Table 4. Standard Series and Selected Combinations† — Unified Screw Threads

				Ex	ternal'						Int	ernal		
Nominal Size, Threads per Inch.			Ma	jor Diame	ter	Pitch D	ianieter	UNR Minor Diam."		Minor D	iameter	Pitch D	iameter	Major Diamete
and Series Designatione	Class	Allow- ance	Max ^b	Min	Min ^d	Max ^b	Min	Mac (Ref.)	Class	Min	Max	Min	Max	Min
o-so UNF	2A 3A	0.0005	0.0595 0.0600	0.0563 0.0568		0.0514 0.0519	0.049 6 0.0506	0.0446 0.0451	3B	0.0465 0.0465	0.0514 0.0514	0.0519 0.0519	0.0542 0.0536	0.0600
1-64 UNC	2A 3A	0.000G 0.0000	0.0724	0.0686 0.0692	_	0.0623 0.0629	0.0603 c.0614	0.0538 0.0544	2B - 3B	0.0561 0.0561	0.0623 0.0623	0.0629 0.0629	0.0655 0.0648	0.0730 0.0730
1-72 UNF	2A 3A	0.0006	0.0724 0.0730	0.0689 0.0695		0.0634 5.0640	0.0615 0.0626	0.0559 0.0565	2B 3B	0.0580 0.0580	0.0635 0.0635	0.0640 0.0640	0.0665 0.0659	0.0730 0.0730
2-56 UNC	2A 3A	0,0006	0.0854	0.0813	-	0.0738	9.0717 0.0728	0.0642 0.0648	2B 3B	0.0667 0.0667	0.0737 0.0737	0.0744 0.0744	0.0772 0.0765	0.0860 0.0860
2-64 UNF	2A 3A	6.0006	0.0854	0.0816		0.0753	0,0733 6 9744	0.0668 0.0674	2B 3B	0.0691	0.0753 0.0753	0.0759	0.0786 0.0779	0.0860 0.0860
3-48 UNC	2A 3A	0.0007	n.0983 0.0990	0.0938	_	0.0848	0.0825 0.0838	0.0734 0.0741	2B 3B	0.0764 0.0764	0.0845 0.0845	0.0855	0.088 <u>5</u> 0.0877	0.0990
3-56 UNF	2A 3A	0,5007	0.0983	0.0942	_	0.0867	6.0845 6.0858	0.0771	2B 3B	0.0797	0.086 <u>5</u> 0.086 <u>5</u>	0.0874	0.0902 0.0895	6,6990 6,6990
4-40 UNC	2A 3A	0.0000	0.1112	0.1061	_	0.0950	0.4925 0.4939	0.0814	2B 3B	0.0849 0.0849	0.0939 0.0939	0.0958	0.0991 0.0982	0.1120
4-48 UNF	2A 3A	0.0007	0.1113	0.1068		0.0978 0.0985	0.0954 0.0967	0.0864 0.0871	2B 3B	0.0894 0.0894	a.a968 a.a968	0.0985	0.1016 8001.0	0.1120
5-40 UNC	2A 3A	0.0008	0.1242	0.1191		0.1080	0.1054 0.1069	0.0944	zB 3B	0.0979 0.0979	0.1062 0.1062	0.1088	0,1121 0,1113	0.1250 0.1250
5-44 UNF	2A 3A	0.0007	0.1243	0.1195	=	0.1095	0,1070 0,1083	0.0972	2B 3B	0.1004 0.1004	0.1079 0.1079	0.1102 0.1102	0.1134 0.1126	0.1250
6-32 UNC	2A 3A	8000,0	0.1372	0.1312		0.1169	0.1141	0.1000	2B 3B	0.104 0.1040	0.114 0.1140	0.1177	0.1214 0.1204	0.1380
1-40 UNF	2A 3A	0.0008	0.1372	0.1321	_	0.1210	0.1184	0.1074	2B	0.111	0.119 0.1186	0.1218	0.1252	0.1380
8-32 UNC	2A 3A	0.0009	0.1631	0.1571		0.1428	0.1399	0.1259 0.1268	2B 3B	0.130	0.139 0.1389	0.1437	0.1475 0.1465	0.1640

8-36 UNF	2/\	8,0008	0.1632	0.1577		0.1452	0.1424	0.1301	2B	1		Ι.,		ı
10-24 UNC	3A	0.0000	0.16.10	0.1585	_	0.1460	0.1439	0.1309	3B	0.134	0.142	0.1460	0-1496 0-1487	0.16.
10-14 OMC	2A 3A	0.0000	0.1890	0.1818		0.1619	0.1586	0.1394	2B	0.145	0.156	0.1629	0.1672	i
10-28 UNS	2A	0.0010	0.1800	-		0.1629	0.1604	0.1404	3B	0.1450	0.1555	0.1629	0.1661	0.40
10-20 UNF	2A	0.0000	1 1	0.1825		0.1658	0.1625	0.1464	2B	0.151	0.160	0.1668	0.1711	6 19
5	3A	0.0000	0.1891	0.1831	_	0.1688	0.1658 0.1674	0.1519	213	0.156	0.163	0.1697	0.1736	0.19
10-36 UNS	2A	0.0009	0.1891	0.1836	_	0.1711	0.1681	0.1528	3B	0.1560	0.16.11	0.1697	0.1726	0.19
10-40 UNS	2A	0 0000	0.1841	0.1840		1 .		0.1560	2B	0.160	0.166	0.1720	759	i0.19
10-48 UNS	2A	8,000.0	0.1892	0.1847		0.1729	0.1700	0.1592	2B	0.163	0.169	0.1738	0.1775	0.19
10-56 UNS	2,1	0.0007	0.1893	0.1852	_	0.1757	0.1731	0.1644	2B	0.167	0.172	0.1765	0.1799	6.19
12-24 UNC	2/	0.0010	0.2150	•	. —	0.1777	0.1752	0.1681	2B	0.171	0.175	0.1784	0.1816	0,190
	3A	0.0000	0.2150	0.2078 0.2088		1879 1889	0.1545 0.1863	0.1654 0.1664	2B	0.171	0.181	0.1889	0.1933	0.216
12-28 UNF	2Å	0.0014	0.2150	0.2085		0.1918	0.1886	0.1724	3B 2B	0.1710	0.1807	0.1889	0.1922	6.21
Finance	3/	0.0000	0.2160	0.2095		0.1928	0.1904	0.1734	3B	0.177	0.186 0.1857	0.1928	0.1970	9721
12-32 UNEF	2A 3A	0.0009	0.2151	0.2091		0.1948	0.1917	0.1779	2B	0.182	0.100	0.1928	0.1959	0.210
12-36 UNS	2A		0.2160	0.2100	-	0.1957	0.1933	0.1788	3B	0.1820	0.1895	0.1957	8001.0 8801.0	0.210
12-40 UNS	2A	0.0009	0.2151	0.2096		0.1971	0.1941	0.1821	2B	0.186	291.0	0.1980	0.2019	0.216
12-48 UNS	il	0.0009	0.2151	0.2100	_	0.1989	0.1960	0.1835	2B	0.189	0.195	8001.0	0.2035	0.216
12-56 UNS	2A	8000.0	0.2152	0.2107		0.2017	1661.0	0.1904	2B	0.193	0.198	0.2025	0.2039	i
14-20 UNC	2A	0.0007	0.2153	0.2112	_	0.2037	0.2012	0.1941	2B	0.197	0,201	0.2044		0.216
74-20 UNG	1Å 2Å	1100.0	0.2489	0.2367		0.2164	0.2108	0.1894	113	0.196	0.207	0.2175	0.2076	0,216
	3A	0.0000	0.2489	0.2408	0.2367	0.2164	0.2127	0.1894	2B	0.196	0.207	0.2175	0.2248	0.250
14-24 UNS	2A	0.0011	0.2489	0.2417		0.2175	0.2147	0.1905	3B	0.1960	0.2067	0.2175	0.2211	0.250
1/4-27 UNS	2A	0100.0	0.2490			0.2218	0.2181	0.1993	2B	0.205	0.215	0.2229	0,2277	0.250
1/4-28 UNF	IA	0.0010	0.2490	0.2423	_	0.2249	0.2214	0.2049	2B	0.210	0.219	0.2259	0.2304	0.250
	2A	0.0010	0.2490	0.2392 0.2425		0.2258 0.22 <u>5</u> 8	0.2208	0.2064	1B	0.211	0.220	0.2268	0.2333	0.250
	3A	0.0000	0.2500	0.2435	_	0.2268	0.2225	0.2064	2B	0.211	6.226	0.2268	0.2311	0.250
14-32 UNEF	2A	0.0010	0.2490	0.2430	!	0.2287	0.2255		3B	0.2110	0.2190	0.2268	0.2300	0.250
	3A	0.0000	0.2500	0.2440	_	0.2297	0.2273	0.2118	2B 3B	0.216 0.2160	0.224	0.2297	0.2339	0.250
									ا "د ا	V-2100	0.2229	0.2297	0.2328	0.250

Table 4 (Continued). Standard Series and Selected Combinations† — Unified Screw Threads

