Handbook H 28 (1969)

Part 4 of 6

The design of the depth step is based on the length from the centerline of the crest on the first full thread ridge (which is untouched by removal of the thread convolution or chamfer at the end of the thread plug gage). The length from the end of the thread gage to the depth step is calculated by adding $0.5p$ to the functional depth of the full depth thread form required in the product.

When measuring the step length over the end of the gage, the step length tolerance will apply only if the exact $0.5p$ length is held from the first full thread ridge centerline to the end. This dimension may vary without affecting the function, so long as the variation from $0.5p$ is taken into account, when measuring the step length over the end of the thread plug gage. Variation of the $0.5p$ dimension should be in a minus direction only and should not be of such magnitude as to infringe on the engaging flank of the first full thread ridge.

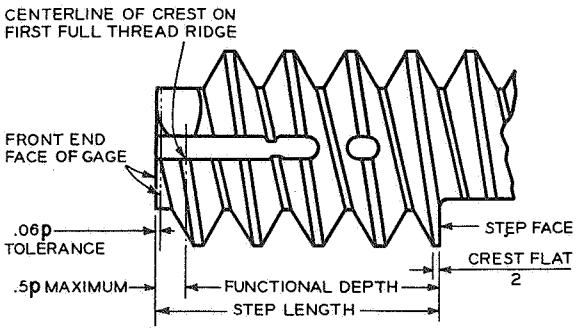


FIGURE 6.16. *Depth limit thread plug gage.*

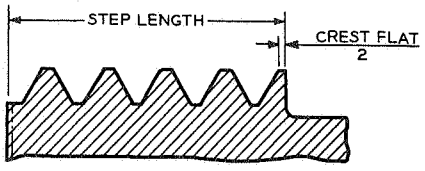


FIGURE 6.17. *Location of depth step on gage (in plane which bisects crest flat).*

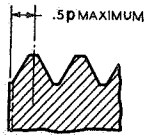


FIGURE 6.18. *Start of perfect thread on gage.*

5.7. DETERMINATION OF LIMITS OF SIZE OF GAGES

An example of limits of size and tolerances of gages required for an external and an internal thread is presented below. A diameter/pitch size was chosen from table 3.1. All calculations were made from the specifications and formulas in tables 6.6, 6.7, 6.8, and 6.9, p. 6.11.

Example: 2–18 UNS-2A

GAGES FOR PRODUCT EXTERNAL THREADS

	Max	Min	Tolerance
GO Thread Ring Gage			
Major Dia	Cleared		
Pitch Dia	1.9624	1.9620	0.0004
Minor Dia	1.9383	1.9378	0.0005
Truncated Setting Plug for GO Thread Ring Gage			
Major Dia:			
—Truncated Portion	1.9888	1.9883	0.0005
—Full Portion	1.9990	1.9985	0.0005
Pitch Dia	1.9624	1.9622	0.0002
Minor Dia	Cleared		
LO Thread Ring Gage			
Major Dia	Cleared		
Pitch Dia:			
—Tolerance plus	1.9577	1.9573	0.0004
—Tolerance minus	1.9573	1.9569	0.0004
Minor Dia	1.9458	1.9453	0.0005
Truncated Setting Plug for LO Thread Ring Gage			
Major Dia:			
—Truncated Portion	1.9814	1.9809	0.0005
—Full Portion	1.9990	1.9985	0.0005
Pitch Dia:			
—Tolerance plus	1.9575	1.9573	0.0002
—Tolerance minus	1.9573	1.9571	0.0002
Minor Dia	Cleared		
Basic-Crest Setting Plug for GO Thread Snap Gage			
Major Dia	1.9990	1.9985	0.0005
Pitch Dia	1.9624	1.9622	0.0002
Minor Dia	Cleared		
Basic-Crest Setting Plug for LO Thread Snap Gage			
Major Dia	1.9990	1.9985	0.0005
Pitch Dia:			
—Tolerance plus	1.9575	1.9573	0.0002
—Tolerance minus	1.9573	1.9571	0.0002
Minor Dia	Cleared		
GO Plain Ring or Snap Gage for Major Diameter			
Diameter	1.99850	1.99834	0.00016
NOT GO Plain Ring or Snap Gage for Major Diameter			
Diameter	1.98996	1.98980	0.00016

Example: 2–18 UNS-2B

GAGES FOR PRODUCT INTERNAL THREADS

	Max	Min	Tolerance
GO Thread Plug Gage			
Major Dia	2.0005	2.0000	0.0005
Pitch Dia	1.9643	1.9639	0.0004
Minor Dia	Cleared		
HI Thread Plug Gage			
Major Dia	1.9947	1.9942	0.0005
Pitch Dia:			
—Tolerance minus	1.9706	1.9702	0.0004
—Tolerance plus	1.9710	1.9706	0.0004
Minor Dia	Cleared		
GO Plain Plug Gage for Minor Diameter			
Diameter	1.94016	1.94000	0.00016
NOT GO Plain Plug Gage for Minor Diameter			
Diameter	1.95300	1.95284	0.00016

6. INDICATING THREAD GAGES

6.1. Many types of indicating thread gages have been designed to meet specific needs in gaging both external and internal threads. The following descriptions apply to gages for checking external threads. Comparable techniques and principles are utilized for checking internal threads but are not covered in detail herein.

6.2. There were many factors which encouraged the development of indicating thread gages such as:

(1) A need for a numerical value for size to facilitate adjustments of manufacturing tools or processes.

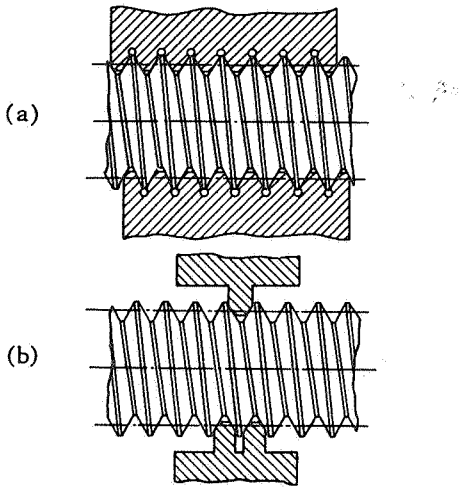
(2) Means for a faster method of gaging.

(3) Flexibility in application to accommodate the several tolerance classes both before and after coating.

(4) Ability to determine numerical values for deviations in the essential thread elements to serve more effectively the needs of statistical quality control techniques.

6.3. Practically all indicating thread gages utilize mechanisms which facilitate application of the gage to the product thread or application of the product thread to the gage. Gages are set to a thread setting plug or pair of thread setting plugs of known size. Deviations are read from a scale when utilizing mechanical, electronic, or pneumatic amplification, or from an enlarged image when utilizing optical projection.

6.4. It is generally impracticable to determine precisely the pitch diameter of product threads as defined because of variations in form and/or lead. However, the result obtained with many types of gages in gaging product threads is a close approximation of either pitch diameter or functional diameter. Certain types of gaging elements consisting of two or more rolls, segments, probes, or wires, with configurations as described and illustrated are in general use.

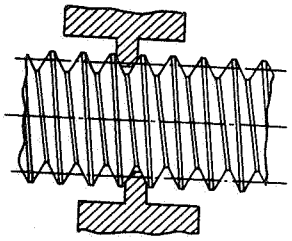


6.5. Some Representative Gaging Elements in Current Use.

(a) Gaging elements which, in length, approximate the width of the applicable GO thread ring gage blank and which, in contour, engage the product thread flank $0.625H$ (approximating the flank contact of the GO thread ring gage) check Functional Diameter (Defined in section 1).

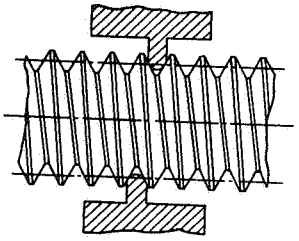
(b) Gaging elements which, in length, approximate two pitches and in contour, engage the product thread flank $0.375H$ (approximating the flank contact of the LO thread ring gage) check LO Minimum-Material Limit (Defined in section 1). (Deviation in product thread flank angle and lead affects this determination. See Notes 2 and 3 in par. 5.5, p. 6.21).

(c)



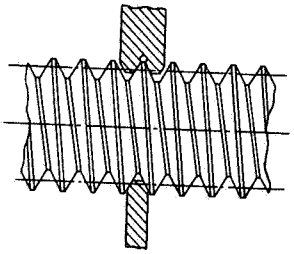
(c) Gaging elements which engage not over one pitch in length and in contour engage the product thread flank $0.375H$ (approximating the flank contact of the LO thread ring gage) check Groove Diameter to yield LO Minimum-Material Size. (Deviation in product thread flank angle affects this determination. See Note 2 in par. 5.5, p. 6.21.)

(d)



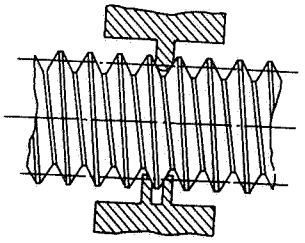
(d) Gaging elements which engage not over one pitch in length and have a curved contact simulating best wire size or contacts having a slight flat, check Thread Groove Diameter (Defined in section 1) closely approximating pitch diameter.[3] (See 6.6 j, k, l, or m).

(e)



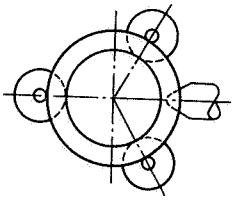
(e) Cone and vee[4] gaging elements which engage not over one pitch in length and in contour engage the flank $0.375H$ (approximating the flank contact of the LO thread ring gage) check groove and ridge diameter to yield LO Minimum-Material Size. (Deviation in product thread flank angle affects this determination. See Note 2 in par. 5.5, p. 6.21.)

(f)



(f) Cone and vee gaging elements which engage not over one pitch in length and have curved contacts simulating best wire size or contacts having a slight flat, check groove and ridge diameter closely approximating pitch diameter. (See 6.6 j, k, l, or m).

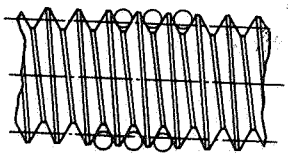
(g)



(g) Single radial probe contacting not more than one pitch, with ball point contact (simulating best size wire) checks Groove Diameter closely approximating pitch diameter. (See 6.6 k, j, l, or m).

(h) Same as (g) except with angular cone contact of the LO ring thread gage. Checks Groove Diameter to yield LO Minimum-Material Size. (Deviation in product thread flank angle affects this determination. See Note 2 in par. 5.5, p. 6.21).

(i)



(i) Wire gaging contacts (simulating best size wire) check Groove Diameter closely approximating pitch diameter.

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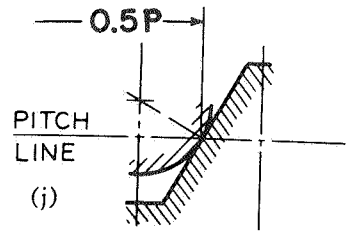
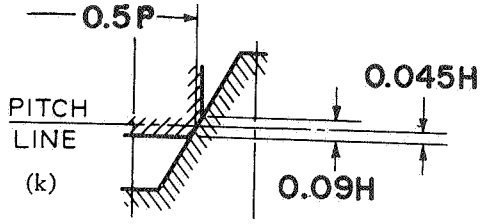
[3] The values obtained by the use of gaging elements shown above (Types d, f, g, and i) may be used to determine deviations from the size of respective setting plugs and may, through calculation, yield pitch diameter of the product threads.

[4] "Cone" signifies a single contact design which engages the product thread groove and complete reference must also state profile of contact. "Vee" signifies a double contact design which engages the product thread ridge and complete reference must also state profile of contact.

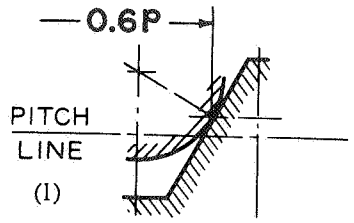


6.6. Typical cross sections of limited contact gaging elements are as follows:

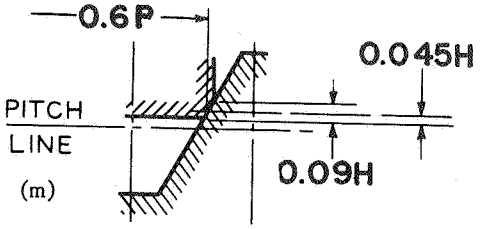
(j) Gaging elements with curved contacts simulating best wire size, designed to contact approximately at the pitch line.



(k) Gaging elements with short straight flank contacts, designed to straddle contact approximately at the pitch line.

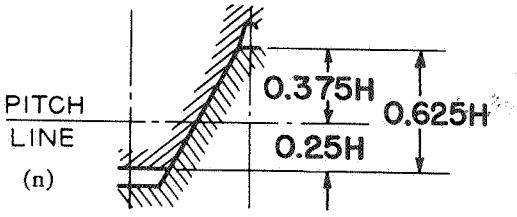


(l) Gaging elements with curved contacts designed to contact above the pitch line approximately midway on available flank (i.e., that flank which is engaged when using 6.7(o) gaging elements.)

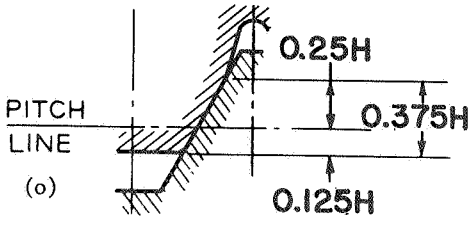


(m) Gaging elements with short straight flank contacts, designed to straddle contact above the pitch line approximately midway on available flank.

6.7. Cross sections of full and LO flank angle gaging elements are as follows:



(n) Gaging elements with full length flank contact, (approximating the flank contact of the GO thread ring gage) designed to contact for full depth of thread engagement.



(o) Gaging elements with LO (0.375*H*) flank contacts, (approximating the flank contact of the LO thread ring gage) designed to contact for partial depth of thread engagement.

6.8. The several designs of gages and multiplicity of gaging elements embrace developments over many years. Each was conceived to meet a specific need, and to the degree which that need was valid, and the gage filled it, that design has been utilized.

TABLE 6.19. *Gages for standard thread series, Unified screw threads*

Nominal size and threads per inch	Series designation	Class	Gages for external threads: X thread ring gages: GO: Pitch diameter	GO: Minor diameter	LO: Pitch diameter: Plus tolerance gage	LO: Pitch diameter: Minus tolerance gage	LO: Minor diameter	Z plain ring gages for major diameter: GO	NOT GO: Semi-finished	NOT GO: Unfinished hot-rolled material	Gages for internal threads: X thread plug gages: GO: Major diameter	GO: Pitch diameter	HI: Major diameter	HI: Pitch diameter: Minus tolerance gage	HI: Pitch diameter: Plus tolerance gage	Z plain plug gages for minor diameter: GO	NOT GO	Class	Series designation	Nominal size and threads per inch
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*			
.060–80	UNF	2A	0.0514	0.0460	0.0496	0.0496	0.0469	0.0595	0.0563	----------	0.0600	0.0519	0.0596	0.0542	0.0542	0.0465	0.0514	2B	UNF	.060–80
		3A	.0512	.0457	.0498	.0494	.0472	.0594	.0564	----------	.0603	.0521	.0593	.0540	.0544	.0466	.0513			
			.0519	.0465	.0506	.0506	.0479	.0600	.0568	----------	.0600	.0519	.0590	.0536	.0536	.0465	.0514	3B		
			.0517	.0462	.0508	.0504	.0482	.0599	.0569	----------	.0603	.0521	.0587	.0534	.0538	.0466	.0513			
.073–64	UNC	2A	.0623	.0555	.0603	.0603	.0569	.0724	.0686	----------	.0730	.0629	.0723	.0655	.0655	.0561	.0623	2B	UNC	.073–64
		3A	.0621	.0551	.0605	.0601	.0573	.0723	.0687	----------	.0734	.0631	.0719	.0653	.0657	.0562	.0622			
			.0629	.0561	.0614	.0614	.0580	.0730	.0692	----------	.0730	.0629	.0716	.0648	.0648	.0561	.0623	3B		
			.0627	.0557	.0616	.0612	.0584	.0729	.0693	----------	.0734	.0631	.0712	.0646	.0650	.0562	.0622			
.073–72	UNF	2A	.0634	.0574	.0615	.0615	.0585	.0724	.0689	----------	.0730	.0640	.0725	.0665	.0665	.0580	.0635	2B	UNF	.073–72
		3A	.0632	.0571	.0617	.0613	.0588	.0723	.0690	----------	.0733	.0642	.0722	.0663	.0667	.0581	.0634			
			.0640	.0580	.0626	.0626	.0596	.0730	.0695	----------	.0730	.0640	.0719	.0659	.0659	.0580	.0635	3B		
			.0638	.0577	.0628	.0624	.0599	.0729	.0696	----------	.0733	.0642	.0716	.0657	.0661	.0581	.0634			
.086–56	UNC	2A	.0738	.0661	.0717	.0717	.0678	.0854	.0813	----------	.0860	.0744	.0849	.0772	.0772	.0667	.0737	2B	UNC	.086–56
		3A	.0736	.0657	.0719	.0715	.0682	.0853	.0814	----------	.0864	.0746	.0845	.0770	.0774	.0668	.0736			
			.0744	.0667	.0728	.0728	.0689	.0860	.0819	----------	.0860	.0744	.0842	.0765	.0765	.0667	.0737	3B		
			.0742	.0663	.0730	.0726	.0693	.0859	.0820	----------	.0864	.0746	.0838	.0763	.0767	.0668	.0736			
.086–64	UNF	2A	.0753	.0685	.0733	.0733	.0699	.0854	.0816	----------	.0860	.0759	.0854	.0786	.0786	.0691	.0753	2B	UNF	.086–64
		3A	.0751	.0681	.0735	.0731	.0703	.0853	.0817	----------	.0864	.0761	.0850	.0784	.0788	.0692	.0752			
			.0759	.0691	.0744	.0744	.0710	.0860	.0822	----------	.0860	.0759	.0847	.0779	.0779	.0691	.0753	3B		
			.0757	.0687	.0746	.0742	.0714	.0859	.0823	----------	.0864	.0761	.0843	.0777	.0781	.0692	.0752			
.099–48	UNC	2A	.0848	.0758	.0825	.0825	.0780	.0983	.0938	----------	.0990	.0855	.0975	.0885	.0885	.0764	.0845	2B	UNC	.099–48
		3A	.0846	.0754	.0827	.0823	.0784	.0982	.0939	----------	.0994	.0857	.0971	.0883	.0887	.0765	.0844			
			.0855	.0765	.0838	.0838	.0793	.0990	.0945	----------	.0990	.0855	.0967	.0877	.0877	.0764	.0845	3B		
			.0853	.0761	.0840	.0836	.0797	.0989	.0946	----------	.0994	.0857	.0963	.0875	.0879	.0765	.0844			
.099–56	UNF	2A	.0867	.0790	.0845	.0845	.0806	.0983	.0942	----------	.0990	.0874	.0979	.0902	.0902	.0797	.0865	2B	UNF	.099–56
		3A	.0865	.0786	.0847	.0843	.0810	.0982	.0943	----------	.0994	.0876	.0975	.0900	.0904	.0798	.0864			
			.0874	.0797	.0858	.0858	.0819	.0990	.0949	----------	.0990	.0874	.0972	.0895	.0895	.0797	.0865	3B		
			.0872	.0793	.0860	.0856	.0823	.0989	.0950	----------	.0994	.0876	.0968	.0893	.0897	.0798	.0864			
.112–40	UNC	2A	.0950	.0842	.0925	.0925	.0871	.1112	.1061	----------	.1120	.0958	.1099	.0991	.0991	.0849	.0939	2B	UNC	.112–40
		3A	.0948	.0838	.0927	.0923	.0875	.1111	.1062	----------	.1124	.0960	.1095	.0989	.0993	.0850	.0938			
			.0958	.0850	.0939	.0939	.0885	.1120	.1069	----------	.1120	.0958	.1090	.0982	.0982	.0849	.0939	3B		
			.0956	.0846	.0941	.0937	.0889	.1119	.1070	----------	.1124	.0960	.1086	.0980	.0984	.0850	.0938			
.112–48	UNF	2A	.0978	.0888	.0954	.0954	.0909	.1113	.1068	----------	.1120	.0985	.1106	.1016	.1016	.0894	.0968	2B	UNF	.112–48
		3A	.0976	.0884	.0956	.0952	.0913	.1112	.1069	----------	.1124	.0987	.1102	.1014	.1018	.0895	.0967			
			.0985	.0895	.0967	.0967	.0922	.1120	.1075	----------	.1120	.0985	.1098	.1008	.1008	.0894	.0968	3B		
			.0983	.0891	.0969	.0965	.0926	.1119	.1076	----------	.1124	.0987	.1094	.1006	.1010	.0895	.0967			
.125–40	UNC	2A	.1080	.0972	.1054	.1054	.1000	.1242	.1191	----------	.1250	.1088	.1229	.1121	.1121	.0979	.1062	2B	UNC	.125–40
		3A	.1078	.0968	.1056	.1052	.1004	.1241	.1192	----------	.1254	.1090	.1225	.1119	.1123	.0980	.1061			
			.1088	.0980	.1069	.1069	.1015	.1250	.1199	----------	.1250	.1088	.1221	.1113	.1113	.0979	.1062	3B		
			.1086	.0976	.1071	.1067	.1019	.1249	.1200	----------	.1254	.1090	.1217	.1111	.1115	.0980	.1061			

.125-44	UNF	2A	.1095	.0997	.1070	.1070	.1021	.1243	.1195	---	.1250	.1102	.1232	.1134	.1134	.1004	.1079	2B	UNF	.125-44
		3A	.1093	.0993	.1072	.1068	.1025	.1242	.1196	---	.1254	.1104	.1228	.1132	.1136	.1005	.1078	3B		
			.1102	.1004	.1083	.1083	.1034	.1250	.1202	---	.1250	.1102	.1224	.1126	.1126	.1004	.1079			
			.1100	.1000	.1085	.1081	.1038	.1249	.1203	---	.1254	.1104	.1220	.1124	.1128	.1005	.1078			
.138-32	UNC	2A	.1169	.1034	.1141	.1141	.1073	.1372	.1312	---	.1380	.1177	.1349	.1214	.1214	.1040	.1140	2B	UNC	.138-32
		3A	.1166	.1029	.1144	.1138	.1078	.1371	.1313	---	.1385	.1180	.1344	.1211	.1217	.1041	.1139	3B		
			.1177	.1042	.1156	.1156	.1088	.1380	.1320	---	.1380	.1177	.1339	.1204	.1204	.1040	.1140			
			.1174	.1037	.1159	.1153	.1093	.1379	.1321	---	.1385	.1180	.1334	.1201	.1207	.1041	.1139			
.138-40	UNF	2A	.1210	.1102	.1184	.1184	.1130	.1372	.1321	---	.1380	.1218	.1360	.1252	.1252	.1110	.1190	2B	UNF	.138-40
		3A	.1208	.1098	.1186	.1182	.1134	.1371	.1322	---	.1384	.1220	.1356	.1250	.1254	.1111	.1189	3B		
			.1218	.1110	.1198	.1198	.1144	.1380	.1329	---	.1380	.1218	.1351	.1243	.1243	.1110	.1186			
			.1216	.1106	.1200	.1196	.1148	.1379	.1330	---	.1384	.1220	.1347	.1241	.1245	.1111	.1185			
.164-32	UNC	2A	.1428	.1293	.1399	.1399	.1331	.1631	.1571	---	.1640	.1437	.1610	.1475	.1475	.1300	.1390	2B	UNC	.164-32
		3A	.1425	.1288	.1402	.1396	.1336	.1630	.1572	---	.1645	.1440	.1605	.1472	.1478	.1301	.1389	3B		
			.1437	.1302	.1415	.1415	.1347	.1640	.1580	---	.1640	.1437	.1600	.1465	.1465	.1300	.1389			
			.1434	.1297	.1418	.1412	.1352	.1639	.1581	---	.1645	.1440	.1595	.1462	.1468	.1301	.1388			
.164-36	UNF	2A	.1452	.1332	.1424	.1424	.1364	.1632	.1577	---	.1640	.1460	.1616	.1496	.1496	.1340	.1420	2B	UNF	.164-36
		3A	.1450	.1328	.1426	.1422	.1368	.1631	.1578	---	.1644	.1462	.1612	.1494	.1498	.1341	.1419	3B		
			.1460	.1340	.1439	.1439	.1379	.1640	.1585	---	.1640	.1460	.1607	.1487	.1487	.1340	.1416			
			.1458	.1336	.1441	.1437	.1383	.1639	.1586	---	.1644	.1462	.1603	.1485	.1489	.1341	.1415			
.190-24	UNC	2A	.1619	.1439	.1586	.1586	.1496	.1890	.1818	---	.1900	.1629	.1852	.1672	.1672	.1450	.1560	2B	UNC	.190-24
		3A	.1616	.1434	.1589	.1583	.1501	.1889	.1819	---	.1905	.1632	.1847	.1669	.1675	.1451	.1559	3B		
			.1629	.1449	.1604	.1604	.1514	.1900	.1828	---	.1900	.1629	.1841	.1661	.1661	.1450	.1555			
			.1626	.1444	.1607	.1601	.1519	.1899	.1829	---	.1905	.1632	.1836	.1658	.1664	.1451	.1554			
.190-32	UNF	2A	.1688	.1553	.1658	.1658	.1590	.1891	.1831	---	.1900	.1697	.1871	.1736	.1736	.1560	.1640	2B	UNF	.190-32
		3A	.1685	.1548	.1661	.1655	.1595	.1890	.1832	---	.1905	.1700	.1866	.1733	.1739	.1561	.1639	3B		
			.1697	.1562	.1674	.1674	.1606	.1900	.1840	---	.1900	.1697	.1861	.1726	.1726	.1560	.1641			
			.1694	.1557	.1677	.1671	.1611	.1899	.1841	---	.1905	.1700	.1856	.1723	.1729	.1561	.1640			
.216-24	UNC	2A	.1879	.1699	.1845	.1845	.1755	.2150	.2078	---	.2160	.1889	.2113	.1933	.1933	.1710	.1810	2B	UNC	.216-24
		3A	.1876	.1694	.1848	.1842	.1760	.2149	.2079	---	.2165	.1892	.2108	.1930	.1936	.1711	.1809	3B		
			.1889	.1709	.1863	.1863	.1773	.2160	.2088	---	.2160	.1889	.2102	.1922	.1922	.1710	.1807			
			.1886	.1704	.1866	.1860	.1778	.2159	.2089	---	.2165	.1892	.2097	.1919	.1925	.1711	.1806			
.216-28	UNF	2A	.1918	.1763	.1886	.1886	.1809	.2150	.2085	---	.2160	.1928	.2125	.1970	.1970	.1770	.1860	2B	UNF	.216-28
		3A	.1915	.1758	.1889	.1883	.1814	.2149	.2086	---	.2165	.1931	.2120	.1967	.1973	.1771	.1859	3B		
			.1928	.1773	.1904	.1904	.1827	.2160	.2095	---	.2160	.1928	.2114	.1959	.1959	.1770	.1857			
			.1925	.1768	.1907	.1901	.1832	.2159	.2096	---	.2165	.1931	.2109	.1956	.1962	.1771	.1856			
.216-32	UNEF	2A	.1948	.1813	.1917	.1917	.1849	.2151	.2091	---	.2160	.1957	.2133	.1998	.1998	.1820	.1900	2B	UNEF	.216-32
		3A	.1945	.1808	.1920	.1914	.1854	.2150	.2092	---	.2165	.1960	.2128	.1995	.2001	.1821	.1899	3B		
			.1957	.1822	.1933	.1933	.1865	.2160	.2100	---	.2160	.1957	.2123	.1988	.1988	.1820	.1895			
			.1954	.1817	.1936	.1930	.1870	.2159	.2101	---	.2165	.1960	.2118	.1985	.1991	.1821	.1894			
.250-20	UNC	1A	.2164	.1947	.2108	.2108	.2000	.2489	.2367	---	.2500	.2175	.2465	.2248	.2248	.1960	.2070	1B	UNC	.250-20
		2A	.2161	.1942	.2111	.2105	.2005	.2488	.2368	---	.2505	.2178	.2460	.2245	.2251	.1961	.2069	2B		
			.2164	.1947	.2127	.2127	.2019	.2489	.2408	0.2367	.2500	.2175	.2441	.2224	.2224	.1960	.2070			
			.2161	.1942	.2130	.2124	.2024	.2488	.2409	.2368	.2505	.2178	.2436	.2221	.2227	.1961	.2069			
		3A	.2175	.1958	.2147	.2147	.2039	.2500	.2419	---	.2500	.2175	.2428	.2211	.2211	.1960	.2067	3B		
			.2172	.1953	.2150	.2144	.2044	.2499	.2420	---	.2505	.2178	.2423	.2208	.2214	.1961	.2066			
.250-28	UNF	1A	.2258	.2103	.2208	.2208	.2131	.2490	.2392	---	.2500	.2268	.2488	.2333	.2333	.2110	.2200	1B	UNF	.250-28
		2A	.2255	.2098	.2211	.2205	.2136	.2489	.2393	---	.2505	.2271	.2483	.2330	.2336	.2111	.2199	2B		
			.2258	.2103	.2225	.2225	.2148	.2490	.2425	---	.2500	.2268	.2466	.2311	.2311	.2110	.2200			
			.2255	.2098	.2228	.2222	.2153	.2489	.2426	---	.2505	.2271	.2461	.2308	.2314	.2111	.2199			
		3A	.2268	.2113	.2243	.2243	.2166	.2500	.2435	---	.2500	.2268	.2455	.2300	.2300	.2110	.2190	3B		
			.2265	.2108	.2246	.2240	.2171	.2499	.2436	---	.2505	.2271	.2450	.2297	.2303	.2111	.2189			
.250-32	UNEF	2A	.2287	.2152	.2255	.2255	.2187	.2490	.2430	---	.2500	.2297	.2474	.2339	.2339	.2160	.2240	2B	UNEF	.250-32
		3A	.2284	.2147	.2258	.2252	.2192	.2489	.2431	---	.2505	.2300	.2469	.2336	.2342	.2161	.2239	3B		
			.2297	.2162	.2273	.2273	.2205	.2500	.2440	---	.2500	.2297	.2463	.2328	.2328	.2160	.2229			
			.2294	.2157	.2276	.2270	.2210	.2499	.2441	---	.2505	.2300	.2458	.2325	.2331	.2161	.2228			
.3125-18	UNC	1A	.2752	.2511	.2691	.2691	.2571	.3113	.2982	---	.3125	.2764	.3084	.2843	.2843	.2520	.2650	1B	UNC	.3125-18
		2A	.2749	.2506	.2694	.2688	.2576	.3112	.2983	---	.3130	.2767	.3079	.2840	.2846	.2521	.2649	2B		
			.2752	.2511	.2712	.2712	.2592	.3113	.3026	.2982	.3125	.2764	.3058	.2817	.2817	.2520	.2650			
			.2749	.2506	.2715	.2709	.2597	.3112	.3027	.2983	.3130	.2767	.3053	.2814	.2820	.2521	.2649			
		3A	.2764	.2523	.2734	.2734	.2614	.3125	.3038	---	.3125	.2764	.3044	.2803	.2803	.2520	.2630	3B		
			.2761	.2518	.2737	.2731	.2619	.3124	.3039	---	.3130	.2767	.3039	.2800	.2806	.2521	.2629			

TABLE 6.19. *Gages for standard thread series, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	Gages for external threads								Gages for internal threads							Class	Series designation	Nominal size and threads per inch
			X thread ring gages					Z plain ring gages for major diameter			X thread plug gages					Z plain plug gages for minor diameter				
			GO		LO			GO	NOT GO		GO		HI			GO	NOT GO			
			Pitch diameter	Minor diameter	Pitch diameter		Minor diameter		Semi-finished	Unfinished hot-rolled material	Major diameter	Pitch diameter	Major diameter	Pitch diameter						
					Plus tolerance gage	Minus tolerance gage								Minus tolerance gage	Plus tolerance gage					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*			
.3125–20	UN	2A	0.2788	0.2571	0.2748	0.2748	0.2640	0.3113	0.3032	----------	0.3125	0.2800	0.3069	0.2852	0.2852	0.2580	0.2700	2B	UN	.3125–20
			.2785	.2566	.2751	.2745	.2645	.3112	.3033	----------	.3130	.2803	.3064	.2849	.2855	.2581	.2699			
		3A	.2800	.2583	.2770	.2770	.2662	.3125	.3044	----------	.3125	.2800	.3056	.2839	.2839	.2580	.2680	3B		
			.2797	.2578	.2773	.2767	.2667	.3124	.3045	----------	.3130	.2803	.3051	.2836	.2842	.2581	.2679			
		1A	.2843	.2663	.2788	.2788	.2698	.3114	.3006	----------	.3125	.2854	.3105	.2925	.2925	.2670	.2770	1B		
.3125–24	UNF	2A	.2840	.2658	.2791	.2785	.2703	.3113	.3007	----------	.3130	.2857	.3100	.2922	.2928	.2671	.2769			
			.2843	.2663	.2806	.2806	.2716	.3114	.3042	----------	.3125	.2854	.3082	.2902	.2902	.2670	.2770	2B	UNF	.3125–24
		3A	.2840	.2658	.2809	.2803	.2721	.3113	.3043	----------	.3130	.2857	.3077	.2899	.2905	.2671	.2769			
			.2854	.2674	.2827	.2827	.2737	.3125	.3053	----------	.3125	.2854	.3070	.2890	.2890	.2670	.2754	3B		
			.2851	.2669	.2830	.2824	.2742	.3124	.3054	----------	.3130	.2857	.3065	.2887	.2893	.2671	.2753			
.3125–28	UN	2A	.2883	.2728	.2849	.2849	.2772	.3115	.3050	----------	.3125	.2893	.3092	.2937	.2937	.2740	.2820	2B		
			.2880	.2723	.2852	.2846	.2777	.3114	.3051	----------	.3130	.2896	.3087	.2934	.2940	.2741	.2819		UN	.3125–28
		3A	.2893	.2738	.2867	.2867	.2790	.3125	.3060	----------	.3125	.2893	.3081	.2926	.2926	.2740	.2807	3B		
			.2890	.2733	.2870	.2864	.2795	.3124	.3061	----------	.3130	.2896	.3076	.2923	.2929	.2741	.2806			
.3125–32	UNEF	2A	.2912	.2777	.2880	.2880	.2812	.3115	.3055	----------	.3125	.2922	.3099	.2964	.2964	.2790	.2860	2B		
			.2909	.2772	.2883	.2877	.2817	.3114	.3056	----------	.3130	.2925	.3094	.2961	.2967	.2791	.2859		UNEF	.3125–32
		3A	.2922	.2787	.2898	.2898	.2830	.3125	.3065	----------	.3125	.2922	.3088	.2953	.2953	.2790	.2847	3B		
			.2919	.2782	.2901	.2895	.2835	.3124	.3066	----------	.3130	.2925	.3083	.2950	.2956	.2791	.2846			
		1A	.3331	.3060	.3266	.3266	.3131	.3737	.3595	----------	.3750	.3344	.3700	.3429	.3429	.3070	.3210	1B		
.375–16	UNC	2A	.3328	.3054	.3269	.3263	.3137	.3736	.3596	----------	.3756	.3347	.3694	.3426	.3432	.3071	.3209			
			.3331	.3060	.3287	.3287	.3152	.3737	.3643	0.3595	.3750	.3344	.3672	.3401	.3401	.3070	.3210	2B	UNC	.375–16
		3A	.3328	.3054	.3290	.3284	.3158	.3736	.3644	.3596	.3756	.3347	.3666	.3398	.3404	.3071	.3209			
			.3344	.3073	.3311	.3311	.3176	.3750	.3656	----------	.3750	.3344	.3658	.3387	.3387	.3070	.3182	3B		
			.3341	.3067	.3314	.3308	.3182	.3749	.3657	----------	.3756	.3347	.3652	.3384	.3390	.3071	.3181			
.375–20	UN	2A	.3413	.3196	.3372	.3372	.3264	.3738	.3657	----------	.3750	.3425	.3696	.3479	.3479	.3210	.3320	2B		
			.3410	.3191	.3375	.3369	.3269	.3737	.3658	----------	.3755	.3428	.3691	.3476	.3482	.3211	.3319		UN	.375–20
		3A	.3425	.3208	.3394	.3394	.3286	.3750	.3669	----------	.3750	.3425	.3682	.3465	.3465	.3210	.3297	3B		
			.3422	.3203	.3397	.3391	.3291	.3749	.3670	----------	.3755	.3428	.3677	.3462	.3468	.3211	.3296			
		1A	.3468	.3288	.3411	.3411	.3321	.3739	.3631	----------	.3750	.3479	.3733	.3553	.3553	.3300	.3400	1B		
.375–24	UNF	2A	.3465	.3283	.3414	.3408	.3326	.3738	.3632	----------	.3755	.3482	.3728	.3550	.3556	.3301	.3399			
			.3468	.3288	.3430	.3430	.3340	.3739	.3667	----------	.3750	.3479	.3708	.3528	.3528	.3300	.3400	2B	UNF	.375–24
		3A	.3465	.3283	.3433	.3427	.3345	.3738	.3668	----------	.3755	.3482	.3703	.3525	.3531	.3301	.3399			
			.3479	.3299	.3450	.3450	.3360	.3750	.3678	----------	.3750	.3479	.3696	.3516	.3516	.3300	.3372	3B		
			.3476	.3294	.3453	.3447	.3365	.3749	.3679	----------	.3755	.3482	.3691	.3513	.3519	.3301	.3371			
.375–28	UN	2A	.3507	.3352	.3471	.3471	.3394	.3739	.3674	----------	.3750	.3518	.3719	.3564	.3564	.3360	.3450	2B		
			.3504	.3347	.3474	.3468	.3399	.3738	.3675	----------	.3755	.3521	.3714	.3561	.3567	.3361	.3449		UN	.375–28
		3A	.3518	.3363	.3491	.3491	.3414	.3750	.3685	----------	.3750	.3518	.3708	.3553	.3553	.3360	.3426	3B		
			.3515	.3358	.3494	.3488	.3419	.3749	.3686	----------	.3755	.3521	.3703	.3550	.3556	.3361	.3425			
.375–32	UNEF	2A	.3537	.3402	.3503	.3503	.3435	.3740	.3680	----------	.3750	.3547	.3726	.3591	.3591	.3410	.3490	2B		
			.3534	.3397	.3506	.3500	.3440	.3739	.3681	----------	.3755	.3550	.3721	.3588	.3594	.3411	.3489		UNEF	.375–32
		3A	.3547	.3412	.3522	.3522	.3454	.3750	.3690	----------	.3750	.3547	.3715	.3580	.3580	.3410	.3469	3B		
			.3544	.3407	.3525	.3519	.3459	.3749	.3691	----------	.3755	.3550	.3710	.3577	.3583	.3411	.3468			

