

Imperial thread size chart

BSW / BSF / UNC / UNF

Selected fractional bolt sizes, 1/8 to 1 1/2 inch. Diameter is nominal, measured across an external thread's crests - not the spanner opening or a pipe size.

Nominal bolt diameter (in)	Nominal diameter (mm)	BSW TPI / 55°	BSF TPI / 55°	UNC TPI / 60°	UNF TPI / 60°
1/8	3.175	40	-	-	-
3/16	4.763	24	32	-	-
7/32	5.556	-	28	-	-
1/4	6.350	20	26	20	28
9/32	7.144	-	26	-	-
5/16	7.938	18	22	18	24
3/8	9.525	16	20	16	24
7/16	11.113	14	18	14	20
1/2	12.700	12	16	13	20
9/16	14.288	12	16	12	18
5/8	15.875	11	14	11	18
11/16	17.463	11	14	-	-
3/4	19.050	10	12	10	16
7/8	22.225	9	11	9	14
1	25.400	8	10	8	12
1 1/8	28.575	7	9	7	12
1 1/4	31.750	7	9	7	12
1 3/8	34.925	-	8	6	12
1 1/2	38.100	6	8	6	12

TPI = threads per inch. - = not included in this source-backed selection; it does not mean no such thread exists. Millimetres are rounded to 0.001 mm using 25.4 mm/in; these conversions are not manufacturing tolerances.

Match the form, not just the pitch. BSW and BSF use the 55° Whitworth form; UNC and UNF use the 60° Unified form. Equal diameter and TPI do not make Whitworth and Unified threads interchangeable. At 1/2 inch, BSW is 12 TPI and UNC is 13 TPI.

Sources checked 14 October 2026: BAER BaerCoil designation tables (BSW, BSF, UNC, UNF), cross-checked against Goliath catalogue, printed p.58; forms checked against GSR handbook, p.9. Source links and full scope are on the online guide. This is a lookup reference, not a tolerance, tapping-drill or stock chart.