				Ex	ternal ^r						Inte	anal ^c		
Nominal Size, Threads per Inch.		Allow-	Maj	jor Diam.	ter	Pitch D	iameter	UNR Minor Diam."		Minor D		Pitch Di		Major Diameter
and Series Designation ^e	Class	ance	Max ^b	Min	Min^d	Max ^b	Min	Max (Ref.)	Class	Min	Max	Min	Max	Min
1/4-36 UNS	2Λ	0.0009	0.2491	0.2436		0.2311	0.2280	0.2161	2B	0.220	0,226	0.2320	0.2360	0.2500
1/4-40 UNS	zΛ	0.0009	0.2491	0.2440		0.2329	0.2300	0.2193	2B	0.223	0.229	6.2338	0.2376	0.2500
1/4-48 UNS	zA	0.0008	0.2492	0.2447		0.2357	0.2330	0.2243	213	0.227	0.232	0.2365	0.2401	0.2500
14-46 UNS	2A	6.0008	0.24%	0.2451		0.2376	0.2350	0.2280	28	0.231	0.235	0.2384	0.2417	0.2500
5/16-18 UNC	1A 2A 3A	0.0012 0.0012 0.0000	0.3113 0.3113 0.3125	0.2982 0.3026 0.3038	0.2982	0.2752 0.2752 0.2764	0.2691 0.2712 0.2734	0.2452 0.2452 0.2464	1B 2B 3B	0,252 0,252 0,2520	0.265 0.265 0.2630	0,2764 0,2764 0,2764	0,2843 0,2817 0,2803	0.3125 0.3125 0.3125
5∕16-20 UN	2 A 3 A	0.0000	0.3113	0.3032 0.3044	_	0.2788 0.2800	0.2748 0.2770	0.2518 0.2530	2B 3B	0.258	0.270 0.2680	0.2800 0.2800 0.2854	0.2852 0.2839 0.2925	0.3125 0.3125 0.3125
5⁄16−24 UNF	1A 2A 3A	1100.0	0.3114 0.3114 0.3125	0.3006 0.3042 0.3053	_	0.2843 0.2843 0.2854	0.2788 0.2806 0.2827	0.2618 0.2618 0.2629	1B 2B 3B	0.267 0.267 0.2670	0.277 0.277 0.2754	0.2854 0.2854	0.2925	0.3125
5/1627 UNS	3/1 2A	0.0010	0.3115	0.3048	_	0.2874	0.2839	0.2674	211	0.272	0.281	0.2884	0.2929	0.3125
5/16-28 UN	2A 3A	0.0010	0.3115	0.3050 0.3060		0.2883	0.2849 0.2867	0.2689 0.2699	2B 3B	0.274	0.282 0.2807	0.2893 0.2893	0.2937 0.2926	0.3125
5/1632 UNEF	2A 3A	0.0010	0.3115	0.3055 0.3065	_	0.2912	0.2880 0.2898	0.2743 0.2753	2B 3B	0.279	0.286 0.2847	0.2922	0.2964 0.2953	0.3125
5/16-36 UNS	2/	0.0009	0.3116	0.3061	_	0.2936	0.2905	0.2785	213	0.282	0.289	0.2945	0.2985	0.3125
5/16-40 UNS	2/	0.0009	0.3116	0.3065		0.2954	0.2925	0.2818	2B	0.285	0.291	0.2963	0.3001	0.3125
5/16-48 UNS	2A	8000.0	0.3117	0.3072		0.2982	0.2955	0.2869	213	0.290	0.295	0.2990	0.3026	0.3125
⅓1-16 UNC	1A 2A 3A	0.0013	0.3737 0.3737 0.3750	0.3595 0.3643 0.3656	0.3595	0.3331 0.3331 0.3344	0.3266 0.3287 0.3311	0.2992 0.2992 0.3005	1B 2B 3B	0.307 0.307 0.3070	0.321 0.321 0.3182	0.3344 0.3344 0.3344	0.3429 0.3401 0.3387	0.3750 0.3750 0.3750
3/8-18 UNS] 2A	0,0013	0.3737	0.3650		0.3376	0.3333	0.3076]] 2B	0.315	0.328	0.3389	0.3445	0.3750
%-20 UN	2A 3A	0.0012	0.3738 0.3750	0.3657 0.3669	_	0.3413	0.3372 0.3394	0.3143 0.3155	2B 3B	0.321	0.332 0.3297	0.3425 0.3425	0.3479 0.3465	0.3750
⅓8-24 UNF	1A 2A	0.0011	0.3739 0.3739	0.3631 0.3667	=	0.3468 0.3468	0.3411 0.3430	0.3243 0.3243	1B 2B	0.330	0.340 0.340	0.3479	0.3553 0.3528	0.3750

%-24 UNF	3/4	0.0000	0.3750	0.3678		0.3479	0.3450	0.3254	_{3B}	0.3300	0.3383	l		1
48-27 UNS	2Λ	0.0011	0.3739	0.3672	_	0.3498	0.3462	0.3298	28	1 "	0.3372	0.3479	0.3516	0.3750
38-28 UN	2.3	1100.0	0.3739	0.3674		1 1	_	1	11	0.335	0.344	0.3509	0.3556	0.3750
	3A	0.0000	0.3750	0.3685	_	0.3507 0.3518	0.3471 0.3491	0.3313	2B 3B	0.336 0.3360	0.345 0.3426	0.3518	0.3564	0.3750 0.3750
32 UNEF	2A 3A	0.0010	0.3740	0.3680 0.3690	_	0.3537	0.3503	0.3368	213	0.341	0.349	0.3547	0.3591	0.3750
%-36 UNS	2A	0.0000			****	0.3547	0.3522	0.3378	313	0.3410	0.3469	0.3547	0.3580	0.3750
38-40 UNS			0.3740	0.3685	_	0.3560	0.3528	0.3409	28	0.345	0.352	0.3570	0.3612	0.3750
	2Λ	0.0009	0.3741	0.3690	_	0.3579	0.3548	0.3443	2B	0.348	0.354	0.3588	0.3628	0.3750
0.390-27 UNS	2A	0.0011	0.3889	0.3822		0.3648	0.3612	0.3448	213	0.350	0.359	0.3659	0.3706	0.3900
∛16-14 UNC	1A 2A 3A	0.00: 1 0.0014 0.0000	0.4361 0.4361 0.4375	0.4206 0.4258 0.4272	0.4206	0.3897 0.3897 0.3911	0.3826 0.3850 0.3876	0.3511 0.3511 0.3525	1B 2B 3B	0.360 0.360 0.3600	0.376 0.376	0.3911 0.3911	0.4003 0.3972	0.4375 0.4375
⁷ /16−16 UN	- 2A 3A	0.0014	0.4361 0.4375	0.4267 0.4281	_	0.3955 0.3969	0.3909 0.3935	0.3616	2B 3B	0.370	0.3717 0.384 0.3800	0.3911 0.3969 0.3969	0.3957 0.4028 0.4014	0.4375 0.4375
7/16-18 UNS	2A	0.0013	0.4362	0.4275		0.4001	0.3958	0.3701	2B	0.377	0.390	0.4014		0.4375
⁷ /1620 UNF	1A 2A 3A	0.0013 0.0003 0.0000	0.4362 0.4362 0.4375	0.4240 0.4281 0.4294	=	0.4037 0.4037 0.4050	0.3975 0.3995 0.4019	0.3767 0.3767 0.3780	1B 2B 3B	0.383 0.383 0.3830	0.395 0.395	0.4050 0.4050	0.4070 0.4131 0.4104	0.4375 0.4375 0.4375
⁷ ∕16−24 UNS	2A	1100.0	0.4364	0.4292		0.4093	0.4055	0.3868	2B		0.3916	0.4050	0.4091	0.4375
7/16-27 UNS	2A	0.0011	0.4364	0.4297	_	0.4123		-		0.392	0.402	0.4104	0.4153	0.4375
7/16-28 UNEF	2A	1100.0	0.4364	0.4299		0.4132	0.4087 0.4096	0.3923	2B	0.397	0.406	0.4134	0.4181	0.4375
.	3A	0.0000	0.4375	0.4310		0.4143	0.4116	0.3938 0.3949	2B 3B	0.399 0.3990	0.407 0.4051	0.4143	0.4189	0.4375
¹ ∕16-32 UN	2A 3A	0.0010	0.4365 0.4375	0.4305 0.4315	_	0.4162 0.4172	0.4128	0.3993 0.4003	zB 3B	0.404	0.411	0.4172	0.4216	0.4375 0.4375
½-12 UNS	2A 3A	0.0016	0.4984	0.4870 0.4886	-	0.4443	0.4389	0.3992	28	0.4040 0.410	0.4094	0.4172 0.4459	0.4205 0.4529	0.4375 0.5000
V2-13 UNC	1/	0.0015	0.4985	0.4822		0.4459	0.4419	0.4008	3B	0.4100	0.4223	0.4459	0.4511	0.5000
	2A 3A	0.0015	0.4985 0.5000	0.4876 0.4891	0.4822	0.4485 0.4485 0.4500	0.4411 0.4435 0.4463	0.4069 0.4069 0.4084	1B 2B 3B	0.417 0.417 0.4170	0.434 0.434 0.4284	0.4500 0.4500 0.4500	0.4597 0.4565 0.4548	0.5000 0.5000 0.5000
1/2-14 UNS	2/		0.4985											

Table 4 (Continued). Standard Series and Selected Combinations† — Unified Screw Threads

				E.	xternal						Int	ernal		
Nominal Size, Threads per Inch, and Series		Allow-	Ma	ijor Diame	eter	Pitch D	iameter	UNR Minor Diam."		Minor I	Diameter	Pitch D	iameter	Major Diamete
Designation ^e	Class	ance'	Max ^b	Min	Mind	Max*	Min	Max (Ref.)	Class	Min	Max	Min	Max	Min
1/2-16 UN	2A 3A	0.0014	0.4986 0.5000	0.4892 0.4906	_	0.4580 0.4594	0.4533	0.4241 0.4255	2B 3B	0.432 0.4320	0.446 0.4419	0.4594 0.4594	0.4655	0.5000
1/218 UNS	2.1	0.0013	0.4987	0.1900		0.4626	0.4582	0.4326	28	0.440	0.453	0.4639	0.4697	0.5000
V2-20 UNF	1A 2A 3A	0.0013 0.0013 0.0000	0.4987 0.4987 . 0.5000	0.4865 0.4906 0.4919		0.4662 0.4662 0.4675	0.4598 0.4619 0.4643	0.4392 0.4392 0.4405	1B 2B 3B	0.446 0.446 0.4460	0.457 0.457 0.4537	0.4675 0.4675 0.4675	0.4759 0.4731 0.4717	0.5000 0.5000 0.5000
1/2-24 UNS	2A	0.0012	0.4988	0.4916	*****	0.4717	0.4678	0.4492	2B	0.455	0.465	0.4729	0.4780	0.5000
1/2-27 UNS	2A	1100.0	0.4989	0.4922	_	0.4748	0.4711	0.4548	213	0.460	0.469	0.4759	0.4807	0.5000
1/2-28 UNEF	2A 3A	1100.0 0000.0	0.4989 0.5000	0.4924 0.4935		0.4757	0.4720 0.4740	0.4563 0.4574	2B 3B	0.461	0.470 0.4676	0.4768	0.4816	0.5000
½-32 UN	2A 3A	0.0010	0.4990 0.5000	0.4930 0.4940	=	0.4787 0.4797	0.4752 0.4771	0.4618 0.4628	2B 3B	0.466 0.4660	0.474 0.4719	0.4797 0.4797	0.4842	0.5000 0.5000
%16−12 UNC	1A 2A 3A	0.0000 0.0016 0.0016	0.5609 0.5609 0.5625	0.5437 0.5495 0.5511	0.5437	0.5068 0.5068 0.5084	0.4990 0.5016 0.5045	0.4617 0.4617 0.4633	1B 2B 3H	0.472 0.472 0.4720	0.490 0.490 0.4843	0.5084 0.5084 0.5084	0.5186 0.5152 0.5135	0.5625 0.5625 0.5625
%1614 UNS	2A	0.0015	0.5610	0.5507	_	0.5146	0.5096	0.4760	28	0.485	0.501	0.5161	0.5226	0.5625
%16-16 UN	2A 3A	0.0014 0.0000	0.5611 0.5625	0.5517 0.5531	_	0.5205 0.5219	0.5158	0.4866 0.4880	2B 3B	0.495 0.4950	0.509 0.5040	0.5219	0.5280 0.5265	0.5625
%6-18 UNF	1A 2A 3A	0.0014 9.0014 0.0000	0.5611 0.5611 0.5625	0.5480 0.5524 0.5538	=	0.5250 0.5250 0.5264	0.5182 0.5205 0.5230	0.4950 0.4950 0.4964	1B 2B 3B	0,502 0,502 0,5020	0.515 0.515 0.5166	0.5264 0.5264 0.5264	0.5353 0.5323 0.5308	0.5625 0.5625 0.5625
∜14-20 UN	2A 3A	£100.0	0.5612 0.5625	0.5531 0.5544		0.5287	0.5245 0.5268	0.5017 0.5030	2B 3B	0.508 0.5080	0.520 0.5162	0.5300 0.5300	0.5355 0.5341	0.5625
%16-24 UNEF	2.N 3.N	0.0012 0.0000	0.5613 0.5625	0.5541	=	0.5342	0.5303 0.5325	0.5117	2B 3B	0.517 0.5170	0.527 0.5244	0-5354 0-5354	0.5405 0.5392	0.5625 0.5625
%16-27 UNS	2.\	1100.0	0.5614	0.5547	_	0.5373	0.5336	0.5173	213	0.522	0.531	0.5384	0.5432	0.5625
%16-28 UN	2A 3A	0.0011 0.0000	0.5614 0.5625	0.5549 0.5560	<u></u>	0.5382 0.5393	0.5345 0.5365	0.5188 0.5199	2H 3H	0.524 0.5240	0.532 0.5301	0.5393 0.5393	0.5441	0.5625
%16-32 UN	2A 3A	0.0010 0.0000	0.5615 0.5625	0.5555 0.5565		0.5412 0.5422	0.5377 0.5396	0.5243 0.5253	2H 3H	0.529 0.5290	0.536 0.5344	0.5422	0.5467	0.5625