		1A	.3897	.3588	.3826	.3826	.3671	.4361	.4206	---------	.4375	.3911	.4312	.4003	.4003	.3600	.3760	1B		
			.3894	.3582	.3829	.3823	.3677	.4360	.4207	---------	.4381	.3914	.4306	.4000	.4006	.3601	.3759			
.4375-14	UNC	2A	.3897	.3588	.3850	.3850	.3695	.4361	.4258	.4206	.4375	.3911	.4281	.3972	.3972	.3600	.3760	2B	UNC	.4375-14
			.3894	.3582	.3853	.3847	.3701	.4360	.4259	.4207	.4381	.3914	.4275	.3969	.3975	.3601	.3759			
		3A	.3911	.3602	.3876	.3876	.3721	.4375	.4272	-------	.4375	.3911	.4266	.3957	.3957	.3600	.3717	3B		
			.3908	.3596	.3879	.3873	.3727	.4374	.4273	---------	.4381	.3914	.4260	.3954	.3960	.3601	.3716			
		2A	.3955	.3684	.3909	.3909	.3774	.4361	.4267	---------	.4375	.3969	.4299	.4028	.4028	.3700	.3840	2B		
.4375-16	UN		.3952	.3678	.3912	.3906	.3780	.4360	.4268	---------	.4381	.3972	.4293	.4025	.4031	.3701	.3839		UN	.4375-16
		3A	.3969	.3698	.3935	.3935	.3800	.4375	.4281	---------	.4375	.3969	.4285	.4014	.4014	.3700	.3800	3B		
			.3966	.3692	.3938	.3932	.3806	.4374	.4282	---------	.4381	.3972	.4279	.4011	.4017	.3701	.3799			
		1A	.4037	.3820	.3974	.3974	.3866	.4362	.4240	---------	.4375	.4050	.4348	.4131	.4131	.3830	.3950	1B		
			.4034	.3815	.3977	.3971	.3871	.4361	.4241	---------	.4380	.4053	.4343	.4128	.4134	.3831	.3949			
.4375-20	UNF	2A	.4037	.3820	.3995	.3995	.3887	.4362	.4281	---------	.4375	.4050	.4321	.4104	.4104	.3830	.3950	2B	UNF	.4375-20
			.4034	.3815	.3998	.3992	.3892	.4361	.4282	---------	.4380	.4053	.4316	.4101	.4107	.3831	.3949			
		3A	.4050	.3833	.4019	.4019	.3911	.4375	.4294	---------	.4375	.4050	.4308	.4091	.4091	.3830	.3916	3B		
			.4047	.3828	.4022	.4016	.3916	.4374	.4295	---------	.4380	.4053	.4303	.4088	.4094	.3831	.3915			
		2A	.4132	.3977	.4096	.4096	.4019	.4364	.4299	---------	.4375	.4143	.4344	.4189	.4189	.3990	.4070	2B		
.4375-28	UNEF		.4129	.3972	.4099	.4093	.4024	.4363	.4300	---------	.4380	.4146	.4339	.4186	.4192	.3991	.4069		UNEF	.4375-28
		3A	.4143	.3988	.4116	.4116	.4039	.4375	.4310	---------	.4375	.4143	.4333	.4178	.4178	.3990	.4051	3B		
			.4140	.3983	.4119	.4113	.4044	.4374	.4311	---------	.4380	.4146	.4328	.4175	.4181	.3991	.4050			
		2A	.4162	.4027	.4128	.4128	.4060	.4365	.4305	---------	.4375	.4172	.4351	.4216	.4216	.4040	.4110	2B		
.4375-32	UN		.4159	.4022	.4131	.4125	.4065	.4364	.4306	---------	.4380	.4175	.4346	.4213	.4219	.4041	.4109		UN	.4375-32
		3A	.4172	.4037	.4147	.4147	.4079	.4375	.4315	---------	.4375	.4172	.4340	.4205	.4205	.4040	.4094	3B		
			.4169	.4032	.4150	.4144	.4084	.4374	.4316	---------	.4380	.4175	.4335	.4202	.4208	.4041	.4093			
		1A	.4485	.4152	.4411	.4411	.4245	.4985	.4822	---------	.5000	.4500	.4930	.4597	.4597	.4170	.4340	1B		
			.4482	.4146	.4414	.4408	.4251	.4984	.4823	---------	.5006	.4503	.4924	.4594	.4600	.4171	.4339			
.500-13	UNC	2A	.4485	.4152	.4435	.4435	.4269	.4985	.4876	.4822	.5000	.4500	.4898	.4565	.4565	.4170	.4340	2B	UNC	.500-13
			.4482	.4146	.4438	.4432	.4275	.4984	.4877	.4823	.5006	.4503	.4892	.4562	.4568	.4171	.4339			
		3A	.4500	.4167	.4463	.4463	.4297	.5000	.4891	---------	.5000	.4500	.4881	.4548	.4548	.4170	.4284	3B		
			.4497	.4161	.4466	.4460	.4303	.4999	.4892	---------	.5006	.4503	.4875	.4545	.4551	.4171	.4283			
		2A	.4580	.4309	.4533	.4533	.4398	.4986	.4892	---------	.5000	.4594	.4926	.4655	.4655	.4320	.4460	2B		
.500-16	UN		.4577	.4303	.4536	.4530	.4404	.4985	.4893	---------	.5006	.4597	.4920	.4652	.4658	.4321	.4459		UN	.500-16
		3A	.4594	.4323	.4559	.4559	.4424	.5000	.4906	---------	.5000	.4594	.4911	.4640	.4640	.4320	.4419	3B		
			.4591	.4317	.4562	.4556	.4430	.4999	.4907	---------	.5006	.4597	.4905	.4637	.4643	.4321	.4418			
		1A	.4662	.4445	.4598	.4598	.4490	.4987	.4865	---------	.5000	.4675	.4976	.4759	.4759	.4460	.4570	1B		
			.4659	.4440	.4601	.4595	.4495	.4986	.4866	---------	.5005	.4678	.4971	.4756	.4762	.4461	.4569			
.500-20	UNF	2A	.4662	.4445	.4619	.4619	.4511	.4987	.4906	---------	.5000	.4675	.4948	.4731	.4731	.4460	.4570	2B	UNF	.500-20
			.4659	.4440	.4622	.4616	.4516	.4986	.4907	---------	.5005	.4678	.4943	.4728	.4734	.4161	.4569			
		3A	.4675	.4458	.4643	.4643	.4535	.5000	.4919	---------	.5000	.4675	.4934	.4717	.4717	.4460	.4537	3B		
			.4672	.4453	.4646	.4640	.4540	.4999	.4920	---------	.5005	.4678	.4929	.4714	.4720	.4461	.4536			
		2A	.4757	.4602	.4720	.4720	.4643	.4989	.4924	---------	.5000	.4768	.4971	.4816	.4816	.4610	.4700	2B		
.500-28	UNEF		.4754	.4597	.4723	.4717	.4648	.4988	.4925	---------	.5005	.4771	.4966	.4813	.4819	.4611	.4699		UNEF	.500-28
		3A	.4768	.4613	.4740	.4740	.4663	.5000	.4935	---------	.5000	.4768	.4959	.4804	.4804	.4610	.4676	3B		
			.4765	.4608	.4743	.4737	.4668	.4999	.4936	---------	.5005	.4771	.4954	.4801	.4807	.4611	.4675			
		2A	.4787	.4652	.4752	.4752	.4684	.4990	.4930	---------	.5000	.4797	.4977	.4842	.4842	.4660	.4740	2B		
.500-32	UN		.4784	.4647	.4755	.4749	.4689	.4989	.4931	---------	.5005	.4800	.4972	.4839	.4845	.4661	.4739		UN	.500-32
		3A	.4797	.4662	.4771	.4771	.4703	.5000	.4940	---------	.5000	.4797	.4966	.4831	.4831	.4660	.4719	3B		
			.4794	.4657	.4774	.4768	.4708	.4999	.4941	---------	.5005	.4800	.4961	.4828	.4834	.4661	.4718			
		1A	.5068	.4707	.4990	.4990	.4810	.5609	.5437	---------	.5625	.5084	.5547	.5186	.5186	.4720	.4900	1B		
			.5065	.4701	.4993	.4987	.4816	.5608	.5438	---------	.5631	.5087	.5541	.5183	.5189	.4721	.4899			
.5625-12	UNC	2A	.5068	.4707	.5016	.5016	.4836	.5609	.5495	.5437	.5625	.5084	.5513	.5152	.5152	.4720	.4900	2B	UNC	.5625-12
			.5065	.4701	.5019	.5013	.4842	.5608	.5496	.5438	.5631	.5087	.5507	.5149	.5155	.4721	.4899			
		3A	.5084	.4723	.5045	.5045	.4865	.5625	.5511	---------	.5625	.5084	.5496	.5135	.5135	.4720	.4843	3B		
			.5081	.4717	.5048	.5042	.4871	.5624	.5512	---------	.5631	.5087	.5490	.5132	.5138	.4721	.4842			
		2A	.5205	.4934	.5158	.5158	.5023	.5611	.5517	---------	.5625	.5219	.5551	.5280	.5280	.4950	.5090	2B		
.5625-16	UN		.5202	.4928	.5161	.5155	.5029	.5610	.5518	---------	.5631	.5222	.5545	.5277	.5283	.4951	.5089		UN	.5625-16
		3A	.5219	.4948	.5184	.5184	.5049	.5625	.5531	---------	.5625	.5219	.5536	.5265	.5265	.4950	.5040	3B		
			.5216	.4942	.5187	.5181	.5055	.5624	.5532	---------	.5631	.5222	.5530	.5262	.5268	.4951	.5039			
		1A	.5250	.5009	.5182	.5182	.5062	.5611	.5480	---------	.5625	.5264	.5594	.5353	.5353	.5020	.5150	1B		
			.5247	.5004	.5185	.5179	.5067	.5610	.5481	---------	.5630	.5267	.5589	.5350	.5356	.5021	.5149			
.5625-18	UNF	2A	.5250	.5009	.5205	.5205	.5085	.5611	.5524	---------	.5625	.5264	.5564	.5323	.5323	.5020	.5150	2B	UNF	.5625-18
			.5247	.5004	.5208	.5202	.5090	.5610	.5525	---------	.5630	.5267	.5559	.5320	.5326	.5021	.5149			
		3A	.5264	.5023	.5230	.5230	.5110	.5625	.5538	---------	.5625	.5264	.5549	.5308	.5308	.5020	.5106	3B		
			.5261	.5018	.5233	.5227	.5115	.5624	.5539	---------	.5630	.5267	.5544	.5305	.5311	.5021	.5105			

TABLE 6.19. *Gages for standard thread series, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	Gages for external threads							Gages for internal threads							Class	Series designation	Nominal size and threads per inch
			X thread ring gages					Z plain ring gages for major diameter		X thread plug gages					Z plain plug gages for minor diameter				
			GO		LO			GO	NOT GO	GO		HI			GO	NOT GO			
			Pitch diameter	Minor diameter	Pitch diameter		Minor diameter			Major diameter	Pitch diameter	Major diameter	Pitch diameter						
					Plus tolerance gage	Minus tolerance gage							Minus tolerance gage	Plus tolerance gage					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*			
.5625–20	UN	2A	0.5287	0.5070	0.5245	0.5245	0.5137	0.5612	0.5531	----------	0.5625	0.5300	0.5572	0.5355	0.5355	0.5080	0.5200	2B	UN	.5625–20
			.5284	.5065	.5248	.5242	.5142	.5611	.5532	----------	.5630	.5303	.5567	.5352	.5358	.5081	.5199			
		3A	.5300	.5083	.5268	.5268	.5160	.5625	.5544	----------	.5625	.5300	.5558	.5341	.5341	.5080	.5162	3B		
			.5297	.5078	.5271	.5265	.5165	.5624	.5545	----------	.5630	.5303	.5553	.5338	.5344	.5081	.5161			
.5625–24	UNEF	2A	.5342	.5162	.5303	.5303	.5213	.5613	.5541	----------	.5625	.5354	.5585	.5405	.5405	.5170	.5270	2B	UNEF	.5625–24
			.5339	.5157	.5306	.5300	.5218	.5612	.5542	----------	.5630	.5357	.5580	.5402	.5408	.5171	.5269			
		3A	.5354	.5174	.5325	.5325	.5235	.5625	.5553	----------	.5625	.5354	.5572	.5392	.5392	.5170	.5244	3B		
			.5351	.5169	.5328	.5322	.5240	.5624	.5554	----------	.5630	.5357	.5567	.5389	.5395	.5171	.5243			
.5625–28	UN	2A	.5382	.5227	.5345	.5345	.5268	.5614	.5549	----------	.5625	.5393	.5596	.5441	.5441	.5240	.5320	2B	UN	.5625–28
			.5379	.5222	.5348	.5342	.5273	.5613	.5550	----------	.5630	.5396	.5591	.5438	.5444	.5241	.5319			
		3A	.5393	.5238	.5365	.5365	.5288	.5625	.5560	----------	.5625	.5393	.5584	.5429	.5429	.5240	.5301	3B		
			.5390	.5233	.5368	.5362	.5293	.5624	.5561	----------	.5630	.5396	.5579	.5426	.5432	.5241	.5300			
.5625–32	UN	2A	.5412	.5277	.5377	.5377	.5309	.5615	.5555	----------	.5625	.5422	.5602	.5467	.5467	.5290	.5360	2B	UN	.5625–32
			.5409	.5272	.5380	.5374	.5314	.5614	.5556	----------	.5630	.5425	.5597	.5464	.5470	.5291	.5359			
		3A	.5422	.5287	.5396	.5396	.5328	.5625	.5565	----------	.5625	.5422	.5591	.5456	.5456	.5290	.5344	3B		
			.5419	.5282	.5399	.5393	.5333	.5624	.5566	----------	.5630	.5425	.5586	.5453	.5459	.5291	.5343			
.625–11	UNC	1A	.5644	.5250	.5561	.5561	.5364	.6234	.6052	----------	.6250	.5660	.6161	.5767	.5767	.5270	.5460	1B	UNC	.625–11
		2A	.5641	.5244	.5564	.5558	.5370	.6233	.6053	----------	.6256	.5663	.6155	.5764	.5770	.5271	.5459			
			.5644	.5250	.5589	.5589	.5392	.6234	.6113	0.6052	.6250	.5660	.6126	.5732	.5732	.5270	.5460	2B		
		3A	.5641	.5244	.5592	.5586	.5398	.6233	.6114	.6053	.6256	.5663	.6120	.5729	.5735	.5271	.5459			
			.5660	.5266	.5619	.5619	.5422	.6250	.6129	----------	.6250	.5660	.6108	.5714	.5714	.5270	.5391	3B		
			.5657	.5260	.5622	.5616	.5428	.6249	.6130	----------	.6256	.5663	.6102	.5711	.5717	.5271	.5390			
.625–12	UN	2A	.5693	.5332	.5639	.5639	.5459	.6234	.6120	----------	.6250	.5709	.6141	.5780	.5780	.5350	.5530	2B	UN	.625–12
			.5690	.5326	.5642	.5636	.5465	.6233	.6121	----------	.6256	.5712	.6135	.5777	.5783	.5351	.5529			
		3A	.5709	.5348	.5668	.5668	.5488	.6250	.6136	----------	.6250	.5709	.6123	.5762	.5762	.5350	.5463	3B		
			.5706	.5342	.5671	.5665	.5494	.6249	.6137	----------	.6256	.5712	.6117	.5759	.5765	.5351	.5462			
.625–16	UN	2A	.5830	.5559	.5782	.5782	.5647	.6236	.6142	----------	.6250	.5844	.6177	.5906	.5906	.5570	.5710	2B	UN	.625–16
			.5827	.5553	.5785	.5779	.5653	.6235	.6143	----------	.6256	.5847	.6171	.5903	.5909	.5571	.5709			
		3A	.5844	.5573	.5808	.5808	.5673	.6250	.6156	----------	.6250	.5844	.6161	.5890	.5890	.5570	.5662	3B		
			.5841	.5567	.5811	.5805	.5679	.6249	.6157	----------	.6256	.5847	.6155	.5887	.5893	.5571	.5661			
.625–18	UNF	1A	.5875	.5634	.5805	.5805	.5685	.6236	.6105	----------	.6250	.5889	.6221	.5980	.5980	.5650	.5780	1B	UNF	.625–18
		2A	.5872	.5629	.5808	.5802	.5690	.6235	.6106	----------	.6255	.5892	.6216	.5977	.5983	.5651	.5779			
			.5875	.5634	.5828	.5828	.5708	.6236	.6149	----------	.6250	.5889	.6190	.5949	.5949	.5650	.5780	2B		
		3A	.5872	.5629	.5831	.5825	.5713	.6235	.6150	----------	.6255	.5892	.6185	.5946	.5952	.5651	.5779			
			.5889	.5648	.5854	.5854	.5734	.6250	.6163	----------	.6250	.5889	.6175	.5934	.5934	.5650	.5730	3B		
			.5886	.5643	.5857	.5851	.5739	.6249	.6164	----------	.6255	.5892	.6170	.5931	.5937	.5651	.5729			
.625–20	UN	2A	.5912	.5695	.5869	.5869	.5761	.6237	.6156	----------	.6250	.5925	.6198	.5981	.5981	.5710	.5820	2B	UN	.625–20
			.5909	.5690	.5872	.5866	.5766	.6236	.6157	----------	.6255	.5928	.6193	.5978	.5984	.5711	.5819			
		3A	.5925	.5708	.5893	.5893	.5785	.6250	.6169	----------	.6250	.5925	.6184	.5967	.5967	.5710	.5787	3B		
			.5922	.5703	.5896	.5890	.5790	.6249	.6170	----------	.6255	.5928	.6179	.5964	.5970	.5711	.5786			

.625-24	UNEF	2A	.5967	.5787	.5927	.5927	.5837	.6238	.6166	---------	.6250	.5979	.6211	.6031	.6031	.5800	.5900	2B	UNEF	.625-24
		3A	.5964	.5782	.5930	.5924	.5842	.6237	.6167	---------	.6255	.5982	.6206	.6028	.6034	.5801	.5899	3B		
			.5979	.5799	.5949	.5949	.5859	.6250	.6178	---------	.6250	.5979	.6198	.6018	.6018	.5800	.5869			
			.5976	.5794	.5952	.5946	.5864	.6249	.6179	---------	.6255	.5982	.6193	.6015	.6021	.5801	.5868			
.625-28	UN	2A	.6007	.5852	.5969	.5969	.5892	.6239	.6174	---------	.6250	.6018	.6222	.6067	.6067	.5860	.5950	2B	UN	.625-28
		3A	.6004	.5847	.5972	.5966	.5897	.6238	.6175	---------	.6255	.6021	.6217	.6064	.6070	.5861	.5949	3B		
			.6018	.5863	.5990	.5990	.5913	.6250	.6185	---------	.6250	.6018	.6210	.6055	.6055	.5860	.5926			
			.6015	.5858	.5993	.5987	.5918	.6249	.6186	---------	.6255	.6021	.6205	.6052	.6058	.5861	.5925			
.625-32	UN	2A	.6036	.5901	.6000	.6000	.5932	.6239	.6179	---------	.6250	.6047	.6228	.6093	.6093	.5910	.5990	2B	UN	.625-32
		3A	.6033	.5896	.6003	.5997	.5937	.6238	.6180	---------	.6255	.6050	.6223	.6090	.6096	.5911	.5989	3B		
			.6047	.5912	.6020	.6020	.5952	.6250	.6190	---------	.6250	.6047	.6217	.6082	.6082	.5910	.5969			
			.6044	.5907	.6023	.6017	.5957	.6249	.6191	---------	.6255	.6050	.6212	.6079	.6085	.5911	.5968			
.6875-12	UN	2A	.6318	.5957	.6264	.6264	.6084	.6859	.6745	---------	.6875	.6334	.6766	.6405	.6405	.5970	.6150	2B	UN	.6875-12
		3A	.6315	.5951	.6267	.6261	.6090	.6858	.6746	---------	.6881	.6337	.6760	.6402	.6408	.5971	.6149	3B		
			.6334	.5973	.6293	.6293	.6113	.6875	.6761	---------	.6875	.6334	.6748	.6387	.6387	.5970	.6085			
			.6331	.5967	.6296	.6290	.6119	.6874	.6762	---------	.6881	.6337	.6742	.6384	.6390	.5971	.6084			
.6875-16	UN	2A	.6455	.6184	.6407	.6407	.6272	.6861	.6767	---------	.6875	.6469	.6802	.6531	.6531	.6200	.6340	2B	UN	.6875-16
		3A	.6462	.6178	.6410	.6404	.6278	.6860	.6768	---------	.6881	.6472	.6796	.6528	.6534	.6201	.6339	3B		
			.6469	.6198	.6433	.6433	.6298	.6875	.6781	---------	.6875	.6469	.6786	.6515	.6515	.6200	.6284			
			.6466	.6192	.6436	.6430	.6304	.6874	.6782	---------	.6881	.6472	.6780	.6512	.6518	.6201	.6283			
.6875-20	UN	2A	.6537	.6320	.6494	.6494	.6386	.6862	.6781	---------	.6875	.6550	.6823	.6606	.6606	.6330	.6450	2B	UN	.6875-20
		3A	.6534	.6315	.6497	.6491	.6391	.6861	.6782	---------	.6880	.6553	.6818	.6603	.6609	.6331	.6449	3B		
			.6550	.6333	.6518	.6518	.6410	.6875	.6794	---------	.6875	.6550	.6809	.6592	.6592	.6330	.6412			
			.6547	.6328	.6521	.6515	.6415	.6874	.6795	---------	.6880	.6553	.6804	.6589	.6595	.6331	.6411			
.6875-24	UNEF	2A	.6592	.6412	.6552	.6552	.6462	.6863	.6791	---------	.6875	.6604	.6836	.6656	.6656	.6420	.6520	2B	UNEF	.6875-24
		3A	.6589	.6407	.6555	.6549	.6467	.6862	.6792	---------	.6880	.6607	.6831	.6653	.6659	.6421	.6519	3B		
			.6604	.6424	.6574	.6574	.6484	.6875	.6803	---------	.6875	.6604	.6823	.6643	.6643	.6420	.6494			
			.6601	.6419	.6577	.6571	.6489	.6874	.6804	---------	.6880	.6607	.6818	.6640	.6646	.6421	.6493			
.6875-28	UN	2A	.6632	.6477	.6594	.6594	.6517	.6864	.6799	---------	.6875	.6643	.6847	.6692	.6692	.6490	.6570	2B	UN	.6875-28
		3A	.6629	.6472	.6597	.6591	.6522	.6863	.6800	---------	.6880	.6646	.6842	.6689	.6695	.6491	.6569	3B		
			.6643	.6488	.6615	.6615	.6538	.6875	.6810	---------	.6875	.6643	.6835	.6680	.6680	.6490	.6551			
			.6640	.6483	.6618	.6612	.6543	.6874	.6811	---------	.6880	.6646	.6830	.6677	.6683	.6491	.6550			
.6875-32	UN	2A	.6661	.6526	.6625	.6625	.6557	.6864	.6804	---------	.6875	.6672	.6853	.6718	.6718	.6540	.6610	2B	UN	.6875-32
		3A	.6658	.6521	.6628	.6622	.6562	.6863	.6805	---------	.6880	.6675	.6848	.6715	.6721	.6541	.6609	3B		
			.6672	.6537	.6645	.6645	.6577	.6875	.6815	---------	.6875	.6672	.6842	.6707	.6707	.6540	.6594			
			.6669	.6532	.6648	.6642	.6582	.6874	.6816	---------	.6880	.6675	.6837	.6704	.6710	.6541	.6593			
.750-10	UNC	1A	.6832	.6399	.6744	.6744	.6528	.7482	.7288	---------	.7500	.6850	.7398	.6965	.6965	.6420	.6630	1B	UNC	.750-10
		2A	.6829	.6393	.6747	.6741	.6534	.7481	.7289	---------	.7506	.6853	.7392	.6962	.6968	.6421	.6629	2B		
			.6832	.6399	.6773	.6773	.6557	.7482	.7353	.7288	.7500	.6850	.7360	.6927	.6927	.6420	.6630			
			.6829	.6393	.6776	.6770	.6563	.7481	.7354	.7289	.7506	.6853	.7354	.6924	.6930	.6421	.6629			
		3A	.6850	.6417	.6806	.6806	.6590	.7500	.7371	---------	.7500	.6850	.7340	.6907	.6907	.6420	.6545	3B		
			.6847	.6411	.6809	.6803	.6596	.7499	.7372	---------	.7506	.6853	.7334	.6904	.6910	.6421	.6544			
.750-12	UN	2A	.6942	.6581	.6887	.6887	.6707	.7483	.7369	---------	.7500	.6959	.7392	.7031	.7031	.6600	.6780	2B	UN	.750-12
		3A	.6939	.6575	.6890	.6884	.6713	.7482	.7370	---------	.7506	.6962	.7386	.7028	.7034	.6601	.6779	3B		
			.6959	.6598	.6918	.6918	.6738	.7500	.7386	---------	.7500	.6959	.7374	.7013	.7013	.6600	.6707			
			.6956	.6592	.6921	.6915	.6744	.7499	.7387	---------	.7506	.6962	.7368	.7010	.7016	.6601	.6706			
.750-16	UNF	1A	.7079	.6808	.7004	.7004	.6869	.7485	.7343	---------	.7500	.7094	.7463	.7192	.7192	.6820	.6960	1B	UNF	.750-16
		2A	.7076	.6802	.7007	.7001	.6875	.7484	.7344	---------	.7506	.7097	.7457	.7189	.7195	.6821	.6959	2B		
			.7079	.6808	.7029	.7029	.6894	.7485	.7391	---------	.7500	.7094	.7430	.7159	.7159	.6820	.6960			
			.7076	.6802	.7032	.7026	.6900	.7484	.7392	---------	.7506	.7097	.7424	.7156	.7162	.6821	.6959			
		3A	.7094	.6823	.7056	.7056	.6921	.7500	.7406	---------	.7500	.7094	.7414	.7143	.7143	.6820	.6908	3B		
			.7091	.6817	.7059	.7053	.6927	.7499	.7407	---------	.7506	.7097	.7408	.7140	.7146	.6821	.6907			
.750-20	UNEF	2A	.7162	.6945	.7118	.7118	.7010	.7487	.7406	---------	.7500	.7175	.7449	.7232	.7232	.6960	.7070	2B	UNEF	.750-20
		3A	.7159	.6940	.7121	.7115	.7015	.7486	.7407	---------	.7505	.7178	.7444	.7229	.7235	.6961	.7069	3B		
			.7175	.6958	.7142	.7142	.7034	.7500	.7419	---------	.7500	.7175	.7435	.7218	.7218	.6960	.7037			
			.7172	.6953	.7145	.7139	.7039	.7499	.7420	---------	.7505	.7178	.7430	.7215	.7221	.6961	.7036			
.750-28	UN	2A	.7256	.7101	.7218	.7218	.7141	.7488	.7423	---------	.7500	.7268	.7473	.7318	.7318	.7110	.7200	2B	UN	.750-28
		3A	.7253	.7096	.7221	.7215	.7146	.7487	.7424	---------	.7505	.7271	.7468	.7315	.7321	.7111	.7199	3B		
			.7268	.7113	.7239	.7239	.7162	.7500	.7435	---------	.7500	.7268	.7460	.7305	.7305	.7110	.7176			
			.7265	.7108	.7242	.7236	.7167	.7499	.7436	---------	.7505	.7271	.7455	.7302	.7308	.7111	.7175			
.750-32	UN	2A	.7286	.7151	.7250	.7250	.7182	.7489	.7429	---------	.7500	.7297	.7479	.7344	.7344	.7160	.7240	2B	UN	.750-32
		3A	.7283	.7146	.7253	.7247	.7187	.7488	.7430	---------	.7505	.7300	.7474	.7341	.7347	.7161	.7239	3B		
			.7297	.7162	.7270	.7270	.7202	.7500	.7440	---------	.7500	.7297	.7468	.7333	.7333	.7160	.7219			
			.7294	.7157	.7273	.7267	.7207	.7499	.7441	---------	.7505	.7300	.7463	.7330	.7336	.7161	.7218			

212-951 O - 76 - 11

TABLE 6.19. *Gages for standard thread series, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	Gages for external threads								Gages for internal threads							Class	Series designation	Nominal size and threads per inch
			X thread ring gages					Z plain ring gages for major diameter			X thread plug gages					Z plain plug gages for minor diameter				
			GO		LO			GO	NOT GO		GO		HI			GO	NOT GO			
			Pitch diameter	Minor diameter	Pitch diameter		Minor diameter		Semi-finished	Unfinished hot-rolled material	Major diameter	Pitch diameter	Major diameter	Pitch diameter						
					Plus tolerance gage	Minus tolerance gage								Minus tolerance gage	Plus tolerance gage					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
.8125-12	UN	2A	*in* 0.7567	*in* 0.7206	*in* 0.7512	*in* 0.7512	*in* 0.7332	*in* 0.8108	*in* 0.7994	*in*	*in* 0.8125	*in* 0.7584	*in* 0.8017	*in* 0.7656	*in* 0.7656	*in* 0.7220	*in* 0.7400	2B		
		3A	.7564	.7200	.7515	.7509	.7338	.8107	.7995		.8131	.7587	.8011	.7653	.7659	.7221	.7399	3B	UN	.8125-12
			.7584	.7223	.7543	.7543	.7363	.8125	.8011		.8125	.7584	.7999	.7638	.7638	.7220	.7329			
			.7581	.7217	.7546	.7540	.7369	.8124	.8012		.8131	.7587	.7993	.7635	.7641	.7221	.7328			
.8125-16	UN	2A	.7704	.7433	.7655	.7655	.7520	.8110	.8016		.8125	.7719	.8053	.7782	.7782	.7450	.7590	2B		
		3A	.7701	.7427	.7658	.7652	.7526	.8109	.8017		.8131	.7722	.8047	.7779	.7785	.7451	.7589	3B	UN	.8125-16
			.7719	.7448	.7683	.7683	.7548	.8125	.8031		.8125	.7719	.8037	.7766	.7766	.7450	.7533			
			.7716	.7442	.7686	.7680	.7554	.8124	.8032		.8131	.7722	.8031	.7763	.7769	.7451	.7532			
.8125-20	UNEF	2A	.7787	.7570	.7743	.7743	.7635	.8112	.8031		.8125	.7800	.8074	.7857	.7857	.7580	.7700	2B		
		3A	.7784	.7565	.7746	.7740	.7640	.8111	.8032		.8130	.7803	.8069	.7854	.7860	.7581	.7699	3B	UNEF	.8125-20
			.7800	.7583	.7767	.7767	.7659	.8125	.8044		.8125	.7800	.8060	.7843	.7843	.7580	.7662			
			.7797	.7578	.7770	.7764	.7664	.8124	.8045		.8130	.7803	.8055	.7840	.7846	.7581	.7661			
.8125-28	UN	2A	.7881	.7726	.7843	.7843	.7766	.8113	.8048		.8125	.7893	.8098	.7943	.7943	.7740	.7820	2B		
		3A	.7878	.7721	.7846	.7840	.7771	.8112	.8049		.8130	.7896	.8093	.7940	.7946	.7741	.7819	3B	UN	.8125-28
			.7893	.7738	.7864	.7864	.7787	.8125	.8060		.8125	.7893	.8085	.7930	.7930	.7740	.7801			
			.7890	.7733	.7867	.7861	.7792	.8124	.8061		.8130	.7896	.8080	.7927	.7933	.7741	.7800			
.8125-32	UN	2A	.7911	.7776	.7875	.7875	.7807	.8114	.8054		.8125	.7922	.8104	.7969	.7969	.7790	.7860	2B		
		3A	.7908	.7771	.7878	.7872	.7812	.8113	.8055		.8130	.7925	.8099	.7966	.7972	.7791	.7859	3B	UN	.8125-32
			.7922	.7787	.7895	.7895	.7827	.8125	.8065		.8125	.7922	.8093	.7958	.7958	.7790	.7844			
			.7919	.7782	.7898	.7892	.7832	.8124	.8066		.8130	.7925	.8088	.7955	.7961	.7791	.7843			
.875-9	UNC	1A	.8009	.7528	.7914	.7914	.7673	.87310	.85230		.8750	.8028	.8632	.8151	.8151	.75500	.77800	1B		
		2A	.8006	.7521	.7917	.7911	.7680	.87298	.85242		.8757	.8031	.8625	.8148	.8154	.75512	.77788	2B	UNC	.875-9
		3A	.8009	.7528	.7946	.7946	.7705	.87310	.85920	0.85230	.8750	.8028	.8591	.8110	.8110	.75500	.77800			
			.8006	.7521	.7949	.7943	.7712	.87298	.85932	.85242	.8757	.8031	.8584	.8107	.8113	.75512	.77788			
			.8028	.7547	.7981	.7981	.7740	.87500	.86110		.8750	.8028	.8570	.8089	.8089	.75500	.77810	3B		
			.8025	.7540	.7984	.7978	.7747	.87488	.86122		.8757	.8031	.8563	.8086	.8092	.75512	.76798			
.875-12	UN	2A	.8192	.7831	.8137	.8137	.7957	.87330	.86190		.8750	.8209	.8642	.8281	.8281	.78500	.80300	2B		
		3A	.8189	.7825	.8140	.8134	.7963	.87318	.86202		.8756	.8212	.8636	.8278	.8284	.78512	.80288	3B	UN	.875-12
			.8209	.7848	.8168	.8168	.7988	.87500	.86360		.8750	.8209	.8624	.8263	.8263	.78500	.79520			
			.8206	.7842	.8171	.8165	.7994	.87488	.86372		.8756	.8212	.8618	.8260	.8266	.78512	.79508			
.875-14	UNF	1A	.8270	.7961	.8189	.8189	.8034	.87340	.85790		.8750	.8286	.8701	.8392	.8392	.79800	.81400	1B		
		2A	.8267	.7955	.8192	.8186	.8040	.87328	.85802		.8756	.8289	.8695	.8389	.8395	.79812	.81388	2B	UNF	.875-14
		3A	.8270	.7961	.8216	.8216	.8061	.87340	.86310		.8750	.8286	.8665	.8356	.8356	.79800	.81400			
			.8267	.7955	.8219	.8213	.8067	.87328	.86322		.8756	.8289	.8659	.8353	.8359	.79812	.81388			
			.8286	.7977	.8245	.8245	.8090	.87500	.86470		.8750	.8286	.8648	.8339	.8339	.79800	.80680	3B		
			.8283	.7971	.8248	.8242	.8096	.87488	.86482		.8756	.8289	.8642	.8336	.8342	.79812	.80668			
.875-16	UN	2A	.8329	.8058	.8280	.8280	.8145	.87350	.86410		.8750	.8344	.8678	.8407	.8407	.80700	.82100	2B		
		3A	.8326	.8052	.8283	.8277	.8151	.87338	.86422		.8756	.8347	.8672	.8404	.8410	.80712	.82088	3B	UN	.875-16
			.8344	.8073	.8308	.8308	.8173	.87500	.86560		.8750	.8344	.8662	.8391	.8391	.80700	.81580			
			.8341	.8067	.8311	.8305	.8179	.87488	.86572		.8756	.8347	.8656	.8388	.8394	.80712	.81568			
.875-20	UNEF	2A	.8412	.8195	.8368	.8368	.8260	.87370	.86560		.8750	.8425	.8699	.8482	.8482	.82100	.83200	2B		
		3A	.8409	.8190	.8371	.8365	.8265	.87358	.86572		.8755	.8428	.8694	.8479	.8485	.82112	.83188		UNEF	
			.8425	.8208	.8392	.8392	.8284	.87500	.86690		.8750	.8425	.8685	.8468	.8468	.82100	.82970			
			.8422	.8203	.8395	.8389	.8289	.87488	.86702		.8755	.8428	.8680	.8465						

.875-28	UN	2A	.8506	.8351	.8468	.8468	.8391	.87380	.86730		.8750	.8518	.8723	.8568	.8568	.83600	.84500	2B	UN	.875-28
			.8503	.8346	.8471	.8465	.8396	.87368	.86742		.8755	.8521	.8718	.8565	.8571	.83612	.84488			
		3A	.8518	.8363	.8489	.8489	.8412	.87500	.86850		.8750	.8518	.8710	.8555	.8555	.83600	.84260	3B		
			.8515	.8358	.8492	.8486	.8417	.87488	.86862		.8755	.8521	.8705	.8552	.8558	.83612	.84248			
.875-32	UN	2A	.8536	.8401	.8500	.8500	.8432	.87390	.86790		.8750	.8547	.8729	.8594	.8594	.84100	.84900	2B	UN	.875-32
			.8533	.8396	.8503	.8497	.8437	.87378	.86802		.8755	.8550	.8724	.8591	.8597	.84112	.84888			
		3A	.8547	.8412	.8520	.8520	.8452	.87500	.86900		.8750	.8547	.8718	.8583	.8583	.84100	.84690	3B		
			.8544	.8407	.8523	.8517	.8457	.87488	.86912		.8755	.8550	.8713	.8580	.8586	.84112	.84678			
.9375-12	UN	2A	.8817	.8456	.8760	.8760	.8580	.93580	.92440		.9375	.8834	.9269	.8908	.8908	.84700	.86500	2B	UN	.9375-12
			.8814	.8450	.8763	.8757	.8586	.93568	.92452		.9381	.8837	.9263	.8905	.8911	.84712	.86488			
		3A	.8834	.8473	.8792	.8792	.8612	.93750	.92610		.9375	.8834	.9250	.8889	.8889	.84700	.85750	3B		
			.8831	.8467	.8795	.8789	.8618	.93738	.92622		.9381	.8837	.9244	.8886	.8892	.84712	.85738			
.9375-16	UN	2A	.8954	.8683	.8904	.8904	.8769	.93600	.92660		.9375	.8969	.9305	.9034	.9034	.87000	.88400	2B	UN	.9375-16
			.8951	.8677	.8907	.8901	.8775	.93588	.92672		.9381	.8972	.9299	.9031	.9037	.87012	.88388			
		3A	.8969	.8698	.8932	.8932	.8797	.93750	.92810		.9375	.8969	.9289	.9018	.9018	.87000	.87830	3B		
			.8966	.8692	.8935	.8929	.8803	.93738	.92822		.9381	.8972	.9283	.9015	.9021	.87012	.87818			
.9375-20	UNEF	2A	.9036	.8819	.8991	.8991	.8883	.93610	.92800		.9375	.9050	.9326	.9109	.9109	.88300	.89500	2B	UNEF	.9375-20
			.9033	.8814	.8994	.8988	.8888	.93598	.92812		.9380	.9053	.9321	.9106	.9112	.88312	.89488			
		3A	.9050	.8833	.9016	.9016	.8908	.93750	.92940		.9375	.9050	.9311	.9094	.9094	.88300	.89120	3B		
			.9047	.8828	.9019	.9013	.8913	.93738	.92952		.9380	.9053	.9306	.9091	.9097	.88312	.89108			
.9375-28	UN	2A	.9131	.8976	.9091	.9091	.9014	.93630	.92980		.9375	.9143	.9350	.9195	.9195	.89900	.90700	2B	UN	.9375-28
			.9128	.8971	.9094	.9088	.9019	.93618	.92992		.9380	.9146	.9315	.9192	.9198	.89912	.90688			
		3A	.9143	.8988	.9113	.9113	.9036	.93750	.93100		.9375	.9143	.9337	.9182	.9182	.89900	.90510	3B		
			.9140	.8983	.9116	.9110	.9041	.93738	.93112		.9380	.9146	.9332	.9179	.9185	.89912	.90498			
.9375-32	UN	2A	.9161	.9026	.9123	.9123	.9055	.93640	.93040		.9375	.9172	.9356	.9221	.9221	.90400	.91100	2B	UN	.9375-32
			.9158	.9021	.9126	.9120	.9060	.93628	.93052		.9380	.9175	.9351	.9218	.9224	.90412	.91088			
		3A	.9172	.9037	.9144	.9144	.9076	.93750	.93150		.9375	.9172	.9344	.9209	.9209	.90400	.90940	3B		
			.9169	.9032	.9147	.9141	.9081	.93738	.93162		.9380	.9175	.9339	.9206	.9212	.90412	.90928			
1.000-8	UNC	1A	.9168	.8627	.9067	.9067	.8796	.99800	.97550		1.0000	.9188	.9861	.9320	.9320	.86500	.89000	1B	UNC	1.000-8
			.9164	.8620	.9071	.9063	.8803	.99788	.97562		1.0007	.9192	.9854	.9316	.9324	.86512	.88988			
		2A	.9168	.8627	.9100	.9100	.8829	.99800	.98300	.97550	1.0000	.9188	.9817	.9276	.9276	.86500	.89000	2B		
			.9164	.8620	.9104	.9096	.8836	.99788	.98312	.97562	1.0007	.9192	.9810	.9272	.9280	.86512	.88988			
		3A	.9188	.8647	.9137	.9137	.8866	1.00000	.98500		1.0000	.9188	.9795	.9254	.9254	.86500	.87970	3B		
			.9184	.8640	.9141	.9133	.8873	.99988	.98512		1.0007	.9192	.9788	.9250	.9258	.86512	.87958			
1.000-12	UNF	1A	.9441	.9080	.9353	.9353	.9173	.99820	.98100		1.0000	.9459	.9934	.9573	.9573	.91000	.92800	1B	UNF	1.000-12
			.9438	.9074	.9356	.9350	.9179	.99808	.98112		1.0006	.9462	.9928	.9570	.9576	.91012	.92788			
		2A	.9441	.9080	.9382	.9382	.9202	.99820	.98680		1.0000	.9459	.9896	.9535	.9535	.91000	.92800	2B		
			.9438	.9074	.9385	.9379	.9208	.99808	.98692		1.0006	.9462	.9890	.9532	.9538	.91012	.92788			
		3A	.9459	.9098	.9415	.9415	.9235	1.00000	.98860		1.0000	.9459	.9877	.9516	.9516	.91000	.91980	3B		
			.9456	.9092	.9418	.9412	.9241	.99988	.98872		1.0006	.9462	.9871	.9513	.9519	.91012	.91968			
1.000-16	UN	2A	.9579	.9308	.9529	.9529	.9394	.99850	.98910		1.0000	.9594	.9930	.9659	.9659	.93200	.94600	2B	UN	1.000-16
			.9576	.9302	.9532	.9526	.9400	.99838	.98922		1.0006	.9597	.9924	.9656	.9662	.93212	.94588			
		3A	.9594	.9323	.9557	.9557	.9422	1.00000	.99060		1.0000	.9594	.9914	.9643	.9643	.93200	.94080	3B		
			.9591	.9317	.9560	.9554	.9428	.99988	.99072		1.0006	.9597	.9908	.9640	.9646	.93212	.94068			
1.000-20	UNEF	2A	.9661	.9444	.9616	.9616	.9508	.99860	.99050		1.0000	.9675	.9951	.9734	.9734	.94600	.95700	2B	UNEF	1.000-20
			.9658	.9439	.9619	.9613	.9513	.99848	.99062		1.0005	.9678	.9946	.9731	.9737	.94612	.95688			
		3A	.9675	.9458	.9641	.9641	.9533	1.00000	.99190		1.0000	.9675	.9936	.9719	.9719	.94600	.95370	3B		
			.9672	.9453	.9644	.9638	.9538	.99988	.99202		1.0005	.9678	.9931	.9716	.9722	.94612	.95358			
1.000-28	UN	2A	.9756	.9601	.9716	.9716	.9639	.99880	.99230		1.0000	.9768	.9975	.9820	.9820	.96100	.97000	2B	UN	1.000-28
			.9753	.9596	.9719	.9713	.9644	.99868	.99242		1.0005	.9771	.9970	.9817	.9823	.96112	.96988			
		3A	.9768	.9613	.9738	.9738	.9661	1.00000	.99350		1.0000	.9768	.9962	.9807	.9807	.96100	.96760	3B		
			.9765	.9608	.9741	.9735	.9666	.99988	.99362		1.0005	.9771	.9957	.9804	.9810	.96112	.96748			
1.000-32	UN	2A	.9786	.9651	.9748	.9748	.9680	.99890	.99290		1.0000	.9797	.9981	.9846	.9846	.96600	.97400	2B	UN	1.000-32
			.9783	.9646	.9751	.9745	.9685	.99878	.99302		1.0005	.9800	.9976	.9843	.9849	.96612	.97388			
		3A	.9797	.9662	.9769	.9769	.9701	1.00000	.99400		1.0000	.9797	.9969	.9834	.9834	.96600	.97190	3B		
			.9794	.9657	.9772	.9766	.9706	.99988	.99412		1.0005	.9800	.9964	.9831	.9837	.96612	.97178			
1.0625-8	UN	2A	.9793	.9252	.9725	.9725	.9454	1.06050	1.04550		1.0625	.9813	1.0443	.9902	.9902	.92700	.95200	2B	UN	1.0625-8
			.9789	.9245	.9729	.9721	.9461	1.06038	1.04562		1.0632	.9817	1.0436	.9898	.9906	.92712	.95188			
		3A	.9813	.9272	.9762	.9762	.9491	1.06250	1.04750		1.0625	.9813	1.0421	.9880	.9880	.92700	.94220	3B		
			.9809	.9265	.9766	.9758	.9498	1.06238	1.04762		1.0632	.9817	1.0414	.9876	.9884	.92712	.94208			
1.0625-12	UN	2A	1.0067	.9706	1.0010	1.0010	.9830	1.06080	1.04940		1.0625	1.0084	1.0519	1.0158	1.0158	.97200	.99000	2B	UN	1.0625-12
			1.0064	.9700	1.0013	1.0007	.9836	1.06068	1.04952		1.0631	1.0087	1.0513	1.0155	1.0161	.97212	.98988			
		3A	1.0084	.9723	1.0042	1.0042	.9862	1.06250	1.05110		1.0625	1.0084	1.0500	1.0139	1.0139	.97200	.98230	3B		
			1.0081	.9717	1.0045	1.0039	.9868	1.06238	1.05122		1.0631	1.0087	1.0494	1.0136	1.0142	.97212	.98218			

