

National Standard Taper Pipe (NPT) Threads Size Chart

Nominal size (inside diameter)	Actual OD	Threads per inch	Length of engagement (tightened by hand)	Hand tight turns	Wrench makeup turns	Length of effective thread
1/16	0.3125	27	0.16			0.2611
1/8	0.405	27	0.18	4½	2½	0.26
1/4	0.54	18	0.2	4	3	0.401
3/8	0.675	18	0.24	4½	3	0.408
1/2	0.84	14	0.32	4½	3	0.534
3/4	1.05	14	0.34	4½	3	0.546
1	1.315	11.5	0.4	4½	3¼	0.682
1¼	1.66	11.5	0.42	4½	3¼	0.707
1½	1.9	11.5	0.42	4½	3¼	0.724
2	2.375	11.5	0.436	5	3	0.756
2½	2.875	8	0.682	5½	3	1.136
3	3.5	8	0.766	6	3	1.2
3½	4	8	0.821	6½	3½	1.25
4	4.5	8	0.844	6¾	3½	1.3
5	5.563	8	0.937	7½	3¾	1.4063