1														
58-11 UNC	1A 2A 3A	0.0016 0.0000	0.6234 0.6234 0.6250	0.6052 0.6113 0.6129	0.6052	0.5644 0.5644 0.5660	0.5561 0.5589 0.5619	0.5152 0.5152 0.5168	1B 2B 3B	0.527 0.527 0.527	0.546 0.546 0.5391	0.5660 0.5660 0.5660	0.5767 0.5732 0.5714	0.6250 0.6250 0.6250
58-12 UN	2.1 3.1	0.0000	0.6234 0.6250	0.6120 0.6136	_	0.5693 0.5709	0.5639 0.5668	0.5242 0.5258	2B 3B	0.535 0.5350	0.553 0.5463	0.5709 0.5709	0.5780	0.6250 0.6250
⁵×−14 UNS	2 Å	0.0015	0.6235	0.6132		0.5771	0.5720	0.5385	2B	0.548	0.564	0.5786	0.5852	0.6250
%~16 UN	2A 3A	0.000.0 0.001.4	0.6236 0.6250	0.6142 0.6156	=	0.5830 0.5844	0.5782 0.5808	0.5491 0.5505	2B 3B	0.557 0.5570	0.571 0.5662	0.5844	0.5996 0.5890	0.6250 0.6250
*8-18 UNF	1 A 2 A 3 A	0.0014 0.0014 0.0000	0.6236 0.6236 0.6250	0.6105 0.6149 0.6163	_	0.5875 0.5875 0.5889	0.5805 0.5828 0.5854	0.5575 0.5575 0.5589	1B 2B 3B	0.565 0.565 0.5650	0.578 0.578 0.5730	0.5889 0.5889 0.5889	0.5980 0.5949 0.5934	0.6250 0.6250 0.6250
58-20 UN	2A 3A	0.0013	0.6237 0.6250	0.6156 0.6169	_	0.5912 0.5925	0.5869 0.5893	0.5642 0.5655	2B 3B	0.571 0.5710	0.582 0.5787	0.5925	0.5981	0.6250 0.6250
58-24 UNEF	2A 3A	0.0012	0.6238 0.6250	0.6166 0.6178	=	0.5967 0.5979	0.5927 0.5949	0.5742 0.5754	2B 3B	0.580 0.5800	0.590 0.5869	0.5979 0.5979	0.6031	0.6250 0.6250
58-27 UNS	2A	0.0011	0.6239	0.6172	_	0.5998	0.5960	0.5798	2B	0.585	0.594	0.6009	0.6059	0.6250
%-28 UN	2A 3A	1100.0	0.6239 0.6250	0.6174 0.6185	_	0.6007	0.5969 0.5990	0.5813 0.5824	2B 3B	0.586 0.5860	0.595 0.5926	0.6018 0.6018	0.6067	0.6250 0.6250
5⁄8−32 UN	2A 3A	1100,0 0000,0	0.6239 0.6250	0.6179 0.6190	_	0.6036 0.6047	0.6000 0.6020	0.5867 0.5878	2B 3B	0.591 0.5910	0.599 0.5969	0.6047	0.6093	0.6250 0.6250
^{II} ∕I6−12 UN	2A 3A	0.0016	0.6859 0.6875	0.6745 0.6761	_	0.6318 0.6334	0.6264 0.6293	0.5867 0.5883	2B 3B	0.597 0.5970	0.615	0.6334 0.6334	0.6405 0.6387	0.6875 0.6875
11/16-16 UN	2A 3A	0.0004	0.6861 0.6875	0.6767 0.6781	_	0.6455 0.6469	0.6407 0.6433	0.6116 0.6130	2B 3B	0.620 0.6200	0.634 · 0.6284	0.6469	0.6531	0.6875 0.6875
¹¹ / ₁₆ -20 UN*	2A 3A	0.0013	0.6862 0.6875	0.6781 0.6794	=	0.6537 0.6550	0.6494 0.6518	0.6267 0.6280	2B 3B	0.633 0.6330	0.645 0.6412	0.6550 0.6550	0.6606 0.6592	0.6875 0.6875
¹ / ₁₆ =24 UNEF	2.A 3A	0.0012	0.6863 0.6875	0.6791 0.6803	_	0.6592 0.6604	0.6552 0.6574	0.6367 0.6379	2B 3B	0.642	0.652 0.6494	0.6604 0.6604	0.6656 0.6643	0.6875 0.6875
1½16-28 UN	2A 3A	1100.0 0000.0	0.6864 0.6875	0.6799 0.6810	_	0.6632 0.6643	0.6594	0.6438 0.6449	2B 3B	0.649	0.657	0.6643	0.6692 0.6680	0.6875 0.6875
11/16-32 UN	2A 3A	1100.0	0.6864 0.6875	0.6804 0.6815	_	0.6661	0.6625 0.6645	0.6492 0.6503	2B 3B	0.654 0.6540	0.661 0.6594	0.6672 0.6672	0.6718	0.6875 0.6875

Table 4 (Continued). Standard Series and Selected Combinations† — Unified Screw Threads

Nominal Size.	ļ	т	, .	E	xternal		,,,,				ln	ternal		
Threads per Inch, and Series		Allow-		ajor Diana	c.er	Pitch E)iameter	UNR Minor		Minor I	Diameter	Pitch I	iameter	Major Diamete
Designation ^e	Class	ance	Max ^b	Min	Min ^d	Max ^b	Min	Max (Ref.)	Class	Min	Max	Min	Max	Min
4-10 UNC	1A 2A 3A	8100.0 8100.0 00000	0.7482 0.7482 0.7500	0.7288 0.7353 0.7371	0.7288	0.6832 0.6832 0.6850	0.6744 0.6773 0.6806	0.6291 0.6291 0.6309	1B 2B 3B	0.642 0.642 0.6420	0.663 0.663 0.6545	0.6850 0.6850 0.6850	0.6965 0.6927 0.6907	0.7500 0.7500 0.7500
¾-12 UN ¼-14 UNS	2A 3A	0.0017		0.7369	_	0.6942 0.6959	0.6887 0.6918	0.6491 0.6508	2B. 3B	0.660 0.6600	0.678	0.6959	0.7031 0.7013	0.7500 0.7500
74-14 UNS	2.1	0.6015	0.7485	0.7382	_	0.7021	0.6970	0.6635	213	0.673	0.688	0.7036	0.7103	0.7500
	1A 2A 3A	0.0015 0.0015 0.0000	0.7485 0.7485 0.7500	0.7343 0.7391 0.7406		0.7079 0.7079 0.7094	0.7004 0.7029 0.7056	0.6740 0.6740 0.6755	1B 2B 3B	0.682 0.682 0.6820	0.696 0.696 0.6908	0.7094 0.7094 0.7094	0.7192 0.7159 0.7143	0.7500 0.7500 0.7500
⅓-18 UNS	2A	0.0014	0.7486	0.7399		0.7125	0.7079	0.6825	28	0.690	0.703	0.7139	0.7199	0.7500
¼-20 UNEF	2A 3A	0.0003	0.7487 0.7500	0.7406 0.7419	_	0.7162	0.7118	0.6892 0.6905	2B 3B	0.696 0.6960	0.707 0.7037	0.7175 0.7175	0.7232	0.7500
⅓-24 UNS	2Α	0.0012	0.7488	0.7416	-	0.7217	0.7176	0.6992	2B	0.705	0.715	0.7229	0.7282	0.7500
14-27 UNS	2A	0.0012	0.7488	0.7421		0.7247	0.7208	0.7047	2 }	0.710	0.719	0.7259	0.7310	0.7500
√4-28 UN	2A 3A	0.0012 0.0000	0.7488 0.7500	0.7423 0.7435	_	0.7256	0.7218	0.7062 0.7074	2B 3B	0.711	0.720	0.7268 0.7268	0.7318	0.7500 0.7500
⅓-32 UN	2A 3A	1100.0	0.7489 0.7500	0.7429 0.7440	_	0.7286 0.7297	0.7250 0.7270	0.7117 0.7128	2B 3B	0.716 0.7160	0.724	0.7297	0.7305	0.7500
^{1.} √16−12 UŅ	2A 3A	0.0017	0.8108 0.8125	0.7994 0.8011	_	0.7567 0.7584	0.7512 0.7543	0.7116 0.7133	2B 3B	0.722	0.740	0.7297 0.7584	0.7333 0.7656	0.7500
13/16-16 UN	2A 3A	0.0015	0.8110 0.8125	0.8016		0.7704 0.7719	0.7655 0.7683	0.7365 0.7380	2B 3B	0.7220	0.7329 0.759	0.7584 0.7719	0.7638 0.7782	0.8125
1.716-20 UNEF	2A 3A	0.0003	0.8112	0.8031	_	0.7787 0.7800	0.7743	0.7517	213	0.7450 0.758	0.7533	0.7719 0.7800	0.7766	0.8125
¹³ /16-28 UN	2A 3A	0.0012	0.8113	0.8048 0.8060	_	0.7881	0.7843	0.7530	3B 2B	0.7580 0.774	0.7662 0.782	0.7800 0.7893	0.7843	0.8125
1.1/16-32 UN	2A	0.00011	9.8114	0.8054	_	0.7893	0.7864	0.7699	3B 2B	0.7740	0.7801	0.7893	0.7930	0.8125
II	3A	0.0000	0.8125	0.8065	- 1	0.7922	0.7895	0.7753	3B	0.779 0.7790	0.786 0.7844	0.7922 0.7922	0.7969 0.7958	0.8125