TABLE 6.19. *Gages for standard thread series, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	Gages for external threads							Gages for internal threads							Class	Series designation	Nominal size and threads per inch
			X thread ring gages					Z plain ring gages for major diameter		X thread plug gages					Z plain plug gages for minor diameter				
			GO		LO			GO	NOT GO	GO		HI			GO	NOT GO			
			Pitch diameter	Minor diameter	Pitch diameter		Minor diameter			Major diameter	Pitch diameter	Major diameter	Pitch diameter						
					Plus tolerance gage	Minus tolerance gage							Minus tolerance gage	Plus tolerance gage					
			Semi-finished	Unfinished hot-rolled material															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*			
1.0625–16	UN	2A	1.0204	.9933	1.0154	1.0154	1.0019	1.06100	1.05160	----------	1.0625	1.0219	1.0555	1.0284	1.0284	.99500	1.00900	2B	UN	1.0625–16
		3A	1.0201	.9927	1.0157	1.0151	1.0025	1.06088	1.05172	----------	1.0631	1.0222	1.0549	1.0281	1.0287	.99512	1.00888			
			1.0219	.9948	1.0182	1.0182	1.0047	1.06250	1.05310	----------	1.0625	1.0219	1.0539	1.0268	1.0268	.99500	1.00330	3B		
			1.0216	.9942	1.0185	1.0179	1.0053	1.06238	1.05322	----------	1.0631	1.0222	1.0533	1.0265	1.0271	.99512	1.00318			
1.0625–18	UNEF	2A	1.0250	1.0009	1.0203	1.0203	1.0083	1.06110	1.05240	----------	1.0625	1.0264	1.0567	1.0326	1.0326	1.00200	1.01500	2B	UNEF	1.0625–18
		3A	1.0247	1.0004	1.0206	1.0200	1.0088	1.06098	1.05252	----------	1.0630	1.0267	1.0562	1.0323	1.0329	1.00212	1.01488			
			1.0264	1.0023	1.0228	1.0228	1.0108	1.06250	1.05380	----------	1.0625	1.0264	1.0551	1.0310	1.0310	1.00200	1.01050	3B		
			1.0261	1.0018	1.0231	1.0225	1.0113	1.06238	1.05392	----------	1.0630	1.0267	1.0546	1.0307	1.0313	1.00212	1.01038			
1.0625–20	UN	2A	1.0286	1.0069	1.0241	1.0241	1.0133	1.06110	1.05300	----------	1.0625	1.0300	1.0576	1.0359	1.0359	1.00800	1.02000	2B	UN	1.0625–20
		3A	1.0283	1.0064	1.0244	1.0238	1.0138	1.06098	1.05312	----------	1.0630	1.0303	1.0571	1.0356	1.0362	1.00812	1.01988			
			1.0300	1.0083	1.0266	1.0266	1.0158	1.06250	1.05440	----------	1.0625	1.0300	1.0561	1.0344	1.0344	1.00800	1.01620	3B		
			1.0297	1.0078	1.0269	1.0263	1.0163	1.06238	1.05452	----------	1.0630	1.0303	1.0556	1.0341	1.0347	1.00812	1.01608			
1.0625–28	UN	2A	1.0381	1.0226	1.0341	1.0341	1.0264	1.06130	1.05480	----------	1.0625	1.0393	1.0600	1.0445	1.0445	1.02400	1.03200	2B	UN	1.0625–28
		3A	1.0378	1.0221	1.0344	1.0338	1.0269	1.06118	1.05492	----------	1.0630	1.0396	1.0595	1.0442	1.0448	1.02412	1.03188			
			1.0393	1.0238	1.0363	1.0363	1.0286	1.06250	1.05600	----------	1.0625	1.0393	1.0587	1.0432	1.0432	1.02400	1.03010	3B		
			1.0390	1.0233	1.0366	1.0360	1.0291	1.06238	1.05612	----------	1.0630	1.0396	1.0582	1.0429	1.0435	1.02412	1.02998			
1.125–7	UNC	1A	1.0300	.9681	1.0191	1.0191	.9882	1.12280	1.09820	----------	1.1250	1.0322	1.1082	1.0463	1.0463	.97000	.99800	1B	UNC	1.125–7
		2A	1.0296	.9674	1.0195	1.0187	.9889	1.12268	1.09832	----------	1.1257	1.0326	1.1075	1.0459	1.0467	.97012	.99788			
		3A	1.0300	.9681	1.0228	1.0228	.9919	1.12280	1.10640	1.09820	1.1250	1.0322	1.1035	1.0416	1.0416	.97000	.99800	2B		
			1.0296	.9674	1.0232	1.0224	.9926	1.12268	1.10652	1.09832	1.1257	1.0326	1.1028	1.0412	1.0420	.97012	.99788			
			1.0322	.9703	1.0268	1.0268	.9959	1.12500	1.10860	----------	1.1250	1.0322	1.1012	1.0393	1.0393	.97000	.98750	3B		
			1.0318	.9696	1.0272	1.0264	.9966	1.12488	1.10872	----------	1.1257	1.0326	1.1005	1.0389	1.0397	.97012	.98738			
1.125–8	UN	2A	1.0417	.9876	1.0348	1.0348	1.0077	1.12290	1.10790	1.10040	1.1250	1.0438	1.1069	1.0528	1.0528	.99000	1.01500	2B	UN	1.125–8
		3A	1.0413	.9869	1.0352	1.0344	1.0084	1.12278	1.10802	1.10052	1.1257	1.0442	1.1062	1.0524	1.0532	.99012	1.01488			
			1.0438	.9897	1.0386	1.0386	1.0115	1.12500	1.11000	----------	1.1250	1.0438	1.1046	1.0505	1.0505	.99000	1.00470	3B		
			1.0434	.9890	1.0390	1.0382	1.0122	1.12488	1.11012	----------	1.1257	1.0442	1.1039	1.0501	1.0509	.99012	1.00458			
1.125–12	UNF	1A	1.0691	1.0330	1.0601	1.0601	1.0421	1.12320	1.10600	----------	1.1250	1.0709	1.1187	1.0826	1.0826	1.03500	1.05300	1B	UNF	1.125–12
		2A	1.0688	1.0324	1.0604	1.0598	1.0427	1.12308	1.10612	----------	1.1256	1.0712	1.1181	1.0823	1.0829	1.03512	1.05288			
		3A	1.0691	1.0330	1.0631	1.0631	1.0451	1.12320	1.11180	----------	1.1250	1.0709	1.1148	1.0787	1.0787	1.03500	1.05300	2B		
			1.0688	1.0324	1.0634	1.0628	1.0457	1.12308	1.11192	----------	1.1256	1.0712	1.1142	1.0784	1.0790	1.03512	1.05288			
			1.0709	1.0348	1.0664	1.0664	1.0484	1.12500	1.11360	----------	1.1250	1.0709	1.1129	1.0768	1.0768	1.03500	1.04480	3B		
			1.0706	1.0342	1.0667	1.0661	1.0490	1.12488	1.11372	----------	1.1256	1.0712	1.1123	1.0765	1.0771	1.03512	1.04468			
1.125–16	UN	2A	1.0829	1.0558	1.0779	1.0779	1.0644	1.12350	1.11410	----------	1.1250	1.0844	1.1180	1.0909	1.0909	1.05700	1.07100	2B	UN	1.125–16
		3A	1.0826	1.0552	1.0782	1.0776	1.0650	1.12338	1.11422	----------	1.1256	1.0847	1.1174	1.0906	1.0912	1.05712	1.07088			
			1.0844	1.0573	1.0807	1.0807	1.0672	1.12500	1.11560	----------	1.1250	1.0844	1.1164	1.0893	1.0893	1.05700	1.06580	3B		
			1.0841	1.0567	1.0810	1.0804	1.0678	1.12488	1.11572	----------	1.1256	1.0847	1.1158	1.0890	1.0896	1.05712	1.06568			
1.125–18	UNEF	2A	1.0875	1.0634	1.0828	1.0828	1.0708	1.12360	1.11490	----------	1.1250	1.0889	1.1192	1.0951	1.0951	1.06500	1.07800	2B	UNEF	1.125–18
		3A	1.0872	1.0629	1.0831	1.0825	1.0713	1.12348	1.11502	----------	1.1255	1.0892	1.1187	1.0948	1.0954	1.06512	1.07788			
			1.0889	1.0648	1.0853	1.0853	1.0733	1.12500	1.11630	----------	1.1250	1.0889	1.1176	1.0935	1.0935	1.06500	1.07300	3B		
			1.0886	1.0643	1.0856	1.0850	1.0738	1.12488	1.11642	----------	1.1255	1.0892	1.1171	1.0932	1.0938	1.06512	1.07288			
1.125–20	UN	2A	1.0911	1.0694	1.0866	1.0866	1.0758	1.12360	1.11550	----------	1.1250	1.0925	1.1201	1.0984	1.0984	1.07100	1.08200	2B	UN	1.125–20
		3A	1.0908	1.0689	1.0869	1.0863	1.0763	1.12348	1.11562	----------	1.1255	1.0928	1 1196	1.0981	1.0987	1.07112	1.08188			
			1.0925	1.0708	1.0891	1.0891	1.0783	1.12500	1.11690	----------	1.1250	1.0925	1.1186	1.0969	1.0969	1.07100	1.07870	3B		
			1.0922	1.0703	1.0894	1.0888	1.0788	1.12488	1.11702	----------	1.1255	1.0928	1.1181	1.0966	1.0972	1.07112	1.07858			

1.125-28	UN	2A	1.1006	1.0851	1.0966	1.0966	1.0889	1.12380	1.11730	---------	1.1250	1.1018	1.1225	1.1070	1.1070	1.08600	1.09500	2B	UN	1.125-28
			1.1003	1.0846	1.0969	1.0963	1.0894	1.12368	1.11742	---------	1.1255	1.1021	1.1220	1.1067	1.1073	1.08612	1.09488			
		3A	1.1018	1.0863	1.0988	1.0988	1.0911	1.12500	1.11850	---------	1.1250	1.1018	1.1212	1.1057	1.1057	1.08600	1.09260	3B		
			1.1015	1.0858	1.0991	1.0985	1.0916	1.12488	1.11862	---------	1.1255	1.1021	1.1207	1.1054	1.1060	1.08612	1.09248			
1.1875-8	UN	2A	1.1042	1.0501	1.0972	1.0972	1.0701	1.18540	1.17040	---------	1.1875	1.1063	1.1695	1.1154	1.1154	1.05200	1.07700	2B	UN	1.1875-8
			1.1038	1.0494	1.0976	1.0968	1.0708	1.18528	1.17052	---------	1.1882	1.1067	1.1688	1.1150	1.1158	1.05212	1.07688			
		3A	1.1063	1.0522	1.1011	1.1011	1.0740	1.18750	1.17250	---------	1.1875	1.1063	1.1672	1.1131	1.1131	1.05200	1.06720	3B		
			1.1059	1.0515	1.1015	1.1007	1.0747	1.18738	1.17262	---------	1.1882	1.1067	1.1665	1.1127	1.1135	1.05212	1.06708			
1.1875-12	UN	2A	1.1317	1.0956	1.1259	1.1259	1.1079	1.18580	1.17440	---------	1.1875	1.1334	1.1770	1.1409	1.1409	1.09700	1.11500	2B	UN	1.1875-12
			1.1314	1.0950	1.1262	1.1256	1.1085	1.18568	1.17452	---------	1.1881	1.1337	1.1764	1.1406	1.1412	1.09712	1.11488			
		3A	1.1334	1.0973	1.1291	1.1291	1.1111	1.18750	1.17610	---------	1.1875	1.1334	1.1751	1.1390	1.1390	1.09700	1.10730	3B		
			1.1331	1.0967	1.1294	1.1288	1.1117	1.18738	1.17622	---------	1.1881	1.1337	1.1745	1.1387	1.1393	1.09712	1.10718			
1.1875-16	UN	2A	1.1454	1.1183	1.1403	1.1403	1.1268	1.18600	1.17660	---------	1.1875	1.1469	1.1806	1.1535	1.1535	1.12000	1.13400	2B	UN	1.1875-16
			1.1451	1.1177	1.1406	1.1400	1.1274	1.18588	1.17672	---------	1.1881	1.1472	1.1800	1.1532	1.1538	1.12012	1.13388			
		3A	1.1469	1.1198	1.1431	1.1431	1.1296	1.18750	1.17810	---------	1.1875	1.1469	1.1790	1.1519	1.1519	1.12000	1.12830	3B		
			1.1466	1.1192	1.1434	1.1428	1.1302	1.18738	1.17822	---------	1.1881	1.1472	1.1784	1.1516	1.1522	1.12012	1.12818			
1.1875-18	UNEF	2A	1.1499	1.1258	1.1450	1.1450	1.1330	1.18600	1.17730	---------	1.1875	1.1514	1.1818	1.1577	1.1577	1.12700	1.14000	2B	UNEF	1.1875-18
			1.1496	1.1253	1.1453	1.1447	1.1335	1.18588	1.17742	---------	1.1880	1.1517	1.1813	1.1574	1.1580	1.12712	1.13988			
		3A	1.1514	1.1273	1.1478	1.1478	1.1358	1.18750	1.17880	---------	1.1875	1.1514	1.1802	1.1561	1.1561	1.12700	1.13550	3B		
			1.1511	1.1268	1.1481	1.1475	1.1363	1.18738	1.17892	---------	1.1880	1.1517	1.1797	1.1558	1.1564	1.12712	1.13538			
1.1875-20	UN	2A	1.1536	1.1319	1.1489	1.1489	1.1381	1.18610	1.17800	---------	1.1875	1.1550	1.1828	1.1611	1.1611	1.13300	1.14500	2B	UN	1.1875-20
			1.1533	1.1314	1.1492	1.1486	1.1386	1.18598	1.17812	---------	1.1880	1.1553	1.1823	1.1608	1.1614	1.13312	1.14488			
		3A	1.1550	1.1333	1.1515	1.1515	1.1407	1.18750	1.17940	---------	1.1875	1.1550	1.1812	1.1595	1.1595	1.13300	1.14120	3B		
			1.1547	1.1328	1.1518	1.1512	1.1412	1.18738	1.17952	---------	1.1880	1.1553	1.1807	1.1592	1.1598	1.13312	1.14108			
1.1875-28	UN	2A	1.1631	1.1476	1.1590	1.1590	1.1513	1.18630	1.17980	---------	1.1875	1.1643	1.1851	1.1696	1.1696	1.14900	1.15700	2B	UN	1.1875-28
			1.1628	1.1471	1.1593	1.1587	1.1518	1.18618	1.17992	---------	1.1880	1.1646	1.1846	1.1693	1.1699	1.14912	1.15688			
		3A	1.1643	1.1488	1.1612	1.1612	1.1535	1.18750	1.18100	---------	1.1875	1.1643	1.1838	1.1683	1.1683	1.14900	1.15510	3B		
			1.1640	1.1483	1.1615	1.1609	1.1540	1.18738	1.18112	---------	1.1880	1.1646	1.1833	1.1680	1.1686	1.14912	1.15498			
1.250-7	UNC	1A	1.1550	1.0931	1.1439	1.1439	1.1130	1.24780	1.22320	---------	1.2500	1.1572	1.2335	1.1716	1.1716	1.09500	1.12300	1B	UNC	1.250-7
			1.1546	1.0924	1.1443	1.1435	1.1137	1.24768	1.22332	---------	1.2507	1.1576	1.2328	1.1720	1.1720	1.09512	1.12288			
		2A	1.1550	1.0931	1.1476	1.1476	1.1167	1.24780	1.23140	1.22320	1.2500	1.1572	1.2287	1.1668	1.1668	1.09500	1.12300	2B		
			1.1546	1.0924	1.1480	1.1472	1.1174	1.24768	1.23152	1.22332	1.2507	1.1576	1.2280	1.1664	1.1672	1.09512	1.12288			
		3A	1.1572	1.0953	1.1517	1.1517	1.1208	1.25000	1.23360	---------	1.2500	1.1572	1.2263	1.1644	1.1644	1.09500	1.11250	3B		
			1.1568	1.0946	1.1521	1.1513	1.1215	1.24988	1.23372	---------	1.2507	1.1576	1.2256	1.1640	1.1648	1.09512	1.11238			
2.250-8	UN	2A	1.1667	1.1126	1.1597	1.1597	1.1326	1.24790	1.23290	1.22540	1.2500	1.1688	1.2321	1.1780	1.1780	1.11500	1.14000	2B	UN	1.250-8
			1.1663	1.1119	1.1601	1.1593	1.1333	1.24778	1.23302	1.22552	1.2507	1.1692	1.2314	1.1776	1.1784	1.11512	1.13988			
		3A	1.1688	1.1147	1.1635	1.1635	1.1364	1.25000	1.23500	---------	1.2500	1.1688	1.2298	1.1757	1.1757	1.11500	1.12970	3B		
			1.1684	1.1140	1.1639	1.1631	1.1371	1.24988	1.23512	---------	1.2507	1.1692	1.2291	1.1753	1.1761	1.11512	1.12958			
1.250-12	UNF	1A	1.1941	1.1580	1.1849	1.1849	1.1669	1.24820	1.23100	---------	1.2500	1.1959	1.2440	1.2079	1.2079	1.16000	1.17800	1B	UNF	1.250-12
			1.1938	1.1574	1.1852	1.1846	1.1675	1.24808	1.23112	---------	1.2506	1.1962	1.2434	1.2076	1.2082	1.16012	1.17788			
		2A	1.1941	1.1580	1.1879	1.1879	1.1699	1.24820	1.23680	---------	1.2500	1.1959	1.2400	1.2039	1.2039	1.16000	1.17800	2B		
			1.1938	1.1574	1.1882	1.1876	1.1705	1.24808	1.23692	---------	1.2506	1.1962	1.2394	1.2036	1.2042	1.16012	1.17788			
		3A	1.1959	1.1598	1.1913	1.1913	1.1733	1.25000	1.23860	---------	1.2500	1.1959	1.2380	1.2019	1.2019	1.16000	1.16980	3B		
			1.1956	1.1592	1.1916	1.1910	1.1739	1.24988	1.23872	---------	1.2506	1.1962	1.2374	1.2016	1.2022	1.16012	1.16968			
1.250-16	UN	2A	1.2079	1.1808	1.2028	1.2028	1.1893	1.24850	1.23910	---------	1.2500	1.2094	1.2431	1.2160	1.2160	1.18200	1.19600	2B	UN	1.250-16
			1.2076	1.1802	1.2031	1.2025	1.1899	1.24838	1.23922	---------	1.2506	1.2097	1.2425	1.2157	1.2163	1.18212	1.19588			
		3A	1.2094	1.1823	1.2056	1.2056	1.1921	1.25000	1.24060	---------	1.2500	1.2094	1.2415	1.2144	1.2144	1.18200	1.19080	3B		
			1.2091	1.1817	1.2059	1.2053	1.1927	1.24988	1.24072	---------	1.2506	1.2097	1.2409	1.2141	1.2147	1.18212	1.19068			
1.250-18	UNEF	2A	1.2124	1.1883	1.2075	1.2075	1.1955	1.24850	1.23980	---------	1.2500	1.2139	1.2443	1.2202	1.2202	1.19000	1.20300	2B	UNEF	1.250-18
			1.2121	1.1878	1.2078	1.2072	1.1960	1.24838	1.23992	---------	1.2505	1.2142	1.2438	1.2199	1.2205	1.19012	1.20288			
		3A	1.2139	1.1898	1.2103	1.2103	1.1983	1.25000	1.24130	---------	1.2500	1.2139	1.2427	1.2186	1.2186	1.19000	1.19800	3B		
			1.2136	1.1893	1.2106	1.2100	1.1988	1.24988	1.25142	---------	1.2505	1.2142	1.2422	1.2183	1.2189	1.19012	1.19788			
1.250-20	UN	2A	1.2161	1.1944	1.2114	1.2114	1.2006	1.24860	1.24050	---------	1.2500	1.2175	1.2453	1.2236	1.2236	1.19600	1.20700	2B	UN	1.250-20
			1.2158	1.1939	1.2117	1.2111	1.2011	1.24848	1.24062	---------	1.2505	1.2178	1.2448	1.2233	1.2239	1.19612	1.20688			
		3A	1.2175	1.1958	1.2140	1.2140	1.2032	1.25000	1.24190	---------	1.2500	1.2175	1.2437	1.2220	1.2220	1.19600	1.20370	3B		
			1.2172	1.1953	1.2143	1.2137	1.2037	1.24988	1.24202	---------	1.2505	1.2178	1.2432	1.2217	1.2223	1.19612	1.20358			
1.250-28	UN	2A	1.2256	1.2101	1.2215	1.2215	1.2138	1.24880	1.24230	---------	1.2500	1.2268	1.2476	1.2321	1.2321	1.21100	1.22000	2B	UN	1.250-28
			1.2253	1.2096	1.2218	1.2212	1.2143	1.24868	1.24242	---------	1.2505	1.2271	1.2471	1.2318	1.2324	1.21112	1.21988			
		3A	1.2268	1.2113	1.2237	1.2237	1.2160	1.25000	1.24350	---------	1.2500	1.2268	1.2463	1.2308	1.2308	1.21100	1.21760	3B		
			1.2265	1.2108	1.2240	1.2234	1.2165	1.24988	1.24362	---------	1.2505	1.2271	1.2458	1.2305	1.2311	1.21112	1.21748			
1.3125-8	UN	2A	1.2292	1.1751	1.2221	1.2221	1.1950	1.31040	1.29540	---------	1.3125	1.2313	1.2946	1.2405	1.2405	1.17700	1.20200	2B	UN	1.3125-8
			1.2288	1.1744	1.2225	1.2217	1.1957	1.31028	1.29552	---------	1.3132	1.2317	1.2939	1.2401	1.2409	1.17712	1.20188			
		3A	1.2313	1.1772	1.2260	1.2260	1.1989	1.31250	1.29750	---------	1.3125	1.2313	1.2923	1.2382	1.2382	1.17700	1.19220	3B		
			1.2309	1.1765	1.2264	1.2256	1.1996	1.31238	1.29762	---------	1.3132	1.2317	1.2916	1.2378	1.2386	1.17712	1.19208			

TABLE 6.19. *Gages for standard thread series, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	Gages for external threads								Gages for internal threads							Class	Series designation	Nominal size and threads per inch
			X thread ring gages					Z plain ring gages for major diameter			X thread plug gages					Z plain plug gages for minor diameter				
			GO		LO			GO	NOT GO		GO		HI			GO	NOT GO			
			Pitch diameter	Minor diameter	Pitch diameter		Minor diameter		Semi-finished	Unfinished hot-rolled material	Major diameter	Pitch diameter	Major diameter	Pitch diameter						
					Plus tolerance gage	Minus tolerance gage								Minus tolerance gage	Plus tolerance gage					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*			
1.3125–12	UN	2A	1.2567	1.2206	1.2509	1.2509	1.2329	1.31080	1.29940	----------	1.3125	1.2584	1.3020	1.2659	1.2659	1.22200	1.24000	2B	UN	1.3125–12
		3A	1.2564	1.2200	1.2512	1.2506	1.2335	1.31068	1.29952	----------	1.3131	1.2587	1.3014	1.2656	1.2662	1.22212	1.23988			
			1.2584	1.2223	1.2541	1.2541	1.2361	1.31250	1.30110	----------	1.3125	1.2584	1.3001	1.2640	1.2640	1.22200	1.23230			
			1.2581	1.2217	1.2544	1.2538	1.2367	1.31238	1.30122	----------	1.3131	1.2587	1.2995	1.2637	1.2643	1.22212	1.23218	3B		
1.3125–16	UN	2A	1.2704	1.2433	1.2653	1.2653	1.2518	1.31100	1.30160	----------	1.3125	1.2719	1.3056	1.2785	1.2785	1.24500	1.25900	2B	UN	1.3125–16
		3A	1.2701	1.2427	1.2656	1.2650	1.2524	1.31088	1.30172	----------	1.3131	1.2722	1.3050	1.2782	1.2788	1.24512	1.25888			
			1.2719	1.2448	1.2681	1.2681	1.2546	1.31250	1.30310	----------	1.3125	1.2719	1.3040	1.2769	1.2769	1.24500	1.25330			
			1.2716	1.2442	1.2684	1.2678	1.2552	1.31238	1.30322	----------	1.3131	1.2722	1.3034	1.2766	1.2772	1.24512	1.25318	3B		
1.3125–18	UNEF	2A	1.2749	1.2508	1.2700	1.2700	1.2580	1.31100	1.30230	----------	1.3125	1.2764	1.3068	1.2827	1.2827	1.25200	1.26500	2B	UNEF	1.3125–18
		3A	1.2746	1.2503	1.2703	1.2697	1.2585	1.31088	1.30242	----------	1.3130	1.2767	1.3063	1.2824	1.2830	1.25212	1.26488			
			1.2764	1.2523	1.2728	1.2728	1.2608	1.31250	1.30380	----------	1.3125	1.2764	1.3052	1.2811	1.2811	1.25200	1.26050			
			1.2761	1.2518	1.2731	1.2725	1.2613	1.31238	1.30392	----------	1.3130	1.2767	1.3047	1.2808	1.2814	1.25212	1.26038	3B		
1.3125–20	UN	2A	1.2786	1.2569	1.2739	1.2739	1.2631	1.31110	1.30300	----------	1.3125	1.2800	1.3078	1.2861	1.2861	1.25800	1.27000	2B	UN	1.3125–20
		3A	1.2783	1.2564	1.2742	1.2736	1.2636	1.31098	1.30312	----------	1.3130	1.2803	1.3073	1.2858	1.2864	1.25812	1.26988			
			1.2800	1.2583	1.2765	1.2765	1.2657	1.31250	1.30440	----------	1.3125	1.2800	1.3062	1.2845	1.2845	1.25800	1.26620			
			1.2797	1.2578	1.2768	1.2762	1.2662	1.31238	1.30452	----------	1.3130	1.2803	1.3057	1.2842	1.2848	1.25812	1.26608	3B		
1.3125–28	UN	2A	1.2881	1.2726	1.2840	1.2840	1.2763	1.31130	1.30480	----------	1.3125	1.2893	1.3101	1.2946	1.2946	1.27400	1.28200	2B	UN	1.3125–28
		3A	1.2878	1.2721	1.2843	1.2837	1.2768	1.31118	1.30492	----------	1.3130	1.2896	1.3096	1.2943	1.2949	1.27412	1.28188			
			1.2893	1.2738	1.2862	1.2862	1.2785	1.31250	1.30600	----------	1.3125	1.2893	1.3088	1.2933	1.2933	1.27400	1.28010			
			1.2890	1.2733	1.2865	1.2859	1.2790	1.31238	1.30612	----------	1.3130	1.2896	1.3083	1.2930	1.2936	1.27412	1.27998	3B		
1.375–6	UNC	1A	1.2643	1.1921	1.2523	1.2523	1.2162	1.37260	1.34530	----------	1.3750	1.2667	1.3544	1.2822	1.2822	1.19500	1.22500	1B	UNC	1.375–6
		2A	1.2639	1.1913	1.2527	1.2519	1.2170	1.37248	1.34542	----------	1.3758	1.2671	1.3536	1.2818	1.2826	1.19512	1.22488			
		3A	1.2643	1.1921	1.2563	1.2563	1.2202	1.37260	1.35440	1.34530	1.3750	1.2667	1.3493	1.2771	1.2771	1.19500	1.22500			
			1.2639	1.1913	1.2567	1.2559	1.2210	1.37248	1.35452	1.34542	1.3758	1.2671	1.3485	1.2767	1.2775	1.19512	1.22488			
			1.2667	1.1945	1.2607	1.2607	1.2246	1.37500	1.35680	----------	1.3750	1.2667	1.3467	1.2745	1.2745	1.19500	1.21460			
			1.2663	1.1937	1.2611	1.2603	1.2254	1.37488	1.35692	----------	1.3758	1.2671	1.3459	1.2741	1.2749	1.19512	1.21448	3B		
1.375–8	UN	2A	1.2916	1.2375	1.2844	1.2844	1.2573	1.37280	1.35780	1.35030	1.3750	1.2938	1.3572	1.3031	1.3031	1.24000	1.26500	2B	UN	1.375–8
		3A	1.2912	1.2368	1.2848	1.2840	1.2580	1.37268	1.35792	1.35042	1.3757	1.2942	1.3565	1.3035	1.3035	1.24012	1.26488			
			1.2938	1.2397	1.2884	1.2884	1.2613	1.37500	1.36000	----------	1.3750	1.2938	1.3549	1.3008	1.3008	1.24000	1.25470			
			1.2934	1.2390	1.2888	1.2880	1.2620	1.37488	1.36012	----------	1.3757	1.2942	1.3542	1.3004	1.3012	1.24012	1.25458	3B		
1.375–12	UNF	1A	1.3190	1.2829	1.3096	1.3096	1.2916	1.37310	1.35590	----------	1.3750	1.3209	1.3693	1.3332	1.3332	1.28500	1.30300	1B	UNF	1.375–12
		2A	1.3187	1.2823	1.3099	1.3093	1.2922	1.37298	1.35602	----------	1.3756	1.3212	1.3687	1.3329	1.3335	1.28512	1.30288			
		3A	1.3190	1.2829	1.3127	1.3127	1.2947	1.37310	1.36170	----------	1.3750	1.3209	1.3652	1.3291	1.3291	1.28500	1.30300			
			1.3187	1.2823	1.3130	1.3124	1.2953	1.37298	1.36182	----------	1.3756	1.3212	1.3646	1.3288	1.3294	1.28512	1.30288			
			1.3209	1.2848	1.3162	1.3162	1.2982	1.37500	1.36360	----------	1.3750	1.3209	1.3631	1.3270	1.3270	1.28500	1.29480			
			1.3206	1.2842	1.3165	1.3159	1.2988	1.37488	1.36372	----------	1.3756	1.3212	1.3625	1.3267	1.3273	1.28512	1.29468	3B		
1.375–16	UN	2A	1.3329	1.3058	1.3278	1.3278	1.3143	1.37350	1.36410	----------	1.3750	1.3344	1.3681	1.3410	1.3410	1.30700	1.32100	2B	UN	1.375–16
		3A	1.3326	1.3052	1.3281	1.3275	1.3149	1.37338	1.36422	----------	1.3756	1.3347	1.3675	1.3407	1.3413	1.30712	1.32088			
			1.3344	1.3073	1.3306	1.3306	1.3171	1.37500	1.36560	----------	1.3750	1.3344	1.3665	1.3394	1.3394	1.30700	1.31580			
			1.3341	1.3067	1.3309	1.3303	1.3177	1.37488	1.36572	----------	1.3756	1.3347	1.3659	1.3391	1.3397	1.30712	1.31568	3B		
1.375–18	UNEF	2A	1.3374	1.3133	1.3325	1.3325	1.3205	1.37350	1.36480	----------	1.3750	1.3389	1.3693	1.3452	1.3452	1.31500	1.32800	2B	UNEF	1.375–18
		3A	1.3371	1.3128	1.3328	1.3322	1.3210	1.37338	1.36492	----------	1.3755	1.3392	1.3688	1.3449	1.3455	1.31512	1.32788			
			1.3389	1.3148	1.3353	1.3353	1.3233	1.37500	1.36630	----------	1.3750	1.3389	1.3677	1.3436	1.3436	1.31500	1.32300			
			1.3386	1.3143	1.3356	1.3350	1.3238	1.37488	1.36642	----------	1.3755	1.3392	1.3672	1.3433	1.3439	1.31512	1.32288	3B		

