

## B.S.F. SCREW THREADS

DIA. OF BOLT (INCH)	THREADS PER INCH	DIA. TAP DRILL (INCH)	CORE DIA.	AREA AT THD. ROOT SQ. IN.	PITCH DIAMETER				HEX.		NUT THICKNESS (MEAN)
					NUT		BOLT		FLATS (MEAN)	CORNERS	
					MAX.	MIN.	MAX.	MIN.			
7/32	28	.1770	.1731	.0235	.2018	.1980	.1960	.1922	.412	.48	.166
1/4	26	.2055	.2007	.0316	.2313	.2274	.2254	.2215	.442	.51	.195
9/32	26	.238	.2320	.0423	.2625	.0586	.2565	.2527			
5/16	22	.261	.2543	.0508	.2897	.2854	.2834	.2791	.522	.61	.245
3/8	20	.316	.3110	.0760	.3495	.3450	.3430	.3385	.597	.69	.307
7/16	18	3/8	.3664	.1054	.4086	.4039	.4019	.3372	.707	.82	.370
1/2	16	27/64	.4200	.1385	.4670	.4620	.4600	.4550	.817	.95	.432
9/16	16	.492	.4825	.1828	.5295	.5245	.5225	.5175	.917	1.06	.495
5/8	14	35/64	.5335	.2235	.5866	.5813	.5793	.5740	1.006	1.17	.557
11/16	14	39/64	.5960	.2790	.6491	.6438	.6418	.6365	1.096	1.27	.620
3/4	12	21/32	.6433	.3250	.7044	.6986	.6966	.6908	1.196	1.39	.682
13/16	12	23/32	.7058	.3913	.7669	.7611	.7591	.7533			
7/8	11	25/32	.7586	.4520	.8248	.8188	.8168	.8108	1.296	1.50	.745
1	10	57/64	.8719	.5971	.9443	.9380	.9360	.9297	1.474	1.71	.870
1-1/8	9	1	.9827	.7585	1.0626	1.0559	1.0539	1.0472	1.664	1.98	.995
1-1/4	9	1-1/8	1.1077	.9637	1.1876	1.1809	1.1789	1.1722	1.852	2.15	1.115
1-3/8	8	1-15/64	1.2149	.1593	1.3041	1.2970	1.2950	1.2879	2.042	2.37	1.240
1-1/2	8	1.358	1.3399	.4100	1.4291	1.4220	1.4200	1.4129	2.210	2.56	1.365
1-5/8	8	1-31/64	1.4649	1.6854	1.5541	1.5470	1.5450	1.5379	2.400	2.78	1.400

## B.S.W. SCREW THREADS

DIA. OF BOLT (INCH)	THREADS PER INCH	DIA. TAP DRILL (INCH)	CORE DIA.	AREA AT THD. ROOT SQ. IN.	PITCH DIAMETER				HEX.		NUT THICKNESS (.005)
					NUT		BOLT		FLATS (MEAN)	CORNERS	
					MAX.	MIN.	MAX.	MIN.			
1/4	20	.1968	.1860	.0272	.2245	.2200	.2180	.2135	.522	.61	.245
5/16	18	1/4	.2412	.0458	.2836	.2789	.2769	.2722	.597	.69	.307
3/8	16	5/16	.2950	.0683	.3420	.3370	.3350	.3300	.707	.82	.370
7/16	14	23/64	.3460	.0940	.3991	.3938	.3918	.3865	.817	.95	.432
1/2	12	13/32	.3933	.1215	.4544	.4486	.4466	.4408	.917	1.06	.495
9/16	12	15/32	.4558	.1632	.5169	.5111	.5091	.5033	1.006	1.17	.557
5/8	11	17/32	.5086	.2032	.5748	.5688	.5668	.5608	1.096	1.27	.620
11/16	11	37/64	.5711	.2562		.6313	.6293		1.196	1.39	.682
3/4	10	41/64	.6219	.3038	.6943	.6880	.6860	.6797	1.296	1.50	.745
13/16	10	45/64	.6844	.3679		.7506	.7485				
7/8	9	3/4	.7327	.4216	.8126	.8059	.8039	.7972	1.474	1.71	.870
15/16	9	13/16	.7952	.4966		.8684	.8664				
1	8	55/64	.8399	.5540	.9291	.9220	.9200	.9129	1.664	1.93	.995

## B.S.C. SCREW THREADS

DIA. OF BOLT (INCH)	THDS. PER INCH		PITCH (INCH)	DEPTH OF THREAD (INCH)	BASIC DIAMETERS (INCH)		
	NORMAL SERIES	20 T.P.I. SERIES			MAJOR	EFFECTIVE	MINOR
1/8	40		0.02500	0.0133	0.1250	0.1117	0.0984
5/32	32		0.03125	0.0166	0.1563	0.1397	0.1231
3/16	32		0.03125	0.0166	0.1875	0.1709	0.1543
7/32	26		0.03846	0.0205	0.2188	0.1983	0.1778
1/4	26		0.03846	0.0205	0.2500	0.2295	0.2090
9/32	26		0.03846	0.0205	0.2813	0.2608	0.2403
5/16	26		0.03846	0.0205	0.3125	0.2920	0.2715
3/8	26		0.03846	0.0205	0.3750	0.3545	0.3340
7/16	26		0.03846	0.0205	0.4375	0.4170	0.3965
		20	0.05000	0.0266	0.4375	0.4109	0.3843
1/2	26		0.03846	0.0205	0.5000	0.4795	0.4590
		20	0.05000	0.0266	0.5000	0.4734	0.4468
9/16	26		0.03846	0.0205	0.5625	0.5420	0.5215
		20	0.05000	0.0266	0.5625	0.5359	0.5093
5/8	26		0.03846	0.0205	0.6250	0.6045	0.5840
		20	0.05000	0.0266	0.6250	0.5984	0.5718
11/16	26		0.03846	0.0205	0.6875	0.6670	0.6465
		20	0.05000	0.0266	0.6875	0.6609	0.6343
3/4	26		0.03846	0.0205	0.7500	0.7295	0.7090
		20	0.05000	0.0266	0.7500	0.7234	0.6968