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⁷ ⁄8−9 UNC	1A 2A 3A	0.0019	0.8731 0.8731 0.8750	0.8523 0.8592 0.8611	0.8523	0.8009 0.8009 0.8028	0.7914 0.7946 0.7981	0.7408 0.7408 0.7427	1B 2B 3B	0.755 0.755 0.7550	0.778 0.778 0.7681	0.8028 0.8028 0.8028	0.8151 0.8110 0.8080	0.8750 0.8750 0.8750
78-10 UNS	2A	8100.0	0.8732	0.8603	****	0.8082	0.8022	0.7542	2 B	0.767	0.788	0.8100	0.8178	0.8750
⅓-12 UN	2A 3A	0.0017 0.0000	0.8733 0.8750	0.8619 0.8636	_	0.8192 0.8209	0.8137 0.8168	0.7741 0.7758	2B 3B	0.785 0.7850	0.803 0.7948	0.8209 0.8209	0.8281	0.8750 0.8750
78-14 UNF	1A 2A 3A	0100.0 0100.0 0000.0	0.8734 0.8734 0.8750	0.8579 0.8631 0.8647	_	0.8270 0.8270 0.8286	0.8189 0.8216 0.8245	0.7884 0.7884 0.7900	1B 2B 3B	0.798 0.798 0.7980	0.814 0.814 0.8068	0.8286 0.8286 0.8286	0.8392 0.8356 0.8339	0.8750 0.8750 0.8750
7⁄4−16 UN	2A 3A	0.0015	0.8735 0.8750	0.8641 0.8656	_	0.8329 0.8344	0.8280 0.8308	0.7900 0.8005	2B 3B	0.807 0.8070	0.821 0.8158	0.8344 0.8344	0.8407	0.8750 0.8750
7/6-18 UNS	2Å	0.0014	0.8736	0.8649		0.8375	0.8329	0.8075	2B	0.815	0.828	0.8389	0.8449	0.8750
78-20 UNEF	2A 3A	0.0013	0.8737 0.8750	0.8656 0.8669	_	0.8412 0.8425	0.8368 0.8392	0.8142 0.8155	2B 3B	0.821 0.8210	0.832 0.8287	0.8425	0.8482 0.8468	0.8750 0.8750
74-24 UNS	.2A	0.0012	0.8738	0.8666	_	0.8467	0.8426	0.8242	2B	0.830	0.840	0.8479	0.8532	0.8750
%-27 UNS	2A	0.0012	0.8738	0.8671		0.8497	0.8458	0.8297	2B	0.835	0.844	0.8509	0.8560	0.8750
%-28 UN	2A 3A	0.0012	0.8738 0.8750	0.8673 0.8685		0.8506 0.8518	0.8468 0.8489	0.8312 0.8324	2B 3B	0.836 0.8360	0.845 0.8426	0.8518	0.8568 0.8555	0.8750 0.8750
%-32 UN	zA 3A	0.0011	0.8739 0.8750	o.8679 o.8690	_	0.8536 0.8547	0.8500 0.8520	0.8367 0.8378	2B 3B	0.8410	0.849 0.8469	0.8547 0.8547	0.8594 0.8583	0.8750 0.8750
15/16-12 UN	2A 3A	0.0017 0.0000	0.9358 0.9375	0.9244 0.9261	_	0.8817 0.8834	0.8760 0.8793	0.8366 0.8383	2B 3B	0.847	0.865 0.8575	0.8834 0.8834	0.8908	0.9375 0.9375
15/16-16 UN	2A 3A	0.0015 0.0000	0.9360 0.9375	0.9266 0.9281		0.8954 0.8969	0.8904 0.8932	0.8615 0.8630	2B 3B	0.870	0.884	0.8969	0.9034	0.9375 0.9375
15/16-20 UNEF	2A 3A	0.0014	0.9361 0.9375	0.9280 0.9294	_	0.9036 0.9050	0.8991 0.9016	0.8766 0.8780	2B 3B	0.883	0.895	0.9050	0.9109	0.9375 0.9375
15/16-28 UN	2A 3A	0.0012	0.9363 0.9375	0.9298 0.9310	=	0.9131 0.9143	0.9091 0.9113	0.8937 0.8949	2B 3B	0.899 0.8990	0.907 0.9051	0.9143	0.9195	0.9375 0.9375
15/16-32 UN	2A 3A	0.0001	0.9364 0.9375	0.9304 0.9315	_	0.9161 0.9172	0.9123 0.9144	0.8992 0.9003	2B 3B	0.904	0.911	0.9172	0.9221	0.9375 0.9375
1-8 UNC	1A 2A 3A	0.0020 0.0020 0.0000	0.9980 0.9980 1.0000	0.9755 0.9830 0.9850	0. <u>975</u> 5	0.9168 0.9168 0.9188	0.9067 0.9100 0.9137	0.8492 0.8492 0.8512	1B 2B 3B	0.865 0.865 0.8650	0.890 0.890 0.8797	0.9188 0.9188 0.9188	0.9320 0.9276 0.9254	0.9373 0.000 0.000 1.0000

Table 4 (Continued). Standard Series and Selected Combinations† — Unified Screw Threads

Nominal Size		·		E	kternal ^r						Int	ernali		
Threads per Inch, and Series		Allow-	Ma	ijor Diamo	eter	Pitch D	iameter	UNR Minor Diam."		Minor [Diameter	Pitch D	iumeter	Major Diamete
Designation ^e	Class	апсе	Max*	Min	\mathbf{Min}^d	Max*	Min	Max (Ref.)	Class	Min	Max	Min	Max	Min
r-ro UNS	2A	8100.0	0.9982	0.9853	_	0.9332	0.9270	0.8792	2B	0.892	0.913	0.9350	0.9430	1.0000
1–12 UNF	1 Å 2 Å 3 Å	8100.0 8100.0	0.9982	0.98to 0.9868	=	0.9441 0.9441	0.9353 0.9382	0.8990 0.8990	1B 2B	01910	0.928	0.9459	0.9573	1.0000
1-14 UNS/	1A 2A	0.0017	0.9983	0.9886	_	0.9459	0.9415	0.9008	3B 1B	0.9100	0.9198 0.938	0.9459 0.9536	0.9516	1.0000
1-16 UN	3A	0.0017	0.9983	0.9880 0.9897	=	0.9519 0.9536	0.9463 0.9494	0.9132 0.9149	2B 3B	0.923 0.9230	0.938 0.9315	0.9536 0.9536	0.9609 0.9590	1.0000
1-18 UNS	2A 3A	0.0015	0.9985 1.0000	0.9891 0.9906		0.9579 0.9594	0.9529 0.9557	0.9240 0.92 <u>55</u>	2B 3B	0.932 0.9320	0.946 0.9408	0.9594 0.9594	0.9659 0.9643	0000.1
1-18 UNS	2A 2A	0.0014	0.9986 0.9986	0.9899	_	0.9625	0.9578	0.9325	2B	0.940	0.953	0.9639	0.9701	1.0000
	3A	0.0000	1.0000	0.9919 0.9919		0.9661 0.9675	0.9616 0.9641	0.9391 0.9405	2B 3B	0.946 0.9460	0.957 0.9537	0.9675 0.9675	0.9734	0000.1
1-24 UNS	2 A 2 A	0.0013	0.9987	0.9915	_	0.9716	0.9674	0.9491	2B	0.955	0.965	0.9729	0.9784	1.0000
1-28 UN	2/	0.0012	0.9988 0.9988	0.9921 0.9923		0.9747	0.9707 0.9716	0.9547 0.9562	2B 2B	0.960	0.969	0.9759	0.9811	1.0000
1-32 UN	3/	0.0000	0000.1	0.9935	P	0.9768	0.9738	0.9574	3B	0.961 0.9610	0.970 0.9676	0.9768 0.9768	0.9820 6.9807	0000.1
	2A 3A	0.000.0	0.3989 1.0000	0.9929 0.9940	=	0.9786 0.9797	0.9748 0.9769	0.9617 0.9628	2B 3B	0.966 0.9660	0.974	0.9797	0.9846 0.9834	0000.1
1/16-8 UN	2A 3A	0.0020	1.0605 1.0625	1.0455 1.0475	_	0.9793 0.9813	0.9725 0.9762	0.9117	2B 3B	0.927 0.9270	0.952	0.9813	0.9902	1.0625
1 1/16-12 UN	2A 3A	0.0007	1.0608 1.0625	1.0494 1.0511	_	1.0067 1.0084	1.0010	0.9616 0.9633	2B 3B	0.972	0.990 0.9823	1.0084	1.0158	1.0625
1 V16-16 UN	2A 3A	0.0000	1.0610 1.0625	1.0516 1.0531	_	1.0204	1.0154	0.9865 0.9880	2B 3B	0.995	1.009	1.0219	1.0139	1.0625
1716-18 UNEF	2A 3A	0.0014	1.0611 1.0625	1.0524	_	1.0250	1.0203	0.9950	2B 3B	1.002	1.015 1.0105	1.0264	1.0268	1.0625
1 1/16-20 UN	2A 3A	0.0014 0.0000	1.0611	1.0530 1.0544	= .	1.0286 1.0300	1,9241 1,0266	1.0016	2B 3B	1.008	1.020	1.0264 1.0300 1.0300	1.0310 1.0359 1.0344	1.0625 1.0625 1.0625