1.375-20	UN	2A	1.3411	1.3194	1.3364	1.3364	1.3256	1.37360	1.36550	---------	1.3750	1.3425	1.3703	1.3486	1.3486	1.32100	1.33200	2B	UN	1.375-20
			1.3408	1.3189	1.3367	1.3361	1.3261	1.37348	1.36562	---------	1.3755	1.3428	1.3698	1.3483	1.3489	1.32112	1.33188			
		3A	1.3425	1.3208	1.3390	1.3390	1.3282	1.37500	1.36690	---------	1.3750	1.3425	1.3687	1.3470	1.3470	1.32100	1.32870	3B		
			1.3422	1.3203	1.3393	1.3387	1.3287	1.37488	1.36702	---------	1.3755	1.3428	1.3682	1.3467	1.3473	1.32112	1.32858			
1.375-28	UN	2A	1.3506	1.3351	1.3465	1.3465	1.3388	1.37380	1.36730	---------	1.3750	1.3518	1.3726	1.3571	1.3571	1.33600	1.34500	2B	UN	1.375-28
			1.3503	1.3346	1.3468	1.3462	1.3393	1.37368	1.36742	---------	1.3755	1.3521	1.3721	1.3568	1.3574	1.33612	1.34488			
		3A	1.3518	1.3363	1.3487	1.3487	1.3410	1.37500	1.36850	---------	1.3750	1.3518	1.3713	1.3558	1.3558	1.33600	1.34260	3B		
			1.3515	1.3358	1.3490	1.3484	1.3415	1.37488	1.36862	---------	1.3755	1.3521	1.3708	1.3555	1.3561	1.33612	1.34248			
1.4375-6	UN	2A	1.3268	1.2546	1.3188	1.3188	1.2827	1.43510	1.41690	---------	1.4375	1.3292	1.4118	1.3396	1.3396	1.25700	1.28800	2B	UN	1.4375-6
			1.3264	1.2538	1.3192	1.3184	1.2835	1.43498	1.41702	---------	1.4383	1.3296	1.4110	1.3392	1.3400	1.25712	1.28788			
		3A	1.3292	1.2570	1.3232	1.3232	1.2871	1.43750	1.41930	---------	1.4375	1.3292	1.4092	1.3370	1.3370	1.25700	1.27710	3B		
			1.3288	1.2562	1.3236	1.3228	1.2879	1.43738	1.41942	---------	1.4383	1.3296	1.4084	1.3366	1.3374	1.25712	1.27698			
1.4375-8	UN	2A	1.3541	1.3000	1.3469	1.3469	1.3198	1.43530	1.42030	---------	1.4375	1.3563	1.4198	1.3657	1.3657	1.30200	1.32700	2B	UN	1.4375-8
			1.3537	1.2993	1.3473	1.3465	1.3205	1.43518	1.42042	---------	1.4382	1.3567	1.4191	1.3653	1.3661	1.30212	1.32688			
		3A	1.3563	1.3022	1.3509	1.3509	1.3238	1.43750	1.42250	---------	1.4375	1.3563	1.4175	1.3634	1.3634	1.30200	1.31720	3B		
			1.3559	1.3015	1.3513	1.3505	1.3245	1.43738	1.42262	---------	1.4382	1.3567	1.4168	1.3630	1.3638	1.30212	1.31708			
1.4375-12	UN	2A	1.3816	1.3455	1.3757	1.3757	1.3577	1.43570	1.42430	---------	1.4375	1.3834	1.4271	1.3910	1.3910	1.34700	1.36500	2B	UN	1.4375-12
			1.3813	1.3449	1.3760	1.3754	1.3583	1.43558	1.42442	---------	1.4381	1.3837	1.4265	1.3907	1.3913	1.34712	1.36488			
		3A	1.3834	1.3473	1.3790	1.3790	1.3610	1.43750	1.42610	---------	1.4375	1.3834	1.4252	1.3891	1.3891	1.34700	1.35730	3B		
			1.3831	1.3467	1.3793	1.3787	1.3616	1.43738	1.42622	---------	1.4381	1.3837	1.4246	1.3888	1.3894	1.34712	1.35718			
1.4375-16	UN	2A	1.3953	1.3682	1.3901	1.3901	1.3766	1.43590	1.42650	---------	1.4375	1.3969	1.4308	1.4037	1.4037	1.37000	1.38400	2B	UN	1.4375-16
			1.3950	1.3676	1.3904	1.3898	1.3772	1.43578	1.42662	---------	1.4381	1.3972	1.4302	1.4034	1.4040	1.37012	1.38388			
		3A	1.3969	1.3698	1.3930	1.3930	1.3795	1.43750	1.42810	---------	1.4375	1.3969	1.4291	1.4020	1.4020	1.37000	1.37830	3B		
			1.3966	1.3692	1.3933	1.3927	1.3801	1.43738	1.42822	---------	1.4381	1.3972	1.4285	1.4017	1.4023	1.37012	1.37818			
1.4375-18	UNEF	2A	1.3999	1.3758	1.3949	1.3949	1.3829	1.43600	1.42730	---------	1.4375	1.4014	1.4320	1.4079	1.4079	1.37700	1.39000	2B	UNEF	1.4375-18
			1.3996	1.3753	1.3952	1.3946	1.3834	1.43588	1.42742	---------	1.4380	1.4017	1.4315	1.4076	1.4082	1.37712	1.38988			
		3A	1.4014	1.3773	1.3977	1.3977	1.3857	1.43750	1.42880	---------	1.4375	1.4014	1.4303	1.4062	1.4062	1.37700	1.38550	3B		
			1.4011	1.3768	1.3980	1.3974	1.3862	1.43738	1.42892	---------	1.4380	1.4017	1.4298	1.4059	1.4065	1.37712	1.38538			
1.4375-20	UN	2A	1.4036	1.3819	1.3988	1.3988	1.3880	1.43610	1.42800	---------	1.4375	1.4050	1.4329	1.4112	1.4112	1.38300	1.39500	2B	UN	1.4375-20
			1.4033	1.3814	1.3991	1.3985	1.3885	1.43598	1.42812	---------	1.4380	1.4053	1.4324	1.4109	1.4115	1.38312	1.39488			
		3A	1.4050	1.3833	1.4014	1.4014	1.3906	1.43750	1.42940	---------	1.4375	1.4050	1.4313	1.4096	1.4096	1.38300	1.39120	3B		
			1.4047	1.3828	1.4017	1.4011	1.3911	1.43738	1.42952	---------	1.4380	1.4053	1.4308	1.4093	1.4099	1.38312	1.39108			
1.4375-28	UN	2A	1.4130	1.3975	1.4088	1.4088	1.4011	1.43620	1.42970	---------	1.4375	1.4143	1.4353	1.4198	1.4198	1.39900	1.40700	2B	UN	1.4375-28
			1.4127	1.3970	1.4091	1.4085	1.4016	1.43608	1.42982	---------	1.4380	1.4146	1.4348	1.4195	1.4201	1.39912	1.40688			
		3A	1.4143	1.3988	1.4112	1.4112	1.4035	1.43750	1.43100	---------	1.4375	1.4143	1.4339	1.4184	1.4184	1.39900	1.40510	3B		
			1.4140	1.3983	1.4115	1.4109	1.4040	1.43738	1.43112	---------	1.4380	1.4146	1.4334	1.4181	1.4187	1.39912	1.40498			
1.500-6	UNC	1A	1.3893	1.3171	1.3772	1.3772	1.3411	1.49760	1.47030	---------	1.5000	1.3917	1.4797	1.4075	1.4075	1.32000	1.35000	1B	UNC	1.500-6
			1.3889	1.3163	1.3776	1.3768	1.3419	1.49748	1.47042	---------	1.5008	1.3921	1.4789	1.4071	1.4079	1.32012	1.34988			
		2A	1.3893	1.3171	1.3812	1.3812	1.3451	1.49760	1.47940	1.47030	1.5000	1.3917	1.4744	1.4022	1.4022	1.32000	1.35000	2B		
			1.3889	1.3163	1.3816	1.3808	1.3459	1.49748	1.47952	1.47042	1.5008	1.3921	1.4736	1.4018	1.4026	1.32012	1.34988			
		3A	1.3917	1.3195	1.3856	1.3856	1.3495	1.50000	1.48180	---------	1.5000	1.3917	1.4718	1.3996	1.3996	1.32000	1.33960	3B		
			1.3913	1.3187	1.3860	1.3852	1.3503	1.49988	1.48192	---------	1.5008	1.3921	1.4710	1.3992	1.4000	1.32012	1.33948			
1.500-8	UN	2A	1.4166	1.3625	1.4093	1.4093	1.3822	1.49780	1.48280	1.47530	1.5000	1.4188	1.4824	1.4283	1.4283	1.36500	1.39000	2B	UN	1.500-8
			1.4162	1.3618	1.4097	1.4089	1.3829	1.49768	1.48292	1.47542	1.5007	1.4192	1.4817	1.4279	1.4287	1.36512	1.38988			
		3A	1.4188	1.3647	1.4133	1.4133	1.3862	1.50000	1.48500	---------	1.5000	1.4188	1.4800	1.4259	1.4259	1.36500	1.37970	3B		
			1.4184	1.3640	1.4137	1.4129	1.3869	1.49988	1.48512	---------	1.5007	1.4192	1.4793	1.4255	1.4263	1.36512	1.37958			
1.500-12	UNF	1A	1.4440	1.4079	1.4344	1.4344	1.4164	1.49810	1.48090	---------	1.5000	1.4459	1.4945	1.4584	1.4584	1.41000	1.42800	1B	UNF	1.500-12
			1.4437	1.4073	1.4347	1.4341	1.4170	1.49798	1.48102	---------	1.5006	1.4462	1.4939	1.4581	1.4587	1.41012	1.42788			
		2A	1.4440	1.4079	1.4376	1.4376	1.4196	1.49810	1.48670	---------	1.5000	1.4459	1.4903	1.4542	1.4542	1.41000	1.42800	2B		
			1.4437	1.4073	1.4379	1.4373	1.4202	1.49798	1.48682	---------	1.5006	1.4462	1.4897	1.4539	1.4545	1.41012	1.42788			
		3A	1.4459	1.4098	1.4411	1.4411	1.4231	1.50000	1.48860	---------	1.5000	1.4459	1.4883	1.4522	1.4522	1.41000	1.41980	3B		
			1.4456	1.4092	1.4414	1.4408	1.4237	1.49988	1.48872	---------	1.5006	1.4462	1.4877	1.4519	1.4525	1.41012	1.41968			
1.500-16	UN	2A	1.4578	1.4307	1.4526	1.4526	1.4391	1.49840	1.48900	---------	1.5000	1.4594	1.4933	1.4662	1.4662	1.43200	1.44600	2B	UN	1.500-16
			1.4575	1.4301	1.4529	1.4523	1.4397	1.49828	1.48912	---------	1.5006	1.4597	1.4927	1.4659	1.4665	1.43212	1.44588			
		3A	1.4594	1.4323	1.4555	1.4555	1.4420	1.50000	1.49060	---------	1.5000	1.4594	1.4916	1.4645	1.4645	1.43200	1.44080	3B		
			1.4591	1.4317	1.4558	1.4552	1.4426	1.49988	1.49072	---------	1.5006	1.4597	1.4910	1.4642	1.4648	1.43212	1.44068			
1.500-18	UNEF	2A	1.4624	1.4383	1.4574	1.4574	1.4454	1.49850	1.48980	---------	1.5000	1.4639	1.4945	1.4704	1.4704	1.44000	1.45200	2B	UNEF	1.500-18
			1.4621	1.4378	1.4577	1.4571	1.4459	1.49838	1.48992	---------	1.5005	1.4642	1.4940	1.4701	1.4707	1.44012	1.45188			
		3A	1.4639	1.4398	1.4602	1.4602	1.4482	1.50000	1.49130	---------	1.5000	1.4639	1.4928	1.4687	1.4687	1.44000	1.44800	3B		
			1.4636	1.4393	1.4605	1.4599	1.4487	1.49988	1.49142	---------	1.5005	1.4642	1.4923	1.4684	1.4690	1.44012	1.44788			

TABLE 6.19. *Gages for standard thread series, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	Gages for external threads							Gages for internal threads							Class	Series designation	Nominal size and threads per inch
			X thread ring gages					Z plain ring gages for major diameter		X thread plug gages					Z plain plug gages for minor diameter				
			GO		LO			GO	NOT GO	GO		HI			GO	NOT GO			
			Pitch diameter	Minor diameter	Pitch diameter		Minor diameter			Major diameter	Pitch diameter	Major diameter	Pitch diameter						
					Plus tolerance gage	Minus tolerance gage							Minus tolerance gage	Plus tolerance gage					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*			
1.500–20	UN	2A	1.4661	1.4444	1.4613	1.4613	1.4505	1.49860	1.49050	---------	1.5000	1.4675	1.4954	1.4737	1.4737	1.44600	1.45700	2B	UN	1.500–20
		3A	1.4658	1.4439	1.4616	1.4610	1.4510	1.49848	1.49062	---------	1.5005	1.4678	1.4949	1.4734	1.4740	1.44612	1.45688			
			1.4675	1.4458	1.4639	1.4639	1.4531	1.50000	1.49190	---------	1.5000	1.4675	1.4938	1.4721	1.4721	1.44600	1.45370	3B		
			1.4672	1.4453	1.4642	1.4636	1.4536	1.49988	1.49202	---------	1.5005	1.4678	1.4933	1.4718	1.4724	1.44612	1.45358			
1.500–28	UN	2A	1.4755	1.4600	1.4713	1.4713	1.4636	1.49870	1.49220	---------	1.5000	1.4768	1.4978	1.4823	1.4823	1.46100	1.47000	2B	UN	1.500–28
		3A	1.4752	1.4595	1.4716	1.4710	1.4641	1.49858	1.49232	---------	1.5005	1.4771	1.4973	1.4820	1.4826	1.46112	1.46988			
			1.4768	1.4613	1.4737	1.4737	1.4660	1.50000	1.49350	---------	1.5000	1.4768	1.4964	1.4809	1.4809	1.46100	1.46760	3B		
			1.4765	1.4608	1.4740	1.4734	1.4665	1.49988	1.49362	---------	1.5005	1.4771	1.4959	1.4806	1.4812	1.46112	1.46748			
1.5625–6	UN	2A	1.4518	1.3796	1.4436	1.4436	1.4075	1.56010	1.54190	---------	1.5625	1.4542	1.5370	1.4648	1.4648	1.38200	1.41300	2B	UN	1.5625–6
		3A	1.4513	1.3788	1.4441	1.4431	1.4083	1.55994	1.54206	---------	1.5633	1.4547	1.5362	1.4643	1.4653	1.38216	1.41284			
			1.4542	1.3820	1.4481	1.4481	1.4120	1.56250	1.54430	---------	1.5625	1.4542	1.5344	1.4622	1.4622	1.38200	1.40210	3B		
			1.4537	1.3812	1.4486	1.4476	1.4128	1.56234	1.54446	---------	1.5633	1.4547	1.5336	1.4617	1.4627	1.38216	1.40194			
1.5625–8	UN	2A	1.4791	1.4250	1.4717	1.4717	1.4446	1.56030	1.54530	---------	1.5625	1.4813	1.5450	1.4909	1.4909	1.42700	1.45200	2B	UN	1.5625–8
		3A	1.4786	1.4243	1.4722	1.4712	1.4453	1.56014	1.54546	---------	1.5632	1.4818	1.5443	1.4904	1.4914	1.42716	1.45184			
			1.4813	1.4272	1.4758	1.4758	1.4487	1.56250	1.54750	---------	1.5625	1.4813	1.5426	1.4885	1.4885	1.42700	1.44220	3B		
			1.4808	1.4265	1.4763	1.4753	1.4494	1.56234	1.54766	---------	1.5632	1.4818	1.5419	1.4880	1.4890	1.42716	1.44204			
1.5625–12	UN	2A	1.5066	1.4705	1.5007	1.5007	1.4827	1.56070	1.54930	---------	1.5625	1.5084	1.5521	1.5160	1.5160	1.47200	1.49000	2B	UN	1.5625–12
		3A	1.5062	1.4699	1.5011	1.5003	1.4833	1.56054	1.54946	---------	1.5631	1.5088	1.5515	1.5156	1.5164	1.47216	1.48984			
			1.5084	1.4723	1.5040	1.5040	1.4860	1.56250	1.55110	---------	1.5625	1.5084	1.5502	1.5141	1.5141	1.47200	1.48230	3B		
			1.5080	1.4717	1.5044	1.5036	1.4866	1.56234	1.55126	---------	1.5631	1.5088	1.5496	1.5137	1.5145	1.47216	1.48214			
1.5625–16	UN	2A	1.5203	1.4932	1.5151	1.5151	1.5016	1.56090	1.55150	---------	1.5625	1.5219	1.5558	1.5287	1.5287	1.49500	1.50900	2B	UN	1.5625–16
		3A	1.5199	1.4926	1.5155	1.5147	1.5022	1.56074	1.55166	---------	1.5631	1.5223	1.5552	1.5283	1.5291	1.49516	1.50884			
			1.5219	1.4948	1.5180	1.5180	1.5045	1.56250	1.55310	---------	1.5625	1.5219	1.5541	1.5270	1.5270	1.49500	1.50330	3B		
			1.5215	1.4942	1.5184	1.5176	1.5051	1.56234	1.55326	---------	1.5631	1.5223	1.5535	1.5266	1.5274	1.49516	1.50314			
1.5625–18	UNEF	2A	1.5249	1.5008	1.5199	1.5199	1.5079	1.56100	1.55230	---------	1.5625	1.5264	1.5570	1.5329	1.5329	1.50200	1.51500	2B	UNEF	1.5625–18
		3A	1.5245	1.5003	1.5203	1.5195	1.5084	1.56084	1.55246	---------	1.5630	1.5268	1.5565	1.5325	1.5333	1.50216	1.51484			
			1.5264	1.5023	1.5227	1.5227	1.5107	1.56250	1.55380	---------	1.5625	1.5264	1.5553	1.5312	1.5312	1.50200	1.51050	3B		
			1.5260	1.5018	1.5231	1.5223	1.5112	1.56234	1.55396	---------	1.5630	1.5268	1.5548	1.5308	1.5316	1.50216	1.51034			
1.5625–20	UN	2A	1.5286	1.5069	1.5238	1.5238	1.5130	1.56110	1.55300	---------	1.5625	1.5300	1.5579	1.5362	1.5362	1.50800	1.52000	2B	UN	1.5625–20
		3A	1.5282	1.5064	1.5242	1.5234	1.5135	1.56094	1.55316	---------	1.5630	1.5304	1.5574	1.5358	1.5366	1.50816	1.51984			
			1.5300	1.5083	1.5264	1.5264	1.5156	1.56250	1.55440	---------	1.5625	1.5300	1.5563	1.5346	1.5346	1.50800	1.51620	3B		
			1.5296	1.5078	1.5268	1.5260	1.5161	1.56234	1.55456	---------	1.5630	1.5304	1.5558	1.5342	1.5350	1.50816	1.51604			
1.625–6	UN	2A	1.5142	1.4420	1.5060	1.5060	1.4699	1.62250	1.60430	---------	1.6250	1.5167	1.5996	1.5274	1.5274	1.44500	1.47500	2B	UN	1.625–6
		3A	1.5137	1.4412	1.5065	1.5055	1.4707	1.62234	1.60446	---------	1.6258	1.5172	1.5988	1.5269	1.5279	1.44516	1.47484			
			1.5167	1.4445	1.5105	1.5105	1.4744	1.62500	1.60680	---------	1.6250	1.5167	1.5969	1.5247	1.5247	1.44500	1.46460	3B		
			1.5162	1.4437	1.5110	1.5100	1.4752	1.62484	1.60696	---------	1.6258	1.5172	1.5961	1.5242	1.5252	1.44516	1.46444			
1.625–8	UN	2A	1.5416	1.4875	1.5342	1.5342	1.5071	1.62280	1.60780	1.60030	1.6250	1.5438	1.6076	1.5535	1.5535	1.49000	1.51500	2B	UN	1.625–8
		3A	1.5411	1.4868	1.5347	1.5337	1.5078	1.62264	1.60796	1.60046	1.6257	1.5443	1.6069	1.5530	1.5540	1.49016	1.51484			
			1.5438	1.4897	1.5382	1.5382	1.5111	1.62500	1.61000	---------	1.6250	1.5438	1.6051	1.5510	1.5510	1.49000	1.50470	3B		
			1.5433	1.4890	1.5387	1.5377	1.5118	1.62484	1.61016	---------	1.6257	1.5443	1.6044	1.5505	1.5515	1.49016	1.50454			

1.625-12	UN	2A	1.5691	1.5330	1.5632	1.5632	1.5452	1.62320	1.61180	---------	1.6250	1.5709	1.6146	1.5785	1.5785	1.53500	1.55300	2B	UN	1.625-12
			1.5687	1.5324	1.5636	1.5628	1.5458	1.62304	1.61196	---------	1.6256	1.5713	1.6140	1.5781	1.5789	1.53516	1.55284			
		3A	1.5709	1.5348	1.5665	1.5665	1.5485	1.62500	1.61360	---------	1.6250	1.5709	1.6127	1.5766	1.5766	1.53500	1.54480	3B		
			1.5705	1.5342	1.5669	1.5661	1.5491	1.62484	1.61376	---------	1.6256	1.5713	1.6121	1.5762	1.5770	1.53516	1.54464			
1.625-16	UN	2A	1.5828	1.5557	1.5776	1.5776	1.5641	1.62340	1.61400	---------	1.6250	1.5844	1.6183	1.5912	1.5912	1.55700	1.57100	2B	UN	1.625-16
			1.5824	1.5551	1.5780	1.5772	1.5647	1.62324	1.61416	---------	1.6256	1.5848	1.6177	1.5908	1.5916	1.55716	1.57084			
		3A	1.5844	1.5573	1.5805	1.5805	1.5670	1.62500	1.61560	---------	1.6250	1.5844	1.6166	1.5895	1.5895	1.55700	1.56580	3B		
			1.5840	1.5567	1.5809	1.5801	1.5676	1.62484	1.61576	---------	1.6256	1.5848	1.6160	1.5891	1.5899	1.55716	1.56564			
1.625-18	UNEF	2A	1.5874	1.5633	1.5824	1.5824	1.5704	1.62350	1.61480	---------	1.6250	1.5889	1.6195	1.5954	1.5954	1.56500	1.57800	2B	UNEF	1.625-18
			1.5870	1.5628	1.5828	1.5820	1.5709	1.62334	1.61496	---------	1.6255	1.5893	1.6190	1.5950	1.5958	1.56516	1.57784			
		3A	1.5889	1.5648	1.5852	1.5852	1.5732	1.62500	1.61630	---------	1.6250	1.5889	1.6178	1.5937	1.5937	1.56500	1.57300	3B		
			1.5885	1.5643	1.5856	1.5848	1.5737	1.62484	1.61646	---------	1.6255	1.5893	1.6173	1.5933	1.5941	1.56516	1.57284			
1.625-20	UN	2A	1.5911	1.5694	1.5863	1.5863	1.5755	1.62360	1.61550	---------	1.6250	1.5925	1.6204	1.5987	1.5987	1.57100	1.58200	2B	UN	1.625-20
			1.5907	1.5689	1.5867	1.5859	1.5760	1.62344	1.61566	---------	1.6255	1.5929	1.6199	1.5983	1.5991	1.57116	1.58184			
		3A	1.5925	1.5708	1.5889	1.5889	1.5781	1.62500	1.61690	---------	1.6250	1.5925	1.6188	1.5971	1.5971	1.57100	1.57870	3B		
			1.5921	1.5703	1.5893	1.5885	1.5786	1.62484	1.61706	---------	1.6255	1.5929	1.6183	1.5967	1.5975	1.57116	1.57854			
1.6875-6	UN	2A	1.5767	1.5045	1.5684	1.5684	1.5323	1.68500	1.66680	---------	1.6875	1.5792	1.6622	1.5900	1.5900	1.50700	1.53800	2B	UN	1.6875-6
			1.5762	1.5037	1.5689	1.5679	1.5331	1.68484	1.66696	---------	1.6883	1.5797	1.6614	1.5895	1.5905	1.50716	1.53784			
		3A	1.5792	1.5070	1.5730	1.5730	1.5369	1.68750	1.66930	---------	1.6875	1.5792	1.6595	1.5873	1.5873	1.50700	1.52710	3B		
			1.5787	1.5062	1.5735	1.5725	1.5377	1.68734	1.66946	---------	1.6883	1.5797	1.6587	1.5868	1.5878	1.50716	1.52694			
1.6875-8	UN	2A	1.6041	1.5500	1.5966	1.5966	1.5695	1.68530	1.67030	---------	1.6875	1.6063	1.6701	1.6160	1.6160	1.55200	1.57700	2B	UN	1.6875-8
			1.6036	1.5493	1.5971	1.5961	1.5702	1.68514	1.67046	---------	1.6882	1.6068	1.6694	1.6155	1.6165	1.55216	1.57684			
		3A	1.6063	1.5522	1.6007	1.6007	1.5736	1.68750	1.67250	---------	1.6875	1.6063	1.6677	1.6136	1.6136	1.55200	1.56720	3B		
			1.6058	1.5515	1.6012	1.6002	1.5743	1.68734	1.67266	---------	1.6882	1.6068	1.6670	1.6131	1.6141	1.55216	1.56704			
1.6875-12	UN	2A	1.6316	1.5955	1.6256	1.6256	1.6076	1.68570	1.67430	---------	1.6875	1.6334	1.6773	1.6412	1.6412	1.59700	1.61500	2B	UN	1.6875-12
			1.6312	1.5949	1.6260	1.6252	1.6082	1.68554	1.67446	---------	1.6881	1.6338	1.6767	1.6408	1.6416	1.59716	1.61484			
		3A	1.6334	1.5973	1.6289	1.6289	1.6109	1.68750	1.67610	---------	1.6875	1.6334	1.6753	1.6392	1.6392	1.59700	1.60730	3B		
			1.6330	1.5967	1.6293	1.6285	1.6115	1.68734	1.67626	---------	1.6881	1.6338	1.6747	1.6388	1.6396	1.59716	1.60714			
1.6875-16	UN	2A	1.6453	1.6182	1.6400	1.6400	1.6265	1.68590	1.67650	---------	1.6875	1.6469	1.6809	1.6538	1.6538	1.62000	1.63400	2B	UN	1.6875-16
			1.6449	1.6176	1.6404	1.6396	1.6271	1.68574	1.67666	---------	1.6881	1.6473	1.6803	1.6534	1.6542	1.62016	1.63384			
		3A	1.6469	1.6198	1.6429	1.6429	1.6294	1.68750	1.67810	---------	1.6875	1.6469	1.6792	1.6521	1.6521	1.62000	1.62830	3B		
			1.6465	1.6192	1.6433	1.6425	1.6300	1.68734	1.67826	---------	1.6881	1.6473	1.6786	1.6517	1.6525	1.62016	1.62814			
1.6875-18	UNEF	2A	1.6499	1.6258	1.6448	1.6448	1.6328	1.68600	1.67730	---------	1.6875	1.6514	1.6821	1.6580	1.6580	1.62700	1.64000	2B	UNEF	1.6875-18
			1.6495	1.6253	1.6452	1.6444	1.6333	1.68584	1.67746	---------	1.6880	1.6518	1.6816	1.6576	1.6584	1.62716	1.63984			
		3A	1.6514	1.6273	1.6476	1.6476	1.6356	1.68750	1.67880	---------	1.6875	1.6514	1.6804	1.6563	1.6563	1.62700	1.63550	3B		
			1.6510	1.6268	1.6480	1.6472	1.6361	1.68734	1.67896	---------	1.6880	1.6518	1.6799	1.6559	1.6567	1.62716	1.63534			
1.6875-20	UN	2A	1.6535	1.6318	1.6487	1.6487	1.6379	1.68600	1.67790	---------	1.6875	1.6550	1.6830	1.6613	1.6613	1.63300	1.64500	2B	UN	1.6875-20
			1.6531	1.6313	1.6491	1.6483	1.6384	1.68584	1.67806	---------	1.6880	1.6554	1.6825	1.6609	1.6617	1.63316	1.64484			
		3A	1.6550	1.6333	1.6514	1.6514	1.6406	1.68750	1.67940	---------	1.6875	1.6550	1.6814	1.6597	1.6597	1.63300	1.64120	3B		
			1.6546	1.6328	1.6518	1.6510	1.6411	1.68734	1.67956	---------	1.6880	1.6554	1.6809	1.6593	1.6601	1.63316	1.64104			
1.750-5	UNC	1A	1.6174	1.5308	1.6040	1.6040	1.5607	1.74730	1.71650	---------	1.7500	1.6201	1.7241	1.6375	1.6375	1.53400	1.56800	1B	UNC	1.750-5
			1.6169	1.5300	1.6045	1.6035	1.5615	1.74714	1.71666	---------	1.7508	1.6206	1.7233	1.6370	1.6380	1.53416	1.56784			
		2A	1.6174	1.5308	1.6085	1.6085	1.5652	1.74730	1.72680	1.71650	1.7500	1.6201	1.7183	1.6317	1.6317	1.53400	1.56800	2B		
			1.6169	1.5300	1.6090	1.6080	1.5660	1.74714	1.72696	1.71666	1.7508	1.6206	1.7175	1.6312	1.6322	1.53416	1.56784			
		3A	1.6201	1.5335	1.6134	1.6134	1.5701	1.75000	1.72950	---------	1.7500	1.6201	1.7154	1.6288	1.6288	1.53400	1.55750	3B		
			1.6196	1.5327	1.6139	1.6129	1.5709	1.74984	1.72966	---------	1.7508	1.6206	1.7146	1.6283	1.6293	1.53416	1.55734			
1.750-6	UN	2A	1.6392	1.5670	1.6309	1.6309	1.5948	1.74750	1.72930	---------	1.7500	1.6417	1.7247	1.6525	1.6525	1.57000	1.60000	2B	UN	1.750-6
			1.6387	1.5662	1.6314	1.6304	1.5956	1.74734	1.72946	---------	1.7508	1.6422	1.7239	1.6520	1.6530	1.57016	1.59984			
		3A	1.6417	1.5695	1.6354	1.6354	1.5993	1.75000	1.73180	---------	1.7500	1.6417	1.7220	1.6498	1.6498	1.57000	1.58960	3B		
			1.6412	1.5687	1.6359	1.6349	1.6001	1.74984	1.73196	---------	1.7508	1.6422	1.7212	1.6493	1.6503	1.57016	1.58944			
1.750-8	UN	2A	1.6665	1.6124	1.6590	1.6590	1.6319	1.74770	1.73270	1.72520	1.7500	1.6688	1.7327	1.6786	1.6786	1.61500	1.64000	2B	UN	1.750-8
			1.6660	1.6117	1.6595	1.6585	1.6326	1.74754	1.73286	1.72536	1.7507	1.6693	1.7320	1.6781	1.6791	1.61516	1.63984			
		3A	1.6688	1.6147	1.6631	1.6631	1.6360	1.75000	1.73500	---------	1.7500	1.6688	1.7303	1.6762	1.6762	1.61500	1.62970	3B		
			1.6683	1.6140	1.6636	1.6626	1.6367	1.74984	1.73516	---------	1.7507	1.6693	1.7296	1.6757	1.6767	1.61516	1.62954			
1.750-12	UN	2A	1.6941	1.6580	1.6881	1.6881	1.6701	1.74820	1.73680	---------	1.7500	1.6959	1.7398	1.7037	1.7037	1.66000	1.67800	2B	UN	1.750-12
			1.6937	1.6574	1.6885	1.6877	1.6707	1.74804	1.73696	---------	1.7506	1.6963	1.7392	1.7033	1.7041	1.66016	1.67784			
		3A	1.6959	1.6598	1.6914	1.6914	1.6734	1.75000	1.73860	---------	1.7500	1.6959	1.7378	1.7017	1.7017	1.66000	1.66980	3B		
			1.6955	1.6592	1.6918	1.6910	1.6740	1.74984	1.73876	---------	1.7506	1.6963	1.7372	1.7013	1.7021	1.66016	1.66964			
1.750-16	UN	2A	1.7078	1.6807	1.7025	1.7025	1.6890	1.74840	1.73900	---------	1.7500	1.7094	1.7434	1.7163	1.7163	1.68200	1.69600	2B	UN	1.750-16
			1.7074	1.6801	1.7029	1.7021	1.6896	1.74824	1.73916	---------	1.7506	1.7098	1.7428	1.7159	1.7167	1.68216	1.69584			
		3A	1.7094	1.6823	1.7054	1.7054	1.6919	1.75000	1.74060	---------	1.7500	1.7094	1.7417	1.7146	1.7146	1.68200	1.69080	3B		
			1.7090	1.6817	1.7058	1.7050	1.6925	1.74984	1.74076	---------	1.7506	1.7098	1.7411	1.7142	1.7150	1.68216	1.69064			

TABLE 6.19. *Gages for standard thread series, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	Gages for external threads								Gages for internal threads							Class	Series designation	Nominal size and threads per inch
			X thread ring gages					Z plain ring gages for major diameter			X thread plug gages					Z plain plug gages for minor diameter				
			GO		LO			GO	NOT GO		GO		HI			GO	NOT GO			
			Pitch diameter	Minor diameter	Pitch diameter		Minor diameter		Semi-finished	Unfinished hot-rolled material	Major diameter	Pitch diameter	Major diameter	Pitch diameter						
					Plus tolerance gage	Minus tolerance gage								Minus tolerance gage	Plus tolerance gage					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*			
1.750–20	UN	2A	1.7160	1.6943	1.7112	1.7112	1.7004	1.74850	1.74040	---	1.7500	1.7175	1.7455	1.7238	1.7238	1.69600	1.70700	2B	UN	1.750–20
		3A	1.7156	1.6938	1.7116	1.7108	1.7009	1.74834	1.74056	---	1.7505	1.7179	1.7450	1.7234	1.7242	1.69616	1.70684			
			1.7175	1.6958	1.7139	1.7139	1.7031	1.75000	1.74190	---	1.7500	1.7175	1.7439	1.7222	1.7222	1.69600	1.70370	3B		
			1.7171	1.6953	1.7143	1.7135	1.7036	1.74984	1.74206	---	1.7505	1.7179	1.7434	1.7218	1.7226	1.69616	1.70354			
1.8125–6	UN	2A	1.7017	1.6295	1.6933	1.6933	1.6572	1.81000	1.79180	---	1.8125	1.7042	1.7873	1.7151	1.7151	1.63200	1.66300	2B	UN	1.8125–6
		3A	1.7012	1.6287	1.6938	1.6928	1.6580	1.80984	1.79196	---	1.8133	1.7047	1.7865	1.7146	1.7156	1.63216	1.66284			
			1.7042	1.6320	1.6979	1.6979	1.6618	1.81250	1.79430	---	1.8125	1.7042	1.7846	1.7124	1.7124	1.63200	1.65210	3B		
			1.7037	1.6312	1.6984	1.6974	1.6626	1.81234	1.79446	---	1.8133	1.7047	1.7838	1.7119	1.7129	1.63216	1.65194			
1.8125–8	UN	2A	1.7290	1.6749	1.7214	1.7214	1.6943	1.81020	1.79520	---	1.8125	1.7313	1.7953	1.7412	1.7412	1.67700	1.70200	2B	UN	1.8125–8
		3A	1.7285	1.6742	1.7219	1.7209	1.6950	1.81004	1.79536	---	1.8132	1.7318	1.7946	1.7407	1.7417	1.67716	1.70184			
			1.7313	1.6772	1.7256	1.7256	1.6985	1.81250	1.79750	---	1.8125	1.7313	1.7928	1.7387	1.7387	1.67700	1.69220	3B		
			1.7308	1.6765	1.7261	1.7251	1.6992	1.81234	1.79766	---	1.8132	1.7318	1.7921	1.7382	1.7392	1.67716	1.69204			
1.8125–12	UN	2A	1.7566	1.7205	1.7506	1.7506	1.7326	1.81070	1.79930	---	1.8125	1.7584	1.8023	1.7662	1.7662	1.72200	1.74000	2B	UN	1.8125–12
		3A	1.7562	1.7199	1.7510	1.7502	1.7332	1.81054	1.79946	---	1.8131	1.7588	1.8017	1.7658	1.7666	1.72216	1.73984			
			1.7584	1.7223	1.7539	1.7539	1.7359	1.81250	1.80110	---	1.8125	1.7584	1.8003	1.7642	1.7642	1.72200	1.73230	3B		
			1.7580	1.7217	1.7543	1.7535	1.7365	1.81234	1.80126	---	1.8131	1.7588	1.7997	1.7638	1.7646	1.72216	1.73214			
1.8125–16	UN	2A	1.7703	1.7432	1.7650	1.7650	1.7515	1.81090	1.80150	---	1.8125	1.7719	1.8059	1.7788	1.7788	1.74500	1.75900	2B	UN	1.8125–16
		3A	1.7699	1.7426	1.7654	1.7646	1.7521	1.81074	1.80166	---	1.8131	1.7723	1.8053	1.7784	1.7792	1.74516	1.75884			
			1.7719	1.7448	1.7679	1.7679	1.7544	1.81250	1.80310	---	1.8125	1.7719	1.8042	1.7771	1.7771	1.74500	1.75330	3B		
			1.7715	1.7442	1.7683	1.7675	1.7550	1.81234	1.80326	---	1.8131	1.7723	1.8036	1.7767	1.7775	1.74516	1.75314			
1.8125–20	UN	2A	1.7785	1.7568	1.7737	1.7737	1.7629	1.81100	1.80290	---	1.8125	1.7800	1.8080	1.7863	1.7863	1.75800	1.77000	2B	UN	1.8125–20
		3A	1.7781	1.7563	1.7741	1.7733	1.7634	1.81084	1.80306	---	1.8130	1.7804	1.8075	1.7859	1.7867	1.75816	1.76984			
			1.7800	1.7583	1.7764	1.7764	1.7656	1.81250	1.80440	---	1.8125	1.7800	1.8064	1.7847	1.7847	1.75800	1.76620	3B		
			1.7796	1.7578	1.7768	1.7760	1.7661	1.81234	1.80456	---	1.8130	1.7804	1.8059	1.7843	1.7851	1.75816	1.76604			
1.875–6	UN	2A	1.7642	1.6920	1.7558	1.7558	1.7197	1.87250	1.85430	---	1.8750	1.7667	1.8499	1.7777	1.7777	1.69500	1.72500	2B	UN	1.875–6
		3A	1.7637	1.6912	1.7563	1.7553	1.7205	1.87234	1.85446	---	1.8758	1.7672	1.8491	1.7772	1.7782	1.69516	1.72484			
			1.7667	1.6945	1.7604	1.7604	1.7243	1.87500	1.85680	---	1.8750	1.7667	1.8471	1.7749	1.7749	1.69500	1.71460	3B		
			1.7662	1.6937	1.7609	1.7599	1.7251	1.87484	1.85696	---	1.8758	1.7672	1.8463	1.7744	1.7754	1.69516	1.71444			
1.875–8	UN	2A	1.7915	1.7374	1.7838	1.7838	1.7567	1.87270	1.85770	1.85020	1.8750	1.7938	1.8579	1.8038	1.8038	1.74000	1.76500	2B	UN	1.875–8
		3A	1.7910	1.7367	1.7843	1.7833	1.7574	1.87254	1.85786	1.85036	1.8757	1.7943	1.8572	1.8033	1.8043	1.74016	1.76484			
			1.7938	1.7397	1.7881	1.7881	1.7610	1.87500	1.86000	---	1.8750	1.7938	1.8554	1.8013	1.8013	1.74000	1.75470	3B		
			1.7933	1.7390	1.7886	1.7876	1.7617	1.87484	1.86016	---	1.8757	1.7943	1.8547	1.8008	1.8018	1.74016	1.75454			
1.875–12	UN	2A	1.8191	1.7830	1.8131	1.8131	1.7951	1.87320	1.86180	---	1.8750	1.8209	1.8648	1.8287	1.8287	1.78500	1.80300	2B	UN	1.875–12
		3A	1.8187	1.7824	1.8135	1.8127	1.7957	1.87304	1.86196	---	1.8756	1.8213	1.8642	1.8283	1.8291	1.78516	1.80284			
			1.8209	1.7848	1.8164	1.8164	1.7984	1.87500	1.86360	---	1.8750	1.8209	1.8628	1.8267	1.8267	1.78500	1.79480	3B		
			1.8205	1.7842	1.8168	1.8160	1.7990	1.87484	1.86376	---	1.8756	1.8213	1.8622	1.8263	1.8271	1.78516	1.79464			
1.875–16	UN	2A	1.8328	1.8057	1.8275	1.8275	1.8140	1.87340	1.86400	---	1.8750	1.8344	1.8684	1.8413	1.8413	1.80700	1.82100	2B	UN	1.875–16
		3A	1.8324	1.8051	1.8279	1.8271	1.8146	1.87324	1.86416	---	1.8756	1.8348	1.8678	1.8409	1.8417	1.80716	1.82084			
			1.8344	1.8073	1.8304	1.8304	1.8169	1.87500	1.86560	---	1.8750	1.8344	1.8667	1.8396	1.8396	1.80700	1.81580	3B		
			1.8340	1.8067	1.8308	1.8300	1.8175	1.87484	1.86576	---	1.8756	1.8348	1.8661	1.8392	1.8400	1.80716	1.81564			
1.875–20	UN	2A	1.8410	1.8193	1.8362	1.8362	1.8254	1.87350	1.86540	---	1.8750	1.8425	1.8705	1.8488	1.8488	1.82100	1.83200	2B	UN	1.875–20
		3A	1.8406	1.8188	1.8366	1.8358	1.8259	1.87334	1.86556	---	1.8755	1.8429	1.8700	1.8484	1.8492	1.82116	1.83184			
			1.8425	1.8208	1.8389	1.8389	1.8281	1.87500	1.86690	---	1.8750	1.8425	1.8689	1.8472	1.8472	1.82100	1.82870	3B		
			1.8421	1.8203	1.8393	1.8385	1.8286	1.87484	1.86706	---	1.8755	1.8429	1.8684	1.8468	1.8476	1.82116	1.82854			

