

BASIC THREAD DIMENSIONS USCTI TABLE 352

Normal Size and TPI		Basic Major Diameter	Basic Pitch Diameter	Basic Minor Diameter	Max Minor Diameter Class 3B Internal Thread	Normal Size and TPI		Basic Major Diameter	Basic Pitch Diameter	Basic Minor Diameter	Max Minor Diameter Class 3B Internal Thread
1/16	64	.0625	.0524	.0422	.0518	7/8	9	0.8750	0.8028	0.7307	.7681
3/32	48	.0938	.0803	.0667	.0793	7/8	12	0.8750	.8209	.7668	.7952
1/8	40	.1250	.1088	.0925	.1062	7/8	14	0.8750	.8286	.7822	.8068
5/32	32	.1563	.1360	.1157	.1311	7/8	16	0.8750	.8344	.7938	.8158
5/32	36	.1563	.1382	.1202	.1339	7/8	18	0.8750	.8389	.8028	.823
3/16	24	.1875	.1604	.1334	.1530	7/8	20	0.8750	.8425	.8100	.8287
3/16	32	.1875	.1672	.1469	.1616	15/16	12	0.9375	.8834	.8293	.8575
7/32	24	.2188	.1917	.1646	.1834	15/16	16	0.9375	.8969	.8563	.8783
7/32	32	.2188	.1985	.1782	.1922	15/16	20	0.9375	.9050	.8725	.8912
1/4	20	.2500	.2175	.1850	.2067	1	8	1.0000	.9188	.8376	.8797
1/4	24	.2500	.2229	.1959	.2139	1	12	1.0000	.9459	.8918	.9198
1/4	28	.2500	.2268	.2036	.2190	1	14	1.0000	.9536	.9072	.9315
1/4	32	.2500	.2297	.2094	.2229	1	16	1.0000	.9594	.9188	.9408
5/16	18	.3125	.2764	.2403	.2630	1	20	1.0000	.9675	.9350	.9537
5/16	20	.3125	.2800	.2476	.2680	1-1/16	12	1.0625	1.0084	.9543	.9823
5/16	24	.3125	.2854	.2584	.2754	1-1/16	16	1.0625	1.0219	.9813	1.0033
5/16	32	.3125	.2922	.2719	.2847	1-1/16	18	1.0625	1.0264	.9903	1.0105
3/8	16	.3750	.3344	.2938	.3182	1-1/8	7	1.1250	1.0322	.9394	.9875
3/8	20	.3750	.3425	.3100	.3297	1-1/8	8	1.1250	1.0438	.9626	1.0047
3/8	24	.3750	.3479	.3209	.3372	1-1/8	12	1.1250	1.0709	1.0168	1.0448
3/8	32	.3750	.3547	.3344	.3469	1-1/8	16	1.1250	1.0844	1.0438	1.0658
7/16	14	0.4375	.3911	.3447	.3717	1-1/8	18	1.1250	1.0889	1.0528	1.0730
7/16	20	0.4375	.4050	.3726	.3916	1-3/16	12	1.1875	1.1334	1.0793	1.1073
7/16	24	0.4375	.4104	.3834	.3994	1-3/16	16	1.1875	1.1469	1.1063	1.1283
7/16	28	0.4375	.4143	.3911	.4051	1-3/16	18	1.1875	1.1514	1.1153	1.1355
1/2	12	0.5000	.4459	.3918	.4223	1-1/4	7	1.2500	1.1572	1.0644	1.1125
1/2	13	0.5000	.4500	.4001	.4284	1-1/4	8	1.2500	1.1688	1.0876	1.1297
1/2	20	0.5000	.4675	.4351	.4537	1-1/4	12	1.2500	1.1959	1.1418	1.1698