1 ¹ /16-28 UN	2A 3A	0.0012 0.0000	1.0613 1.0625	1.0548 1.0560	*****	1.0381	1.0341 1.0363	1.0187 1.0199	2B 3B	1.024 1.0240	1.032 1.0301	1.0393	1.0445	1.0625
114-7 UNC	1A 2A 3A	0.0022 0.0022 0.0000	1.1228 1.1228 1.1250	1.0982 1.1064 1.1086	1.0982	1.0300 1.0300 1.0322	1.0191 1.0228 1.0268	0.9527 0.9527 0.9549	1B 2B 3B	0.970 0.970 0.9700	0.998 0.998 0.9875	1.0322 1.0322 1.0322	1.0463 1.0416 1.0393	1.1250
11/8-8 UN	2A 3A	0.0021 0.0000	1.1229 1.1250	1.1079 1.1100	1.1004	1.0417	1.0348 1.0386	0.9741 0.9762	2B 3B	0.990	1.015	1.0438	1.0528	1.1250 1.1250 1.1250
11/4-10 UNS	2Å	8100.0	1.1232	1.1103	_	1.0582	1.0520	1.0042	2B	1.017	1.038	1.0600	1.0680	1.1250
11/8-12 UNF	1A 2A 3A	0.00018 0.00018	1.1232 1.1232 1.1250	1.1060 1.1118 1.1136	_	1.0691 1.0691 1.0709	1.0601 1.0631 1.0664	1.0240 1.0240 1.0258	1B 2B 3B	1.035 1.035 1.0350	1.053 1.053 1.0448	1.0709 1.0709 1.0709	1.0826 1.0787 1.0768	1.1250 1.1250 1.1250
11/8-14 UNS	2A	9.00%	1.1234	1.1131		1.0770	1.0717	1.0384	2B	1.048	1.064	1.3786	1.0855	1.1250
1/8-16 UN	2A 3A	0.0015 0.0000	1.1235 1.1250	1.1141 1.1156	=	1.0829	1.0779 1.0807	1.0490 1.0505	2B 3B	1.057	1.071 1.0658	1.0844 1.0844	1.0909	1.1250 1.1250
11/8-18 UNEF	2A 3A	0.0014 0.0000	1.1236 1.1250	1.1149 1.1163		1.0875	1.0828 1.0853	1.0575 1.0589	2B 3B	1.065 1.0650	1.078	1.0889 1.0889	1.0951	1.1250 1.1250
11/8-20 UN	2A 3A	0.0014 0.0000	1.1236 1.1250	1.1155 1.1169	_	1.0911	1.0866 1.0891	1.0641 1.0655	2B 3B	1.071	1.082	1.0925	1.0984 1.0969	1.1250 1.1250 1.1250
1 ¹ /8-24 UNS	2A	0.0013	1.1237	1.1165		1.0966	1.0924	1.0742	2B	1.080	1.090	1.0979	1.1034	1.1250
11/2-28 UN	2A 3A	0.0012 0.0000	1.1238 1.1250	1.1173 1.1185	_	1.1006	1.0966	1.0812 1.0824	2B 3B	1.086 1.0860	1.095	1.1018	1.1070	1.1250 1.1250 1.1250
1 ³ /16–8 UN	2A 3A	0.0021 0.0000	1.1854 1.1875	1.1704 1.1725	_	1.1042 1.1063	1.0972 1.1011	1.0366 1.0387	2B 3B	1.052 1.0520	1.077 1.0672	1.1063	1.1154	1.1875
13/16-12 UN	2A 3A	0.0017 0.0000	1.1858 1.1875	1.1744 1.1761	_	1.1317	1.1259 1.1291	1.0866 1.0883	2B 3B	1.097 1.0970	1.115	1.1334 1.1334	1.1409	1.1875
1-716-16 UN	2A 3A	0.0005	1.1860 1.1875	1.1766 1.1781	_	1.1454	1.1403 1.1431	1.1115 1.1130	2B 3B	1.120	1.134	I.1469 I.1469	1.1535	1.1875
1¾1←18 UNEF	ZA 3A	0.0015	1.1860 1.1875	1.1773 1.1788	_	1.1499 1.1514	1.1450 1.1478	1.1199 1.1214	2B 3B	1.127 1.1270	1.140 1.1355	1.1514	1.1577	1.1875
1⅓16–20 UN	ZA 3A	0.0014 0.0000	1.1861 1.1875	1.1780 1.1794	_	1.1536 1.1550	1.1489 1.1515	1.1266	2B 3B	1.133 1.1330	I.145 I.1412	1.1550	1.1611	1.1875
1³/16−28 UN	2A 3A	0.0012 0.0000	1.1863 1.1875	1.1798 1.1810		1.1631 1.1643	1.1590 1.1612	1.1437 1.1449	2B 3B	1.149	1.157	1.1643 1.1643	1.1696	1.1875

Table 4 (Continued). Standard Series and Selected Combinationst — Unified Screw Threads

				E	kternal ^e						Int	ernal		
Nominal Size. Threads per Inch, and Series		Allow-	Ma	ijor Diamo	eter	Pitch D	iameter	UNR Minor Diam."		Minor I	Diameter	Pitch D	iameter	Major Diameter
Designation ^e	Class	ance	Max ^b	Min	Min^d	Max*	Min	Max (Ref.)	Class	Min	Max	Min	Max	Min
114-7 UNC	1A 2A 3A	0,0012 0,0022 0,0000	1.2478 1.2478 1.2500	1.2232 1.2314 1.2336	1.2232	1.1550 1.1550 1.1572	1.1439 1.1476 1.1517	1.0777 1.0777 1.0799	1B 2B 3B	1.095 1.095 J.0950	1.123 1.123 1.1125	1.1572 1.1572 1.1572	1.1716 1.1668 1.1644	1.2500 1.2500 1.2500
1/4-8 UN	2A 3A	0.0023 0.0000	1.2479 1.2500	1.2329 1.2350	1.2254	1.1667 1.1688	1.1597	1.0991	2B 3B	1.115	1.140 1.1297	1.1688	1.1780	1,2500
11/4-10 UNS	2A	0.0019	1.2481	1.2352	_	1.1831	1.1768	1.1291	213	1.142	1.163	1.1850	1.1932	1.2500
14-12 UNF	1A 2A 3A	8100.0 8100.0 0000.0	1.2482 1.2482 1.2500	1.2310 1.2368 1.2386	_	1.1941 1.1941 1.1959	1.1849 1.1879 1.1913	1.1490 1.1490 1.1508	1B 2B 3B	1.160 1.160 1.1600	1.178 1.178 1.1698	1.1959 1.1959 1.1959	1.2079 1.2039 1.2019	1.2500 1.2500 1.2500
11/4-14 UNS	2Λ	0.0016	1.2484	1.2381		1.2020	1.1966	1.1634	2B	1.173	1.188	1,2036	1.2106	1.2500
114-16 UN	2A 3A	0.0015	1.2485 1.2500	. 1.2391 1.2406	_	1.2079 1.2094	1.2028 1.2056	1.1740 1.1755	2B 3B	1.182 1.1820	1,196 1,1908	1.2094 1.2094	1.2160 1.2144	1.2500
1½-18 UNEF	zA 3A	0.0005	1.2485 1.2500	1.2398 1.2413	_	1.2124	1.2075	1.1824	2B 3B	1.190 1.1900	1.203 1.1980	1.2139	1.2202	1.2500
11/4-20 UN	2A 3A	0.0014 0.0000	1.2486 1.2500	1.2405	_	1.2161	1.2114 1.2140	1.1891 1.1905	2B 3B	1.196 1.1960	1.207	1.2175	1.2236	1.2500 1.2500
11/4-24 UNS	2Λ	0.0013	1.2487	1.2415	_	1.2216	1.2173	1.1991	213	1.205	1.215	1.2229	1.2285	1.2500
11/4-28 UN	2A 3A	0.0012 0.0000	1.2488 1.2500	1.2423	=	1.2256	1.2215	1.2062 1.2074	2B 3B	1.211 1.2110	1.220 1.2176	1.2268	1.2321 1.2308	1.2500 1.2500
15/16-8 UN	2A 3A	0.0021	1.3104 1.3125	1.2954	=	1.2292 1.2313	1.2221 1.2260	1.1616 1.1637	2B 3B	1.177 1.1770	1.202 1.1922	1.2313	1.2405	1.3125
15/1612 UN	2A 3A	0.0017	1.3108 1.3125	1.2994		1.2567 1.2584	1.2509 1.2541	1,2116	2B 3B	1.222 1.2220	1,240	1.2584	1.2659 1.2640	1.3125
15/16-16 UN	2A 3A	0.0015 0.5000	1.3110 1.3125	1.3016 1.3031	_	1.2704 1.2719	1.2653 1.2681	1.2365 1.2380	2B 3B	1.245 1.2450	1.259	1.2719	1.2785 1.2769	1.3125
15/16-18 UNEF	2A 3A	0.9015 0.0000	1.3110 1.3125	1.3023 1.3038	-	1,2749 1,2764	1.2700	1.2449 1.2464	2B 3B	1.252 1.2520	1.265 1.2605	1.2764	1.2827 1.281 t	1.3125
15/16-20 UN	2A 3A	0.0014 0.0000	1.3111	1.3030 1.3044		1.2786	1.2739 1.2765	1.2516 1.2530	2B 3B	1.258 1.2580	1.270 1.2662	1.2800	1,2861	1.3125