1.9375-6	UN	2A	1.8266	1.7544	1.8181	1.8181	1.7820	1.93490	1.91670	---------	1.9375	1.8292	1.9125	1.8403	1.8403	1.75700	1.78800	2B	UN	1.9375-6
			1.8261	1.7536	1.8186	1.8176	1.7828	1.93474	1.91686	---------	1.9383	1.8297	1.9117	1.8398	1.8408	1.75716	1.78784			
		3A	1.8292	1.7570	1.8228	1.8228	1.7867	1.93750	1.91930	---------	1.9375	1.8292	1.9097	1.8375	1.8375	1.75700	1.77710	3B		
			1.8287	1.7562	1.8233	1.8223	1.7875	1.93734	1.91946	---------	1.9383	1.8297	1.9089	1.8370	1.8380	1.75716	1.77694			
1.9375-8	UN	2A	1.8540	1.7999	1.8463	1.8463	1.8192	1.93520	1.92020	---------	1.9375	1.8563	1.9204	1.8663	1.8663	1.80200	1.82700	2B	UN	1.9375-8
			1.8535	1.7992	1.8468	1.8458	1.8199	1.93504	1.92036	---------	1.9382	1.8568	1.9197	1.8658	1.8668	1.80216	1.82684			
		3A	1.8563	1.8022	1.8505	1.8505	1.8234	1.93750	1.92250	---------	1.9375	1.8563	1.9179	1.8638	1.8638	1.80200	1.81720	3B		
			1.8558	1.8015	1.8510	1.8500	1.8241	1.93734	1.92266	---------	1.9382	1.8568	1.9172	1.8633	1.8643	1.80216	1.81704			
1.9375-12	UN	2A	1.8816	1.8455	1.8755	1.8755	1.8575	1.93570	1.92430	---------	1.9375	1.8834	1.9274	1.8913	1.8913	1.84700	1.86500	2B	UN	1.9375-12
			1.8812	1.8449	1.8759	1.8751	1.8581	1.93554	1.92446	---------	1.9381	1.8838	1.9268	1.8909	1.8917	1.84716	1.86484			
		3A	1.8834	1.8473	1.8789	1.8789	1.8609	1.93750	1.92610	---------	1.9375	1.8834	1.9254	1.8893	1.8893	1.84700	1.85730	3B		
			1.8830	1.8467	1.8793	1.8785	1.8615	1.93734	1.92626	---------	1.9381	1.8838	1.9248	1.8889	1.8897	1.84716	1.85714			
1.9375-16	UN	2A	1.8953	1.8682	1.8899	1.8899	1.8764	1.93590	1.92650	---------	1.9375	1.8969	1.9310	1.9039	1.9039	1.87000	1.88400	2B	UN	1.9735-16
			1.8949	1.8676	1.8903	1.8895	1.8770	1.93574	1.92666	---------	1.9381	1.8973	1.9304	1.9035	1.9043	1.87016	1.88384			
		3A	1.8969	1.8698	1.8929	1.8929	1.8794	1.93750	1.92810	---------	1.9375	1.8969	1.9292	1.9021	1.9021	1.87000	1.87830	3B		
			1.8965	1.8692	1.8933	1.8925	1.8800	1.93734	1.92826	---------	1.9381	1.8973	1.9286	1.9017	1.9025	1.87016	1.87814			
1.9375-20	UN	2A	1.9035	1.8818	1.8986	1.8986	1.8878	1.93600	1.92790	---------	1.9375	1.9050	1.9331	1.9114	1.9114	1.88300	1.89500	2B	UN	1.9375-20
			1.9031	1.8813	1.8990	1.8982	1.8883	1.93584	1.92806	---------	1.9380	1.9054	1.9326	1.9110	1.9118	1.88316	1.89484			
		3A	1.9050	1.8833	1.9013	1.9013	1.8905	1.93750	1.92940	---------	1.9375	1.9050	1.9315	1.9098	1.9098	1.88300	1.89120	3B		
			1.9046	1.8828	1.9017	1.9009	1.8910	1.93734	1.92956	---------	1.9380	1.9054	1.9310	1.9094	1.9102	1.88316	1.89104			
2.000-4.5	UNC	1A	1.8528	1.7566	1.8385	1.8385	1.7904	1.99710	1.96410	---------	2.0000	1.8557	1.9705	1.8743	1.8743	1.75900	1.79500	1B	UNC	2.000-4.5
			1.8523	1.7558	1.8390	1.8380	1.7912	1.99694	1.96426	---------	2.0008	1.8562	1.9697	1.8738	1.8748	1.75916	1.79484			
		2A	1.8528	1.7566	1.8433	1.8433	1.7952	1.99710	1.97510	1.96410	2.0000	1.8557	1.9643	1.8681	1.8681	1.75900	1.79500	2B		
			1.8523	1.7558	1.8438	1.8428	1.7960	1.99694	1.97526	1.96426	2.0008	1.8562	1.9635	1.8676	1.8686	1.75916	1.79484			
		3A	1.8557	1.7595	1.8486	1.8486	1.8005	2.00000	1.97800	---------	2.0000	1.8557	1.9612	1.8650	1.8650	1.75900	1.78610	3B		
			1.8552	1.7587	1.8491	1.8481	1.8013	1.99984	1.97816	---------	2.0008	1.8562	1.9604	1.8645	1.8655	1.75916	1.78594			
2.000-6	UN	2A	1.8891	1.8169	1.8805	1.8805	1.8444	1.99740	1.97920	---------	2.0000	1.8917	1.9750	1.9028	1.9028	1.82000	1.85000	2B	UN	2.000-6
			1.8886	1.8161	1.8810	1.8800	1.8452	1.99724	1.97936	---------	2.0008	1.8922	1.9742	1.9023	1.9033	1.82016	1.84984			
		3A	1.8917	1.8195	1.8853	1.8853	1.8492	2.00000	1.98180	---------	2.0000	1.8917	1.9722	1.9000	1.9000	1.82000	1.83960	3B		
			1.8912	1.8187	1.8858	1.8848	1.8500	1.99984	1.98196	---------	2.0008	1.8922	1.9714	1.8995	1.9005	1.82016	1.83944			
2.000-8	UN	2A	1.9165	1.8624	1.9087	1.9087	1.8816	1.99770	1.98270	1.97520	2.0000	1.9188	1.9830	1.9289	1.9289	1.86500	1.89000	2B	UN	2.000-8
			1.9160	1.8617	1.9092	1.9082	1.8823	1.99754	1.98286	1.97536	2.0007	1.9193	1.9823	1.9284	1.9294	1.86516	1.88984			
		3A	1.9188	1.8647	1.9130	1.9130	1.8859	2.00000	1.98500	---------	2.0000	1.9188	1.9805	1.9264	1.9264	1.86500	1.87970	3B		
			1.9183	1.8640	1.9135	1.9125	1.8866	1.99984	1.98516	---------	2.0007	1.9193	1.9798	1.9259	1.9269	1.86516	1.87954			
2.000-12	UN	2A	1.9441	1.9080	1.9380	1.9380	1.9200	1.99820	1.98680	---------	2.0000	1.9459	1.9899	1.9538	1.9538	1.91000	1.92800	2B	UN	2.000-12
			1.9437	1.9074	1.9384	1.9376	1.9206	1.99804	1.98696	---------	2.0006	1.9463	1.9893	1.9534	1.9542	1.91016	1.92784			
		3A	1.9459	1.9098	1.9414	1.9414	1.9234	2.00000	1.98860	---------	2.0000	1.9459	1.9879	1.9518	1.9518	1.91000	1.91980	3B		
			1.9455	1.9092	1.9418	1.9410	1.9240	1.99984	1.98876	---------	2.0006	1.9463	1.9873	1.9514	1.9522	1.91016	1.91964			
2.000-16	UN	2A	1.9578	1.9307	1.9524	1.9524	1.9389	1.99840	1.98900	---------	2.0000	1.9594	1.9935	1.9664	1.9664	1.93200	1.94600	2B	UN	2.000-16
			1.9574	1.9301	1.9528	1.9520	1.9395	1.99824	1.98916	---------	2.0006	1.9598	1.9929	1.9660	1.9668	1.93216	1.94584			
		3A	1.9594	1.9323	1.9554	1.9554	1.9419	2.00000	1.99060	---------	2.0000	1.9594	1.9917	1.9646	1.9646	1.93200	1.94080	3B		
			1.9590	1.9317	1.9558	1.9550	1.9425	1.99984	1.99076	---------	2.0006	1.9598	1.9911	1.9642	1.9650	1.93216	1.94064			
2.000-20	UN	2A	1.9660	1.9443	1.9611	1.9611	1.9503	1.99850	1.99040	---------	2.0000	1.9675	1.9956	1.9739	1.9739	1.94600	1.95700	2B	UN	2.000-20
			1.9656	1.9438	1.9615	1.9607	1.9508	1.99834	1.99056	---------	2.0005	1.9679	1.9951	1.9735	1.9743	1.94616	1.95684			
		3A	1.9675	1.9458	1.9638	1.9638	1.9530	2.00000	1.99190	---------	2.0000	1.9675	1.9940	1.9723	1.9723	1.94600	1.95370	3B		
			1.9671	1.9453	1.9642	1.9634	1.9535	1.99984	1.99206	---------	2.0005	1.9679	1.9935	1.9719	1.9727	1.94616	1.95354			
2.125-6	UN	2A	2.0141	1.9419	2.0054	2.0054	1.9693	2.12240	2.10420	---------	2.1250	2.0167	2.1002	2.0280	2.0280	1.94500	1.97500	2B	UN	2.125-6
			2.0136	1.9411	2.0059	2.0049	1.9701	2.12224	2.10436	---------	2.1258	2.0172	2.0994	2.0275	2.0285	1.94516	1.97484			
		3A	2.0167	1.9445	2.0102	2.0102	1.9741	2.12500	2.10680	---------	2.1250	2.0167	2.0973	2.0251	2.0251	1.94500	1.96460	3B		
			2.0162	1.9437	2.0107	2.0097	1.9749	2.12484	2.10696	---------	2.1258	2.0172	2.0965	2.0246	2.0256	1.94516	1.96444			
2.125-8	UN	2A	2.0414	1.9873	2.0335	2.0335	2.0064	2.12260	2.10760	2.10010	2.1250	2.0438	2.1081	2.0540	2.0540	1.99000	2.01500	2B	UN	2.125-8
			2.0409	1.9866	2.0340	2.0330	2.0071	2.12244	2.10776	2.10026	2.1257	2.0443	2.1074	2.0535	2.0545	1.99016	2.01484			
		3A	2.0438	1.9897	2.0379	2.0379	2.0108	2.12500	2.11000	---------	2.1250	2.0438	2.1056	2.0515	2.0515	1.99000	2.00470	3B		
			2.0433	1.9890	2.0384	2.0374	2.0115	2.12484	2.11016	---------	2.1257	2.0443	2.1049	2.0510	2.0520	1.99016	2.00454			
2.125-12	UN	2A	2.0691	2.0330	2.0630	2.0630	2.0450	2.12320	2.11180	---------	2.1250	2.0709	2.1149	2.0788	2.0788	2.03500	2.05300	2B	UN	2.125-12
			2.0687	2.0324	2.0634	2.0626	2.0456	2.12304	2.11196	---------	2.1256	2.0713	2.1143	2.0784	2.0792	2.03516	2.05284			
		3A	2.0709	2.0348	2.0664	2.0664	2.0484	2.12500	2.11360	---------	2.1250	2.0709	2.1129	2.0768	2.0768	2.03500	2.04480	3B		
			2.0705	2.0342	2.0668	2.0660	2.0490	2.12484	2.11376	---------	2.1256	2.0713	2.1123	2.0764	2.0772	2.03516	2.04464			
2.125-16	UN	2A	2.0828	2.0557	2.0774	2.0774	2.0639	2.12340	2.11400	---------	2.1250	2.0844	2.1185	2.0914	2.0914	2.05700	2.07100	2B	UN	2.125-16
			2.0824	2.0551	2.0778	2.0770	2.0645	2.12324	2.11416	---------	2.1256	2.0848	2.1179	2.0910	2.0918	2.05716	2.07084			
		3A	2.0844	2.0573	2.0804	2.0804	2.0669	2.12500	2.11560	---------	2.1250	2.0844	2.1167	2.0896	2.0896	2.05700	2.06580	3B		
			2.0840	2.0567	2.0808	2.0800	2.0675	2.12484	2.11576	---------	2.1256	2.0848	2.1161	2.0892	2.0900	2.05716	2.06564			

TABLE 6.19. *Gages for standard thread series, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	Gages for external threads								Gages for internal threads							Class	Series designation	Nominal size and threads per inch
			X thread ring gages					Z plain ring gages for major diameter			X thread plug gages					Z plain plug gages for minor diameter				
			GO		LO			GO	NOT GO		GO		HI			GO	NOT GO			
			Pitch diameter	Minor diameter	Pitch diameter		Minor diameter		Semi-finished	Unfinished hot-rolled material	Major diameter	Pitch diameter	Major diameter	Pitch diameter						
					Plus tolerance gage	Minus tolerance gage								Minus tolerance gage	Plus tolerance gage					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*			
2. 125–20	UN	2A	2. 0910	2. 0693	2. 0861	2. 0861	2. 0753	2. 12350	2. 11540	---------	2. 1250	2. 0925	2. 1206	2. 0989	2. 0989	2. 07100	2. 08200	2B	UN	2. 125–20
		3A	2. 0906	2. 0688	2. 0865	2. 0857	2. 0758	2. 12334	2. 11556	---------	2. 1255	2. 0929	2. 1201	2. 0985	2. 0993	2. 07116	2. 08184			
			2. 0925	2. 0708	2. 0888	2. 0888	2. 0780	2. 12500	2. 11690	---------	2. 1250	2. 0925	2. 1190	2. 0973	2. 0973	2. 07100	2. 07870	3B		
			2. 0921	2. 0703	2. 0892	2. 0884	2. 0785	2. 12484	2. 11706	---------	2. 1255	2. 0929	2. 1185	2. 0969	2. 0977	2. 07116	2. 07854			
		1A	2. 1028	2. 0066	2. 0882	2. 0882	2. 0401	2. 24710	2. 21410	---------	2. 2500	2. 1057	2. 2209	2. 1247	2. 1247	2. 00900	2. 04500	1B		
2. 250–4. 5	UNC	2A	2. 1023	2. 0058	2. 0887	2. 0877	2. 0409	2. 24694	2. 21426	---------	2. 2508	2. 1062	2. 2201	2. 1242	2. 1252	2. 00916	2. 04484			
			2. 1028	2. 0066	2. 0931	2. 0931	2. 0450	2. 24700	2. 22510	2. 21410	2. 2500	2. 1057	2. 2145	2. 1183	2. 1183	2. 00900	2. 04500	2B	UNC	2. 250–4. 5
		3A	2. 1023	2. 0058	2. 0936	2. 0926	2. 0458	2. 24694	2. 22526	2. 21426	2. 2508	2. 1062	2. 2137	2. 1178	2. 1188	2. 00916	2. 04484			
			2. 1057	2. 0095	2. 0984	2. 0984	2. 0503	2. 25040	2. 22800	---------	2. 2500	2. 1057	2. 2114	2. 1152	2. 1152	2. 00900	2. 03610	3B		
			2. 1052	2. 0087	2. 0989	2. 0979	2. 0511	2. 24984	2. 22816	---------	2. 2508	2. 1062	2. 2106	2. 1147	2. 1157	2. 00916	2. 03594			
		2A	2. 1391	2. 0669	2. 1303	2. 1303	2. 0942	2. 24740	2. 22920	---------	2. 2500	2. 1417	2. 2253	2. 1531	2. 1531	2. 07000	2. 10000	2B		
2. 250–6	UN		2. 1386	2. 0661	2. 1308	2. 1298	2. 0950	2. 24724	2. 22936	---------	2. 2508	2. 1422	2. 2245	2. 1526	2. 1536	2. 07016	2. 09984		UN	2. 250–6
		3A	2. 1417	2. 0695	2. 1351	2. 1351	2. 0990	2. 25000	2. 23180	---------	2. 2500	2. 1417	2. 2224	2. 1502	2. 1502	2. 07000	2. 08960	3B		
			2. 1412	2. 0687	2. 1356	2. 1346	2. 0998	2. 24984	2. 23196	---------	2. 2508	2. 1422	2. 2216	2. 1497	2. 1507	2. 07016	2. 08944			
		2A	2. 1664	2. 1123	2. 1584	2. 1584	2. 1313	2. 24760	2. 23260	2. 22510	2. 2500	2. 1688	2. 2333	2. 1792	2. 1792	2. 11500	2. 14000	2B		
2. 250–8	UN		2. 1659	2. 1116	2. 1589	2. 1579	2. 1320	2. 24744	2. 23276	2. 22526	2. 2507	2. 1693	2. 2326	2. 1787	2. 1797	2. 11516	2. 13984		UN	2. 250–8
		3A	2. 1688	2. 1147	2. 1628	2. 1628	2. 1357	2. 25000	2. 23500	---------	2. 2500	2. 1688	2. 2307	2. 1766	2. 1766	2. 11500	2. 12970	3B		
			2. 1683	2. 1140	2. 1633	2. 1623	2. 1364	2. 24984	2. 23516	---------	2. 2507	2. 1693	2. 2300	2. 1761	2. 1771	2. 11516	2. 12954			
		2A	2. 1941	2. 1580	2. 1880	2. 1880	2. 1700	2. 24820	2. 23680	---------	2. 2500	2. 1959	2. 2399	2. 2038	2. 2038	2. 16000	2. 17800	2B		
2. 250–12	UN		2. 1937	2. 1574	2. 1884	2. 1876	2. 1706	2. 24804	2. 23696	---------	2. 2506	2. 1963	2. 2393	2. 2034	2. 2042	2. 16016	2. 17784		UN	2. 250–12
		3A	2. 1959	2. 1598	2. 1914	2. 1914	2. 1734	2. 25000	2. 23860	---------	2. 2500	2. 1959	2. 2379	2. 2018	2. 2018	2. 16000	2. 16980	3B		
			2. 1955	2. 1592	2. 1918	2. 1910	2. 1740	2. 24984	2. 23876	---------	2. 2506	2. 1963	2. 2373	2. 2014	2. 2022	2. 16016	2. 16964			
		2A	2. 2078	2. 1807	2. 2024	2. 2024	2. 1889	2. 24840	2. 23900	---------	2. 2500	2. 2094	2. 2435	2. 2164	2. 2164	2. 18200	2. 19600	2B		
2. 250–16	UN		2. 2074	2. 1801	2. 2028	2. 2020	2. 1895	2. 24824	2. 23916	---------	2. 2506	2. 2098	2. 2429	2. 2160	2. 2168	2. 18216	2. 19584		UN	2. 250–16
		3A	2. 2094	2. 1823	2. 2054	2. 2054	2. 1919	2. 25000	2. 24060	---------	2. 2500	2. 2094	2. 2417	2. 2146	2. 2146	2. 18200	2. 19080	3B		
			2. 2090	2. 1817	2. 2058	2. 2050	2. 1925	2. 24984	2. 24076	---------	2. 2506	2. 2098	2. 2411	2. 2142	2. 2150	2. 18216	2. 19064			
		2A	2. 2160	2. 1943	2. 2111	2. 2111	2. 2003	2. 24850	2. 24040	---------	2. 2500	2. 2175	2. 2456	2. 2239	2. 2239	2. 19600	2. 20700	2B		
2. 250–20	UN		2. 2156	2. 1938	2. 2115	2. 2107	2. 2008	2. 24834	2. 24056	---------	2. 2505	2. 2179	2. 2451	2. 2235	2. 2243	2. 19616	2. 20684		UN	2. 250–20
		3A	2. 2175	2. 1958	2. 2138	2. 2138	2. 2030	2. 25000	2. 24190	---------	2. 2500	2. 2175	2. 2440	2. 2223	2. 2223	2. 19600	2. 20370	3B		
			2. 2171	2. 1953	2. 2142	2. 2134	2. 2035	2. 24984	2. 24206	---------	2. 2505	2. 2179	2. 2435	2. 2219	2. 2227	2. 19616	2. 20354			
		2A	2. 2640	2. 1918	2. 2551	2. 2551	2. 2190	2. 37230	2. 35410	---------	2. 3750	2. 2667	2. 3504	2. 2782	2. 2782	2. 19500	2. 22600	2B		
2. 375–6	UN		2. 2635	2. 1910	2. 2556	2. 2546	2. 2198	2. 37214	2. 35426	---------	2. 3758	2. 2672	2. 3496	2. 2777	2. 2787	2. 19516	2. 22584		UN	2. 375–6
		3A	2. 2667	2. 1945	2. 2601	2. 2601	2. 2240	2. 37500	2. 35680	---------	2. 3750	2. 2667	2. 3475	2. 2753	2. 2753	2. 19500	2. 21460	3B		
			2. 2662	2. 1937	2. 2606	2. 2596	2. 2248	2. 37484	2. 35696	---------	2. 3758	2. 2672	2. 3467	2. 2748	2. 2758	2. 19516	2. 21444			
		2A	2. 2914	2. 2373	2. 2833	2. 2833	2. 2562	2. 37260	2. 35760	---------	2. 3750	2. 2938	2. 3584	2. 3043	2. 3043	2. 24000	2. 26500	2B		
2. 375–8	UN		2. 2909	2. 2366	2. 2838	2. 2828	2. 2569	2. 37244	2. 35776	---------	2. 3757	2. 2943	2. 3577	2. 3038	2. 3048	2. 24016	2. 26484		UN	2. 375–8
		3A	2. 2938	2. 2397	2. 2878	2. 2878	2. 2607	2. 37500	2. 36000	---------	2. 3750	2. 2938	2. 3558	2. 3017	2. 3017	2. 24000	2. 25470	3B		
			2. 2933	2. 2390	2. 2883	2. 2873	2. 2614	2. 37484	2. 36016	---------	2. 3757	2. 2943	2. 3551	2. 3012	2. 3022	2. 24016	2. 25454			
		2A	2. 3190	2. 2829	2. 3128	2. 3128	2. 2948	2. 37310	2. 36170	---------	2. 3750	2. 3209	2. 3651	2. 3290	2. 3290	2. 28500	2. 30300	2B		
2. 375–12	UN		2. 3186	2. 2823	2. 3132	2. 3124	2. 2954	2. 37294	2. 36186	---------	2. 3756	2. 3213	2. 3645	2. 3286	2. 3294	2. 28516	2. 30284		UN	2. 375–12
		3A	2. 3209	2. 2848	2. 3163	2. 3163	2. 2983	2. 37500	2. 36360	---------	2. 3750	2. 3209	2. 3630	2. 3269	2. 3269	2. 28500	2. 29480	3B		
			2. 3205	2. 2842	2. 3167	2. 3159	2. 2989	2. 37484	2. 36376	---------	2. 3756	2. 3213	2. 3624	2. 3265	2. 3273	2. 28516	2. 29464			

2.375-16	UN	2A	2.3327	2.3056	2.3272	2.3272	2.3137	2.37330	2.36390	---------	2.3750	2.3344	2.3687	2.3416	2.3416	2.30700	2.32100	2B	UN	2.375-16
			2.3323	2.3050	2.3276	2.3268	2.3143	2.37314	2.36406	---------	2.3756	2.3348	2.3681	2.3412	2.3420	2.30716	2.32084			
		3A	2.3344	2.3073	2.3303	2.3303	2.3168	2.37500	2.36560	---------	2.3750	2.3344	2.3669	2.3398	2.3398	2.30700	2.31580	3B		
			2.3340	2.3067	2.3307	2.3299	2.3174	2.37484	2.36576	---------	2.3756	2.3348	2.3663	2.3394	2.3402	2.30716	2.31564			
2.375-20	UN	2A	2.3410	2.3193	2.3359	2.3359	2.3251	2.37350	2.36540	---------	2.3750	2.3425	2.3708	2.3491	2.3491	2.32100	2.33200	2B	UN	2.375-20
			2.3406	2.3188	2.3363	2.3355	2.3256	2.37334	2.36556	---------	2.3755	2.3429	2.3703	2.3487	2.3495	2.32116	2.33184			
		3A	2.3425	2.3208	2.3387	2.3387	2.3279	2.37500	2.36690	---------	2.3750	2.3425	2.3692	2.3475	2.3475	2.32100	2.32870	3B		
			2.3421	2.3203	2.3391	2.3383	2.3284	2.37484	2.36706	---------	2.3755	2.3429	2.3687	2.3471	2.3479	2.32116	2.32854			
2.500-4	UNC	1A	2.3345	2.2262	2.3190	2.3190	2.2649	2.49690	2.46120	---------	2.5000	2.3376	2.4661	2.3578	2.3578	2.22900	2.26700	1B	UNC	2.500-4
			2.3340	2.2253	2.3195	2.3185	2.2658	2.49674	2.46136	---------	2.5009	2.3381	2.4652	2.3573	2.3583	2.22916	2.26684			
		2A	2.3345	2.2262	2.3241	2.3241	2.2700	2.49690	2.47310	2.46120	2.5000	2.3376	2.4594	2.3511	2.3511	2.22900	2.26700	2B		
			2.3340	2.2253	2.3246	2.3236	2.2709	2.49674	2.47326	2.46136	2.5009	2.3381	2.4585	2.3506	2.3516	2.22916	2.26684			
		3A	2.3376	2.2293	2.3298	2.3298	2.2757	2.50000	2.47620	---------	2.5000	2.3376	2.4560	2.3477	2.3477	2.22900	2.25940	3B		
			2.3371	2.2284	2.3303	2.3293	2.2766	2.49984	2.47636	---------	2.5009	2.3381	2.4551	2.3472	2.3482	2.22916	2.25924			
2.500-6	UN	2A	2.3890	2.3168	2.3800	2.3800	2.3439	2.49730	2.47910	---------	2.5000	2.3917	2.4755	2.4033	2.4033	2.32000	2.35000	2B	UN	2.500-6
			2.3885	2.3160	2.3805	2.3795	2.3447	2.49714	2.47926	---------	2.5008	2.3922	2.4747	2.4028	2.4038	2.32016	2.34984			
		3A	2.3917	2.3195	2.3850	2.3850	2.3489	2.50000	2.48180	---------	2.5000	2.3917	2.4726	2.4004	2.4004	2.32000	2.33960	3B		
			2.3912	2.3187	2.3855	2.3845	2.3497	2.49984	2.48196	---------	2.5008	2.3922	2.4718	2.3999	2.4009	2.32016	2.33944			
2.500-8	UN	2A	2.4164	2.3623	2.4082	2.4082	2.3811	2.49760	2.48260	2.47510	2.5000	2.4188	2.4835	2.4294	2.4294	2.36500	2.39000	2B	UN	2.500-8
			2.4159	2.3616	2.4087	2.4077	2.3818	2.49744	2.48276	2.47526	2.5007	2.4193	2.4828	2.4289	2.4299	2.36516	2.38984			
		3A	2.4188	2.3647	2.4127	2.4127	2.3856	2.50000	2.48500	---------	2.5000	2.4188	2.4809	2.4268	2.4268	2.36500	2.37970	3B		
			2.4183	2.3640	2.4132	2.4122	2.3863	2.49984	2.48516	---------	2.5007	2.4193	2.4802	2.4263	2.4273	2.36516	2.37954			
2.500-12	UN	2A	2.4440	2.4079	2.4378	2.4378	2.4198	2.49810	2.48670	---------	2.5000	2.4459	2.4901	2.4540	2.4540	2.41000	2.42800	2B	UN	2.500-12
			2.4436	2.4073	2.4382	2.4374	2.4204	2.49794	2.48686	---------	2.5006	2.4463	2.4895	2.4536	2.4544	2.41016	2.42784			
		3A	2.4459	2.4098	2.4413	2.4413	2.4233	2.50000	2.48860	---------	2.5000	2.4459	2.4880	2.4519	2.4519	2.41000	2.41980	3B		
			2.4455	2.4092	2.4417	2.4409	2.4239	2.49984	2.48876	---------	2.5006	2.4463	2.4874	2.4515	2.4523	2.41016	2.41964			
2.500-16	UN	2A	2.4577	2.4306	2.4522	2.4522	2.4387	2.49830	2.48890	---------	2.5000	2.4594	2.4937	2.4666	2.4666	2.43200	2.44600	2B	UN	2.500-16
			2.4573	2.4300	2.4526	2.4518	2.4393	2.49814	2.48906	---------	2.5006	2.4598	2.4931	2.4662	2.4670	2.43216	2.44584			
		3A	2.4594	2.4323	2.4553	2.4553	2.4418	2.50000	2.49060	---------	2.5000	2.4594	2.4919	2.4648	2.4648	2.43200	2.44080	3B		
			2.4590	2.4317	2.4557	2.4549	2.4424	2.49984	2.49076	---------	2.5006	2.4598	2.4913	2.4644	2.4652	2.43216	2.44064			
2.500-20	UN	2A	2.4660	2.4443	2.4609	2.4609	2.4501	2.49850	2.49040	---------	2.5000	2.4675	2.4958	2.4741	2.4741	2.44600	2.45700	2B	UN	2.500-20
			2.4656	2.4438	2.4613	2.4605	2.4506	2.49834	2.49056	---------	2.5005	2.4679	2.4953	2.4737	2.4745	2.44616	2.45684			
		3A	2.4675	2.4458	2.4637	2.4637	2.4529	2.50000	2.49190	---------	2.5000	2.4675	2.4942	2.4725	2.4725	2.44600	2.45370	3B		
			2.4671	2.4453	2.4641	2.4633	2.4534	2.49984	2.49206	---------	2.5005	2.4679	2.4937	2.4721	2.4729	2.44616	2.45354			
2.625-6	UN	2A	2.5140	2.4418	2.5050	2.5050	2.4689	2.6223	2.6041	---------	2.6250	2.5167	2.6007	2.5285	2.5285	2.4450	2.4750	2B	UN	2.625-6
			2.5135	2.4410	2.5055	2.5045	2.4697	2.6221	2.6043	---------	2.6258	2.5172	2.5999	2.5280	2.5290	2.4452	2.4748			
		3A	2.5167	2.4445	2.5099	2.5099	2.4738	2.6250	2.6068	---------	2.6250	2.5167	2.5977	2.5255	2.5255	2.4450	2.4646	3B		
			2.5162	2.4437	2.5104	2.5094	2.4746	2.6248	2.6070	---------	2.6258	2.5172	2.5969	2.5250	2.5260	2.4452	2.4644			
2.625-8	UN	2A	2.5413	2.4872	2.5331	2.5331	2.5060	2.6225	2.6075	---------	2.6250	2.5438	2.6086	2.5545	2.5545	2.4900	2.5150	2B	UN	2.625-8
			2.5408	2.4865	2.5336	2.5326	2.5067	2.6223	2.6077	---------	2.6257	2.5443	2.6079	2.5540	2.5550	2.4902	2.5148			
		3A	2.5438	2.4897	2.5376	2.5376	2.5105	2.6250	2.6100	---------	2.6250	2.5438	2.6059	2.5518	2.5518	2.4900	2.5047	3B		
			2.5433	2.4890	2.5381	2.5371	2.5112	2.6248	2.6102	---------	2.6257	2.5443	2.6052	2.5513	2.5523	2.4902	2.5045			
2.625-12	UN	2A	2.5690	2.5329	2.5628	2.5628	2.5448	2.6231	2.6117	---------	2.6250	2.5709	2.6151	2.5790	2.5790	2.5350	2.5530	2B	UN	2.625-12
			2.5686	2.5323	2.5632	2.5624	2.5454	2.6229	2.6119	---------	2.6256	2.5713	2.6145	2.5786	2.5794	2.5352	2.5528			
		3A	2.5709	2.5348	2.5663	2.5663	2.5483	2.6250	2.6136	---------	2.6250	2.5709	2.6130	2.5769	2.5769	2.5350	2.5448	3B		
			2.5705	2.5342	2.5667	2.5659	2.5489	2.6248	2.6138	---------	2.6256	2.5713	2.6124	2.5765	2.5773	2.5352	2.5446			
2.625-16	UN	2A	2.5827	2.5556	2.5772	2.5772	2.5637	2.6233	2.6139	---------	2.6250	2.5844	2.6187	2.5916	2.5916	2.5570	2.5710	2B	UN	2.625-16
			2.5823	2.5550	2.5776	2.5768	2.5643	2.6231	2.6141	---------	2.6256	2.5848	2.6181	2.5912	2.5920	2.5572	2.5708			
		3A	2.5844	2.5573	2.5803	2.5803	2.5668	2.6250	2.6156	---------	2.6250	2.5844	2.6169	2.5898	2.5898	2.5570	2.5658	3B		
			2.5840	2.5567	2.5807	2.5799	2.5674	2.6248	2.6158	---------	2.6256	2.5848	2.6163	2.5894	2.5902	2.5572	2.5656			
2.625-20	UN	2A	2.5910	2.5693	2.5859	2.5859	2.5751	2.6235	2.6154	---------	2.6250	2.5925	2.6208	2.5991	2.5991	2.5710	2.5820	2B	UN	2.625-20
			2.5906	2.5688	2.5863	2.5855	2.5756	2.6233	2.6156	---------	2.6255	2.5929	2.6203	2.5987	2.5995	2.5712	2.5818			
		3A	2.5925	2.5708	2.5887	2.5887	2.5779	2.6250	2.6169	---------	2.6250	2.5925	2.6192	2.5975	2.5975	2.5710	2.5787	3B		
			2.5921	2.5703	2.5891	2.5883	2.5784	2.6248	2.6171	---------	2.6255	2.5929	2.6187	2.5971	2.5979	2.5712	2.5785			
2.750-4	UNC	1A	2.5844	2.4761	2.5686	2.5686	2.5145	2.7468	2.7111	---------	2.7500	2.5876	2.7165	2.6082	2.6082	2.4790	2.5170	1B	UNC	2.750-4
			2.5839	2.4752	2.5691	2.5681	2.5154	2.7466	2.7113	---------	2.7509	2.5881	2.7156	2.6077	2.6087	2.4792	2.5168			
		2A	2.5844	2.4761	2.5739	2.5739	2.5198	2.7468	2.7230	2.7111	2.7500	2.5876	2.7096	2.6013	2.6013	2.4790	2.5170	2B		
			2.5839	2.4752	2.5744	2.5734	2.5207	2.7466	2.7232	2.7113	2.7509	2.5881	2.7087	2.6008	2.6018	2.4792	2.5168			
		3A	2.5876	2.4793	2.5797	2.5797	2.5256	2.7500	2.7262	---------	2.7500	2.5876	2.7062	2.5979	2.5879	2.4790	2.5094	3B		
			2.5871	2.4784	2.5802	2.5792	2.5265	2.7498	2.7264	---------	2.7509	2.5881	2.7053	2.5974	2.5984	2.4792	2.5092			
2.750-6	UN	2A	2.6390	2.5668	2.6299	2.6299	2.5938	2.7473	2.7291	---------	2.7500	2.6417	2.7258	2.6536	2.6536	2.5700	2.6000	2B	UN	2.750-6
			2.6385	2.5660	2.6304	2.6294	2.5946	2.7471	2.7293	---------	2.7508	2.6422	2.7250	2.6531	2.6541	2.5702	2.5998			
		3A	2.6417	2.5695	2.6349	2.6349	2.5988	2.7500	2.7318	---------	2.7500	2.6417	2.7228	2.6506	2.6506	2.5700	2.5896	3B		
			2.6412	2.5687	2.6354	2.6344	2.5996	2.7498	2.7320	---------	2.7508	2.6422	2.7220	2.6501	2.6511	2.5702	2.5894			

TABLE 6.19. *Gages for standard thread series, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	Gages for external threads							Gages for internal threads							Class	Series designation	Nominal size and threads per inch
			X thread ring gages					Z plain ring gages for major diameter		X thread plug gages					Z plain plug gages for minor diameter				
			GO		LO			GO	NOT GO	GO		HI			GO	NOT GO			
			Pitch diameter	Minor diameter	Pitch diameter		Minor diameter			Major diameter	Pitch diameter	Major diameter	Pitch diameter						
					Plus tolerance gage	Minus tolerance gage			Semi-finished	Unfinished hot-rolled material				Minus tolerance gage	Plus tolerance gage					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*			
2.750–8	UN	2A	2.6663	2.6122	2.6580	2.6580	2.6309	2.7475	2.7325	2.7250	2.7500	2.6688	2.7337	2.6796	2.6796	2.6150	2.6400	2B	UN	2.750–8
		3A	2.6658	2.6115	2.6585	2.6575	2.6316	2.7473	2.7327	2.7252	2.7507	2.6693	2.7330	2.6791	2.6801	2.6152	2.6398			
			2.6688	2.6147	2.6625	2.6625	2.6354	2.7500	2.7350	----------	2.7500	2.6688	2.7310	2.6769	2.6769	2.6150	2.6297	3B		
			2.6683	2.6140	2.6630	2.6620	2.6361	2.7498	2.7352	----------	2.7507	2.6693	2.7303	2.6764	2.6774	2.6152	2.6295			
2.750–12	UN	2A	2.6940	2.6579	2.6878	2.6878	2.6698	2.7481	2.7367	----------	2.7500	2.6959	2.7401	2.7040	2.7040	2.6600	2.6780	2B	UN	2.750–12
		3A	2.6936	2.6573	2.6882	2.6874	2.6704	2.7479	2.7369	----------	2.7506	2.6963	2.7395	2.7036	2.7044	2.6602	2.6778			
			2.6959	2.6598	2.6913	2.6913	2.6733	2.7500	2.7386	----------	2.7500	2.6959	2.7380	2.7019	2.7019	2.6600	2.6698	3B		
			2.6955	2.6592	2.6917	2.6909	2.6739	2.7498	2.7388	----------	2.7506	2.6963	2.7374	2.7015	2.7023	2.6602	2.6696			
2.750–16	UN	2A	2.7077	2.6806	2.7022	2.7022	2.6887	2.7483	2.7389	----------	2.7500	2.7094	2.7437	2.7166	2.7166	2.6820	2.6960	2B	UN	2.750–16
		3A	2.7073	2.6800	2.7026	2.7018	2.6893	2.7481	2.7391	----------	2.7506	2.7098	2.7431	2.7162	2.7170	2.6822	2.6958			
			2.7094	2.6823	2.7053	2.7053	2.6918	2.7500	2.7406	----------	2.7500	2.7094	2.7419	2.7148	2.7148	2.6820	2.6908	3B		
			2.7090	2.6817	2.7057	2.7049	2.6924	2.7498	2.7408	----------	2.7506	2.7098	2.7413	2.7144	2.7152	2.6822	2.6906			
2.750–20	UN	2A	2.7160	2.6943	2.7109	2.7109	2.7001	2.7485	2.7404	----------	2.7500	2.7175	2.7458	2.7241	2.7241	2.6960	2.7070	2B	UN	2.750–20
		3A	2.7156	2.6938	2.7113	2.7105	2.7006	2.7483	2.7406	----------	2.7505	2.7179	2.7453	2.7237	2.7245	2.6962	2.7068			
			2.7175	2.6958	2.7137	2.7137	2.7029	2.7500	2.7419	----------	2.7500	2.7175	2.7442	2.7225	2.7225	2.6960	2.7037	3B		
			2.7171	2.6953	2.7141	2.7133	2.7034	2.7498	2.7421	----------	2.7505	2.7179	2.7437	2.7221	2.7229	2.6962	2.7035			
2.875–6	UN	2A	2.7639	2.6917	2.7547	2.7547	2.7186	2.8722	2.8540	----------	2.8750	2.7667	2.8509	2.7787	2.7787	2.6950	2.7250	2B	UN	2.875–6
		3A	2.7634	2.6909	2.7552	2.7542	2.7194	2.8720	2.8542	----------	2.8758	2.7672	2.8501	2.7782	2.7792	2.6952	2.7248			
			2.7667	2.6945	2.7598	2.7598	2.7237	2.8750	2.8568	----------	2.8750	2.7667	2.8479	2.7757	2.7757	2.6950	2.7146	3B		
			2.7662	2.6937	2.7603	2.7593	2.7245	2.8748	2.8570	----------	2.8758	2.7672	2.8471	2.7752	2.7762	2.6952	2.7144			
2.875–8	UN	2A	2.7913	2.7372	2.7829	2.7829	2.7558	2.8725	2.8575	----------	2.8750	2.7938	2.8589	2.8048	2.8048	2.7400	2.7650	2B	UN	2.875–8
		3A	2.7908	2.7365	2.7834	2.7824	2.7565	2.8723	2.8577	----------	2.8757	2.7943	2.8582	2.8043	2.8053	2.7402	2.7648			
			2.7938	2.7397	2.7875	2.7875	2.7604	2.8750	2.8600	----------	2.8750	2.7938	2.8561	2.8020	2.8020	2.7400	2.7547	3B		
			2.7933	2.7390	2.7880	2.7870	2.7611	2.8748	2.8602	----------	2.8757	2.7943	2.8554	2.8015	2.8025	2.7402	2.7545			
2.875–12	UN	2A	2.8190	2.7829	2.8127	2.8127	2.7947	2.8731	2.8617	----------	2.8750	2.8209	2.8652	2.8291	2.8291	2.7850	2.8030	2B	UN	2.875–12
		3A	2.8186	2.7823	2.8131	2.8123	2.7953	2.8729	2.8619	----------	2.8756	2.8213	2.8646	2.8287	2.8295	2.7852	2.8028			
			2.8209	2.7848	2.8162	2.8162	2.7982	2.8750	2.8636	----------	2.8750	2.8209	2.8632	2.8271	2.8271	2.7850	2.7948	3B		
			2.8205	2.7842	2.8166	2.8158	2.7988	2.8748	2.8638	----------	2.8756	2.8213	2.8626	2.8267	2.8275	2.7852	2.7946			
2.875–16	UN	2A	2.8327	2.8056	2.8271	2.8271	2.8136	2.8733	2.8639	----------	2.8750	2.8344	2.8688	2.8417	2.8417	2.8070	2.8210	2B	UN	2.875–16
		3A	2.8323	2.8050	2.8275	2.8267	2.8142	2.8731	2.8641	----------	2.8756	2.8348	2.8682	2.8413	2.8421	2.8072	2.8208			
			2.8344	2.8073	2.8302	2.8302	2.8167	2.8750	2.8656	----------	2.8750	2.8344	2.8670	2.8399	2.8399	2.8070	2.8158	3B		
			2.8340	2.8067	2.8306	2.8298	2.8173	2.8748	2.8658	----------	2.8756	2.8348	2.8664	2.8395	2.8403	2.8072	2.8156			
2.875–20	UN	2A	2.8409	2.8192	2.8357	2.8357	2.8249	2.8734	2.8653	----------	2.8750	2.8425	2.8710	2.8493	2.8493	2.8210	2.8320	2B	UN	2.875–20
		3A	2.8405	2.8187	2.8361	2.8353	2.8254	2.8732	2.8655	----------	2.8755	2.8429	2.8705	2.8489	2.8497	2.8212	2.8318			
			2.8425	2.8208	2.8386	2.8386	2.8278	2.8750	2.8669	----------	2.8750	2.8425	2.8693	2.8476	2.8476	2.8210	2.8287	3B		
			2.8421	2.8203	2.8390	2.8382	2.8283	2.8748	2.8671	----------	2.8755	2.8429	2.8688	2.8472	2.8480	2.8212	2.8285			
3.000–4	UNC	1A	2.8344	2.7261	2.8183	2.8183	2.7642	2.9968	2.9611	----------	3.0000	2.8376	2.9668	2.8585	2.8585	2.7290	2.7670	1B	UNC	3.000–4
		2A	2.8339	2.7252	2.8188	2.8178	2.7651	2.9966	2.9613	----------	3.0000	2.8381	2.9659	2.8580	2.8590	2.7292	2.7668			
			2.8344	2.7261	2.8237	2.8237	2.7696	2.9968	2.9730	2.9611	3.0000	2.8376	2.9598	2.8515	2.8515	2.7290	2.7670	2B		
		3A	2.8339	2.7252	2.8242	2.8232	2.7705	2.9966	2.9732	2.9613	3.0000	2.8381	2.9589	2.8510	2.8520	2.7292	2.7668			
			2.8376	2.7293	2.8296	2.8296	2.7755	3.0000	2.9762	----------	3.0000	2.8376	2.9563	2.8480	2.8480	2.7290	2.7594	3B		
			2.8371	2.7284	2.8301	2.8291	2.7764	2.9998	2.9764	----------	3.0009	2.8381	2.9554	2.8475	2.8485	2.7292	2.7592			