1/2	24	0.5000	.4729	.4459	.4619	1-1/4	16	1.2500	1.2094	1.1688	1.1908
1/2	28	0.5000	.4768	.4536	.4676	1-1/4	18	1.2500	1.2139	1.1778	1.1980
9/16	12	0.5625	.5084	.4542	.4843	1-5/16	12	1.3125	1.2584	1.2043	1.2323
9/16	18	0.5625	.5264	.4903	.5106	1-5/16	16	1.3125	1.2719	1.2313	1.2533
9/16	24	0.5625	.5354	.5084	.5244	1-5/16	18	1.3125	1.2764	1.2403	1.2605
5/8	11	0.6250	.5660	.5069	.5391	1-3/8	6	1.3750	1.2667	1.1585	1.2146
5/8	12	0.6250	.5709	.5168	.5463	1-3/8	8	1.3750	1.2938	1.2126	1.2547
5/8	18	0.6250	.5889	.5528	.5730	1-3/8	12	1.3750	1.3209	1.2668	1.2948
5/8	24	0.6250	.5979	.5709	.5869	1-3/8	16	1.3750	1.3344	1.2938	1.3158
11/16	11	0.6875	.6285	.5694	.6012	1-3/8	18	1.3750	1.3389	1.3028	1.3230
11/16	12	0.6875	.6334	.5793	.6085	1-7/16	12	1.4375	1.3834	1.3293	1.3573
11/16	16	0.6875	.6469	.6063	.6284	1-7/16	16	1.4375	1.3969	1.3563	1.3783
11/16	24	0.6875	.6604	.6334	.6494	1-7/16	18	1.4375	1.4014	1.3653	1.3855
3/4	10	0.7500	.6850	.6201	.6545	1-1/2	6	1.5000	1.3917	1.2835	1.3396
3/4	12	0.7500	.6959	.6418	.6707	1-1/2	8	1.5000	1.4188	1.3376	1.3797
3/4	16	0.7500	.7094	.6688	.6908	1-1/2	12	1.5000	1.4459	1.3918	1.4198
3/4	20	0.7500	.7175	.6850	.7037	1-1/2	16	1.5000	1.4594	1.4188	1.4408
13/16	12	0.8125	.7584	.7042	.7329	1-1/2	18	1.5000	1.4639	1.4278	1.4480
13/16	16	0.8125	.7719	.7313	.7533	1-9/16	16	1.5625	1.5219	1.4813	1.5033
13/16	20	0.8125	.7800	.7475	.7662	1-9/16	18	1.5625	1.5264	1.4903	1.5105

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		Max Minor Diameter						Max Minor Diameter			
Normal Size		Basic	Basic	Basic	Class 3B	Normal Size		Basic	Basic	Basic	Class 3B
and TPI		Major	Pitch	Minor	Internal	and TPI		Major	Pitch	Minor	Internal
		Diameter	Diameter	Diameter	Thread			Diameter	Diameter	Diameter	Thread
1-5/8	6	1.6250	1.5167	1.4085	1.4646	2-5/8	12	2.6250	2.5709	2.5168	2.5448
1-5/8	8	1.6250	1.5438	1.4626	1.5047	2-5/8	16	2.6500	2.5844	2.5438	2.5658
1-5/8	12	1.6250	1.5709	1.5168	1.5448	2-3/4	4	2.7500	2.5876	2.4252	2.5094
1-5/8	16	1.6250	1.5844	1.5438	1.5658	2-3/4	8	2.7500	2.6688	2.5876	2.6297
1-5/8	18	1.6250	1.5889	1.5528	1.5730	2-3/4	12	2.7500	2.6959	2.6418	2.6698
1-11/16	16	1.6875	1.6469	1.6063	1.6283	2-3/4	16	2.7500	2.7094	2.6688	2.6908