15∕16-28 UN	2A	0.0012	1.3113	1.3048		1.2881	1.2840	1.2687	2B	1.274	1.282	1.2893	1.2946	1.3125
11	3A	0.0000	1.3125	1.3060	•	1.2893	1.2862	1.2699	313	1.27.10	1.2801	1.2893	1.2933	1.3125
138-6 UNC	IA	0.0024	1.3726	1.3453	_	1.2643	1.2523	1.1742	ιB	1.195	1,225	1.2667	1,2822	1.3750
	2A 3A	0.0024	1.3726	1.3544	1.3453	1.2643	1.2563	1.1742	213	1.195	1.225	1.2667	1.2771	1.3750
136-8 UN	2A	0.0022	1.3750	1.3568	_	1.2667	1.2607	1.1766	зB	1.1950	1.2146	1.2667	1.2745	1.3750
178-0 (.11	3A	0.0002	1.3728	1.3578 1.3600	1.3503	1.2916	1.2844	1.2240	zB	1.240	1.265	1.2938	1.3031	1.3750
13/8-10 UNS	2A	0.0010	1.3731	1.3602		1.2938	1.2884	1.2262	3B	1.2400	1.2547	1.2938	1.3008	1.3750
13/8-12 UNF	l ia	1		-		1.3081	1.3018	1.2541	28	1.267	1.288	1.3100	1.3182	1.3750
470-12 CIVI	2A	0.0019	1.3731	1.3559 1.3617	_	1.3190	1.3096	1.2739	ıΒ	1.285	1.303	1.3209	1.3332	1.3750
	34	0.0000	1.3750	1.3636	_	1.3190	1.3127 1.3162	1.2739	2B	1.285	1.303	1.3209	1.3291	1.3750
138-14 UNS	2A	0.0016	1.3734	1.3631	_		_	1.2758	3B	1.2850	1.2948	1.3209	1.3270	1.3750
138-16 UN	2A	0.0015	1.3735	1.3641		1.3270	1.3216	1.2884	2B	1.298	1.314	1.3286	1.3356	1.3750
	3A	0.0000	1.3750	1.3656		I.3329 I.3344	1.3278 1.3306	1.2990	2B	1.307	1.321	1-3344	1.3410	1.3750
13/8-18 UNEF	2A -	0.0015	1.3735	1.3648		1.3374		1.3005	3B	1.3070	1.3158	1-3344	1.3394	1.3750
	3A	0.0000	1.3750	1.3663	_	1.3374	1.3325	1.3074	2B 3B	1.315	1.328	1.3389	1.3452	1.3750
13/8-20 UN	2Å	0.0014	1.3736	1.3655		1.3411	1.3364		2B	1.3150	1.3230	1.3389	1.3436	1.3750
	3A	0.0000	1.3750	1.3669		1.3425	1.3390	1.3141 1.3155	3B	1.321 1.3210	1.332	-3425	1.3486	1.3750
138-24 UNS	2Å	0.0013	1.3737	1.3665		1.3466	1.3423	1.3241	2B			1.3425	1.3470	1.3750
13/8-28 UN	2A	0.0012	1.3738	1.3673		1.3506	1.3465	T -	2B	1.330	1.340	1.3479	1.3535	1.3750
	3A	0.0000	1.3750	1.3685	_	1.3518	1.3487	1.3312 1.3324	3B	1.336 1.3360	1.345 1.3426	1.3518	1.3571	1.3750
17/16-6 UN	2A	0.0024	1.4351	1.4169	_	1.3268	1.3188	1.2367	2B		1.288	1.3518	1.3558	1.3750
	3A	0.0000	1.4375	1.4193		1.3292	1.3232	1.2391	3B	1.257 1.2570	1.288	1.3292	1.3396	1.4375
17/16−8 UN	2A	0.0022	1.4353	1.4203		1.3541	1.3469	1.2865	2B	1.302	1.327		1.3370	1.4375
	3A	0.0000	1.4375	1.4225	-	1.3563	1.3509	1.2887	3B	1.3020	1.3172	1.3563 1.3563	1.3657 1.3634	1.4375
17/16-12 UN	2A	0.0018	1.4357	1.4243		1.3816	1-3757	1.3365	2B	1.347	1.365	1.3834		1.4375
7	3A	0.0000	1.4375	1.4261	-	1.3834	1.3790	1.3383	зB	1.3470	1.3573	1,3834	1.3910 1.3891	1.4375
17/16–16 UN	2A	0.0016	1.4359	1.4265	-	1.3953	1.3901	1.3614	2B	1.370	1.384	1.3969	1.4037	1.4375
-7/- +0 TIMES	3A	0.0000	1.4375	1.4281	_	1.3969	1.3930	1.3630	3B	1.3700	1.3783	1.3969	1.4020	1.4375
1 ⁷ /16−18 UNEF	ZA	0.0015	1.4360	1.4273	-	1.3999	1.3949	1.3699	2B	1.377	1.390	1.4014	1.4079	1.4375
17/16-20 UN	3A	0.0000	1.4375	1.4288	-	1.4014	1.3977	1.3714	38	1.3770	1.3855	1.4014	1.4062	1.4375
1716-20 UN	ZA	0.0014	1.4361	1.4280	1	1.4036	1.3988	1.3766	2B	1.383	1.395	1.4050	1.4112	1.4375
17⁄16-28 UN	3A		1.4375	1.4294		1.4050	1-4014	t-3780	3B	1.3830	1.3912	1.4050	1.4096	1.4375
1 110-20 OIA	ZA 3A	0.0003	1.4362	1.4297	-	1.4130	1.4088	1.3936	2B	1.399	1.407	1,4143	1.4198	1.4375
	3"	0.0000	1.4375	1.4310		1.4143	1.4112	1.3949	3B	1.3990	1.4051	1.4143	1.4184	1.4375

Table 4 (Continued). Standard Series and Selected Combinations† — Unified Screw Threads

	<u> </u>	. :		Ê	zternal				Internal						
Nominal Size, Threads per Inch, and Series		Allow-	Major Diameter			Pitch D	Pitch Diameter			Minor Diameter		Pitch D	iameter	Major Diameter	
Designation ^e	Class	ance	Max ^h	Min	Min^d	Max*	Mia	Diam. ^a Max (Ref.)	Class	Min	Max	Min	Max	Min	
1½-6 UNC	1A 2A 3A	0.0024 0.0024 0.0000	1.4976 1.4976 1.5000	1.4703 1.4794 1.4818	1.4703	1.3893 1.3893 1.3917	1.3772 1.3812 1.3856	1.2992 1.2992 1.3016	1B 2B 3B	1.320 1.320 1.3200	1.350 1.350 1.3396	1.3917 1.3917 1.3917	1.4075 1.4022 1.3996	1,5000 1,5000 1,5000	
1½-8 UN	2A 3A	0.0022 0.0000	1.4978 1.5000	1.4828 1.4850	1.4753	1.4166 1.4188	1.4093 1.4133	1.3490 1.3512	2B 3B	1.365	1.390	1.4188	1.4283	1.5000	
1½-10 UNS	2A	0.0019	1.4981	1.4857	_	1.4331	1.4267	1.3791	2B	1.392	1.413	1.4350	1-4433	1,5000	
1½-12 UNF	1A 2A 3A	0.0019 0.0019 0.0000	1.4981 1.4981 1.5000	1.4869 1.4867 1.4886	=	1.4440 1.4440 1.4459	1.4344 1.4376 1.4411	1.3989 1.3989 1.4008	1B 2B 3B	1.410 1.410 1.4100	1.428 1.428 1.4198	1.4459 1.4459 1.4459	1.4584 1.4542 1.4522	1.5000 1.5000 1.5000	
1½-14 UNS	2/\	0.0017	1.4983	1.4880	_	1.4519	1.4464	1.4133	2B	1.423	1.438	1.4536	1.4608	1.5000	
1½-16 UN	2A 3A	0.0000	1.4984 1.5000	1.4890 1.4906	_	1.4578	1.4526 1.4555	1.4239 1.4255	2B 3B	1.432 1.4320	1-446 1-4408	1,4594	1.4662	1,5000	
1½-18 UNEF	2A 3A	0.0015 0.0000	1.4985	1.4898 1.4913	_	1.4624	1.4574 1.4602	1.4324 1.4339	28 3B	1.440 1.4400	1.452 1.4480	1.4639	1.4704	1.5000	
1½-20 UN	2A 3A	0.0014	1.4986 1.5000	1.4905 1.4919		1.4661 1.4675	1.4613 1.4639	1.4391	2B 3B	1.446 1.4460	1-457	1.4675	1-4737 1-4721	1.5000	
1½-24 UNS	2Λ	0.0013	1.4987	1.4915		1.4716	1.4672	1.4491	2B	1.455	1.465	1,4729	1.4787	1.5000	
1½-28 UN	2A 3A	0.0013 0.0000	1.4987 1.5000	1.4922	_	1.4755	1.4713	1.4561	2B 3B	t.46t t.46t0	1.470 1.4676	1.4768	1.4823	1,5000	
1%16-6 UN	2A 3A	0.0024 0.0000	1.5601 1.5625	1.5419 1.5443		1.4518 1.4542	1.4436 1.4481	1.3617 1.3641	2B 3B	1.382 1.3820	1.413 1.4021	1.4542	1.4648	1.5625	
1%16-8 UN	2A 3A	0.0022 0.0000	1.5603 1.5625	1.5453 1.5475	_	1.4791 1.4813	1.4717 1.4758	1.4115	2B 3B	1.427	1.452	1.4813	1.4909 1.4885	1.5625	
1%16-12 UN	2A 3A	0.0008	1.5607 1.5625	1.5493 1.5511	_	1.5066 1.5084	1.5007 1.5040	1.4615	2B 3B	1.472 1.4720	1.490 1.4823	1.5084	1.5160 1.5141	1.5625	
1%16-16 UN	2A 3A	0.0016	1.5609 1.5625	1.5515 1.5531	_	1.5203 1.5219	1.5151 1.5180	1.4864 1.4880	2B 3B	1.495 1.4950	1.509 1.5033	1.5219	1.5287	1.5625	
1%16-18 UNEF	2A 3A	0.0015 0.0000	1.5610 1.5625	1.5523 1.5538	_	1.5249 1.5264	1.5199	1.4949 1.4964	2B 3B	1.502 1.5020	1.515	1.5264 1.5264	1.5329	1.5625	