3.000-6	UN	2A	2.8889	2.8167	2.8796	2.8796	2.8435	2.9972	2.9790	---------	3.0000	2.8917	2.9760	2.9038	2.9038	2.8200	2.8500	2B	UN	3.000-6
			2.8884	2.8159	2.8801	2.8791	2.8443	2.9970	2.9792	---------	3.0008	2.8922	2.9752	2.9033	2.9043	2.8202	2.8498			
		3A	2.8917	2.8195	2.8847	2.8847	2.8486	3.0000	2.9818	---------	3.0000	2.8917	2.9730	2.9008	2.9008	2.8200	2.8396	3B		
			2.8912	2.8187	2.8852	2.8842	2.8494	2.9998	2.9820	---------	3.0008	2.8922	2.9722	2.9003	2.9013	2.8202	2.8394			
3.000-8	UN	2A	2.9162	2.8621	2.9077	2.9077	2.8806	2.9974	2.9824	2.9749	3.0000	2.9188	2.9840	2.9299	2.9299	2.8650	2.8900	2B	UN	3.000-8
			2.9157	2.8614	2.9082	2.9072	2.8813	2.9972	2.9826	2.9751	3.0007	2.9193	2.9833	2.9294	2.9304	2.8652	2.8898			
		3A	2.9188	2.8647	2.9124	2.9124	2.8853	3.0000	2.9850	---------	3.0000	2.9188	2.9812	2.9271	2.9271	2.8650	2.8797	3B		
			2.9183	2.8640	2.9129	2.9119	2.8860	2.9998	2.9852	---------	3.0007	2.9193	2.9805	2.9266	2.9276	2.8652	2.8795			
3.000-12	UN	2A	2.9440	2.9079	2.9377	2.9377	2.9197	2.9981	2.9867	---------	3.0000	2.9459	2.9902	2.9541	2.9541	2.9100	2.9280	2B	UN	3.000-12
			2.9436	2.9073	2.9381	2.9373	2.9203	2.9979	2.9869	---------	3.0006	2.9463	2.9896	2.9537	2.9545	2.9102	2.9278			
		3A	2.9459	2.9098	2.9412	2.9412	2.9232	3.0000	2.9886	---------	3.0000	2.9459	2.9882	2.9521	2.9521	2.9100	2.9198	3B		
			2.9455	2.9092	2.9416	2.9408	2.9238	2.9998	2.9888	---------	3.0006	2.9463	2.9876	2.9517	2.9525	2.9102	2.9196			
3.000-16	UN	2A	2.9577	2.9306	2.9521	2.9521	2.9386	2.9983	2.9889	---------	3.0000	2.9594	2.9938	2.9667	2.9667	2.9320	2.9460	2B	UN	3.000-16
			2.9573	2.9300	2.9525	2.9517	2.9392	2.9981	2.9891	---------	3.0006	2.9598	2.9932	2.9663	2.9671	2.9322	2.9458			
		3A	2.9594	2.9323	2.9552	2.9552	2.9417	3.0000	2.9906	---------	3.0000	2.9594	2.9920	2.9649	2.9649	2.9320	2.9408	3B		
			2.9590	2.9317	2.9556	2.9548	2.9423	2.9998	2.9908	---------	3.0006	2.9598	2.9914	2.9645	2.9653	2.9322	2.9406			
3.000-20	UN	2A	2.9659	2.9442	2.9607	2.9607	2.9499	2.9984	2.9903	---------	3.0000	2.9675	2.9960	2.9743	2.9743	2.9460	2.9570	2B	UN	3.000-20
			2.9655	2.9437	2.9611	2.9603	2.9504	2.9982	2.9905	---------	3.0005	2.9679	2.9955	2.9739	2.9747	2.9462	2.9568			
		3A	2.9675	2.9458	2.9636	2.9636	2.9528	3.0000	2.9919	---------	3.0000	2.9675	2.9943	2.9726	2.9726	2.9460	2.9537	3B		
			2.9671	2.9453	2.9640	2.9632	2.9533	2.9998	2.9921	---------	3.0005	2.9679	2.9938	2.9722	2.9730	2.9462	2.9535			
3.125-6	UN	2A	3.0139	2.9417	3.0045	3.0045	2.9684	3.1222	3.1040	---------	3.1250	3.0167	3.1011	3.0289	3.0289	2.9450	2.9750	2B	UN	3.125-6
			3.0134	2.9409	3.0050	3.0040	2.9692	3.1220	3.1042	---------	3.1258	3.0172	3.1003	3.0284	3.0294	2.9452	2.9748			
		3A	3.0167	2.9445	3.0097	3.0097	2.9736	3.1250	3.1068	---------	3.1250	3.0167	3.0981	3.0259	3.0259	2.9450	2.9646	3B		
			3.0162	2.9437	3.0102	3.0092	2.9744	3.1248	3.1070	---------	3.1258	3.0172	3.0973	3.0254	3.0264	2.9452	2.9644			
3.125-8	UN	2A	3.0412	2.9871	3.0326	3.0326	3.0055	3.1224	3.1074	---------	3.1250	3.0438	3.1091	3.0550	3.0550	2.9900	3.0150	2B	UN	3.125-8
			3.0407	2.9864	3.0331	3.0321	3.0062	3.1222	3.1076	---------	3.1257	3.0443	3.1084	3.0545	3.0555	2.9902	3.0148			
		3A	3.0438	2.9897	3.0374	3.0374	3.0103	3.1250	3.1100	---------	3.1250	3.0438	3.1063	3.0522	3.0522	2.9900	3.0047	3B		
			3.0433	2.9890	3.0379	3.0369	3.0110	3.1248	3.1102	---------	3.1257	3.0443	3.1056	3.0517	3.0527	2.9902	3.0045			
3.125-12	UN	2A	3.0690	3.0329	3.0627	3.0627	3.0447	3.1231	3.1117	---------	3.1250	3.0709	3.1152	3.0791	3.0791	3.0350	3.0530	2B	UN	3.125-12
			3.0686	3.0323	3.0631	3.0623	3.0453	3.1229	3.1119	---------	3.1256	3.0713	3.1146	3.0787	3.0795	3.0352	3.0528			
		3A	3.0709	3.0348	3.0662	3.0662	3.0482	3.1250	3.1136	---------	3.1250	3.0709	3.1132	3.0771	3.0771	3.0350	3.0448	3B		
			3.0705	3.0342	3.0666	3.0658	3.0488	3.1248	3.1138	---------	3.1256	3.0713	3.1126	3.0767	3.0775	3.0352	3.0446			
3.125-16	UN	2A	3.0827	3.0556	3.0771	3.0771	3.0636	3.1233	3.1139	---------	3.1250	3.0844	3.1188	3.0917	3.0917	3.0570	3.0710	2B	UN	3.125-16
			3.0823	3.0550	3.0775	3.0767	3.0642	3.1231	3.1141	---------	3.1256	3.0848	3.1182	3.0913	3.0921	3.0572	3.0708			
		3A	3.0844	3.0573	3.0802	3.0802	3.0667	3.1250	3.1156	---------	3.1250	3.0844	3.1170	3.0899	3.0899	3.0570	3.0658	3B		
			3.0840	3.0567	3.0806	3.0798	3.0673	3.1248	3.1158	---------	3.1256	3.0848	3.1164	3.0895	3.0903	3.0572	3.0656			
3.250-4	UNC	1A	3.0843	2.9760	3.0680	3.0680	3.0139	3.2467	3.2110	---------	3.2500	3.0876	3.2171	3.1088	3.1088	2.9790	3.0170	1B	UNC	3.250-4
			3.0838	2.9751	3.0685	3.0675	3.0148	3.2465	3.2112	---------	3.2509	3.0881	3.2162	3.1083	3.1093	2.9792	3.0168			
		2A	3.0843	2.9760	3.0734	3.0734	3.0193	3.2467	3.2229	3.2110	3.2500	3.0876	3.2100	3.1017	3.1017	2.9790	3.0170	2B		
			3.0838	2.9751	3.0739	3.0729	3.0202	3.2465	3.2231	3.2112	3.2509	3.0881	3.2091	3.1012	3.1022	2.9792	3.0168			
		3A	3.0876	2.9793	3.0794	3.0794	3.0253	3.2500	3.2262	---------	3.2500	3.0876	3.2065	3.0982	3.0982	2.9790	3.0094	3B		
			3.0871	2.9784	3.0799	3.0789	3.0262	3.2498	3.2264	---------	3.2509	3.0881	3.2056	3.0977	3.0987	2.9792	3.0092			
3.250-6	UN	2A	3.1389	3.0667	3.1294	3.1294	3.0933	3.2472	3.2290	---------	3.2500	3.1417	3.2262	3.1540	3.1540	3.0700	3.1000	2B	UN	3.250-6
			3.1384	3.0659	3.1299	3.1289	3.0941	3.2470	3.2292	---------	3.2508	3.1422	3.2254	3.1535	3.1545	3.0702	3.0998			
		3A	3.1417	3.0695	3.1346	3.1346	3.0985	3.2500	3.2318	---------	3.2500	3.1417	3.2231	3.1509	3.1509	3.0700	3.0896	3B		
			3.1412	3.0687	3.1351	3.1341	3.0993	3.2498	3.2320	---------	3.2508	3.1422	3.2223	3.1504	3.1514	3.0702	3.0894			
3.250-8	UN	2A	3.1662	3.1121	3.1575	3.1575	3.1304	3.2474	3.2324	3.2249	3.2500	3.1688	3.2342	3.1801	3.1801	3.1150	3.1400	2B	UN	3.250-8
			3.1657	3.1114	3.1580	3.1570	3.1311	3.2472	3.2326	3.2251	3.2507	3.1693	3.2335	3.1796	3.1806	3.1152	3.1398			
		3A	3.1688	3.1147	3.1623	3.1623	3.1352	3.2500	3.2350	---------	3.2500	3.1688	3.2314	3.1773	3.1773	3.1150	3.1297	3B		
			3.1683	3.1140	3.1628	3.1618	3.1359	3.2498	3.2352	---------	3.2507	3.1693	3.2307	3.1768	3.1778	3.1152	3.1295			
3.250-12	UN	2A	3.1940	3.1579	3.1877	3.1877	3.1697	3.2481	3.2367	---------	3.2500	3.1959	3.2402	3.2041	3.2041	3.1600	3.1780	2B	UN	3.250-12
			3.1936	3.1573	3.1881	3.1873	3.1703	3.2479	3.2369	---------	3.2506	3.1963	3.2396	3.2037	3.2045	3.1602	3.1778			
		3A	3.1959	3.1598	3.1912	3.1912	3.1732	3.2500	3.2386	---------	3.2500	3.1959	3.2382	3.2021	3.2021	3.1600	3.1698	3B		
			3.1955	3.1592	3.1916	3.1908	3.1738	3.2498	3.2388	---------	3.2506	3.1963	3.2376	3.2017	3.2025	3.1602	3.1696			
3.250-16	UN	2A	3.2077	3.1806	3.2021	3.2021	3.1886	3.2483	3.2389	---------	3.2500	3.2094	3.2438	3.2167	3.2167	3.1820	3.1960	2B	UN	3.250-16
			3.2073	3.1800	3.2025	3.2017	3.1892	3.2481	3.2391	---------	3.2506	3.2098	3.2432	3.2163	3.2171	3.1822	3.1958			
		3A	3.2094	3.1823	3.2052	3.2052	3.1917	3.2500	3.2406	---------	3.2500	3.2094	3.2420	3.2149	3.2149	3.1820	3.1908	3B		
			3.2090	3.1817	3.2056	3.2048	3.1923	3.2498	3.2408	---------	3.2506	3.2098	3.2414	3.2145	3.2153	3.1822	3.1906			
3.375-6	UN	2A	3.2638	3.1916	3.2543	3.2543	3.2182	3.3721	3.3539	---------	3.3750	3.2667	3.3513	3.2791	3.2791	3.1950	3.2250	2B	UN	3.375-6
			3.2633	3.1908	3.2548	3.2538	3.2190	3.3719	3.3541	---------	3.3758	3.2672	3.3505	3.2786	3.2796	3.1952	3.2248			
		3A	3.2667	3.1945	3.2595	3.2595	3.2234	3.3750	3.3568	---------	3.3750	3.2667	3.3482	3.2760	3.2760	3.1950	3.2146	3B		
			3.2662	3.1937	3.2600	3.2590	3.2242	3.3748	3.3570	---------	3.3758	3.2672	3.3474	3.2755	3.2765	3.1952	3.2144			

TABLE 6.19. *Gages for standard thread series, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	Gages for external threads								Gages for internal threads							Class	Series designation	Nominal size and threads per inch
			X thread ring gages					Z plain ring gages for major diameter			X thread plug gages					Z plain plug gages for minor diameter				
			GO		LO			GO	NOT GO		GO		HI			GO	NOT GO			
			Pitch diameter	Minor diameter	Pitch diameter		Minor diameter		Semi-finished	Unfinished hot-rolled material	Major diameter	Pitch diameter	Major diameter	Pitch diameter						
					Plus tolerance gage	Minus tolerance gage								Minus tolerance gage	Plus tolerance gage					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*			
3.375–8	UN	2A	3.2912	3.2371	3.2824	3.2824	3.2553	3.3724	3.3574	---	3.3750	3.2938	3.3593	3.3052	3.3052	3.2400	3.2650	2B	UN	3.375–8
		3A	3.2907	3.2364	3.2829	3.2819	3.2560	3.3722	3.3576	---	3.3757	3.2943	3.3586	3.3047	3.3057	3.2402	3.2648			
			3.2938	3.2397	3.2872	3.2872	3.2601	3.3750	3.3600	---	3.3750	3.2938	3.3564	3.3023	3.3023	3.2400	3.2547	3B		
			3.2933	3.2390	3.2877	3.2867	3.2608	3.3748	3.3602	---	3.3757	3.2943	3.3557	3.3018	3.3028	3.2402	3.2545			
3.375–12	UN	2A	3.3190	3.2829	3.3126	3.3126	3.2946	3.3731	3.3617	---	3.3750	3.3209	3.3654	3.3293	3.3293	3.2850	3.3030	2B	UN	3.375–12
		3A	3.3186	3.2823	3.3130	3.3122	3.2952	3.3729	3.3619	---	3.3756	3.3213	3.3648	3.3289	3.3297	3.2852	3.3028			
			3.3209	3.2848	3.3161	3.3161	3.2981	3.3750	3.3636	---	3.3750	3.3209	3.3633	3.3272	3.3272	3.2850	3.2948	3B		
			3.3205	3.2842	3.3165	3.3157	3.2987	3.3748	3.3638	---	3.3756	3.3213	3.3627	3.3268	3.3276	3.2852	3.2946			
3.375–16	UN	2A	3.3327	3.3056	3.3269	3.3269	3.3134	3.3733	3.3639	---	3.3750	3.3344	3.3690	3.3419	3.3419	3.3070	3.3210	2B	UN	3.375–16
		3A	3.3323	3.3050	3.3273	3.3265	3.3140	3.3731	3.3641	---	3.3756	3.3348	3.3684	3.3415	3.3423	3.3072	3.3208			
			3.3344	3.3073	3.3301	3.3301	3.3166	3.3750	3.3656	---	3.3750	3.3344	3.3671	3.3400	3.3400	3.3070	3.3158	3B		
			3.3340	3.3067	3.3305	3.3297	3.3172	3.3748	3.3658	---	3.3756	3.3348	3.3665	3.3396	3.3404	3.3072	3.3156			
3.500–4	UNC	1A	3.3343	3.2260	3.3177	3.3177	3.2636	3.4967	3.4610	---	3.5000	3.3376	3.4674	3.3591	3.3591	3.2290	3.2670	1B	UNC	3.500–4
		2A	3.3338	3.2251	3.3182	3.3172	3.2645	3.4965	3.4612	---	3.5009	3.3381	3.4665	3.3586	3.3596	3.2292	3.2668			
			3.3343	3.2260	3.3233	3.3233	3.2692	3.4967	3.4729	3.4610	3.5000	3.3376	3.4602	3.3519	3.3519	3.2290	3.2670	2B		
		3A	3.3338	3.2251	3.3238	3.3228	3.2701	3.4965	3.4731	3.4612	3.5009	3.3381	3.4593	3.3514	3.3524	3.2292	3.2668			
			3.3376	3.2293	3.3293	3.3293	3.2752	3.5000	3.4762	---	3.5000	3.3376	3.4567	3.3484	3.3484	3.2290	3.2594	3B		
			3.3371	3.2284	3.3298	3.3288	3.2761	3.4998	3.4764	---	3.5009	3.3381	3.4558	3.3479	3.3489	3.2292	3.2592			
3.500–6	UN	2A	3.3888	3.3166	3.3792	3.3792	3.3431	3.4971	3.4789	---	3.5000	3.3917	3.4764	3.4042	3.4042	3.3200	3.3500	2B	UN	3.500–6
		3A	3.3883	3.3158	3.3797	3.3787	3.3439	3.4969	3.4791	---	3.5008	3.3922	3.4756	3.4037	3.4047	3.3202	3.3498			
			3.3917	3.3195	3.3845	3.3845	3.3484	3.5000	3.4818	---	3.5000	3.3917	3.4733	3.4011	3.4011	3.3200	3.3396	3B		
			3.3912	3.3187	3.3850	3.3840	3.3492	3.4998	3.4820	---	3.5008	3.3922	3.4725	3.4006	3.4016	3.3202	3.3394			
3.500–8	UN	2A	3.4162	3.3621	3.4074	3.4074	3.3803	3.4974	3.4824	3.4749	3.5000	3.4188	3.4844	3.4303	3.4303	3.3650	3.3900	2B	UN	3.500–8
		3A	3.4157	3.3614	3.4079	3.4069	3.3810	3.4972	3.4826	3.4751	3.5007	3.4193	3.4837	3.4298	3.4308	3.3652	3.3898			
			3.4188	3.3647	3.4122	3.4122	3.3851	3.5000	3.4850	---	3.5000	3.4188	3.4815	3.4274	3.4274	3.3650	3.3797	3B		
			3.4183	3.3640	3.4127	3.4117	3.3858	3.4998	3.4852	---	3.5007	3.4193	3.4808	3.4269	3.4279	3.3652	3.3795			
3.500–12	UN	2A	3.4440	3.4079	3.4376	3.4376	3.4196	3.4981	3.4867	---	3.5000	3.4459	3.4904	3.4543	3.4543	3.4100	3.4280	2B	UN	3.500–12
		3A	3.4436	3.4073	3.4380	3.4372	3.4202	3.4979	3.4869	---	3.5006	3.4463	3.4898	3.4539	3.4547	3.4102	3.4278			
			3.4459	3.4098	3.4411	3.4411	3.4231	3.5000	3.4886	---	3.5000	3.4459	3.4883	3.4522	3.4522	3.4100	3.4198	3B		
			3.4455	3.4092	3.4415	3.4407	3.4237	3.4998	3.4888	---	3.5006	3.4463	3.4877	3.4518	3.4526	3.4102	3.4196			
3.500–16	UN	2A	3.4577	3.4306	3.4519	3.4519	3.4384	3.4983	3.4889	---	3.5000	3.4594	3.4940	3.4669	3.4669	3.4320	3.4460	2B	UN	3.500–16
		3A	3.4573	3.4300	3.4523	3.4515	3.4390	3.4981	3.4891	---	3.5006	3.4598	3.4934	3.4665	3.4673	3.4322	3.4458			
			3.4594	3.4323	3.4551	3.4551	3.4416	3.5000	3.4906	---	3.5000	3.4594	3.4921	3.4650	3.4650	3.4320	3.4408	3B		
			3.4590	3.4317	3.4555	3.4547	3.4422	3.4998	3.4908	---	3.5006	3.4598	3.4915	3.4646	3.4654	3.4322	3.4406			
3.625–6	UN	2A	3.5138	3.4416	3.5041	3.5041	3.4680	3.6221	3.6039	---	3.6250	3.5167	3.6015	3.5293	3.5293	3.4450	3.4750	2B	UN	3.625–6
		3A	3.5133	3.4408	3.5046	3.5036	3.4688	3.6219	3.6041	---	3.6258	3.5172	3.6007	3.5288	3.5298	3.4452	3.4748			
			3.5167	3.4445	3.5094	3.5094	3.4733	3.6250	3.6068	---	3.6250	3.5167	3.5984	3.5262	3.5262	3.4450	3.4646	3B		
			3.5162	3.4437	3.5099	3.5089	3.4741	3.6248	3.6070	---	3.6258	3.5172	3.5976	3.5257	3.5267	3.4452	3.4644			
3.625–8	UN	2A	3.5411	3.4870	3.5322	3.5322	3.5051	3.6223	3.6073	---	3.6250	3.5438	3.6095	3.5554	3.5554	3.4900	3.5150	2B	UN	3.625–8
		3A	3.5406	3.4863	3.5327	3.5317	3.5058	3.6221	3.6075	---	3.6257	3.5443	3.6088	3.5549	3.5559	3.4902	3.5148			
			3.5438	3.4897	3.5371	3.5371	3.5100	3.6250	3.6100	---	3.6250	3.5438	3.6066	3.5525	3.5525	3.4900	3.5047	3B		
			3.5433	3.4890	3.5376	3.5366	3.5107	3.6248	3.6102	---	3.6257	3.5443	3.6059	3.5520	3.5530	3.4902	3.5045			

3.625-12	UN	2A	3.5690	3.5329	3.5626	3.5626	3.5446	3.6231	3.6117	---	3.6250	3.5709	3.6154	3.5793	3.5793	3.5350	3.5530	2B	UN	3.625-12
			3.5686	3.5323	3.5630	3.5622	3.5452	3.6229	3.6119	---	3.6256	3.5713	3.6148	3.5789	3.5797	3.5352	3.5528			
		3A	3.5709	3.5348	3.5661	3.5661	3.5481	3.6250	3.6136	---	3.6250	3.5709	3.6133	3.5772	3.5772	3.5350	3.5448	3B		
			3.5705	3.5342	3.5665	3.5657	3.5487	3.6248	3.6138	---	3.6256	3.5713	3.6127	3.5768	3.5776	3.5352	3.5446			
3.625-16	UN	2A	3.5827	3.5556	3.5769	3.5769	3.5634	3.6233	3.6139	---	3.6250	3.5844	3.6190	3.5919	3.5919	3.5570	3.5710	2B	UN	3.625-16
			3.5823	3.5550	3.5773	3.5765	3.5640	3.6231	3.6141	---	3.6256	3.5848	3.6184	3.5915	3.5923	3.5572	3.5708			
		3A	3.5844	3.5573	3.5801	3.5801	3.5666	3.6250	3.6156	---	3.6250	3.5844	3.6171	3.5900	3.5900	3.5570	3.5658	3B		
			3.5840	3.5567	3.5805	3.5797	3.5672	3.6248	3.6158	---	3.6256	3.5848	3.6165	3.5896	3.5904	3.5572	3.5656			
3.750-4	UNC	1A	3.5842	3.4759	3.5674	3.5674	3.5133	3.7466	3.7109	---	3.7500	3.5876	3.7177	3.6094	3.6094	3.4790	3.5170	1B	UNC	3.750-4
			3.5837	3.4750	3.5679	3.5669	3.5142	3.7464	3.7111	---	3.7509	3.5881	3.7168	3.6089	3.6099	3.4792	3.5168			
		2A	3.5842	3.4759	3.5730	3.5730	3.5189	3.7466	3.7228	3.7109	3.7500	3.5876	3.7104	3.6021	3.6021	3.4790	3.5170	2B		
			3.5837	3.4750	3.5735	3.5725	3.5198	3.7464	3.7230	3.7111	3.7509	3.5881	3.7095	3.6016	3.6026	3.4792	3.5168			
		3A	3.5876	3.4793	3.5792	3.5792	3.5251	3.7500	3.7262	---	3.7500	3.5876	3.7068	3.5985	3.5985	3.4790	3.5094	3B		
			3.5871	3.4784	3.5797	3.5787	3.5260	3.7498	3.7264	---	3.7509	3.5881	3.7059	3.5980	3.5990	3.4792	3.5092			
3.750-6	UN	2A	3.6388	3.5666	3.6290	3.6290	3.5929	3.7471	3.7289	---	3.7500	3.6417	3.7266	3.6544	3.6544	3.5700	3.6000	2B	UN	3.750-6
			3.6383	3.5658	3.6295	3.6285	3.5937	3.7469	3.7291	---	3.7508	3.6422	3.7258	3.6539	3.6549	3.5702	3.5998			
		3A	3.6417	3.5695	3.6344	3.6344	3.5983	3.7500	3.7318	---	3.7500	3.6417	3.7234	3.6512	3.6512	3.5700	3.5896	3B		
			3.6412	3.5687	3.6349	3.6339	3.5991	3.7498	3.7320	---	3.7508	3.6422	3.7226	3.6507	3.6517	3.5702	3.5894			
3.750-8	UN	2A	3.6661	3.6120	3.6571	3.6571	3.6300	3.7473	3.7323	3.7248	3.7500	3.6688	3.7346	3.6805	3.6805	3.6150	3.6400	2B	UN	3.750-8
			3.6656	3.6113	3.6576	3.6566	3.6307	3.7471	3.7325	3.7250	3.7507	3.6693	3.7339	3.6800	3.6810	3.6152	3.6398			
		3A	3.6688	3.6147	3.6621	3.6621	3.6350	3.7500	3.7350	---	3.7500	3.6688	3.7317	3.6776	3.6776	3.6150	3.6297	3B		
			3.6683	3.6140	3.6626	3.6616	3.6357	3.7498	3.7352	---	3.7507	3.6693	3.7310	3.6771	3.6781	3.6152	3 6295			
3.750-12	UN	2A	3.6940	3.6579	3.6876	3.6876	3.6696	3.7481	3.7367	---	3.7500	3.6959	3.7404	3.7043	3.7043	3.6600	3.6780	2B	UN	3.750-12
			3.6936	3.6573	3.6880	3.6872	3.6702	3.7479	3.7369	---	3.7506	3.6963	3.7398	3.7039	3.7047	3.6602	3.6778			
		3A	3.6959	3.6598	3.6911	3.6911	3.6731	3.7500	3.7386	---	3.7500	3.6959	3.7383	3.7022	3.7022	3.6600	3.6698	3B		
			3.6955	3.6592	3.6915	3.6907	3.6737	3.7498	3.7388	---	3.7506	3.6963	3.7377	3.7018	3.7026	3.6602	3.6696			
3.750-16	UN	2A	3.7077	3.6806	3.7019	3.7019	3.6884	3.7483	3.7389	---	3.7500	3.7094	3.7440	3.7169	3.7169	3.6820	3.6960	2B	UN	3.750-16
			3.7073	3.6800	3.7023	3.7015	3.6890	3.7481	3.7391	---	3.7506	3.7098	3.7434	3.7165	3.7173	3.6822	3.6958			
		3A	3.7094	3.6823	3.7051	3.7051	3.6916	3.7500	3.7406	---	3.7500	3.7094	3.7421	3.7150	3.7150	3.6820	3.6908	3B		
			3.7090	3.6817	3.7055	3.7047	3.6922	3.7498	3.7408	---	3.7506	3.7098	3.7415	3.7146	3.7154	3.6822	3.6906			
3.875-6	UN	2A	3.7637	3.6915	3.7538	3.7538	3.7177	3.8720	3.8538	---	3.8750	3.7667	3.8517	3.7795	3.7795	3.6950	3.7250	2B	UN	3.875-6
			3.7632	3.6907	3.7543	3.7533	3.7185	3.8718	3.8540	---	3.8758	3.7672	3.8509	3.7790	3.7800	3.6952	3.7248			
		3A	3.7667	3.6945	3.7593	3.7593	3.7232	3.8750	3.8568	---	3.8750	3.7667	3.8485	3.7763	3.7763	3.6950	3.7146	3B		
			3.7662	3.6937	3.7598	3.7588	3.7240	3.8748	3.8570	---	3.8758	3.7672	3.8477	3.7758	3.7768	3.6952	3.7144			
3.875-8	UN	2A	3.7911	3.7370	3.7820	3.7820	3.7549	3.8723	3.8573	---	3.8750	3.7938	3.8597	3.8056	3.8056	3.7400	3.7650	2B	UN	3.875-8
			3.7906	3.7363	3.7825	3.7815	3.7556	3.8721	3.8575	---	3.8757	3.7943	3.8590	3.8051	3.8061	3.7402	3.7648			
		3A	3.7938	3.7397	3.7870	3.7870	3.7599	3.8750	3.8600	---	3.8750	3.7938	3.8567	3.8026	3.8026	3.7400	3.7547	3B		
			3.7933	3.7390	3.7875	3.7865	3.7606	3.8748	3.8602	---	3.8757	3.7943	3.8560	3.8021	3.8031	3.7402	3.7545			
3.875-12	UN	2A	3.8189	3.7828	3.8124	3.8124	3.7944	3.8730	3.8616	---	3.8750	3.8209	3.8655	3.8294	3.8294	3.7850	3.8030	2B	UN	3.875-12
			3.8185	3.7822	3.8128	3.8120	3.7950	3.8728	3.8618	---	3.8756	3.8213	3.8649	3.8290	3.8298	3.7852	3.8028			
		3A	3.8209	3.7848	3.8160	3.8160	3.7980	3.8750	3.8636	---	3.8750	3.8209	3.8634	3.8273	3.8273	3.7850	3 7948	3B		
			3.8205	3.7842	3.8164	3.8156	3.7986	3.8748	3.8638	---	3.8756	3.8213	3.8628	3.8269	3.8277	3.7852	3.7946			
3.875-16	UN	2A	3.8326	3.8055	3.8267	3.8267	3.8132	3.8732	3.8638	---	3.8750	3.8344	3.8691	3.8420	3.8420	3.8070	3.8210	2B	UN	3.875-16
			3.8322	3.8049	3.8271	3.8263	3.8138	3.8730	3.8640	---	3.8756	3.8348	3.8685	3.8416	3.8424	3.8072	3.8208			
		3A	3.8344	3.8073	3.8300	3.8300	3.8165	3.8750	3.8656	---	3.8750	3.8344	3.8672	3.8401	3.8401	3.8070	3.8158	3B		
			3.8340	3.8067	3.8304	3.8296	3.8171	3.8748	3.8658	---	3.8756	3.8348	3.8666	3.8397	3.8405	3.8072	3.8156			
4.000-4	UNC	1A	3.8342	3.7259	3.8172	3.8172	3.7631	3.9966	3.9609	---	4.0000	3.8376	3.9680	3.8597	3.8597	3.7290	3.7670	1B	UNC	4.000-4
			3.8337	3.7250	3.8177	3.8167	3.7640	3.9964	3.9611	---	4.0009	3.8381	3.9671	3.8592	3.8602	3.7292	3.7668			
		2A	3.8342	3.7259	3.8229	3.8229	3.7688	3.9966	3.9728	3.9609	4.0000	3.8376	3.9606	3.8523	3.8523	3.7290	3.7670	2B		
			3.8337	3.7250	3.8234	3.8224	3.7697	3.9964	3.9730	3.9611	4.0009	3.8381	3.9597	3.8518	3.8528	3.7292	3.7668			
		3A	3.8376	3.7293	3.8291	3.8291	3.7750	4.0000	3.9762	---	4.0000	3.8376	3.9570	3.8487	3.8487	3.7290	3.7594	3B		
			3.8371	3.7284	3.8296	3.8286	3.7759	3.9998	3.9764	---	4.0009	3.8381	3.9561	3.8482	3.8492	3.7292	3.7592			
4.000-6	UN	2A	3.8887	3.8165	3.8788	3.8788	3.8427	3.9970	3.9788	---	4.0000	3.8917	3.9768	3.9046	3.9046	3.8200	3.8500	2B	UN	4.000-6
			3.8882	3.8157	3.8793	3.8783	3.8435	3.9968	3.9790	---	4.0008	3.8922	3.9760	3.9041	3.9051	3.8202	3.8498			
		3A	3.8917	3.8195	3.8843	3.8843	3.8482	4.0000	3.9818	---	4.0000	3.8917	3.9736	3.9014	3.9014	3.8200	3.8396	3B		
			3.8912	3.8187	3.8848	3.8838	3.8490	3.9998	3.9820	---	4.0008	3.8922	3.9728	3.9009	3.9019	3.8202	3.8394			
4.000-8	UN	2A	3.9161	3.8620	3.9070	3.9070	3.8799	3.9973	3.9823	3.9748	4.0000	3.9188	3.9848	3.9307	3.9307	3.8650	3.8900	2B	UN	4.000-8
			3.9156	3.8613	3.9075	3.9065	3.8806	3.9971	3.9825	3.9750	4.0007	3.9193	3.9841	3.9302	3.9312	3.8652	3.8898			
		3A	3.9188	3.8647	3.9120	3.9120	3.8849	4.0000	3.9850	---	4.0000	3.9188	3.9818	3.9277	3.9277	3.8650	3.8797	3B		
			3.9183	3.8640	3.9125	3.9115	3.8856	3.9998	3.9852	---	4.0007	3.9193	3.9811	3.9272	3.9282	3.8652	3.8795			

212-951 O - 76 - 12

TABLE 6.19. *Gages for standard thread series, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	Gages for external threads								Gages for internal threads							Class	Series designation	Nominal size and threads per inch
			X thread ring gages					Z plain ring gages for major diameter			X thread plug gages					Z plain plug gages for minor diameter				
			GO		LO			GO	NOT GO		GO		HI			GO	NOT GO			
			Pitch diameter	Minor diameter	Pitch diameter		Minor diameter		Semi-finished	Unfinished hot-rolled material	Major diameter	Pitch diameter	Major diameter	Pitch diameter						
					Plus tolerance gage	Minus tolerance gage								Minus tolerance gage	Plus tolerance gage					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*			
4.000–12	UN	2A	3.9439	3.9078	3.9374	3.9374	3.9194	3.9980	3.9866	----------	4.0000	3.9459	3.9905	3.9544	3.9544	3.9100	3.9280	2B	UN	4.000–12
			3.9435	3.9072	3.9378	3.9370	3.9200	3.9978	3.9868	----------	4.0006	3.9463	3.9899	3.9540	3.9548	3.9102	3.9278			
		3A	3.9459	3.9098	3.9410	3.9410	3.9230	4.0000	3.9886	----------	4.0000	3.9459	3.9884	3.9523	3.9523	3.9100	3.9198	3B		
			3.9455	3.9092	3.9414	3.9406	3.9236	3.9998	3.9888	----------	4.0006	3.9463	3.9878	3.9519	3.9527	3.9102	3.9196			
4.000–16	UN	2A	3.9576	3.9305	3.9517	3.9517	3.9382	3.9982	3.9888	----------	4.0000	3.9594	3.9941	3.9670	3.9670	3.9320	3.9460	2B	UN	4.000–16
			3.9572	3.9299	3.9521	3.9513	3.9388	3.9980	3.9890	----------	4.0006	3.9598	3.9935	3.9666	3.9674	3.9322	3.9458			
		3A	3.9594	3.9323	3.9550	3.9550	3.9415	4.0000	3.9906	----------	4.0000	3.9594	3.9922	3.9651	3.9651	3.9320	3.9408	3B		
			3.9590	3.9317	3.9554	3.9546	3.9421	3.9998	3.9908	----------	4.0006	3.9598	3.9916	3.9647	3.9655	3.9322	3.9406			
4.125–6	UN	2A	4.0137	3.9415	4.0037	4.0037	3.9676	4.1220	4.1038	----------	4.1250	4.0167	4.1019	4.0297	4.0297	3.9450	3.9750	2B	UN	4.125–6
			4.0131	3.9402	4.0043	4.0031	3.9689	4.1218	4.1040	----------	4.1263	4.0173	4.1006	4.0291	4.0303	3.9452	3.9748			
		3A	4.0167	3.9445	4.0092	4.0092	3.9731	4.1250	4.1068	----------	4.1250	4.0167	4.0986	4.0264	4.0264	3.9450	3.9646	3B		
			4.0161	3.9432	4.0098	4.0086	3.9744	4.1248	4.1070	----------	4.1263	4.0173	4.0973	4.0258	4.0270	3.9452	3.9644			
4.125–12	UN	2A	4.0689	4.0328	4.0624	4.0624	4.0444	4.1230	4.1116	----------	4.1250	4.0709	4.1155	4.0794	4.0794	4.0350	4.0530	2B	UN	4.125–12
			4.0683	4.0319	4.0630	4.0618	4.0453	4.1228	4.1118	----------	4.1259	4.0715	4.1146	4.0788	4.0800	4.0352	4.0528			
		3A	4.0709	4.0348	4.0660	4.0660	4.0480	4.1250	4.1136	----------	4.1250	4.0709	4.1134	4.0773	4.0773	4.0350	4.0448	3B		
			4.0703	4.0339	4.0666	4.0654	4.0489	4.1248	4.1138	----------	4.1259	4.0715	4.1125	4.0767	4.0779	4.0352	4.0446			
4.125–16	UN	2A	4.0826	4.0555	4.0767	4.0767	4.0632	4.1232	4.1138	----------	4.1250	4.0844	4.1191	4.0920	4.0920	4.0570	4.0710	2B	UN	4.125–16
			4.0820	4.0546	4.0773	4.0761	4.0641	4.1230	4.1140	----------	4.1259	4.0850	4.1182	4.0914	4.0926	4.0572	4.0708			
		3A	4.0844	4.0573	4.0800	4.0800	4.0665	4.1250	4.1156	----------	4.1250	4.0844	4.1172	4.0901	4.0901	4.0570	4.0658	3B		
			4.0838	4.0564	4.0806	4.0794	4.0674	4.1248	4.1158	----------	4.1259	4.0850	4.1163	4.0895	4.0907	4.0572	4.0656			
4.250–4	UN	2A	4.0842	3.9759	4.0727	4.0727	4.0186	4.2466	4.2228	----------	4.2500	4.0876	4.2108	4.1025	4.1025	3.9790	4.0170	2B	UN	4.250–4
			4.0836	3.9744	4.0733	4.0721	4.0201	4.2464	4.2230	----------	4.2515	4.0882	4.2093	4.1019	4.1031	3.9792	4.0168			
		3A	4.0876	3.9793	4.0790	4.0790	4.0249	4.2500	4.2262	----------	4.2500	4.0876	4.2071	4.0988	4.0988	3.9790	4.0094	3B		
			4.0870	3.9778	4.0796	4.0784	4.0264	4.2498	4.2264	----------	4.2515	4.0882	4.2056	4.0982	4.0994	3.9792	4.0092			
4.250–6	UN	2A	4.1387	4.0665	4.1286	4.1286	4.0925	4.2470	4.2288	----------	4.2500	4.1417	4.2270	4.1548	4.1548	4.0700	4.1000	2B	UN	4.250–6
			4.1381	4.0652	4.1292	4.1280	4.0938	4.2468	4.2290	----------	4.2513	4.1423	4.2257	4.1542	4.1554	4.0702	4.0998			
		3A	4.1417	4.0695	4.1342	4.1342	4.0981	4.2500	4.2318	----------	4.2500	4.1417	4.2237	4.1515	4.1515	4.0700	4.0896	3B		
			4.1411	4.0682	4.1348	4.1336	4.0994	4.2498	4.2320	----------	4.2513	4.1423	4.2224	4.1509	4.1521	4.0702	4.0894			
4.250–12	UN	2A	4.1939	4.1578	4.1874	4.1874	4.1694	4.2480	4.2366	----------	4.2500	4.1959	4.2405	4.2044	4.2044	4.1600	4.1780	2B	UN	4.250–12
			4.1933	4.1569	4.1880	4.1868	4.1703	4.2478	4.2368	----------	4.2509	4.1965	4.2396	4.2038	4.2050	4.1602	4.1778			
		3A	4.1959	4.1598	4.1910	4.1910	4.1730	4.2500	4.2386	----------	4.2500	4.1959	4.2384	4.2023	4.2023	4.1600	4.1698	3B		
			4.1953	4.1589	4.1916	4.1904	4.1739	4.2498	4.2388	----------	4.2509	4.1965	4.2375	4.2017	4.2029	4.1602	4.1696			
4.250–16	UN	2A	4.2076	4.1805	4.2017	4.2017	4.1882	4.2482	4.2388	----------	4.2500	4.2094	4.2441	4.2170	4.2170	4.1820	4.1960	2B	UN	4.250–16
			4.2070	4.1796	4.2023	4.2011	4.1891	4.2480	4.2390	----------	4.2509	4.2100	4.2432	4.2164	4.2176	4.1822	4.1958			
		3A	4.2094	4.1823	4.2050	4.2050	4.1915	4.2500	4.2406	----------	4.2500	4.2094	4.2422	4.2151	4.2151	4.1820	4.1908	3B		
			4.2088	4.1814	4.2056	4.2044	4.1924	4.2498	4.2408	----------	4.2509	4.2100	4.2413	4.2145	4.2157	4.1822	4.1906			
4.375–6	UN	2A	4.2637	4.1915	4.2536	4.2536	4.2175	4.3720	4.3538	----------	4.3750	4.2667	4.3521	4.2799	4.2799	4.1950	4.2250	2B	UN	4.375–6
			4.2631	4.1902	4.2542	4.2530	4.2188	4.3718	4.3540	----------	4.3763	4.2673	4.3508	4.2793	4.2805	4.1952	4.2248			
		3A	4.2667	4.1945	4.2591	4.2591	4.2230	4.3750	4.3568	----------	4.3750	4.2667	4.3488	4.2766	4.2766	4.1950	4.2146	3B		
			4.2661	4.1932	4.2597	4.2585	4.2243	4.3748	4.3570	----------	4.3763	4.2673	4.3475	4.2760	4.2772	4.1952	4.2144			

