Pipe Nipple Dimensions Reference Chart

Nominal Pipe Size 1/8" – 12" | Outside diameter & Schedule 40 / Schedule 80 wall thickness per ASTM A53 | Thread data per ANSI/ASME B1.20.1 (NPT)

NPS	OD (in)	Sch 40 Wall (in)	Sch 80 Wall (in)	TPI	Thread Pitch (in)	Eff. Thread Length L2 (in)
1/8	0.405	0.068	0.095	27	0.0370	0.1615
1/4	0.540	0.088	0.119	18	0.0556	0.2278
3/8	0.675	0.091	0.126	18	0.0556	0.2400
1/2	0.840	0.109	0.147	14	0.0714	0.3200
3/4	1.050	0.113	0.154	14	0.0714	0.3390
1	1.315	0.133	0.179	11.5	0.0870	0.4000
1-1/4	1.660	0.140	0.191	11.5	0.0870	0.4200
1-1/2	1.900	0.145	0.200	11.5	0.0870	0.4200
2	2.375	0.154	0.218	11.5	0.0870	0.4360
2-1/2	2.875	0.203	0.276	8	0.1250	0.6820
3	3.500	0.216	0.300	8	0.1250	0.7660
3-1/2	4.000	0.226	0.318	8	0.1250	0.8210
4	4.500	0.237	0.337	8	0.1250	0.8440
5	5.563	0.258	0.375	8	0.1250	0.9370
6	6.625	0.280	0.432	8	0.1250	0.9580
8	8.625	0.322	0.500	8	0.1250	1.0630
10	10.750	0.365	0.594	8	0.1250	1.2100
12	12.750	0.406	0.687	8	0.1250	1.3600

Notes

• OD and wall thickness per ASTM A53, Schedule 40 and Schedule 80. 12" Schedule 40 wall (0.406") differs from the older STD-weight designation (0.375").
• TPI, thread pitch, and effective thread length (L2) are per ANSI/ASME B1.20.1, American National Standard Taper Pipe Thread (NPT). L2 is the hand-tight engagement length of the external taper thread, not the full machined nipple thread length, which varies by nipple style (close, short, standard, long).
• Reference only — verify critical dimensions against the governing standard or mill/nipple manufacturer certification before use in fabrication or procurement specifications.