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1%16-20 UN	2A 3A	0.0014 0.0000	1.5611 1.5625	1.5530 1.5544		1.5286 1.5300	1.5238	1.5016	2B 3B	1.508 1.5080	1.520 1.5162	1.5300	1.5362 1.5346	1,5625
158-6 UN	2Λ 3Λ	0.0025	1.6225	1.6043 1.6068	_	1.5142	1.5060 1.5105	1.4246 1.4271	2B 3B	1.445 1.4450	1.475	1.5167	1.5274	1.6250
15/8-8 UN	2A 3A	0.0022	1.6228 1.6250	1.6078 1.6100	1.6003	1.5416 1.5438	1.5342	1.4784 1.4806	2B 3B	1.490	1.515	1.5438	1.5535	1,6250
15/8-10 UNS	2A	0.0019	1.6231	1.6102		1.5581	1.5517	1.5041	2B	1.517	1.5047 1.538	1.5438	1.5510	1,6250
15/8-12 UN	2A 3A	8100.0	1.6232 1.6250	1.6118 1.6136		1.5691	1.5632	1.5240	2B 3B	1.535 1.5350	1.553 1.5448	1.5709	1.5683	1.6250
15/8-14 UNS	2A	0.0017	1.6233	1.6130		1.5769	1.5714	1.5383	2B	1.548	1.564	1.5709	1.5766	1.6250
15/8-16 UN	2A 3A	0.0006	1.6234 1.6250	1.6140 1.6156		1.5828 1.5844	1.5776	1.5489 1.5505	2B 3B	1.557	1.571 1.5638	1.5844	1.5912	1.6250 1.6250 1.6250
15/8-18 UNEF	2A -3A	0.0015	1.6235 1.6250	1.6148 1.6163	_	1.5874 1.5889	1.5824 1.5852	1.5574 1.5589	2B 3B	1.565 1.5650	1.578	1.5889	1.5954	1.6250 1.6250
15/8–20 UN	2A 3A	0.0014 0.0000	1.6236 1.6250	1.6155 1.6169	- ,	1.5911 1.5925	1.5863 1.5889	1.5641 1.5655	2B 3B	1.571 1.5710	1.582	1.5925	1.5987	1.6250
15/8-24 UNS	2A	0.0013	1.6237	1.6165	_	1.5966	1.5922	1.5741	2B	r.580	1.590	1.5979	1.6037	1.6250
11/16-6 UN	2A 3A	0.0025 0.0000	1.6850 1.6875	1.6668 1.6693	_	1.5767 1.5792	1.5684 1.5730	1.4866 1.4891	2B 3B	1.507 1.5070	1.538	1.5792	1.5900	1.6875
11/16-8 UN	2A 3A	0.0022 0.0000	1.6853 1.6875	1.6703 1.6725	=	1.6041 1.6063	1.5966 1.6007	1.5365 1.5387	2B 3B	1.552 1.5520	1.577 1.5672	1.6063	1.6160	1.6875
¹ / ₁₆ –12 UN	2A 3A	8100.0	1.6857 1.6875	1.6743 1.6761	_	1.6316 1.6334	1.6256 1.6289	1.5865 1.5883	zB 3B	1.597 1.5970	1.615	1.6334	1.6412	1.6875
11/16-16 UN	2A 3A	0.0000	1.6859 1.6875	1.6765 1.6781	_	1.6453 1.6469	1.6400 1.6429	1.6114 1.6130	2B 3B	1.620 1.6200	1.634	1.6469	1.6538	1.6875
11/16-18 UNEF	2A 3A	0.0015 0.0000	1.6860 1.6875	1.6773 1.6788	= :	1.6499 1.6514	1.6448 1.6476	1.6199 1.6214	2B 3B	1.627 1.6270	1.640 1.6355	1.6514	1.6580	1.6875
11/16-20 UN	2A 3A	0.0015	1.6860 1.6875	1.6779 1.6794	_	1.6535 1.6550	1.6487 1.6514	1.6265 1.6280	2B 3B	1.633 1.6330	1.645	1.6550 1.6550	1.6613	1.6875
14-5 UNC	1A 2A 3A	0.0027 0.0027 0.0000	1.7473 1.7473 1.7500	1.7165 1.7268 1.7295	1.7165	1.6174 1.6174 1.6201	1.6040 1.6085 1.6134	1.5092 1.5092 1.5119	1B 2B 3B	1.534 1.534 1.5340	1.568 1.568 1.5575	1.6201 1.6201 1.6201	1.6375 1.6317 1.6288	1.7500 1.7500 1.7500

Table 4 (Continued). Standard Series and Selected Combinations† — Unified Screw Threads

				Е	xternal				Internal ^e						
Nominal Size, , Threads per Inch, and Series.		Allow-	Major Diameter			Pitch D	iameter	UNR Minor Diam."		Minor Diameter		Pitch D	iameter	Major Diameter	
Designation ^e	Class	ance	Max	Min	Min ^d	Max ^b	Min	Max (Ref.)	Class	Min	Max	Min	Max	Min	
1-74-6 UN	2A 3A	0.0025 0.0000	1.7475	1.7293 1.7318	_	1.6392 1.6417	1.6309 1.6354	1.5491 1.5516	2B 3B	1.570 1.5700	1.600 1.5896	1.6417	1 6525	1.7500	
1-3/4-8 UN	2A 3A	0.0023 0.0000	1.7477 1.7500	1.7327 1.7350	1.7252 —	1.6665 1.6688	1.6590 1.6632	1.5989	2B 3B	1.615 1.6150	1.640 1.6297	r.6688 r.6688	1.6786	1.7500	
1-74-10 UNS	2A :	0.0019	1.7481	1.7352	_	1.6831	1.6766	1,6291	28 -	1.642	1.663	1.6850	1.6934	1.7500	
1¾-12 UN	2A 3A	8100.0	1.7482 1.7500	1.7368 1.7386	_	1.6941 1.6959	1.6881 1.6914	1.6490 1.6508	2B 3B	1.660 1.6600	1.678	1.6959	1.7037	1.7500	
€4-14 UNS	2A	0.0017	1.7483	1.7380		1.7019	1.6963	1.6632	2B	1,673	1.688	1.7036	1.7109	1.7500	
1¾-16 UN	2A 3A	0.0016	1.7484 1.7500	1.7390 1.7406	=	1.7078	1.7025 1.7054	1.6739	2B 3B	1.682	1.696 1.6908	1.7094	1.7163	1.7500	
€¼18 UNS	2 /	0.0015	1.7485	1.7398	_	1.7124	1.7073	1.6824	213	1.690	1.703	1.7139	1.7205	1.7500	
1-1/4-20 UN	2A 3A	0.0015	1.7485 1.7500	1.7404	Ξ	1.7160	1.7112	1.6890 1.6905	2B 3B	1.696 1.6960	1.707 1.7037	1.7175	1.7238	1.7500	
1 ¹ / ₁₆ -6 UN	2A 3A	0.0025 0.0000	r.8100 r.8125	1.7918 1.7943	_	1.7017	1.6933 1.6979	1.6116 1.6141	2B 3B	1.632 1.6320	1.663 1.6521	1.7042	1.7151	1.8125	
1 ^{1,1} / ₁₆ –8 UN	2A 3A	0.0023 0.0000	1.8102 1.8125	1.7952 1.7975	=	1.7290	1.7214 1.7256	1.6614	2B 3B	1.677 1.6770	1.702	1.7313	1.7412	1.8125	
1 ^{1.7} /16–12 UN	2A 3A	8100.0	1.8107 1.8125	1.7993 1.8011	_	1.7566 1.7584	1.7506 1.7539	1.7115	2B 3B	1.722	1.740	1.7584	1.7662 1.7642	1.8125	
1 ¹³ /16–16 UN	2A 3A	0.0016 0.0000	1.8109 1.8125	1.8015 1.8031	_	1.7703	1.7650 1.7679	1.7364 1.7380	2B 3B	1.745 1.7450	1.759	1.7719	1.7788	1.8125	
1 ¹³ /16-20 UN	2A 3A	0.0015 0.0000	1.8110 1.8125	1.8029 1.8044		1.7785 1.7800	1.7737 1.7764	1.7515 1.7530	2B 3B	1.758	1.770	1.7800 1.7800	1.7863	1.8125	
1 ⁷ /8–6 UN	2A 3A	0.0025 0.0000	1.8725 1.8750	1.8543 1.8568	_	1.7642	1.7558 1.7604	1.6741	2B 3B	t.695 t.6950	1.725	1.7667	1.7777	1.8750	
1 ⁷ /s−8 UN	2A 3A	0.0023 0.0000	1.8727 1.8750	1.8577 1.860a	1.8502	1.7915	1.7838	1.7239	2B 3B	1.740	1.765	1.7938	1.8038 1.8013	1.8750	
138-10 UNS	2Λ	0.0019	1.8731	1.8602		1.8081	1.8016	1.7541	233	1.767	1.788	1.7930	1.8184	1.8750	

17/8-12 UN	2A 3A	8100.0	1.8732 1.8750	1.8618 1.8636	_	1.8191	1.8131 1.8164	1.7740	2B 3B	1.785	1.803 1.7948	t.8209 1.8209 .	1.8287	1.8750
17/4-14 UNS	2A	0.0017	1.8733	1.8630	_	1.8269	1.8213	1.7883	2B	1.798	1.814	1.8286	1.8359	1.8750
17/8-16 UN	2A 3A	0.0000	1.8734 1.8750	1.8640 1.8656	_	1.8328	1.8275 1.8304	1.7989 1.8005	2B 3B	1.807 1.8070	1.821	1.8344	1.8413 1.8396	1.8750
17/4-18 UNS	2Λ	0.0015	1.8735	1.8648	_	1.8374	1.8323	1.8074	2B	1.815	1.828	1.8389	1.8455	1.8750
17/8-20 UN	2A 3A	0.0015	1.8735 1.8750	1.8654	_	1.8410	1.8362 1.8389	1.8140 1.8155	2B 3B	1.821	1.832	1.8425	1.8488 1.8472	1.8750
115/16-6 UN	2A 3A	0.0026 0.0000	1.9349	1.9167	_	1.8266 1.8292	1.8181 1.8228	1.7365 1.7391	2B 3B	1.757	1.788	1.8292	1.8403 1.8375	1.9375
1 ¹⁵ /16-8 UN	2A 3A	0.0023 0.0000	1.9352 1.9375	1.9202		1.8540 1.8563	1.8463 1.8505	1.7864 1.7887	2B 3B	1.802	1.827	1.8563	1.8663 1.8638	1.9375 1.9375
1 ¹⁵ /16-12 UN	2A 3A	0.0018 0.0000	1.9357 1.9375	1.9243 1.9261	_	1.8816 1.8834	1.8755 1.8789	1.8365 1.8383	2B 3B	1.847 1.8470	1.865	1.8834 1.8834	1.8913	1.9375
1 15/16-16 UN	2A 3A	0.0016	1.9359	1.9265 1.9281	_	1.8953 1.8969	1.8899 1.8929	1.8614 1.8630	2B 3B	1.870 1.8700	1.884 1.8783	1.8969	1.9039	1.9375
1 ¹⁵ /16-20 UN	2A 3A	0.0015	1.9360 1.9375	1.9279 1.9294	=	1.9035 1.9050	1.8986 1.9013	1.8765 1.8780	2B 3B	1.883 1.8830	1.895	1.9050 1.9050	1.9114	1.9375
2-41/2 UNC	1A 2A 3A	0.0029 0.0029 0.0000	1.9971 1.9971 2.0000	1.9641 1.9751 1.9780	1.9641 —	1.8528 1.8528 1.8557	1.8385 1.8433 1.8486	1.7324 1.7324 1.7353	1B 2B 3B	1.759 1.759 1.7590	1.795 1.795 1.7861	1.8557 1.8557 1.8557	1.8743 1.8681 1.8650	2.0000 2.0000 2.0000
2-6 UN	2A 3A	0.0026	1.9974 2.0000	1.9792 1.9818	=	1.8891 1.8917	1.8805 1.8853	1.7990 1.8016	2B 3B	1.820 1.8200	1.850 1.8396	1.8917	1.9028	2,0000
2-8 UN	2A 3A	0.0023 0.0000	1.9977 2.0000	1.9827 1.9850	1.9752	1.9165	1.9087 1.9130	1.8489 1.8512	2B 3B	1.865 1.8650	1.890 1.8797	8810.1	1.9289	2.0000
2-10 UNS	2Λ	0.0020	1.9980	1.9851	_	1.9330	1.9265	1.8790	2B	1.892	1.913	1.9350	1.9435	2,0000
2-12 UN	2A 3A	0.0018 0.0000	1.9982 2.0000	1.9868 1.9886	_	1.9441 1.9459	1.9380	1.8990 1.9008	2B 3B	1.910	1.928 1.9198	1.9459	1.9538	2.0000 2.0000
2-14 UNS	2A	0.0017	1.9983	1.9880	_	1.9519	1.9462	1.9133	2B	1.923	1.938	1.9536	1.9610	2,0000
2–16 UN	2A 3A	0.0000	1.9984 2.0000	1.9890 1.9906	_	1.9578	1.9524 1.9554	1.9239 1.9255	2B 3B	1.932 1.9320	t.946 1.9468	1.9594	1.9664 1.9646	2.0000
2-18 UNS	2Λ	0.0015	1.9985	1.9898		1.9624	1.9573	1.9324	2B	1.940	1.953	1.9594	1.9706	2.0000