4.375-12	UN	2A	4.3189	4.2828	4.3124	4.3124	4.2944	4.3730	4.3616		4.3750	4.3209	4.3655	4.3294	4.3294	4.2850	4.3030	2B	UN	4.375-12
			4.3183	4.2819	4.3130	4.3118	4.2953	4.3728	4.3618		4.3759	4.3215	4.3646	4.3288	4.3300	4.2852	4.3028			
		3A	4.3209	4.2848	4.3160	4.3160	4.2980	4.3750	4.3636		4.3750	4.3209	4.3634	4.3273	4.3273	4.2850	4.2948	3B		
			4.3203	4.2839	4.3166	4.3154	4.2989	4.3748	4.3638		4.3759	4.3215	4.3625	4.3267	4.3279	4.2852	4.2946			
4.375-16	UN	2A	4.3326	4.3055	4.3267	4.3267	4.3132	4.3732	4.3638		4.3750	4.3344	4.3691	4.3420	4.3420	4.3070	4.3210	2B	UN	4.375-16
			4.3320	4.3046	4.3273	4.3261	4.3141	4.3730	4.3640		4.3759	4.3350	4.3682	4.3414	4.3426	4.3072	4.3208			
		3A	4.3344	4.3073	4.3300	4.3300	4.3165	4.3750	4.3656		4.3750	4.3344	4.3672	4.3401	4.3401	3.3070	4.3158	3B		
			4.3338	4.3064	4.3306	4.3294	4.3174	4.3748	4.3658		4.3759	4.3350	4.3663	4.3395	4.3407	4.3072	4.3156			
4.500-4	UN	2A	4.3341	4.2258	4.3225	4.3225	4.2684	4.4965	4.4727		4.5000	4.3376	4.4610	4.3527	4.3527	4.2290	4.2670	2B	UN	4.500-4
			4.3335	4.2243	4.3231	4.3219	4.2699	4.4963	4.4729		4.5015	4.3382	4.4595	4.3521	4.3533	4.2292	4.2668			
		3A	4.3376	4.2293	4.3289	4.3289	4.2748	4.5000	4.4762		4.5000	4.3376	4.4572	4.3489	4.3489	4.2290	4.2594	3B		
			4.3370	4.2278	4.3295	4.3283	4.2763	4.4998	4.4764		4.5015	4.3382	4.4557	4.3483	4.3495	4.2292	4.2592			
4.500-6	UN	2A	4.3886	4.3164	4.3784	4.3784	4.3423	4.4969	4.4787		4.5000	4.3917	4.4772	4.4050	4.4050	4.3200	4.3500	2B	UN	4.500-6
			4.3880	4.3151	4.3790	4.3778	4.3436	4.4967	4.4789		4.5013	4.3923	4.4759	4.4044	4.4056	4.3202	4.3498			
		3A	4.3917	4.3195	4.3840	4.3840	4.3479	4.5000	4.4818		4.5000	4.3917	4.4738	4.4016	4.4016	4.3200	4.3396	3B		
			4.3911	4.3182	4.3846	4.3834	4.3492	4.4998	4.4820		4.5013	4.3923	4.4725	4.4010	4.4022	4.3202	4.3394			
4.500-12	UN	2A	4.4439	4.4078	4.4374	4.4374	4.4194	4.4980	4.4866		4.5000	4.4459	4.4905	4.4544	4.4544	4.4100	4.4280	2B	UN	4.500-12
			4.4433	4.4069	4.4380	4.4368	4.4203	4.4978	4.4868		4.5009	4.4465	4.4896	4.4538	4.4550	4.4102	4.4278			
		3A	4.4459	4.4098	4.4410	4.4410	4.4230	4.5000	4.4886		4.5000	4.4459	4.4884	4.4523	4.4523	4.4100	4.4198	3B		
			4.4453	4.4089	4.4416	4.4404	4.4239	4.4998	4.4888		4.5009	4.4465	4.4875	4.4517	4.4529	4.4102	4.4196			
4.500-16	UN	2A	4.4576	4.4305	4.4517	4.4517	4.4382	4.4982	4.4888		4.5000	4.4594	4.4941	4.4670	4.4670	4.4320	4.4460	2B	UN	4.500-16
			4.4570	4.4296	4.4523	4.4511	4.4391	4.4980	4.4890		4.5009	4.4600	4.4932	4.4664	4.4676	4.4322	4.4458			
		3A	4.4594	4.4323	4.4550	4.4550	4.4415	4.5000	4.4906		4.5000	4.4594	4.4922	4.4651	4.4651	4.4320	4.4408	3B		
			4.4588	4.4314	4.4556	4.4544	4.4424	4.4998	4.4908		4.5009	4.4600	4.4913	4.4645	4.4657	4.4322	4.4406			
4.625-6	UN	2A	4.5136	4.4414	4.5033	4.5033	4.4672	4.62190	4.60370		4.6250	4.5167	4.6022	4.5300	4.5300	4.44500	4.47500	2B	UN	4.625-6
			4.5130	4.4401	4.5039	4.5027	4.4685	4.62165	4.60395		4.6263	4.5173	4.6009	4.5294	4.5306	4.44525	4.47475			
		3A	4.5167	4.4445	4.5090	4.5090	4.4729	4.62500	4.60680		4.6250	4.5167	4.5989	4.5267	4.5267	4.44500	4.46460	3B		
			4.5161	4.4432	4.5096	4.5084	4.4742	4.62475	4.60705		4.6263	4.5173	4.5976	4.5261	4.5273	4.44525	4.46435			
4.625-12	UN	2A	4.5689	4.5328	4.5622	4.5622	4.5442	4.62300	4.61160		4.6250	4.5709	4.6157	4.5796	4.5796	4.53500	4.55300	2B	UN	4.625-12
			4.5683	4.5319	4.5628	4.5616	4.5451	4.62275	4.61185		4.6259	4.5715	4.6148	4.5790	4.5802	4.53525	4.55275			
		3A	4.5709	4.5348	4.5659	4.5659	4.5479	4.62500	4.61360		4.6250	4.5709	4.6136	4.5775	4.5775	4.53500	4.54480	3B		
			4.5703	4.5339	4.5665	4.5653	4.5488	4.62475	4.61385		4.6259	4.5715	4.6127	4.5769	4.5781	4.53525	4.54455			
4.625-16	UN	2A	4.5826	4.5555	4.5765	4.5765	4.5630	4.62320	4.61380		4.6250	4.5844	4.6194	4.5923	4.5923	4.55700	4.57100	2B	UN	4.625-16
			4.5820	4.5546	4.5771	4.5759	4.5639	4.62295	4.61405		4.6259	4.5850	4.6185	4.5917	4.5929	4.55725	4.57075			
		3A	4.5844	4.5573	4.5799	4.5799	4.5664	4.62500	4.61560		4.6250	4.5844	4.6174	4.5903	4.5903	4.55700	4.56580	3B		
			4.5838	4.5564	4.5805	4.5793	4.5673	4.62475	4.61585		4.6259	4.5850	4.6165	4.5897	4.5909	4.55725	4.56555			
4.750-4	UN	2A	4.5841	4.4758	4.5724	4.5724	4.5183	4.74650	4.72270		4.7500	4.5876	4.7112	4.6029	4.6029	4.47900	4.51700	2B	UN	4.750-4
			4.5835	4.4743	4.5730	4.5718	4.5198	4.74625	4.72295		4.7515	4.5882	4.7097	4.6023	4.6035	4.47925	4.51675			
		3A	4.5876	4.4793	4.5788	4.5788	4.5247	4.75000	4.72620		4.7500	4.5876	4.7073	4.5990	4.5990	4.47900	4.50940	3B		
			4.5870	4.4778	4.5794	4.5782	4.5262	4.74975	4.72645		4.7515	4.5882	4.7058	4.5984	4.5996	4.47925	4.50915			
4.750-6	UN	2A	4.6386	4.5664	4.6283	4.6283	4.5922	4.74690	4.72870		4.7500	4.6417	4.7273	3.6551	4.6551	4.57000	4.60000	2B	UN	4.750-6
			4.6380	4.5651	4.6289	4.6277	4.5935	4.74665	4.72895		4.7513	4.6423	4.7260	4.6545	4.6557	4.57025	4.59975			
		3A	4.6417	4.5695	4.6340	4.6340	4.5979	4.75000	4.73180		4.7500	4.6417	4.7240	4.6518	4.6518	4.57000	4.58960	3B		
			4.6411	4.5682	4.6346	4.6334	4.5992	4.74975	4.73205		4.7513	4.6423	4.7227	4.6512	4.6524	4.57025	4.58935			
4.750-12	UN	2A	4.6939	4.6578	4.6872	4.6872	4.6692	4.74800	4.73660		4.7500	4.6959	4.7407	4.7046	4.7046	4.66000	4.67800	2B	UN	4.750-12
			4.6933	4.6569	4.6878	4.6866	4.6701	4.74775	4.73685		4.7509	4.6965	4.7398	4.7040	4.7052	4.66025	4.67775			
		3A	4.6959	4.6598	4.6909	4.6909	4.6729	4.75000	4.73860		4.7500	4.6959	4.7386	4.7025	4.7025	4.66000	4.66980	3B		
			4.6953	4.6589	4.6915	4.6903	4.6738	4.74975	4.73885		4.7509	4.6965	4.7377	4.7019	4.7031	4.66025	4.66955			
4.750-16	UN	2A	4.7076	4.6805	4.7015	4.7015	4.6880	4.74820	4.73880		4.7500	4.7094	4.7444	4.7173	4.7173	4.68200	4.69600	2B	UN	4.750-16
			4.7070	4.6796	4.7021	4.7009	4.6889	4.74795	4.73905		4.7509	4.7100	4.7435	4.7167	4.7179	4.68225	2.69575			
		3A	4.7094	4.6823	4.7049	4.7049	4.6914	4.75000	4.74060		4.7500	4.7094	4.7424	4.7153	4.7153	4.68200	4.69080	3B		
			4.7088	4.6814	4.7055	4.7043	4.6923	4.74975	4.74085		4.7509	4.7100	4.7415	4.7147	4.7159	4.68225	4.69055			
4.875-6	UN	2A	4.7636	4.6914	4.7532	4.7532	4.7171	4.87190	4.85370		4.8750	4.7667	4.8524	4.7802	4.7802	4.69500	4.72500	2B	UN	4.875-6
			4.7630	4.6901	4.7538	4.7526	4.7184	4.87165	4.85395		4.8763	4.7673	4.8511	4.7796	4.7808	4.69525	4.72475			
		3A	4.7667	4.6945	4.7589	4.7589	4.7228	4.87500	4.85680		4.8750	4.7667	4.8490	4.7768	4.7768	4.69500	4.71460	3B		
			4.7661	4.6932	4.7595	4.7583	4.7241	4.87475	4.85705		4.8763	4.7673	4.8477	4.7762	4.7774	4.69525	4.71435			
4.875-12	UN	2A	4.8189	4.7828	4.8122	4.8122	4.7942	4.87300	4.86160		4.8750	4.8209	4.8657	4.8296	4.8296	4.78500	4.80300	2B	UN	4.875-12
			4.8183	4.7819	4.8128	4.8116	4.7951	4.87275	4.86185		4.8759	4.8215	4.8648	4.8290	4.8302	4.78525	4.80275			
		3A	4.8209	4.7848	4.8159	4.8159	4.7979	4.87500	4.86360		4.8750	4.8209	4.8636	4.8275	4.8275	4.78500	4.79480	3B		
			4.8203	4.7839	4.8165	4.8153	4.7988	4.87475	4.86385		4.8759	4.8215	4.8627	4.8269	4.8281	4.78525	4.79455			
4.875-16	UN	2A	4.8326	4.8055	4.8265	4.8265	4.8130	4.87320	4.86380		4.8750	4.8344	4.8694	4.8423	4.8423	4.80700	4.82100	2B	UN	4.875-16
			4.8320	4.8046	4.8271	4.8259	4.8139	4.87295	4.86405		4.8759	4.8350	4.8685	4.8417	4.8429	4.80725	4.82075			
		3A	4.8344	4.8073	4.8299	4.8299	4.8164	4.87500	4.86560		4.8750	4.8344	4.8674	4.8403	4.8403	4.80700	4.81580	3B		
			4.8338	4.8064	4.8305	4.8293	4.8173	4.87475	4.86585		4.8759	4.8350	4.8665	4.8397	4.8409	4.80725	4.81555			

TABLE 6.19. *Gages for standard thread series, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	Gages for external threads								Gages for internal threads							Class	Series designation	Nominal size and threads per inch
			X thread ring gages					Z plain ring gages for major diameter			X thread plug gages					Z plain plug gages for minor diameter				
			GO		LO			GO	NOT GO		GO		HI			GO	NOT GO			
			Pitch diameter	Minor diameter	Pitch diameter		Minor diameter		Semi-finished	Unfinished hot-rolled material	Major diameter	Pitch diameter	Major diameter	Pitch diameter						
					Plus tolerance gage	Minus tolerance gage								Minus tolerance gage	Plus tolerance gage					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*			
5.000–4	UN	2A	4.8340	4.7257	4.8221	4.8221	4.7680	4.99640	4.97260	----------	5.0000	4.8376	4.9613	4.8530	4.8530	4.72900	4.76700	2B	UN	5.000–4
			4.8334	4.7242	4.8227	4.8215	4.7695	4.99615	4.97285	----------	5.0015	4.8382	4.9598	4.8524	4.8536	4.72925	4.76675			
		3A	4.8376	4.7293	4.8287	4.8287	4.7746	5.00000	4.97620	----------	5.0000	4.8376	4.9575	4.8492	4.8492	4.72900	4.75940	3B		
			4.8370	4.7278	4.8293	4.8281	4.7761	4.99975	4.97645	----------	5.0015	4.8382	4.9560	4.8486	4.8498	4.72925	4.75915			
5.000–6	UN	2A	4.8886	4.8164	4.8781	4.8781	4.8420	4.99690	4.97870	----------	5.0000	4.8917	4.9775	4.9053	4.9053	4.82000	4.85000	2B	UN	5.000–6
			4.8880	4.8151	4.8787	4.8775	4.8433	4.99665	4.97895	----------	5.0013	4.8923	4.9762	4.9047	4.9059	4.82025	4.84975			
		3A	4.8917	4.8195	4.8839	4.8839	4.8478	5.00000	4.98180	----------	5.0000	4.8917	4.9741	4.9019	4.9019	4.82000	4.83960	3B		
			4.8911	4.8182	4.8845	4.8833	4.8491	4.99975	4.98205	----------	5.0013	4.8923	4.9728	4.9013	4.9025	4.82025	4.83935			
5.000–12	UN	2A	4.9439	4.9078	4.9372	4.9372	4.9192	4.99800	4.98660	----------	5.0000	4.9459	4.9907	4.9546	4.9546	4.91000	4.92800	2B	UN	5.000–12
			4.9433	4.9069	4.9378	4.9366	4.9201	4.99775	4.98685	----------	5.0009	4.9465	4.9898	4.9540	4.9552	4.91025	4.92775			
		3A	4.9459	4.9098	4.9409	4.9409	4.9229	5.00000	4.98860	----------	5.0000	4.9459	4.9886	4.9525	4.9525	4.91000	4.91980	3B		
			4.9453	4.9089	4.9415	4.9403	4.9238	4.99975	4.98885	----------	5.0009	4.9465	4.9877	4.9519	4.9531	4.91025	4.91955			
5.000–16	UN	2A	4.9576	4.9305	4.9515	4.9515	4.9380	4.99820	4.98880	----------	5.0000	4.9594	4.9944	4.9673	4.9673	4.93200	4.94600	2B	UN	5.000–16
			4.9570	4.9296	4.9521	4.9509	4.9389	4.99795	4.98905	----------	5.0009	4.9600	4.9935	4.9667	4.9679	4.93225	4.94575			
		3A	4.9594	4.9323	4.9549	4.9549	4.9414	5.00000	4.99060	----------	5.0000	4.9594	4.9924	4.9653	4.9653	4.93200	4.94080	3B		
			4.9588	4.9314	4.9555	4.9543	4.9423	4.99975	4.99085	----------	5.0009	4.9600	4.9915	4.9647	4.9659	4.93225	4.94055			
5.125–12	UN	2A	5.0689	5.0328	5.0622	5.0622	5.0442	5.12300	5.11160	----------	5.1250	5.0709	5.1157	5.0796	5.0796	5.03500	5.05300	2B	UN	5.125–12
			5.0683	5.0319	5.0628	5.0616	5.0451	5.12275	5.11185	----------	5.1259	5.0715	5.1148	5.0790	5.0802	5.03525	5.05275			
		3A	5.0709	5.0348	5.0659	5.0659	5.0479	5.12500	5.11360	----------	5.1250	5.0709	5.1136	5.0775	5.0775	5.03500	5.04480	3B		
			5.0703	5.0339	5.0655	5.0653	5.0488	5.12475	5.11385	----------	5.1259	5.0715	5.1127	5.0769	5.0781	5.03525	5.04455			
5.125–16	UN	2A	5.0826	5.0555	5.0765	5.0765	5.0630	5.12320	5.11380	----------	5.1250	5.0844	5.1194	5.0923	5.0923	5.05700	5.07100	2B	UN	5.125–16
			5.0820	5.0546	5.0771	5.0759	5.0639	5.12295	5.11405	----------	5.1259	5.0850	5.1185	5.0917	5.0929	5.05725	5.07075			
		3A	5.0844	5.0573	5.0799	5.0799	5.0664	5.12500	5.11560	----------	5.1250	5.0844	5.1174	5.0903	5.0903	5.05700	5.06580	3B		
			5.0838	5.0564	5.0805	5.0793	5.0673	5.12475	5.11585	----------	5.1259	5.0850	5.1165	5.0897	5.0909	5.05725	5.06555			
5.250–4	UN	2A	5.0840	4.9757	5.0720	5.0720	5.0179	5.24640	5.22260	----------	5.2500	5.0876	5.2115	5.1032	5.1032	4.97900	5.01700	2B	UN	5.250–4
			5.0834	4.9742	5.0726	5.0714	5.0194	5.24615	5.22285	----------	5.2515	5.0882	5.2100	5.1026	5.1038	4.97925	5.01675			
		3A	5.0876	4.9793	5.0786	5.0786	5.0245	5.25000	5.22620	----------	5.2500	5.0876	5.2076	5.0993	5.0993	4.97900	5.00940	3B		
			5.0870	4.9778	5.0792	5.0780	5.0260	5.24975	5.22645	----------	5.2515	5.0882	5.2061	5.0987	5.0999	4.97925	5.00915			
5.250–12	UN	2A	5.1939	5.1578	5.1872	5.1872	5.1692	5.24800	5.23660	----------	5.2500	5.1959	5.2407	5.2046	5.2046	5.16000	5.17800	2B	UN	5.250–12
			5.1933	5.1569	5.1878	5.1866	5.1701	5.24775	5.23685	----------	5.2509	5.1965	5.2398	5.2040	5.2052	5.16025	5.17775			
		3A	5.1959	5.1598	5.1909	5.1909	5.1729	5.25000	5.23860	----------	5.2500	5.1959	5.2386	5.2025	5.2025	5.16000	5.16980	3B		
			5.1953	5.1589	5.1915	5.1903	5.1738	5.24975	5.23885	----------	5.2509	5.1965	5.2377	5.2019	5.2031	5.16025	5.16955			
5.250–16	UN	2A	5.2076	5.1805	5.2015	5.2015	5.1880	5.24820	5.23880	----------	5.2500	5.2094	5.2444	5.2173	5.2173	5.18200	5.19600	2B	UN	5.250–16
			5.2070	5.1796	5.2021	5.2009	5.1889	5.24795	5.23905	----------	5.2509	5.2100	5.2435	5.2167	5.2179	5.18225	5.19575			
		3A	5.2094	5.1823	5.2049	5.2049	5.1914	5.25000	5.24060	----------	5.2500	5.2094	5.2424	5.2153	5.2153	5.18200	5.19080	3B		
			5.2088	5.1814	5.2055	5.2043	5.1923	5.24975	5.24085	----------	5.2509	5.2100	5.2415	5.2147	5.2159	5.18225	5.19055			
5.375–12	UN	2A	5.3189	5.2828	5.3122	5.3122	5.2942	5.37300	5.36160	----------	5.3750	5.3209	5.3657	5.3296	5.3296	5.28500	5.30300	2B	UN	5.375–12
			5.3183	5.2819	5.3128	5.3116	5.2951	5.37275	5.36185	----------	5.3759	5.3215	5.3648	5.3290	5.3302	5.28525	5.30275			
		3A	5.3209	5.2848	5.3159	5.3159	5.2979	5.37500	5.36360	----------	5.3750	5.3209	5.3636	5.3275	5.3275	5.28500	5.29480	3B		
			5.3203	5.2839	5.3165	5.3153	5.2988	5.37475	5.36385	----------	5.3759	5.3215	5.3627	5.3269	5.3281	5.28525	5.29455			

5.375-16	UN	2A	5.3326	5.3055	5.3265	5.3265	5.3130	5.37320	5.36380	---------	5.3750	5.3344	5.3694	5.3423	5.3423	5.30700	5.32100	2B	UN	5.375-16
			5.3320	5.3046	5.3271	5.3259	5.3139	5.37295	5.36405	---------	5.3759	5.3350	5.3685	5.3417	5.3429	5.30725	5.32075			
		3A	5.3344	5.3073	5.3299	5.3299	5.3164	5.37500	5.36560	---------	5.3750	5.3344	5.3674	5.3403	5.3403	5.30700	5.31580	3B		
			5.3338	5.3064	5.3305	5.3293	5.3173	5.37475	5.36585	---------	5.3759	5.3350	5.3665	5.3397	5.3409	5.30725	5.31555			
5.500-4	UN	2A	5.3340	5.2257	5.3219	5.3219	5.2678	5.49640	5.47260	---------	5.5000	5.3376	5.4617	5.3534	5.3534	5.22900	5.26700	2B	UN	5.500-4
			5.3334	5.2242	5.3225	5.3213	5.2693	5.49615	5.47285	---------	5.5015	5.3382	5.4602	5.3528	4.3540	5.22925	5.26675			
		3A	5.3376	5.2293	5.3285	5.3285	5.2744	5.50000	5.47620	---------	5.5000	5.3376	5.4577	5.3494	5.3494	5.22900	5.25940	3B		
			5.3370	5.2278	5.3291	5.3279	5.2759	5.49975	5.47645	---------	5.5015	5.3382	5.4562	5.3488	5.3500	5.22925	5.25915			
5.500-12	UN	2A	5.4439	5.4078	5.4372	5.4372	5.4192	5.49800	5.48660	---------	5.5000	5.4459	5.4907	5.4546	5.4546	5.41000	5.42800	2B	UN	5.500-12
			5.4433	5.4069	5.4378	5.4366	5.4201	5.49775	5.48685	---------	5.5009	5.4465	5.4898	5.4540	5.4552	5.41025	5.42775			
		3A	5.4459	5.4098	5.4409	5.4409	5.4229	5.50000	5.48860	---------	5.5000	5.4459	5.4886	5.4525	5.4525	5.41000	5.41980	3B		
			5.4453	5.4089	5.4415	5.4403	5.4238	5.49975	5.48885	---------	5.5009	5.4465	5.4877	5.4519	5.4531	5.41025	5.41955			
5.500-16	UN	2A	5.4576	5.4305	5.4515	5.4515	5.4380	5.49820	5.48880	---------	5.5000	5.4594	5.4944	5.4673	5.4673	5.43200	5.44600	2B	UN	5.500-16
			5.4570	5.4296	5.4521	5.4509	5.4389	5.49795	5.48905	---------	5.5009	5.4600	5.4935	5.4667	5.4679	5.43225	5.44575			
		3A	5.4594	5.4323	5.4549	5.4549	5.4414	5.50000	4.49060	---------	5.5000	5.4594	5.4924	5.4653	5.4653	5.43200	5.44080	3B		
			5.4588	5.4314	5.4555	5.4543	5.4423	5.49975	5.49085	---------	5.5009	5.4600	5.4915	5.4647	5.4659	5.43225	5.44055			
5.625-12	UN	2A	5.5688	5.5327	5.5619	5.5619	5.5439	5.62290	5.61150	---------	5.6250	5.5709	5.6160	5.5799	5.5799	5.53500	5.55300	2B	UN	5.625-12
			5.5682	5.5318	5.5625	5.5613	5.5448	5.62265	5.61175	---------	5.6259	5.5715	5.6151	5.5793	5.5805	5.53525	5.55275			
		3A	5.5709	5.5348	5.5657	5.5657	5.5477	5.62500	5.61360	---------	5.6250	5.5709	5.6137	5.5776	5.5776	5.53500	5.54480	3B		
			5.5703	5.5339	5.5663	5.5651	5.5486	5.62475	5.61385	---------	5.6259	5.5715	5.6128	5.5770	5.5782	5.53525	5.54455			
5.625-16	UN	2A	5.5825	5.5554	5.5763	5.5763	5.5628	5.62310	5.61370	---------	5.6250	5.5844	5.6196	5.5925	5.5925	5.55700	5.57100	2B	UN	5.625-16
			5.5819	5.5545	5.5769	5.5757	5.5637	5.62285	5.61395	---------	5.6259	5.5850	5.6187	5.5919	5.5931	5.55725	5.57075			
		3A	5.5844	5.5573	5.5797	5.5797	5.5662	5.62500	5.61560	---------	5.6250	5.5844	5.6176	5.5905	5.5905	5.55700	5.56580	3B		
			5.5838	5.5564	5.5803	5.5791	5.5671	5.62475	5.61585	---------	5.6259	5.5850	5.6167	5.5899	5.5911	5.55725	5.56555			
5.750-4	UN	2A	5.5839	5.4756	5.5717	5.5717	5.5176	5.74630	5.72250	---------	5.7500	5.5876	5.7118	5.6035	5.6035	5.47900	5.51700	2B	UN	5.750-4
			5.5833	5.4741	5.5723	5.5711	5.5191	5.74605	5.72275	---------	5.7515	5.5882	5.7103	5.6029	5.6041	5.47925	5.51675			
		3A	5.5876	5.4793	5.5784	5.5784	5.5243	5.75000	5.72620	---------	5.7500	5.5876	5.7078	5.5995	5.5995	5.47900	5.50940	3B		
			5.5870	5.4778	5.5790	5.5778	5.5258	5.74975	5.72645	---------	5.7515	5.5882	5.7063	5.5989	5.6001	5.47925	5.50915			
5.750-12	UN	2A	5.6938	5.6577	5.6869	5.6869	5.6689	5.74790	5.73650	---------	5.7500	5.6959	5.7410	5.7049	5.7049	5.66000	5.67800	2B	UN	5.750-12
			5.6932	5.6568	5.6875	5.6863	5.6698	5.74765	5.73675	---------	5.7509	5.6965	5.7401	5.7043	5.7055	5.66025	5.67775			
		3A	5.6959	5.6598	5.6907	5.6907	5.6727	5.75000	5.73860	---------	5.7500	5.6959	5.7387	5.7026	5.7026	5.66000	5.66980	3B		
			5.6953	5.6589	5.6913	5.6901	5.6736	5.74975	5.73885	---------	5.7509	5.6965	5.7378	5.7020	5.7032	5.66025	5.66955			
5.750-16	UN	2A	5.7075	5.6804	5.7013	5.7013	5.6878	5.74810	5.73870	---------	5.7500	5.7094	5.7446	5.7175	5.7175	5.68200	5.69600	2B	UN	5.750-16
			5.7069	5.6795	5.7019	5.7007	5.6887	5.74785	5.73895	---------	5.7509	5.7100	5.7437	5.7169	5.7181	5.68225	5.69575			
		3A	5.7094	5.6823	5.7047	5.7047	5.6912	5.75000	5.74060	---------	5.7500	5.7094	5.7426	5.7155	5.7155	5.68200	5.69080	3B		
			5.7088	5.6814	5.7053	5.7041	5.6921	5.74975	5.74085	---------	5.7509	5.7100	5.7417	5.7149	5.7161	5.68225	5.69055			
5.875-12	UN	2A	5.8188	5.7827	5.8119	5.8119	5.7939	5.87290	5.86150	---------	5.8750	5.8209	5.8660	5.8299	5.8299	5.78500	5.80300	2B	UN	5.875-12
			5.8182	5.7818	5.8125	5.8113	5.7948	5.87265	5.86175	---------	5.8759	5.8215	5.8651	5.8293	5.8305	5.78525	5.80275			
		3A	5.8209	5.7848	5.8157	5.8157	5.7977	5.87500	5.86360	---------	5.8750	5.8209	5.8637	5.8276	5.8276	5.78500	5.79480	3B		
			5.8203	5.7839	5.8163	5.8151	5.7986	5.87475	5.86385	---------	5.8759	5.8215	5.8628	5.8270	5.8282	5.78525	5.79455			
5.875-16	UN	2A	5.8325	5.8054	5.8263	5.8263	5.8128	5.87310	5.86370	---------	5.8750	5.8344	5.8696	5.8425	5.8425	5.80700	5.82100	2B	UN	5.875-16
			5.8319	5.8045	5.8269	5.8257	5.8137	5.87285	5.86395	---------	5.8759	5.8350	5.8687	5.8419	5.8431	5.80725	5.82075			
		3A	5.8344	5.8073	5.8297	5.8297	5.8162	5.87500	5.86560	---------	5.8750	5.8344	5.8676	5.8405	5.8405	5.80700	5.81580	3B		
			5.8338	5.8064	5.8303	5.8291	5.8171	5.87475	5.86585	---------	5.8759	5.8350	5.8667	5.8399	5.8411	5.80725	5.81555			
6.000-4	UN	2A	5.8339	5.7256	5.8215	5.8215	5.7674	5.99630	5.97250	---------	6.0000	5.8376	5.9620	5.8537	5.8537	5.72900	5.76700	2B	UN	6.000-4
			5.8333	5.7241	5.8221	5.8209	5.7689	5.99605	5.97275	---------	6.0015	5.8382	5.9605	5.8531	5.8543	5.72925	5.76675			
		3A	5.8376	5.7293	5.8283	5.8283	5.7742	6.00000	5.97620	---------	6.0000	5.8376	5.9579	5.8496	5.8496	5.72900	5.75940	3B		
			5.8370	5.7278	5.8289	5.8277	5.7757	5.99975	5.97645	---------	6.0015	5.8382	5.9564	5.8490	5.8502	5.72925	5.75915			
6.000-12	UN	2A	5.9438	5.9077	5.9369	5.9369	5.9189	5.99790	5.98650	---------	6.0000	5.9459	5.9910	5.9549	5.9549	5.91000	5.92800	2B	UN	6.000-12
			5.9432	5.9068	5.9375	5.9363	5.9198	5.99765	5.98675	---------	6.0009	5.9465	5.9901	5.9543	5.9555	5.91025	5.92775			
		3A	5.9459	5.9098	5.9407	5.9407	5.9227	6.00000	5.98860	---------	6.0000	5.9459	5.9887	5.9526	5.9526	5.91000	5.91980	3B		
			5.9453	5.9089	5.9413	5.9401	5.9236	5.99975	5.98885	---------	6.0009	5.9465	5.9878	5.9520	5.9532	5.91025	5.91955			
6.000-16	UN	2A	5.9575	5.9304	5.9513	5.9513	5.9378	5.99810	5.98870	---------	6.0000	5.9594	5.9946	5.9675	5.9675	5.93200	5.94600	2B	UN	6.000-16
			5.9569	5.9295	5.9519	5.9507	5.9387	5.99785	5.98895	---------	6.0009	5.9600	5.9937	5.9669	5.9681	5.93225	5.94575			
		3A	5.9594	5.9323	5.9547	5.9547	5.9412	6.00000	5.99060	---------	6.0000	5.9594	5.9926	5.9655	5.9655	5.93200	5.94080	3B		
			5.9588	5.9314	5.9553	5.9541	5.9421	5.99975	5.99085	---------	6.0009	5.9600	5.9917	5.9649	5.9661	5.93225	5.94055			

TABLE 6.20. *Setting plug gages, Unified screw threads*

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs			
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter			
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]		Plug for LO thread gage [a,c]	
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W tolerance	X tolerance	W tolerance	X tolerance
1	2	3	4	5	6	7	8	9	10	11A	11B	12A	12B
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
.060-80	UNF	2A	0.0561	0.0595	0.0514	0.0550	0.0584	0.0496	0.0496	0.0595	0.0595	0.0584	0.0584
		3A	.0558	.0598	.0513	.0547	.0587	.0497	.0495	.0598	.0598	.0587	.0587
			.0566	.0600	.0519	.0560	0594	.0506	.0506	.0600	.0600	.0594	.0594
			.0563	.0603	.0518	.0557	.0597	.0507	.0505	.0603	.0603	.0597	.0597
.073-64	UNC	2A	.0684	.0724	.0623	.0671	.0717	.0603	.0603	.0724	.0724	.0717	.0717
		3A	.0681	.0727	.0622	.0668	.0720	.0604	.0602	.0727	.0728	.0720	.0721
			.0690	.0730	.0629	.0682	.0728	.0614	.0614	.0730	.0730	.0728	.0728
			.0687	.0733	.0628	.0679	.0731	.0615	.0613	.0733	.0734	.0731	.0732
.073-72	UNF	2A	.0687	.0724	.0634	.0675	.0715	.0615	.0615	.0724	.0724	.0715	.0715
		3A	.0684	.0727	.0633	.0672	.0718	.0616	.0614	.0727	.0727	.0718	.0718
			.0693	.0730	.0640	.0686	.0726	.0626	.0626	.0730	.0730	.0726	.0726
			.0690	.0733	.0639	.0683	.0729	.0627	.0625	.0733	.0733	.0729	.0729
.086-56	UNC	2A	.0810	.0854	.0738	.0794	.0850	.0717	.0717	.0854	.0854	.0850	.0850
		3A	.0807	.0857	.0737	.0791	.0853	.0718	.0716	.0857	.0858	.0853	.0854
			.0816	.0860	.0744	.0805	.0860	.0728	.0728	.0860	.0860	.0860	.0860
			.0813	.0863	.0743	.0802	.0863	.0729	.0727	.0863	.0864	.0863	.0864
.086-64	UNF	2A	.0814	.0854	.0753	.0801	.0847	.0733	.0733	.0854	.0854	.0847	.0847
		3A	.0811	.0857	.0752	.0798	.0850	.0734	.0732	.0857	.0858	.0850	.0851
			.0820	.0860	.0759	.0812	.0858	.0744	.0744	.0860	.0860	.0858	.0858
			.0817	.0863	.0758	.0809	.0861	.0745	.0743	.0863	.0864	.0861	.0862
.099-48	UNC	2A	.0934	.0983	.0848	.0915	.0981	.0825	.0825	.0983	.0983	.0981	.0981
		3A	.0931	.0986	.0847	.0912	.0984	.0826	.0824	.0986	.0987	.0984	.0985
			.0941	.0990	.0855	.0928	.0990	.0838	.0838	.0990	.0990	.0990	.0990
			.0938	.0993	.0854	.0925	.0993	.0839	.0837	.0993	.0994	.0993	.0994
.099-56	UNF	2A	.0939	.0983	.0867	.0922	.0978	.0845	.0845	.0983	.0983	.0978	.0978
		3A	.0936	.0986	.0866	.0919	.0981	.0846	.0844	.0986	.0987	.0981	.0982
			.0946	.0990	.0874	.0935	.0990	.0858	.0858	.0990	.0990	.0990	.0990
			.0943	.0993	.0873	.0932	.0993	.0859	.0857	.0993	.0994	.0993	.0994
.112-40	UNC	2A	.1056	.1112	.0950	.1033	.1112	.0925	.0925	.1112	.1112	.1112	.1112
		3A	.1053	.1115	.0949	.1030	.1115	.0926	.0924	.1115	.1116	.1115	.1116
			.1064	.1120	.0958	.1047	.1120	.0939	.0939	.1120	.1120	.1120	.1120
			.1061	.1123	.0957	.1044	.1123	.0940	.0938	.1123	.1124	.1123	.1124
.112-48	UNF	2A	.1064	.1113	.0978	.1044	.1110	.0954	.0954	.1113	.1113	.1110	.1110
		3A	.1061	.1116	.0977	.1041	.1113	.0955	.0953	.1116	.1117	.1113	.1114
			.1071	.1120	.0985	.1057	.1120	.0967	.0967	.1120	.1120	.1120	.1120
			.1068	.1123	.0984	.1054	.1123	.0968	.0966	.1123	.1124	.1123	.1124
.125-40	UNC	2A	.1186	.1242	.1080	.1162	.1242	.1054	.1054	.1242	.1242	.1242	.1242
		3A	.1183	.1245	.1079	.1159	.1245	.1055	.1053	.1245	.1246	.1245	.1246
			.1194	.1250	.1088	.1177	.1250	.1069	.1069	.1250	.1250	.1250	.1250
			.1191	.1253	.1087	.1174	.1253	.1070	.1068	.1253	.1254	.1253	.1254
.125-44	UNF	2A	.1191	.1243	.1095	.1168	.1240	.1070	.1070	.1243	.1243	.1240	.1240
		3A	.1188	.1246	.1094	.1165	.1243	.1071	.1069	.1246	.1247	.1243	.1244
			.1198	.1250	.1102	.1181	.1250	.1083	.1083	.1250	.1250	.1250	.1250
			.1195	.1253	.1101	.1178	.1253	.1084	.1082	.1253	.1254	.1253	.1254
.138-32	UNC	2A	.1307	.1372	.1169	.1276	.1372	.1141	.1141	.1372	.1372	.1372	.1372
		3A	.1304	.1375	.1168	.1273	.1375	.1142	.1140	.1375	.1377	.1375	.1377
			.1315	.1380	.1177	.1291	.1380	.1156	.1156	.1380	.1380	.1380	.1380
			.1312	.1383	.1176	.1288	.1383	.1157	.1155	.1383	.1385	.1383	.1385
.138-40	UNF	2A	.1316	.1372	.1210	.1292	.1372	.1184	.1184	.1372	.1372	.1372	.1372
		3A	.1313	.1375	.1209	.1289	.1375	.1185	.1183	.1375	.1376	.1375	.1376
			.1324	.1380	.1218	.1306	.1380	.1198	.1198	.1380	.1380	.1380	.1380
			.1321	.1383	.1217	.1303	.1383	.1199	.1197	.1383	.1384	.1383	.1384
.164-32	UNC	2A	.1566	.1631	.1428	.1534	.1631	.1399	.1399	.1631	.1631	.1631	.1631
		3A	.1563	.1634	.1427	.1531	.1634	.1400	.1398	.1634	.1636	.1634	.1636
			.1575	.1640	.1437	.1550	.1640	.1415	.1415	.1640	.1640	.1640	.1640
			.1572	.1643	.1436	.1547	.1643	.1416	.1414	.1643	.1645	.1643	.1645
.164-36	UNF	2A	.1572	.1632	.1452	.1544	.1632	.1424	.1424	.1632	.1632	.1632	.1632
		3A	.1569	.1635	.1451	.1541	.1635	.1425	.1423	.1635	.1636	.1635	.1636
			.1580	.1640	.1460	.1559	.1640	.1439	.1439	.1640	.1640	.1640	.1640
			.1577	.1643	.1459	.1556	.1643	.1440	.1438	.1643	.1644	.1643	.1644
.190-24	UNC	2A	.1811	.1890	.1619	.1766	.1890	.1586	.1586	.1890	.1890	.1890	.1890
		3A	.1806	.1895	.1618	.1761	.1895	.1587	.1585	.1895	.1895	.1895	.1895
			.1821	.1900	.1629	.1784	.1900	.1604	.1604	.1900	.1900	.1900	.1900
			.1816	.1905	.1628	.1779	.1905	.1605	.1603	.1905	.1905	.1905	.1905