B.A. SCREW THREADS

NO.	DIA. OF BOLT	THDS. PER INCH	DIA. TAP DRILL	CORE DIA.	AREA AT THD. ROOT SQ. IN.	PITCH DIAMETER				HEX.		NUT THICKNESS
						NUT		BOLT		FLATS	CORNERS	
						MAX.	MIN.	MAX.	MIN.			
0	.2362	25.4	.1960	.1890	.0281	.2165	.2126	.2126	.2087	.413	.47	.236
1	.2087	28.2	.1770	.1661	.0217	.1908	.1875	.1873	.1838	.365	.43	.209
2	.1850	31.4	.1520	.1468	.0169	.1693	.1659	.1659	.1626	.324	.37	.185
3	.1614	34.8	.1360	.1269	.0126	.1472	.1441	.1441	.1409	.282	.33	.161
4	.1417	38.5	.1160	.1106	.0096	.1290	.1261	.1261	.1231	.248	.29	.142
5	.1260	43.0	.1040	.0981	.0075	.1147	.1119	.1119	.1091	.220	.25	.126
6	.1102	47.9	.0935	.0852	.0057	.1000	.0976	.0976	.0953	.193	.22	.110
7	.0984	52.9	.0810	.0738	.0045	.0893	.0869	.0869	.0845	.172	.20	.098
8	.0866	59.1	.0730	.0663	.0034	.0785	.0764	.0764	.0742	.152	.18	.087
9	.0748	65.1	.0635	.0564	.0025	.0675	.0656	.0656	.0636	.131	.15	.075
10	.0669	72.6	.0550	.0504	.0021		.0587	.0587		.117	.14	.067
11	.0591	81.9	.0465	.0445	.0016					.103	.12	.059
12	.0511	90.9	.0400	.0378	.0011					.090	.10	.051
13	.0472	102.0	.0360	.0352	.0010					.083	.09	.047
14	.0394	109.9	.0292	.0280	.0006					.069	.08	.039
15	.0354	120.5	.0260	.0250	.0005					.061	.07	.035
16	.0311	133.3	.0225	.0220	.0004							

MILES PER GALLON (IMPERIAL) TO LITRES PER 100 KILOMETRES

10	28.25	15	18.83	20	14.12	25	11.30	30	9.42	35	8.07	40	7.06	50	5.65	60	4.71	70	4.04
10½	26.90	15½	18.22	20½	13.78	25½	11.08	30½	9.26	35½	7.96	41	6.89	51	5.54	61	4.63	71	3.98
11	25.68	16	17.66	21	13.45	26	10.87	31	9.11	36	7.85	42	6.73	52	5.43	62	4.55	72	3.92
11½	24.56	16½	17.12	21½	13.14	26½	10.66	31½	8.97	36½	7.74	43	6.57	53	5.33	63	4.48	73	3.87
12	23.54	17	16.61	22	12.84	27	10.46	32	8.83	37	7.63	44	6.42	54	5.23	64	4.41	74	3.82
12½	22.60	17½	16.14	22½	12.55	27½	10.27	32½	8.69	37½	7.53	45	6.28	55	5.13	65	4.35	75	3.77
13	21.73	18	15.69	23	12.28	28	10.09	33	8.56	38	7.43	46	6.14	56	5.04	66	4.28	76	3.72
13½	20.92	18½	15.27	23½	12.02	28½	9.91	33½	8.43	38½	7.34	47	6.01	57	4.96	67	4.22	77	3.67
14	20.18	19	14.87	24	11.77	29	9.74	34	8.31	39	7.24	48	5.89	58	4.87	68	4.16	78	3.62
14½	19.48	19½	14.49	24½	11.53	29½	9.58	34½	8.19	39½	7.15	49	5.77	59	4.79	69	4.10	79	3.57

GALLONS (IMPERIAL) TO LITRES

	0	1	2	3	4	5	6	7	8	9	
—		4.546	9.092	13.638	18.184	22.730	27.276	31.822	36.368	40.914	—
10	45.460	50.005	54.551	59.097	63.643	68.189	72.735	77.281	81.827	86.373	10
20	90.919	95.465	100.011	104.557	000.000	113.649	118.195	122.741	127.287	131.833	20
30	136.379	140.924	145.470	150.016	000.000	159.108	163.645	168.200	172.746	177.292	30
40	181.838	186.384	190.930	195.476	200.022	204.568	209.114	213.660	218.206	222.752	40
50	227.298	231.843	236.389	240.935	245.481	250.027	254.573	259.119	263.605	268.211	50
60	272.757	277.303	281.849	286.395	290.941	295.487	300.033	304.579	309.125	313.671	60
70	318.217	322.762	327.308	331.854	336.400	340.946	345.492	350.038	354.584	359.130	70
80	363.676	368.222	372.768	377.314	381.860	386.406	390.952	395.498	400.044	404.590	80
90	409.136	413.681	418.227	422.773	427.319	431.865	436.411	440.957	445.503	450.049	90