	13.67	20.34
8	8.625	219.08	0.109	2.77	21.421	31.85
8	8.625	219.1	0.250	6.35	22.36	33.31
10	10.750	273.0	0.250	6.35	28.04	41.77
12	12.750	323.8	0.250	6.35	33.38	49.73
14	14.000	355.6	0.312	7.92	45.61	67.90
16	16.000	406.4	0.312	7.92	52.27	77.83
18	18.000	457.0	0.312	7.92	58.94	87.71
20	20.000	508.0	0.375	9.53	78.60	117.15
22	22.000	559.0	0.375	9.53	86.61	129.13
24	24.000	610.0	0.375	9.53	94.62	141.12
26	26.000	660.0	0.500	12.70	136.17	202.72
28	28.000	711.0	0.500	12.70	146.85	218.69
30	30.000	762.0	0.500	12.70	157.53	234.67
32	32.000	813.0	0.500	12.70	168.21	250.64
34	34.000	864.0	0.500	12.70	178.89	266.61
36	36.000	914.0	0.500	12.70	189.57	282.27

●Pressure of Schedule 20

Maximum Allowable Pressure(psi)(kPa)		
NPS (in)	Outside Diameter (in) (mm)	Schedule 20
8	8.625	1420
	219	9791
10	10.75	1140
	273	7860
12	12.75	961
	324	6626
14	14	1092
	356	7529
16	16	956
	406	6592
18	18	849
	457	5854
20	20	919
	508	6337
22	22	835
	559	5757
24	24	766
	610	5282
30	30	817
	762	5633
32	32	766
	813	5282
34	34	721
	864	4971
36	36	681
	914	4695
42	42	583
	1067	4020

●Application of Schedule 20

SCH 20 piping is suitable for low pressure working environments. Commonly used for:

- Water supply and drainage systems: such as fire protection systems and certain industrial cooling water circulation systems.
- Oil and Gas: The sch20 pipeline serves as an auxiliary pipeline for media such as fresh water and nitrogen in oilfield water injection systems, natural gas distribution stations, and small liquefied natural gas (LNG) storage facilities.
- Food processing and pharmaceutical industry: sch20 pipeline can meet the requirements of corrosion resistance after surface treatment such as galvanized, responsible for the transportation of raw materials and semi-finished products.

Sch 20 Steel Pipe occupies an important position in the steel industry with its unique performance characteristics and wide application fields. With the continuous development of the global economy and the continuous progress of technology, the market prospect of Sch 20 steel pipe will be broader.