Table 4 (Continued). Standard Series and Selected Combinations† — Unified Screw Threads

Naminal Cia-	<u> </u>	γ		E	xternak				Internal ^e							
Nominal Size, Threads per Inch, and Series		Allow-	·	Major Diameter		Pitch D	iameter	UNR Minor Diam."		Minor Diameter		Pitch Diameter		Major Diameter		
Designation ^e	Class	ance	Max ^b	Min	Mind	Max*	Min	Max (Ref.)	Class	Min	Max	Min	Max	Min		
2-20 UN	2A 3A	0.0015	1.9985	1.9904 1.9919	_	1.9660 1.9675	1.9611 1.9638	1.9390 1.9405	2B 3B	1.946 1.9460	1.957	1.9675	1.9739	2.0000		
2/16-16 UNS	2A 3A	0.0016	2.0609 2.0625	2.0515 2.0531	=	2.0203	2.0149 2.0179	1.9864 1.9880	2B 3B	1.995	2.009 2.0033	2.0219	2.02Xy 2.0271	2.062		
21/x-6 UN	2A 3A	0.0026	2,1224 2,1250	2.1042 2.1068	_	2.0141 2.0167	2.0054 2.0102	1.9240	2B 3B	1.945	1.975	2.0167 2.0167	2.0280 2.0251	2.1250		
21/x-8 UN	2Λ 3Λ	0.0024 0.0000	2.1226 2.1250	2.1076 2.1100	2.1001	2.0414	2.0335 2.0379	1.9738	2B 3B	1.990 1.9900	2.015 2.0047	2.0438 2.0438	2.0540	2.1250 2.1250		
2 ¹ %-12 UN	2A 3A	8100.0 0000.0	2.1232 2.1250	2.1118 2.1136	_	2.0691 2.0709	2.0630 2.0664	2.0240 2.0258	2B -3B	2.035 2.0350	2.053 2.0448	2.0709 2.0709	2.0788 2.0768	2.1250		
21/8-16 UN	2A 3A	0.0006 0.0000	2.1234 2.1250	2.1140 2.1156	_	2.0828 2.0844	2.0774 2.0803	2.0489 2.0505	2B 3B	2.057 2.0570	2.071 2.0658	2.0844 2.0844	2.0914 2.0896	2.1250		
21/8-20 UN	2A 3A	0.0015 0.0000	2.1235 2.1250	2.1154 2.1169	_	2.0910 2.0925	2.0861 2.0888	2.0640 2.0655	2B 3B	2.071 2.0710	2.082	2.0925	2.0989 2.0973	2.1250 2.1250		
2 ³ /1616 UNS	2A 3A	0.0016	2.1859 2.1875	2.1765 2.1781	_	2.1453	2.1399 2.1428	2.1114 2.1130	2B 3B	2.120 2.1200	2.134 2.1283	2.1469 2.1469	2.1539	2.1875 2.1875		
214-41/2 UNC	1A 2A 3A	0.0029 0.0029 0.0000	2.2471 2.2471 2.2500	2.2141 2.2251 2.2280	2,2141 —	2.1028 2.1028 2.1057	2.0882 2.0931 2.0984	1.982.4 1.982.4 1.9853	1B 2B 3B	2.009 2.009 2.0090	2.045 2.045 2.0361	2.1057 2.1057 2.1057	2.1247 2.1183 2.1152	2.2500 2.2500 2.2500 2.2500		
21/4-6 UN	2A 3A	0.0026 0.0000	2.2474 2.2500	2.2292 2.2318	_	2.1391 2.1417	2.1303 2.1351	2.0490 2.0516	2B 3B	2.070 2.0700	2.100 2.0896	2.1417	2.1531	2.2500		
21/4-8 UN	2A 3A	0.002.4 0.0000	2,2476 2,2500	2,2326 2,2350	2.2251	2.1664 2.1688	2.1584 2.1628	2.0988 2.1012	2B 3B	2.115 2.1150	2.140 2.1207	2.1688 2.1688	2.1792	2,2500 2,2500 2,2500		
2 ^{1/4} =10 UNS	2A	0.0020	2.2480	2.2351		2.1830	2.1765	2.1290	213	2.142	2,163	2.1850	2.1935	2.2500		
214-12 UN	2A 3A	0.0018 0.0000	2,2482 2,2500	2.2368 2.2386	_	2.1941 2.1959	2.1880 2.1914	2.1490 2.1508	2B 3B	2.160 2.1600	2.178	2.1959	2.2038	2,2500 2,2500		
214-14 UNS	2Λ	0.0017	2.2483	2.2380	-	2.2019	2.1962	2.1633	213	2.173	2,188	2.2036	2.2110	2,2500		
2 ¹ 4 16 UN	2A 3A	0.0000	2.2484 2.2500	2.2390 2.2406		2.2078 2.2094	2.2024 2.2053	2.1739 2.1755	2B 3B	2.182 2.1820	2.196 2.1968	2,2094 2,2094	2,2164	2.2500 2.2500		

2 ¹ 4-18 UNS	2A	0.0015	2.2485	2.2398	_	2.2124	2.2073	2.1824	2B	2.190	2.203	2,2139	2.2206	2.2500
2 ¹ 4-20 UN	2A 3A	0.0015 0.0000	2.2485 2.25(H)	2,2404 2,2419	_	2.2160 2.2175	2.2111	2.1890 2.1905	2B 3B	2.196 2.1960	2.207	2.2175	2.2239	2.2500 2.2500
25 to -16 UNS	2A 3A	0.0017 0.0000	2.3108 2.3125	2.3014 2.3031	_	2.2702	2.2647 2.2678	2,2363 2,2380	2B 3B	2,245 2,2450	2.259	2.2719	2.2791	2.3125 2.3125
258-6 UN	2A 3A	0.0027 0.0000	2-3723 2-3750	2.3541 2.3568	_	2.2640	2.2551	2.1739 2.1766	2B 3B	2.195 2.1950	2.226	2.2667	2.2782	2.3750
2-388 UN	2A 3A	0.0024 0.0000	2.3726 2.3750	2.3576 2.3600	_	2.2914 2.2938	2.2833 2.2878	2,2238 2,2262	2B 3B	2.240 2.240	2.265	2.2938	2.2753 2.3043	2.3750 2.3750
238-12 UN	2A 3A	0.0000	2.3731 2.3750	2.3617 2.3636	_	2.3190 2.3209	2.3128 2.3163	2.2739 2.2758	2B 3B	2.285 2.2850	2.303	2.3209	2.3017 2.3290	2.3750 2.3750
258-16 UN	2A 3A	0.0017	2.3733 2.3750	2.3639 2.3656		2.3327 2.3344	2.3272	2.2988 2.3005	2B 3B	2.307 2.3070	2.2948	2.3209	2.3269 2.3416	2.3750 2.3750
2 ³ %-20 UN	2A 3Å	0.0015	2.3735 2.3750	2.3654 2.3669	_	2.3410 2.3425	2.3359 2.3387	2.3140 2.3155	2B 3B	2.321	2.3158	2.3344 2.3425	2.3398 2.3491	2.3750 2.3750
2716-16 UNS	2A 3A	0.0017	2.4358 2.4375	2.4264 2.4281	_	2.3952 2.3969	2.3897 2.3928	2.3613 2.3630	2B 3B	2.370 2.3700	2.3287	2.3425 2.3969	2-3475 2-4041	2.3750 2.4375
2 ¹ /2−4 UNC	1A 2A 3A	1500.0 1500.0 0000.0	2.4969 2.4969 2.5000	2.4612 2.4731 2.4762	2.4612	2.3345 2.3345 2.3376	2.3190 2.3241 2.3298	2.1992 2.1992 2.2023	1B 2B 3B	2.229 2.229 2.229	2.3783 2.267 2.267 2.2594	2.3969 2.3376 2.3376 2.3376	2.4023 2.3578 2.3511 2.3477	2.4375 2.5000 2.5000 2.5000
21/2-6 UN	2A 3A	0.0027 0.0000	2.4973 2.5000	2.4791 2.4818		2.3890 2.3917	2.3800 2.3850	2.2989 2.3016	2B 3B	2.320 2.3200	2.350 2.3396	2.3917 2.3917	2.4033	2.5000 2.5000
2½-8 UN	2A 3A	0.0024 0.0000	2.4976 2.5000	2.4826 2.4850	2.4751	2.4164	2.4082 2.4127	2.3488 2.3512	2B 3B	2.365 2.3650	2.390	2.4188 2.4188	2.4294 2.4268	2.5000
21/2-10 UNS	2Λ	0.0020	2.4980	2.4851		2.4330	2.4263	2.3790	2B	2.392	2.413	2.4350	2.4437	2.5000 2.5000
2½-12 UN	2A 3A	0.0019	2.4981 2.5000	2.4867 2.4886	_	2.4440 2.4459	2.4378 2.4413	2.3989 2.4008	2B 3B	2.410 2.4100	2.428 2.4198	2.4459 2.4459	2.4540 2.4519	2.5000 2.5000
2½=14 UNS	2A	0.0017	2.4983	2.4880		2.4519	2.4461	2.4133	zB	2,423	2.438	2.4536	2.4612	
2½-16 UN	2A 3A	0.0017	2.4983 2.5000	2.4889 2.4906	_	2.4577 2.4594	2.4522 2.4553	2.4238 2.4255	2B 3B	2.432 2.4320	2.446 2.4408	2.4594	2.4666	2.5000
2 ¹ /2–18 UNS	2A	0.0016	2.4984	2.4897		2.4623	2.4570	2.4323	2B	2.440	2-453	2.4594 2.4639	2.4648	2.5000
2½-20 UN	2A 3A	0.0005	2.4985 2.5000	2.4904 2.4919	_	2.4660 2.4675	2.4609 2.4637	2.4390 2.4405	2B 3B	2.446 2.4460	2.457 2.4537	2.4675 2.4675	2.4708 2.4741 2.4725	2.5000 2.5000 2.5000