

Pipe thread sizes – BSP Threads

A list of 15 thread sizes are defined by the standards, ranging from 1/16" to 6". The size number was originally based on the inner diameter measured in inches (25.4 mm) of a steel tube for which the thread was intended, but is in the modern metric version of the standard simply a size number.

Thread size BSP	Threads per inch	Pitch [mm]	Major diameter of the thread	Gauge length [mm]	Corresponding pipe			
			[mm] Measured across the male thread		DN	OD [mm]	OD [in]	Thickness [mm]
1/16	28	0.907	7.723	4				
1/8	28	0.907	9.728	4	6	10.2	0.40	2
1/4	19	1.337	13.157	6	8	13.5	0.53	2.3
3/8	19	1.337	16.662	6.4	10	17.2	0.68	2.3
1/2	14	1.814	20.995	8.2	15	21.3	0.84	2.6
3/4	14	1.814	26.441	9.5	20	26.9	1.06	2.6
1	11	2.309	33.249	10.4	25	33.7	1.33	3.2
1¼	11	2.309	41.910	12.7	32	42.4	1.67	3.2
1½	11	2.309	47.803	12.7	40	48.3	1.90	3.2
2	11	2.309	59.614	15.9	50	60.3	2.37	3.6
2½	11	2.309	75.184	17.5	65	76.1	3.00	3.6
3	11	2.309	87.884	20.6	80	88.9	3.50	4
4	11	2.309	113.030	25.5	100	114.3	4.50	4.5
5	11	2.309	138.430	28.6	125	139.7	5.50	5
6	11	2.309	163.830	28.6	150	165.1	6.50	5

The major diameter listed is the outer diameter of the external thread. For a taper thread, it is the diameter at the "gauge length" from the small end of the thread. The taper is "1 to 16", meaning that for each 16 mm increase in the distance from the end, the diameter increases by 1 mm.