

# Pitch Diameters – Thread Plug Gages



**Table I**  
**Classes 2B, 3B**

Nominal Size	Go Basic All Classes All Series	UNIFIED PITCH DIAMETERS					Nominal Size	Go Basic All Classes All Series	UNIFIED PITCH DIAMETERS				
		No Go		X Tol. Go = + No Go = -	X Lead Tol.	X ± Half Angle Tol.			No Go		X Tol. Go = + No Go = -	X Lead Tol.	X ± Half Angle Tol.
		CL. 2B	CL. 3B						CL. 2B	CL. 3B			
#0-80 UNF	.0519	.0542	.0536	.0002	.0002	0°30'	9/16-24 UNEF	.5354	.5405	.5392	.0003	.0003	0°15'
#1-64 UNC	.0629	.0655	.0648	.0002	.0002	0°30'	5/8-11 UNC	.5660	.5732	.5714	.0003	.0003	0°10'
#1-72 UNF	.0640	.0665	.0659	.0002	.0002	0°30'	5/8-18 UNF	.5889	.5949	.5934	.0003	.0003	0°10'
#2-56 UNC	.0744	.0772	.0765	.0002	.0002	0°30'	5/8-24 UNEF	.5979	.6031	.6018	.0003	.0003	0°15'
#2-64 UNF	.0759	.0786	.0779	.0002	.0002	0°30'	1 1/16-24 UNEF	.6604	.6656	.6643	.0003	.0003	0°15'
#3-48 UNC	.0855	.0885	.0877	.0002	.0002	0°30'	3/4-10 UNC	.6850	.6927	.6907	.0003	.0003	0°10'
#3-56 UNF	.0874	.0902	.0895	.0002	.0002	0°30'	3/4-16 UNF	.7094	.7159	.7143	.0003	.0003	0°10'
#4-40 UNC	.0958	.0991	.0982	.0002	.0002	0°20'	3/4-20 UNEF	.7175	.7232	.7218	.0003	.0003	0°15'
#4-48 UNF	.0985	.1016	.1008	.0002	.0002	0°30'	13/16-20 UNEF	.7800	.7857	.7843	.0003	.0003	0°15'
#5-40 UNC	.1088	.1121	.1113	.0002	.0002	0°20'	7/8-9 UNC	.8028	.8110	.8089	.0003	.0003	0°10'
#5-44 UNF	.1102	.1134	.1126	.0002	.0002	0°20'	7/8-14 UNF	.8286	.8356	.8339	.0003	.0003	0°10'
#6-32 UNC	.1177	.1214	.1204	.0003	.0003	0°15'	7/8-20 UNEF	.8425	.8482	.8468	.0003	.0003	0°15'
#6-40 UNF	.1218	.1252	.1243	.0002	.0002	0°20'	15/16-20 UNEF	.9050	.9109	.9094	.0003	.0003	0°15'
#8-32 UNC	.1437	.1475	.1465	.0003	.0003	0°15'	1"-8 UNC	.9188	.9276	.9254	.0004	.0004	0°05'
#8-36 UNF	.1460	.1496	.1487	.0002	.0002	0°20'	1"-12 UNF	.9459	.9535	.9516	.0003	.0003	0°10'
#10-24 UNC	.1629	.1672	.1661	.0003	.0003	0°15'	1"-14 UNS	.9536	.9609	.9590	.0003	.0003	0°10'
#10-32 UNF	.1697	.1736	.1726	.0003	.0003	0°15'	1"-20 UNEF	.9675	.9734	.9719	.0003	.0003	0°15'
#12-24 UNC	.1889	.1933	.1922	.0003	.0003	0°15'	1 1/16-12 UN	1.0084	1.0158	1.0139	.0003	.0003	0°10'
#12-28 UNF	.1928	.1970	.1959	.0003	.0003	0°15'	1 1/16-18 UNEF	1.0264	1.0326	1.0310	.0003	.0003	0°10'
#12-32 UNEF	.1957	.1998	.1988	.0003	.0003	0°15'	1 1/8-7 UNC	1.0322	1.0416	1.0393	.0004	.0004	0°05'
1/4-20 UNC	.2175	.2224	.2211	.0003	.0003	0°15'	1 1/8-12 UNF	1.0709	1.0787	1.0768	.0003	.0003	0°10'
1/4-28 UNF	.2268	.2311	.2300	.0003	.0003	0°15'	1 1/8-18 UNEF	1.0889	1.0951	1.0935	.0003	.0003	0°10'
1/4-32 UNEF	.2297	.2339	.2328	.0003	.0003	0°15'	1 3/16-12 UN	1.1334	1.1409	1.1390	.0003	.0003	0°10'
5/16-18 UNC	.2764	.2817	.2803	.0003	.0003	0°10'	1 3/16-18 UNEF	1.1514	1.1577	1.1561	.0003	.0003	0°10'
5/16-24 UNF	.2854	.2902	.2890	.0003	.0003	0°15'	1 1/4-7 UNC	1.1572	1.1668	1.1644	.0004	.0004	0°05'
5/16-32 UNEF	.2922	.2964	.2953	.0003	.0003	0°15'	1 1/4-12 UNF	1.1959	1.2039	1.2019	.0003	.0003	0°10'
3/8-16 UNC	.3344	.3401	.3387	.0003	.0003	0°10'	1 1/4-18 UNEF	1.2139	1.2202	1.2186	.0003	.0003	0°10'
3/8-24 UNF	.3479	.3528	.3516	.0003	.0003	0°15'	1 5/16-12 UN	1.2584	1.2659	1.2640	.0003	.0003	0°10'
3/8-32 UNEF	.3547	.3591	.3580	.0003	.0003	0°15'	1 5/16-18 UNEF	1.2764	1.2827	1.2811	.0003	.0003	0°10'
7/16-14 UNC	.3911	.3972	.3957	.0003	.0003	0°10'	1 3/8-6 UNC	1.2667	1.2771	1.2745	.0004	.0004	0°05'
7/16-20 UNF	.4050	.4104	.4091	.0003	.0003	0°15'	1 3/8-12 UNF	1.3209	1.3291	1.3270	.0003	.0003	0°10'
7/16-28 UNEF	.4143	.4189	.4178	.0003	.0003	0°15'	1 3/8-18 UNEF	1.3389	1.3452	1.3436	.0003	.0003	0°10'
1/2-13 UNC	.4500	.4565	.4548	.0003	.0003	0°10'	1 7/16-12 UN	1.3834	1.3910	1.3891	.0003	.0003	0°10'
1/2-20 UNF	.4675	.4731	.4717	.0003	.0003	0°15'	1 7/16-18 UNEF	1.4014	1.4079	1.4062	.0003	.0003	0°10'
1/2-28 UNEF	.4768	.4816	.4804	.0003	.0003	0°15'	1 1/2-6 UNC	1.3917	1.4022	1.3996	.0004	.0004	0°05'
9/16-12 UNC	.5084	.5152	.5135	.0003	.0003	0°10'	1 1/2-12 UNF	1.4459	1.4542	1.4522	.0003	.0003	0°10'
9/16-18 UNF	.5264	.5323	.5308	.0003	.0003	0°10'	1 1/2-18 UNEF	1.4639	1.4704	1.4687	.0003	.0003	0°10'