

BRITISH THREADS

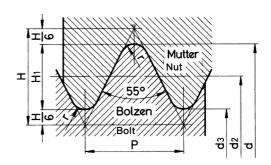
WHITWORTH FORM	NON - WHITWORTH FORM				
BSW - British Standard Whitworth Thread	BA - British Association (Miniature Thread)				
BSF - British Standard Fine Thread					
BSP - British Standard Pipe Thread (Parallel)					
BSPT - British Standard Pipe Thread (Tapered)					

Technical Data BRITISH SCREW THREADS - BSW & BSF FORMS

REF.: BS 84: 1956

BSW: British Standard Whitworth Thread after its introduction in 1841, was rapidly adopted throughout England and the continent.

BSF: British Standard Fine Thread is a second series which was established in 1908 to meet the needs of additional engineering activity.



Basic Whitworth thread forms have the following proportions:

Thread Angle: 55°
Depth of Thead h: 0.64033 P
P = Pitch

Shortening at crest and roots: 1/6 H = 0.16008 P Triangular Height H: 0.96049 P Flank Angle: 27 1/2° Radius at crest and root r: 0.13733 P

BSW - Basic Sizes

BSF - Basic Sizes

DOW - Dasic Cizes					Boi Basio Gizes					
NOM. DIA.	THREADS	MAJOR	EFFECT.	MINOR	NOM. DIA.	THREADS	MAJOR	EFFECT.	MINOR	
Inch	Per Inch	DIA. Inch	DIA. Inch	DIA. Inch	Inch	Per Inch	DIA. Inch	DIA. Inch	DIA. Inch	
1/8	40	.1250	.1090	.0930	3/16	32	.1875	.1675	.1475	
3/16	24	.1875	.1608	.1314	7/32	28	.2188	.1959	.1730	
1/4	20	.2500	.2180	.1860	1/4	26	.2500	.2254	.2008	
5/16	18	.3125	.2769	.2413	9/32	26	.2812	.2566	.2320	
3/8	16	.3750	.3350	.2950	5/16	22	.3125	.2834	.2543	
7/16	14	.4375	.3918	.3461	3/8	20	.3750	.3430	.3110	
1/2	12	.5000	.4466	.3932	7/16	18	.4375	.4019	.3663	
9/16	12	.5625	.5091	.4557	1/2	16	.5000	.4600	.4200	
5/8	11	.6250	.5668	.5086	9/16	16	.5625	.5225	.4825	
11/16	11	.6875	.6293	.5711	5/8	14	.6250	.5793	.5336	
3/4	10	.7500	.6860	.6220	11/16	14	.6875	.6418	.5961	
7/8	9	.8750	.8039	.7328	3/4	12	.7500	.6966	.6432	
1	8	1.0000	.9200	.8400	13/16	12	.8125	.7591	.7057	
1 1/8	7	1.1250	1.0335	.9420	7/8	11	.8750	.8168	.7586	
1 1/4	7	1.2500	1.1585	1.0670	1	10	1.0000	.9360	.8720	
1 1/2	6	1.5000	1.3933	1.2866	1 1/8	9	1.1250	1.0539	.9828	
1 3/4	5	1.7500	1.6219	1.4938	1 1/4	9	1.2500	1.1789	1.1078	
2	4.5	2.0000	1.8577	1.7154	1 3/8	8	1.3750	1.2950	1.2150	
					1 1/2	8	1.5000	1.4200	1.3400	
					1 5/8	8	1.6250	1.5450	1.4650	
					1 3/4	7	1.7500	1.6585	1.5670	
					2	7	2.0000	1.9085	1.8170	