

Schedule 40

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•What is Schedule 40

Schedule 40 is a medium-pressure pipe, adapted to medium pressure scenarios, and is the most widely used. , its dimensions include but are not limited to the outer diameter (O.D.), inner diameter (I.D.), wall thickness and mass per foot of pipe. Together, these parameters affect the physical properties of pipes and their performance in practical applications.

•Size of Schedule 40

Nominal size [inches]	schedule 40 OD [in inches]	schedule 40 OD [in mm]	schedule 40 thickness [in inches]	schedule 40 Wall thickness [in mm]	Weight [lb/ft]	Weight [kg/m]
1/8	0.405	10.3	0.068	1.73	0.24	0.37
1/4	0.54	13.7	0.088	2.24	0.42	0.84
1/2	0.84	21.3	0.109	2.77	0.85	1.27
3/4	1.05	26.7	0.113	2.87	1.13	1.69
1	1.315	33.4	0.133	3.38	1.68	2.5
1.25	1.66	42.2	0.14	3.56	2.27	3.39
1.5	1.9	48.3	0.145	3.68	2.72	4.05
2	2.375	60.3	0.154	3.91	3.65	5.44
2.5	2.875	73	0.203	5.16	5.79	8.63
3	3.5	88.9	0.216	5.49	7.58	11.29
3.5	4	101.6	0.226	5.74	9.11	13.57
4	4.5	114.3	0.237	6.02	10.79	16.07
5	5.563	141.3	0.258	6.55	14.62	21.77

6	6.625	168.3	0.28	7.11	18.97	28.26
8	8.625	219.1	0.322	8.18	28.55	42.55
10	10.75	273	0.365	9.27	40.48	60.31
12	12.75	323.8	0.406	10.31	53.52	79.73
14	14	355.6	0.375	11.13	54.57	94.55
16	16	406.4	0.5	12.7	82.77	123.3
18	18	457	0.562	14.27	104.67	155.8
20	20	508	0.594	15.09	123.11	183.42
24	24	610	0.688	17.48	171.29	255.41

●Pressure of Schedule 40

Maximum Allowable Pressure(psi)(kPa)		
NPS (in)	Outside Diameter (in) (mm)	Schedule 40
1/4	0.54	7985
	13.7	55057
1/2	0.84	6358
	21.3	43838
3/4	1.05	5273
	26.7	36357
1	1.315	4956
	33.4	34172
1 1/4	1.66	4133
	42.2	28497
1 1/2	1.9	3739
	48.3	25780
2	2.375	3177
	60.3	21905
2 1/2	2.875	3460
	73	23857
3	3.5	3024
	88.9	20850
3 1/2	4	2769
	102	19092
4	4.5	2581
	114	17796

5	5. 563	2273
	141	15672
6	6. 625	2071
	168	14280
8	8. 625	1829
	219	12611
10	10. 75	1664
	273	11473
12	12. 75	1560
	324	10756
14	14	1533
	356	10570
16	16	1531
	406	10556
18	18	1530
	457	10549
20	20	1455
	508	10032
24	24	1405
	610	9687
32	32	1054
	813	7267
34	34	992
	864	6840
36	36	1021
	914	7040
42	42	875
	1067	6033

●Application of Schedule 40

Schedule 40 steel pipes are used in a wide range of industries.

- Such as urban water supply, gas, heat and other systems in municipal engineering, Schedule 40 pipe is suitable for transporting various fluid media.
- In the industrial oil, gas, chemical, and pharmaceutical industries, Schedule 40 pipes are

cost-effective for transporting a wide range of corrosive media and high-pressure gases.

- In the water supply, drainage, fire fighting, and other systems of civil buildings, it transmits clean water, sewage and fire fighting water.