1-11/16	18	1.6875	1.6514	1.6153	1.6355	2-7/8	12	2.8750	2.8209	2.7668	2.7948
1-3/4	5	1.7500	1.6201	1.4902	1.5575	2-7/8	16	2.8750	2.8344	2.7938	2.8158
1-3/4	8	1.7500	1.6688	1.5876	1.6297	3	4	3.0000	2.8376	2.6752	2.7594
1-3/4	12	1.7500	1.6959	1.6418	1.6698	3	8	3.0000	2.9188	2.8376	2.8797
1-3/4	16	1.7500	1.7094	1.6688	1.6908	3	12	3.0000	2.9459	2.8918	2.9198
1-13/16	16	1.8125	1.7719	1.7313	1.7533	3	16	3.0000	2.9594	2.9188	2.9408
1-7/8	8	1.8750	1.7938	1.7126	1.7547	3-1/8	12	3.1250	3.0709	3.0168	3.0448
1-7/8	12	1.8750	1.8209	1.7668	1.7948	3-1/8	16	3.1250	3.0844	3.0438	3.0658
1-7/8	16	1.8750	1.8344	1.7938	1.8158	3-1/4	4	3.2500	3.0876	2.9252	3.0094
1-15/16	16	1.9375	1.8969	1.8563	1.8783	3-1/4	8	3.2500	3.1688	3.0876	3.1297
2	4-1/2	2.0000	1.8557	1.7113	1.7861	3-1/4	12	3.2500	3.1959	3.1418	3.1698
2	8	2.0000	1.9188	1.8376	1.8797	3-1/4	16	3.2500	3.2094	3.1688	3.1908
2	12	2.0000	1.9459	1.8918	1.9198	3-3/8	12	3.3750	3.3209	3.2668	3.2948
2	16	2.0000	1.9594	1.9188	1.9408	3-3/8	16	3.3750	3.3344	3.2938	3.3158
2-1/16	16	2.0625	2.0219	1.9813	2.0033	3-1/2	4	3.5000	3.3376	3.1752	3.2594
2-1/8	8	2.1250	2.0438	1.9626	2.0047	3-1/2	8	3.5000	3.4188	3.3376	3.3797
2-1/8	12	2.1250	2.0709	2.0168	2.0448	3-1/2	12	3.5000	3.4459	3.3918	3.4198
2-1/8	16	2.1250	2.0844	2.0438	2.0658	3-1/2	16	3.5000	3.4594	3.4188	3.4408
2-3/16	16	2.1875	2.1469	2.1063	2.1283	3-5/8	12	3.6250	3.5709	3.5168	3.5448
2-1/4	4-1/2	2.2500	2.1057	1.9613	2.0361	3-5/8	16	3.6250	3.5844	3.5438	3.5658
2-1/4	8	2.2500	2.1688	2.0876	2.1297	3-3/4	12	3.7500	3.5876	3.4252	3.5094
2-1/4	12	2.2500	2.1959	2.1418	2.1698	3-3/4	16	3.7500	3.6688	3.5876	3.6297
2-1/4	16	2.2500	2.2094	2.1688	2.1908	3-3/4	4	3.7500	3.6959	3.6418	3.6698
2-5/16	16	2.3125	2.2719	2.2313	2.2533	3-3/4	8	3.8750	3.7094	3.6686	3.6908
2-3/8	12	2.3750	2.3209	2.2668	2.2948	3-7/8	12	3.8750	3.8209	3.7669	3.7948
2-3/8	16	2.3750	2.3344	2.2938	2.3158	3-7/8	16	3.8750	3.8344	3.7938	3.8158
2-7/16	16	2.4375	2.3969	2.3563	2.3783	4	4	4.0000	3.8376	3.6752	3.7594
2-1/2	4	2.5000	2.3376	2.1752	2.2594	4	8	4.0000	3.9188	3.8376	3.8797
2-1/2	8	2.5000	2.4188	2.3376	2.3797	4	12	4.0000	3.9459	3.8918	3.9198
2-1/2	12	2.5000	2.4459	2.3918	2.4198	4	16	4.0000	3.9594	3.9188	3.4408
2-1/2	16	2.5000	2.4594	2.4188	2.4408						