

Brass Pipe Nipple Dimensions Reference Chart

Nominal Pipe Size 1/8" – 6" | Outside diameter & Regular / Extra Strong wall thickness per ASTM B43 (Seamless Red Brass Pipe, Alloy C23000) | Thread data per ANSI/ASME B1.20.1 (NPT)

NPS	OD (in)	Regular Wall (in)	Extra Strong Wall (in)	TPI	Thread Pitch (in)	Eff. Thread Length L2 (in)
1/8	0.405	0.062	0.100	27	0.0370	0.1615
1/4	0.540	0.082	0.123	18	0.0556	0.2278
3/8	0.675	0.090	0.127	18	0.0556	0.2400
1/2	0.840	0.107	0.149	14	0.0714	0.3200
3/4	1.050	0.114	0.157	14	0.0714	0.3390
1	1.315	0.126	0.182	11.5	0.0870	0.4000
1-1/4	1.660	0.146	0.194	11.5	0.0870	0.4200
1-1/2	1.900	0.150	0.203	11.5	0.0870	0.4200
2	2.375	0.156	0.221	11.5	0.0870	0.4360
2-1/2	2.875	0.187	0.280	8	0.1250	0.6820
3	3.500	0.219	0.304	8	0.1250	0.7660
3-1/2	4.000	0.250	0.321	8	0.1250	0.8210
4	4.500	0.250	0.341	8	0.1250	0.8440
6	6.625	0.250	0.437	8	0.1250	0.9580

Notes

- OD and wall thickness per ASTM B43, Seamless Red Brass Pipe (Copper Alloy UNS C23000), Regular and Extra Strong wall.
- TPI, thread pitch, and effective thread length (L2) are per ANSI/ASME B1.20.1, American National Standard Taper Pipe Thread (NPT) — the same thread standard used for steel pipe, since NPT threading is independent of pipe material. 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.