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs			
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter			
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]		Plug for LO thread gage [a,c]	
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W tolerance	X tolerance	W tolerance	X tolerance
1	2	3	4	5	6	7	8	9	10	11A	11B	12A	12B
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
.190-32	UNF	2A	0.1826	0.1891	0.1688	0.1793	0.1891	0.1658	0.1658	0.1891	0.1891	0.1891	0.1891
		3A	.1823	.1894	.1687	.1790	.1894	.1659	.1657	.1894	.1896	.1894	.1896
			.1835	.1900	.1697	.1809	.1900	.1674	.1674	.1900	.1900	.1900	.1900
			.1832	.1903	.1696	.1806	.1903	.1675	.1673	.1903	.1905	.1903	.1905
.216-24	UNC	2A	.2071	.2150	.1879	.2025	.2150	.1845	.1845	.2150	.2150	.2150	.2150
		3A	.2066	.2155	.1878	.2020	.2155	.1846	.1844	.2155	.2155	.2155	.2155
			.2081	.2160	.1889	.2043	.2160	.1863	.1863	.2160	.2160	.2160	.2160
			.2076	.2165	.1888	.2038	.2165	.1864	.1862	.2165	.2165	.2165	.2165
.216-28	UNF	2A	.2079	.2150	.1918	.2041	.2150	.1886	.1886	.2150	.2150	.2150	.2150
		3A	.2074	.2155	.1917	.2036	.2155	.1887	.1885	.2155	.2155	.2155	.2155
			.2089	.2160	.1928	.2059	.2160	.1904	.1904	.2160	.2160	.2160	.2160
			.2084	.2165	.1927	.2054	.2165	.1905	.1903	.2165	.2165	.2165	.2165
.216-32	UNEF	2A	.2086	.2151	.1948	.2052	.2151	.1917	.1917	.2151	.2151	.2151	.2151
		3A	.2083	.2154	.1947	.2049	.2154	.1918	.1916	.2154	.2156	.2154	.2156
			.2095	.2160	.1957	.2068	.2160	.1933	.1933	.2160	.2160	.2160	.2160
			.2092	.2163	.1956	.2065	.2163	.1934	.1932	.2163	.2165	.2163	.2165
.250-20	UNC	1A	.2399	.2489	.2164	.2325	.2483	.2108	.2108	.2489	.2489	.2483	.2483
		2A	.2394	.2494	.2163	.2320	.2488	.2109	.2107	.2494	.2494	.2488	.2488
		3A	.2399	.2489	.2164	.2344	.2489	.2127	.2127	.2489	.2489	.2489	.2489
			.2394	.2494	.2163	.2339	.2494	.2128	.2126	.2494	.2494	.2494	.2494
			.2410	.2500	.2175	.2364	.2500	.2147	.2147	.2500	.2500	.2500	.2500
			.2405	.2505	.2174	.2359	.2505	.2148	.2146	.2505	.2505	.2505	.2505
.250-28	UNF	1A	.2419	.2490	.2258	.2363	.2476	.2208	.2208	.2490	.2490	.2476	.2476
		2A	.2414	.2495	.2257	.2358	.2481	.2209	.2207	.2495	.2495	.2481	.2481
		3A	.2419	.2490	.2258	.2380	.2490	.2225	.2225	.2490	.2490	.2490	.2490
			.2414	.2495	.2257	.2375	.2495	.2226	.2224	.2495	.2495	.2495	.2495
			.2429	.2500	.2268	.2398	.2500	.2243	.2243	.2500	.2500	.2500	.2500
			.2424	.2505	.2267	.2393	.2505	.2244	.2242	.2505	.2505	.2505	.2505
.250-32	UNEF	2A	.2425	.2490	.2287	.2390	.2489	.2255	.2255	.2490	.2490	.2489	.2489
		3A	.2422	.2493	.2286	.2387	.2492	.2256	.2254	.2493	.2495	.2492	.2494
			.2435	.2500	.2297	.2408	.2500	.2273	.2273	.2500	.2500	.2500	.2500
			.2432	.2503	.2296	.2405	.2503	.2274	.2272	.2503	.2505	.2503	.2505
.3125-18	UNC	1A	.3016	.3113	.2752	.2932	.3108	.2691	.2691	.3113	.3113	.3108	.3108
		2A	.3011	.3118	.2751	.2927	.3113	.2692	.2690	.3118	.3118	.3113	.3113
		3A	.3016	.3113	.2752	.2953	.3113	.2712	.2712	.3113	.3113	.3113	.3113
			.3011	.3118	.2751	.2948	.3118	.2713	.2711	.3118	.3118	.3118	.3118
			.3028	.3125	.2764	.2975	.3125	.2734	.2734	.3125	.3125	.3125	.3125
			.3023	.3130	.2763	.2970	.3130	.2735	.2733	.3130	.3130	.3130	.3130
.3125-20	UN	2A	.3023	.3113	.2788	.2965	.3113	.2748	.2748	.3113	.3113	.3113	.3113
		3A	.3018	.3118	.2787	.2960	.3118	.2749	.2747	.3118	.3118	.3118	.3118
			.3035	.3125	.2800	.2987	.3125	.2770	.2770	.3125	.3125	.3125	.3125
			.3030	.3130	.2799	.2982	.3130	.2771	.2769	.3130	.3130	.3130	.3130
.3125-24	UNF	1A	.3035	.3114	.2843	.2968	.3100	.2788	.2788	.3114	.3114	.3100	.3100
		2A	.3030	.3119	.2842	.2963	.3105	.2789	.2787	.3119	.3119	.3105	.3105
		3A	.3035	.3114	.2843	.2986	.3114	.2806	.2806	.3114	.3114	.3114	.3114
			.3030	.3119	.2842	.2981	.3119	.2807	.2805	.3119	.3119	.3119	.3119
			.3046	.3125	.2854	.3007	.3125	.2827	.2827	.3125	.3125	.3125	.3125
			.3041	.3130	.2853	.3002	.3130	.2828	.2826	.3130	.3130	.3130	.3130
.3125-28	UN	2A	.3044	.3115	.2883	.3004	.3115	.2849	.2849	.3115	.3115	.3115	.3115
		3A	.3039	.3120	.2882	.2999	.3120	.2850	.2848	.3120	.3120	.3120	.3120
			.3054	.3125	.2893	.3022	.3125	.2867	.2867	.3125	.3125	.3125	.3125
			.3049	.3130	.2892	.3017	.3130	.2868	.2866	.3130	.3130	.3130	.3130
.3125-32	UNEF	2A	.3050	.3115	.2912	.3015	.3114	.2880	.2880	.3115	.3115	.3114	.3114
		3A	.3047	.3118	.2911	.3012	.3117	.2881	.2879	.3118	.3120	.3117	.3119
			.3060	.3125	.2922	.3033	.3125	.2898	.2898	.3125	.3125	.3125	.3125
			.3057	.3128	.2921	.3030	.3128	.2899	.2897	.3128	.3130	.3128	.3130
.375-16	UNC	1A	.3632	.3737	.3331	.3537	.3735	.3266	.3266	.3737	.3737	.3735	.3735
		2A	.3626	.3743	.3330	.3531	.3741	.3267	.3265	.3743	.3743	.3741	.3741
		3A	.3632	.3737	.3331	.3558	.3737	.3287	.3287	.3737	.3737	.3737	.3737
			.3626	.3743	.3330	.3552	.3743	.3288	.3286	.3743	.3743	.3743	.3743
			.3645	.3750	.3344	.3582	.3750	.3311	.3311	.3750	.3750	.3750	.3750
			.3639	.3756	.3343	.3576	.3756	.3312	.3310	.3756	.3756	.3756	.3756
.375-20	UN	2A	.3648	.3738	.3413	.3589	.3738	.3372	.3372	.3738	.3738	.3738	.3738
		3A	.3643	.3743	.3412	.3584	.3743	.3373	.3371	.3743	.3743	.3743	.3743
			.3660	.3750	.3425	.3611	.3750	.3394	.3394	.3750	.3750	.3750	.3750
			.3655	.3755	.3424	.3606	.3755	.3395	.3393	.3755	.3755	.3755	.3755

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs			
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter			
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]		Plug for LO thread gage [a,c]	
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W tolerance	X tolerance	W tolerance	X tolerance
1	2	3	4	5	6	7	8	9	10	11A	11B	12A	12B
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
		1A	0.3660	0.3739	0.3468	0.3591	0.3724	0.3411	0.3411	0.3739	0.3739	0.3724	0.3724
.375–24	UNF	2A	.3655	.3744	.3467	.3586	.3729	.3412	.3410	.3744	.3744	.3729	.3729
			.3660	.3739	.3468	.3610	.3739	.3430	.3430	.3739	.3739	.3739	.3739
		3A	.3655	.3744	.3467	.3605	.3744	.3431	.3429	.3744	.3744	.3744	.3744
			.3671	.3750	.3479	.3630	.3750	.3450	.3450	.3750	.3750	.3750	.3750
			.3666	.3755	.3478	.3625	.3755	.3451	.3449	.3755	.3755	.3755	.3755
		2A	.3668	.3739	.3507	.3626	.3739	.3471	.3471	.3739	.3739	.3739	.3739
.375–28	UN		.3663	.3744	.3506	.3621	.3744	.3472	.3470	.3744	.3744	.3744	.3744
		3A	.3679	.3750	.3518	.3646	.3750	.3491	.3491	.3750	.3750	.3750	.3750
			.3674	.3755	.3517	.3641	.3755	.3492	.3490	.3755	.3755	.3755	.3755
		2A	.3675	.3740	.3537	.3638	.3737	.3503	.3503	.3740	.3740	.3737	.3737
.375–32	UNEF		.3672	.3743	.3536	.3635	.3740	.3504	.3502	.3743	.3745	.3740	.3742
		3A	.3685	.3750	.3547	.3657	.3750	.3522	.3522	.3750	.3750	.3750	.3750
			.3682	.3753	.3546	.3654	.3753	.3523	.3521	.3753	.3755	.3753	.3755
		1A	.4246	.4361	.38970	.4135	.4361	.38260	.38260	.4361	.4361	.4361	.4361
.4375–14	UNC	2A	.4240	.4367	.38955	.4129	.4367	.38275	.38245	.4367	.4367	.4367	.4367
			.4246	.4361	.38970	.4159	.4361	.38500	.38500	.4361	.4361	.4361	.4361
		3A	.4240	.4367	.38955	.4153	.4367	.38515	.38485	.4367	.4367	.4367	.4367
			.4260	.4375	.39110	.4185	.4375	.38760	.38760	.4375	.4375	.4375	.4375
			.4254	.4381	.39095	.4179	.4381	.38775	.38745	.4381	.4381	.4381	.4381
		2A	.4256	.4361	.3955	.4180	.4361	.3909	.3909	.4361	.4361	.4361	.4361
.4375–16	UN		.4250	.4367	.3954	.4174	.4367	.3910	.3908	.4367	.4367	.4367	.4367
		3A	.4270	.4375	.3969	.4206	.4375	.3935	.3935	.4375	.4375	.4375	.4375
			.4264	.4381	.3968	.4200	.4381	.3936	.3934	.4381	.4381	.4381	.4381
		1A	.4272	.4362	.4037	.4191	.4350	.3974	.3974	.4362	.4362	.4350	.4350
.4375–20	UNF	2A	.4267	.4367	.4036	.4186	.4355	.3975	.3973	.4367	.4367	.4355	.4355
			.4272	.4362	.4037	.4212	.4362	.3995	.3995	.4362	.4362	.4362	.4362
		3A	.4267	.4367	.4036	.4207	.4367	.3996	.3994	.4367	.4367	.4367	.4367
			.4285	.4375	.4050	.4236	.4375	.4019	.4019	.4375	.4375	.4375	.4375
			.4280	.4380	.4049	.4231	.4380	.4020	.4018	.4380	.4380	.4380	.4380
		2A	.4293	.4364	.4132	.4251	.4364	.4096	.4096	.4364	.4364	.4364	.4364
.4375–28	UNEF		.4288	.4369	.4131	.4246	.4369	.4097	.4095	.4369	.4369	.4369	.4369
		3A	.4304	.4375	.4143	.4271	.4375	.4116	.4116	.4375	.4375	.4375	.4375
			.4299	.4380	.4142	.4266	.4380	.4117	.4115	.4380	.4380	.4380	.4380
		2A	.4300	.4365	.4162	.4263	.4362	.4128	.4128	.4365	.4365	.4362	.4362
.4375–32	UN		.4297	.4368	.4161	.4260	.4365	.4129	.4127	.4368	.4370	.4365	.4367
		3A	.4310	.4375	.4172	.4282	.4375	.4147	.4147	.4375	.4375	.4375	.4375
			.4307	.4378	.4171	.4279	.4378	.4148	.4146	.4378	.4380	.4378	.4380
		1A	.4863	.4985	.44850	.4744	.4985	.44110	.44110	.4985	.4985	.4985	.4985
.500–13	UNC	2A	.4857	.4991	.44835	.4738	.4991	.44125	.44095	.4991	.4991	.4991	.4991
			.4863	.4985	.44850	.4768	.4985	.44350	.44350	.4985	.4985	.4985	.4985
		3A	.4857	.4991	.44835	.4762	.4991	.44365	.44335	.4991	.4991	.4991	.4991
			.4878	.5000	.45000	.4796	.5000	.44630	.44630	.5000	.5000	.5000	.5000
			.4872	.5006	.44985	.4790	.5006	.44645	.44615	.5006	.5006	.5006	.5006
		2A	.4881	.4986	.4580	.4804	.4986	.4533	.4533	.4986	.4986	.4986	.4986
.500–16	UN		.4875	.4992	.4579	.4798	.4992	.4534	.4532	.4992	.4992	.4992	.4992
		3A	.4895	.5000	.4594	.4830	.5000	.4559	.4559	.5000	.5000	.5000	.5000
			.4889	.5006	.4593	.4824	.5006	.4560	.4558	.5006	.5006	.5006	.5006
		1A	.4897	.4987	.4662	.4815	.4973	.4598	.4598	.4987	.4987	.4973	.4973
.500–20	UNF		.4892	.4992	.4661	.4810	.4978	.4599	.4597	.4992	.4992	.4978	.4978
		2A	.4897	.4987	.4662	.4836	.4987	.4619	.4619	.4987	.4987	.4987	.4987
			.4892	.4992	.4661	.4831	.4992	.4620	.4618	.4992	.4992	.4992	.4992
		3A	.4910	.5000	.4675	.4860	.5000	.4643	.4643	.5000	.5000	.5000	.5000
			.4905	.5005	.4674	.4855	.5005	.4644	.4642	.5005	.5005	.5005	.5005
		2A	.4918	.4989	.4757	.4875	.4988	.4720	.4720	.4989	.4989	.4988	.4988
.500–28	UNEF		.4913	.4994	.4756	.4870	.4993	.4721	.4719	.4994	.4994	.4993	.4993
		3A	.4929	.5000	.4768	.4895	.5000	.4740	.4740	.5000	.5000	.5000	.5000
			.4924	.5005	.4767	.4890	.5005	.4741	.4739	.5005	.5005	.5005	.5005
		2A	.4925	.4990	.4787	.4887	.4986	.4752	.4752	.4990	.4990	.4986	.4986
.500–32	UN		.4922	.4993	.4786	.4884	.4989	.4753	.4751	.4993	.4995	.4989	.4991
		3A	.4935	.5000	.4797	.4906	.5000	.4771	.4771	.5000	.5000	.5000	.5000
			.4932	.5003	.4796	.4903	.5003	.4772	.4770	.5003	.5005	.5003	.5005

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
		1A	0.5480	0.5609	0.5068	0.5351	0.5609	0.4990	0.4990	0.5609	0.5609
			.5474	.5615	.5066	.5345	.5615	.4992	.4988	.5615	.5615
.5625–12	UNC	2A	.5480	.5609	.5068	.5377	.5609	.5016	.5016	.5609	.5609
			.5474	.5615	.5066	.5371	.5615	.5018	.5014	.5615	.5615
		3A	.5496	.5625	.5084	.5406	.5625	.5045	.5045	.5625	.5625
			.5490	.5631	.5082	.5400	.5631	.5047	.5043	.5631	.5631
		2A	.5506	.5611	.5205	.5429	.5611	.5158	.5158	.5611	.5611
.5625–16	UN		.5500	.5617	.5203	.5423	.5617	.5160	.5156	.5617	.5617
		3A	.5520	.5625	.5219	.5455	.5625	.5184	.5184	.5625	.5625
			.5514	.5631	.5217	.5449	.5631	.5186	.5182	.5631	.5631
		1A	.5514	.5611	.52500	.5423	.5599	.51820	.51820	.5611	.5599
			.5509	.5616	.52485	.5418	.5604	.51835	.51805	.5616	.5604
.5625–18	UNF	2A	.5514	.5611	.52500	.5446	.5611	.52050	.52050	.5611	.5611
			.5509	.5616	.52485	.5441	.5616	.52065	.52035	.5616	.5616
		3A	.5528	.5625	.52640	.5471	.5625	.52300	.52300	.5625	.5625
			.5523	.5630	.52625	.5466	.5630	.52315	.52285	.5630	.5630
		2A	.5522	.5612	.52870	.5462	.5612	.52450	.52450	.5612	.5612
.5625–20	UN		.5517	.5617	.52855	.5457	.5617	.52465	.52435	.5617	.5617
		3A	.5535	.5625	.53000	.5485	.5625	.52680	.52680	.5625	.5625
			.5530	.5630	.52985	.5480	.5630	.52695	.52665	.5630	.5630
		2A	.5534	.5613	.53420	.5483	.5613	.53030	.53030	.5613	.5613
.5625–24	UNEF		.5529	.5618	.53405	.5478	.5618	.53045	.53015	.5618	.5618
		3A	.5546	.5625	.53540	.5505	.5625	.53250	.53250	.5625	.5625
			.5541	.5630	.53525	.5500	.5630	.53265	.53235	.5630	.5630
		2A	.5543	.5614	.53820	.5500	.5613	.53450	.53450	.5614	.5613
.5625–28	UN		.5538	.5619	.53805	.5495	.5618	.53465	.53435	.5619	.5618
		3A	.5554	.5625	.53930	.5520	.5625	.53650	.53650	.5625	.5625
			.5549	.5630	.53915	.5515	.5630	.53665	.53635	.5630	.5630
		2A	.5550	.5615	.54120	.5512	.5611	.53770	.53770	.5615	.5611
.5625–32	UN		.5545	.5620	.54105	.5507	.5616	.53785	.53755	.5620	.5616
		3A	.5560	.5625	.54220	.5531	.5625	.53960	.53960	.5625	.5625
			.5555	.5630	.54205	.5526	.5630	.53975	.53945	.5630	.5630
		1A	.6097	.6234	.5644	.5955	.6234	.5561	.5561	.6234	.6234
			.6091	.6240	.5642	.5949	.6240	.5563	.5559	.6240	.6240
.625–11	UNC	2A	.6097	.6234	.5644	.5983	.6234	.5589	.5589	.6234	.6234
			.6091	.6240	.5642	.5977	.6240	.5591	.5587	.6240	.6240
		3A	.6113	.6250	.5660	.6013	.6250	.5619	.5619	.6250	.6250
			.6107	.6256	.5658	.6007	.6256	.5621	.5617	.6256	.6256
		2A	.6105	.6234	.5693	.6000	.6234	.5639	.5639	.6234	.6234
.625–12	UN		.6099	.6240	.5691	.5994	.6240	.5641	.5637	.6240	.6240
		3A	.6121	.6250	.5709	.6029	.6250	.5668	.5668	.6250	.6250
			.6115	.6256	.5707	.6023	.6256	.5670	.5666	.6256	.6256
		2A	.6131	.6236	.5830	.6053	.6236	.5782	.5782	.6236	.6236
.625–16	UN		.6125	.6242	.5828	.6047	.6242	.5784	.5780	.6242	.6242
		3A	.6145	.6250	.5844	.6079	.6250	.5808	.5808	.6250	.6250
			.6139	.6256	.5842	.6073	.6256	.5810	.5806	.6256	.6256
		1A	.6139	.6236	.58750	.6046	.6222	.58050	.58050	.6236	.6222
			.6134	.6241	.58735	.6041	.6227	.58065	.58035	.6241	.6227
.625–18	UNF	2A	.6139	.6236	.58750	.6069	.6236	.58280	.58280	.6236	.6236
			.6134	.6241	.58735	.6064	.6241	.58295	.58265	.6241	.6241
		3A	.6153	.6250	.58890	.6095	.6250	.58540	.58540	.6250	.6250
			.6148	.6255	.58875	.6090	.6255	.58555	.58525	.6255	.6255
		2A	.6147	.6237	.59120	.6086	.6237	.58690	.58690	.6237	.6237
.625–20	UN		.6142	.6242	.59105	.6081	.6242	.58705	.58675	.6242	.6242
		3A	.6160	.6250	.59250	.6110	.6250	.58930	.58930	.6250	.6250
			.6155	.6255	.59235	.6105	.6255	.58945	.58915	.6255	.6255
		2A	.6159	.6238	.59670	.6107	.6238	.59270	.59270	.6238	.6238
.625–24	UNEF		.6154	.6243	.59655	.6102	.6243	.59285	.59255	.6243	.6243
		3A	.6171	.6250	.59790	.6129	.6250	.59490	.59490	.6250	.6250
			.6166	.6255	.59775	.6124	.6255	.59505	.59475	.6255	.6255
		2A	.6168	.6239	.60070	.6124	.6237	.59690	.59690	.6239	.6237
.625–28	UN		.6163	.6244	.60055	.6119	.6242	.59705	.59675	.6244	.6242
		3A	.6179	.6250	.60180	.6145	.6250	.59900	.59900	.6250	.6250
			.6174	.6255	.60165	.6140	.6255	.59915	.59885	.6255	.6255

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
.625–32	UN	2A	.6174	.6239	.60360	.6135	.6234	.60000	.60000	.6239	.6234
			.6169	.6244	.60345	.6130	.6239	.60015	.59985	.6244	.6239
		3A	.6185	.6250	.60470	.6155	.6250	.60200	.60200	.6250	.6250
			.6180	.6255	.60455	.6150	.6255	.60215	.60185	.6255	.6255
.6875–12	UN	2A	.6730	.6859	.6318	.6625	.6859	.6264	.6264	.6859	.6859
			.6724	.6865	.6316	.6619	.6865	.6266	.6262	.6865	.6865
		3A	.6746	.6875	.6334	.6654	.6875	.6293	.6293	.6875	.6875
			.6740	.6881	.6332	.6648	.6881	.6295	.6291	.6881	.6881
.6875–16	UN	2A	.6756	.6861	.6455	.6678	.6861	.6407	.6407	.6861	.6861
			.6750	.6867	.6453	.6672	.6867	.6409	.6405	.6867	.6867
		3A	.6770	.6875	.6469	.6704	.6875	.6433	.6433	.6875	.6875
			.6764	.6881	.6467	.6698	.6881	.6435	.6431	.6881	.6881
.6875–20	UN	2A	.6772	.6862	.65370	.6711	.6862	.64940	.64940	.6862	.6862
			.6767	.6867	.65355	.6706	.6867	.64955	.64925	.6867	.6867
		3A	.6785	.6875	.65500	.6735	.6875	.65180	.65180	.6875	.6875
			.6780	.6880	.65485	.6730	.6880	.65195	.65165	.6880	.6880
.6875–24	UNEF	2A	.6784	.6863	.65920	.6732	.6863	.65520	.65520	.6863	.6863
			.6779	.6868	.65905	.6727	.6868	.65535	.65505	.6868	.6868
		3A	.6796	.6875	.66040	.6754	.6875	.65740	.65740	.6875	.6875
			.6791	.6880	.66025	.6749	.6880	.65755	.65725	.6880	.6880
.6875–28	UN	2A	.6793	.6864	.66320	.6749	.6862	.65940	.65940	.6864	.6862
			.6788	.6869	.66305	.6744	.6867	.65955	.65925	.6869	.6865
		3A	.6804	.6875	.66430	.6770	.6875	.66150	.66150	.6875	.6877
			.6799	.6880	.66415	.6765	.6880	.66165	.66135	.6880	.6880
.6875–32	UN	2A	.6799	.6864	.66610	.6760	.6859	.66250	.66250	.6864	.6859
			.6794	.6869	.66595	.6755	.6864	.66265	.66235	.6869	.6864
		3A	.6810	.6875	.66720	.6780	.6875	.66450	.66450	.6875	.6875
			.6805	.6880	.66705	.6775	.6880	.66465	.66435	.6880	.6880
.750–10	UNC	1A	.7336	.7482	.6832	.7177	.7482	.6744	.6744	.7482	.7482
			.7330	.7488	.6830	.7171	.7488	.6746	.6742	.7488	.7488
		2A	.7336	.7482	.6832	.7206	.7482	.6773	.6773	.7482	.7482
			.7330	.7488	.6830	.7200	.7488	.6775	.6771	.7488	.7488
		3A	.7354	.7500	.6850	.7239	.7500	.6806	.6806	.7500	.7500
			.7348	.7506	.6848	.7233	.7506	.6808	.6804	.7506	.7506
.750–12	UN	2A	.7354	.7483	.6942	.7248	.7483	.6887	.6887	.7483	.7483
			.7348	.7489	.6940	.7242	.7489	.6889	.6885	.7489	.7489
		3A	.7371	.7500	.6959	.7279	.7500	.6918	.6918	.7500	.7500
			.7365	.7506	.6957	.7273	.7506	.6920	.6916	.7506	.7506
.750–16	UNF	1A	.7380	.7485	.7079	.7275	.7473	.7004	.7004	.7485	.7473
			.7374	.7491	.7077	.7269	.7479	.7006	.7002	.7491	.7479
		2A	.7380	.7485	.7079	.7300	.7485	.7029	.7029	.7485	.7485
			.7374	.7491	.7077	.7294	.7491	.7031	.7027	.7491	.7491
		3A	.7395	.7500	.7094	.7327	.7500	.7056	.7056	.7500	.7500
			.7389	.7506	.7092	.7321	.7506	.7058	.7054	.7506	.7506
.750–20	UNEF	2A	.7397	.7487	.71620	.7335	.7487	.71180	.71180	.7487	.7487
			.7392	.7492	.71605	.7330	.7492	.71195	.71165	.7492	.7492
		3A	.7410	.7500	.71750	.7359	.7500	.71420	.71420	.7500	.7500
			.7405	.7505	.71735	.7354	.7505	.71435	.71405	.7505	.7505
.750–28	UN	2A	.7417	.7488	.72560	.7373	.7486	.72180	.72180	.7488	.7486
			.7412	.7493	.72545	.7368	.7491	.72195	.72165	.7493	.7491
		3A	.7429	.7500	.72680	.7394	.7500	.72390	.72390	.7500	.7500
			.7424	.7505	.72665	.7389	.7505	.72405	.72375	.7505	.7505
.750–32	UN	2A	.7424	.7489	.72860	.7385	.7484	.72500	.72500	.7489	.7484
			.7419	.7494	.72845	.7380	.7489	.72515	.72485	.7494	.7489
		3A	.7435	.7500	.72970	.7405	.7500	.72700	.72700	.7500	.7500
			.7430	.7505	.72955	.7400	.7505	.72715	.72685	.7505	.7505
.8125–12	UN	2A	.7979	.8108	.7567	.7873	.8108	.7512	.7512	.8108	.8108
			.7973	.8114	.7565	.7867	.8114	.7514	.7510	.8114	.8114
		3A	.7996	.8125	.7584	.7904	.8125	.7543	.7543	.8125	.8125
			.7990	.8131	.7582	.7898	.8131	.7545	.7541	.8131	.8131
.8125–16	UN	2A	.8005	.8110	.7704	.7926	.8110	.7655	.7655	.8110	.8110
			.7999	.8116	.7702	.7920	.8116	.7657	.7653	.8116	.8116
		3A	.8020	.8125	.7719	.7954	.8125	.7683	.7683	.8125	.8125
			.8014	.8131	.7717	.7948	.8131	.7685	.7681	.8131	.8131

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
.8125–20	UNEF	2A	.8022	.8112	.77870	.7960	.8112	.77430	.77430	.8112	.8112
			.8017	.8117	.77855	.7955	.8117	.77445	.77415	.8117	.8117
		3A	.8035	.8125	.78000	.7984	.8125	.77670	.77670	.8125	.8125
			.8030	.8130	.77985	.7979	.8130	.77685	.77655	.8130	.8130
.8125–28	UN	2A	.8042	.8113	.78810	.7998	.8111	.78430	.78430	.8113	.8111
			.8037	.8118	.78795	.7993	.8116	.78445	.78415	.8118	.8116
		3A	.8054	.8125	.78930	.8019	.8125	.78640	.78640	.8125	.8125
			.8049	.8130	.78915	.8014	.8130	.78655	.78625	.8130	.8130
.8125–32	UN	2A	.8049	.8114	.79110	.8010	.8109	.78750	.78750	.8114	.8109
			.8044	.8119	.79095	.8005	.8114	.78765	.78735	.8119	.8114
		3A	.8060	.8125	.79220	.8030	.8125	.78950	.78950	.8125	.8125
			.8055	.8130	.79205	.8025	.8130	.78965	.78935	.8130	.8130
.875–9	UNC	1A	.8573	.8731	.8009	.8395	.8731	.7914	.7914	.8731	.8731
			.8566	.8738	.8007	.8388	.8738	.7916	.7912	.8738	.8738
		2A	.8573	.8731	.8009	.8427	.8731	.7946	.7946	.8731	.8731
			.8566	.8738	.8007	.8420	.8738	.7948	.7944	.8738	.8738
		3A	.8592	.8750	.8028	.8462	.8750	.7981	.7981	.8750	.8750
			.8585	.8757	.8026	.8455	.8757	.7983	.7979	.8757	.8757
.875–12	UN	2A	.8604	.8733	.8192	.8498	.8733	.8137	.8137	.8733	.8733
			.8598	.8739	.8190	.8492	.8739	.8139	.8135	.8739	.8739
		3A	.8621	.8750	.8209	.8529	.8750	.8168	.8168	.8750	.8750
			.8615	.8756	.8207	.8523	.8756	.8170	.8166	.8756	.8756
.875–14	UNF	1A	.8619	.8734	.8270	.8498	.8725	.8189	.8189	.8734	.8725
			.8613	.8740	.8268	.8492	.8731	.8191	.8187	.8740	.8731
		2A	.8619	.8734	.8270	.8525	.8734	.8216	.8216	.8734	.8734
			.8613	.8740	.8268	.8519	.8740	.8218	.8214	.8740	.8740
		3A	.8635	.8750	.8286	.8554	.8750	.8245	.8245	.8750	.8750
			.8629	.8756	.8284	.8548	.8756	.8247	.8243	.8756	.8756
.875–16	UN	2A	.8630	.8735	.8329	.8551	.8735	.8280	.8280	.8735	.8735
			.8624	.8741	.8327	.8545	.8741	.8282	.8278	.8741	.8741
		3A	.8645	.8750	.8344	.8579	.8750	.8308	.8308	.8750	.8750
			.8639	.8756	.8342	.8573	.8756	.8310	.8306	.8756	.8756
.875–20	UNEF	2A	.8647	.8737	.84120	.8585	.8737	.83680	.83680	.8737	.8737
			.8642	.8742	.84105	.8580	.8742	.83695	.83665	.8742	.8742
		3A	.8660	.8750	.84250	.8609	.8750	.83920	.83920	.8750	.8750
			.8655	.8755	.84235	.8604	.8755	.83935	.83905	.8755	.8755
.875–28	UN	2A	.8667	.8738	.85060	.8623	.8736	.84680	.84680	.8738	.8736
			.8662	.8743	.85045	.8618	.8741	.84695	.84665	.8743	.8741
		3A	.8679	.8750	.85180	.8644	.8750	.84890	.84890	.8750	.8750
			.8674	.8755	.85165	.8639	.8755	.84905	.84875	.8755	.8755
.875–32	UN	2A	.8674	.8739	.85360	.8635	.8734	.85000	.85000	.8739	.8734
			.8669	.8744	.85345	.8630	.8739	.85015	.84985	.8744	.8739
		3A	.8685	.8750	.85470	.8655	.8750	.85200	.85200	.8750	.8750
			.8680	.8755	.85455	.8650	.8755	.85215	.85185	.8755	.8755
.9375–12	UN	2A	.9229	.9358	.8817	.9121	.9358	.8760	.8760	.9358	.9358
			.9223	.9364	.8815	.9115	.9364	.8762	.8758	.9364	.9364
		3A	.9246	.9375	.8834	.9153	.9375	.8792	.8792	.9375	.9375
			.9240	.9381	.8832	.9147	.9381	.8794	.8790	.9381	.9381
.9375–16	UN	2A	.9255	.9360	.8954	.9175	.9360	.8904	.8904	.9360	.9360
			.9249	.9366	.8952	.9169	.9366	.8906	.8902	.9366	.9366
		3A	.9270	.9375	.8969	.9203	.9375	.8932	.8932	.9375	.9375
			.9264	.9381	.8967	.9197	.9381	.8934	.8930	.9381	.9381
.9375–20	UNEF	2A	.9271	.9361	.90360	.9208	.9361	.89910	.89910	.9361	.9361
			.9266	.9366	.90345	.9203	.9366	.89925	.89895	.9366	.9366
		3A	.9285	.9375	.90500	.9233	.9375	.90160	.90160	.9375	.9375
			.9280	.9380	.90485	.9228	.9380	.90175	.90145	.9380	.9380
.9375–28	UN	2A	.9292	.9363	.91310	.9246	.9359	.90910	.90910	.9363	.9359
			.9287	.9368	.91295	.9241	.9364	.90925	.90895	.9368	.9364
		3A	.9304	.9375	.91430	.9268	.9375	.91130	.91130	.9375	.9375
			.9299	.9380	.91415	.9263	.9380	.91145	.91115	.9380	.9380
.9375–32	UN	2A	.9299	.9364	.91610	.9258	.9357	.91230	.91230	.9364	.9357
			.9294	.9369	.91595	.9253	.9362	.91245	.91215	.9369	.9362
		3A	.9310	.9375	.91720	.9279	.9375	.91440	.91440	.9375	.9375
			.9305	.9380	.91705	.9274	.9380	.91455	.91425	.9380	.9380

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
1.000–8	UNC	1A	.9809	.9980	.9168	.9608	.9980	.9067	.9067	.9980	.9980
		2A	.9802	.9987	.9166	.9601	.9987	.9069	.9065	.9987	.9987
		3A	.9809	.9980	.9168	.9641	.9980	.9100	.9100	.9980	.9980
			.9802	.9987	.9166	.9634	.9987	.9102	.9098	.9987	.9987
			.9829	1.0000	.9188	.9678	1.0000	.9137	.9137	1.0000	1.0000
			.9822	1.0007	.9186	.9671	1.0007	.9139	.9135	1.0007	1.0007
1.000–12	UNF	1A	.9853	.9982	.9441	.9714	.9978	.9353	.9353	.9982	.9978
		2A	.9847	.9988	.9439	.9708	.9984	.9355	.9351	.9988	.9984
		3A	.9853	.9982	.9441	.9743	.9982	.9382	.9382	.9982	.9982
			.9847	.9988	.9439	.9737	.9988	.9384	.9380	.9988	.9988
			.9871	1.0000	.9459	.9776	1.0000	.9415	.9415	1.0000	1.0000
			.9865	1.0006	.9457	.9770	1.0006	.9417	.9413	1.0006	1.0006
1.000–16	UN	2A	.9880	.9985	.9579	.9800	.9985	.9529	.9529	.9985	.9985
		3A	.9874	.9991	.9577	.9794	.9991	.9531	.9527	.9991	.9991
			.9895	1.0000	.9594	.9828	1.0000	.9557	.9557	1.0000	1.0000
			.9889	1.0006	.9592	.9822	1.0006	.9559	.9555	1.0006	1.0006
1.000–20	UNEF	2A	.9896	.9986	.96610	.9833	.9986	.96160	.96160	.9986	.9986
		3A	.9891	.9991	.96595	.9828	.9991	.96175	.96145	.9991	.9991
			.9910	1.0000	.96750	.9858	1.0000	.96410	.96410	1.0000	1.0000
			.9905	1.0005	.96735	.9853	1.0005	.96425	.96395	1.0005	1.0005
1.000–28	UN	2A	.9917	.9988	.97560	.9871	.9984	.97160	.97160	.9988	.9984
		3A	.9912	.9993	.97545	.9866	.9989	.97175	.97145	.9993	.9989
			.9929	1.0000	.97680	.9893	1.0000	.97380	.97380	1.0000	1.0000
			.9924	1.0005	.97665	.9888	1.0005	.97395	.97365	1.0005	1.0005
1.000–32	UN	2A	.9924	.9989	.97860	.9883	.9982	.97480	.97480	.9989	.9982
		3A	.9919	.9994	.97845	.9878	.9987	.97495	.97465	.9994	.9987
			.9935	1.0000	.97970	.9904	1.0000	.97690	.97690	1.0000	1.0000
			.9930	1.0005	.97955	.9899	1.0005	.97705	.97675	1.0005	1.0005
1.0625–8	UN	2A	1.0434	1.0605	.9793	1.0266	1.0605	.9725	.9725	1.0605	1.0605
		3A	1.0427	1.0612	.9791	1.0259	1.0612	.9727	.9723	1.0612	1.0612
			1.0454	1.0625	.9813	1.0303	1.0625	.9762	.9762	1.0625	1.0625
			1.0447	1.0632	.9811	1.0296	1.0632	.9764	.9760	1.0632	1.0632
1.0625–12	UN	2A	1.0479	1.0608	1.0067	1.0371	1.0608	1.0010	1.0010	1.0608	1.0608
		3A	1.0473	1.0614	1.0065	1.0365	1.0614	1.0012	1.0008	1.0614	1.0614
			1.0496	1.0625	1.0084	1.0403	1.0625	1.0042	1.0042	1.0625	1.0625
			1.0490	1.0631	1.0082	1.0397	1.0631	1.0044	1.0040	1.0631	1.0631
1.0625–16	UN	2A	1.0505	1.0610	1.0204	1.0425	1.0610	1.0154	1.0154	1.0610	1.0610
		3A	1.0499	1.0616	1.0202	1.0419	1.0616	1.0156	1.0152	1.0616	1.0616
			1.0520	1.0625	1.0219	1.0453	1.0625	1.0182	1.0182	1.0625	1.0625
			1.0514	1.0631	1.0217	1.0447	1.0631	1.0184	1.0180	1.0631	1.0631
1.0625–18	UNEF	2A	1.0514	1.0611	1.02500	1.0444	1.0611	1.02030	1.02030	1.0611	1.0611
		3A	1.0509	1.0616	1.02485	1.0439	1.0616	1.02045	1.02015	1.0616	1.0616
			1.0528	1.0625	1.02640	1.0469	1.0625	1.02280	1.02280	1.0625	1.0625
			1.0523	1.0630	1.02625	1.0464	1.0630	1.02295	1.02265	1.0630	1.0630
1.0625–20	UN	2A	1.0521	1.0611	1.02860	1.0458	1.0611	1.02410	1.02410	1.0611	1.0611
		3A	1.0516	1.0616	1.02845	1.0453	1.0616	1.02425	1.02395	1.0616	1.0616
			1.0535	1.0625	1.03000	1.0483	1.0625	1.02660	1.02660	1.0625	1.0625
			1.0530	1.0630	1.02985	1.0478	1.0630	1.02675	1.02645	1.0630	1.0630
1.0625–28	UN	2A	1.0542	1.0613	1.03810	1.0496	1.0609	1.03410	1.03410	1.0613	1.0609
		3A	1.0537	1.0618	1.03795	1.0491	1.0614	1.03425	1.03395	1.0618	1.0614
			1.0554	1.0625	1.03930	1.0518	1.0625	1.03630	1.03630	1.0625	1.0625
			1.0549	1.0630	1.03915	1.0513	1.0630	1.03645	1.03615	1.0630	1.0630
1.125–7	UNC	1A	1.1040	1.1228	1.0300	1.0810	1.1228	1.0191	1.0191	1.1228	1.1228
		2A	1.1033	1.1235	1.0298	1.0803	1.1235	1.0193	1.0189	1.1235	1.1235
		3A	1.1040	1.1228	1.0300	1.0847	1.1228	1.0228	1.0228	1.1228	1.1228
			1.1033	1.1235	1.0298	1.0840	1.1235	1.0230	1.0226	1.1235	1.1235
			1.1062	1.1250	1.0322	1.0887	1.1250	1.0268	1.0268	1.1250	1.1250
			1.1055	1.1257	1.0320	1.0880	1.1257	1.0270	1.0266	1.1257	1.1257
1.125–8	UN	2A	1.1058	1.1229	1.0417	1.0889	1.1229	1.0348	1.0348	1.1229	1.1229
		3A	1.1051	1.1236	1.0415	1.0882	1.1236	1.0350	1.0346	1.1236	1.1236
			1.1079	1.1250	1.0438	1.0927	1.1250	1.0386	1.0386	1.1250	1.1250
			1.1072	1.1257	1.0436	1.0920	1.1257	1.0388	1.0384	1.1257	1.1257
1.125–12	UNF	1A	1.1103	1.1232	1.0691	1.0962	1.1226	1.0601	1.0601	1.1232	1.1226
		2A	1.1097	1.1238	1.0689	1.0956	1.1232	1.0603	1.0599	1.1238	1.1232
		3A	1.1103	1.1232	1.0691	1.0992	1.1232	1.0631	1.0631	1.1232	1.1232
			1.1097	1.1238	1.0689	1.0986	1.1238	1.0633	1.0629	1.1238	1.1238
			1.1121	1.1250	1.0709	1.1025	1.1250	1.0664	1.0664	1.1250	1.1250
			1.1115	1.1256	1.0707	1.1019	1.1256	1.0666	1.0662	1.1256	1.1256

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
1.125–16	UN	2A	1.1130	1.1235	1.0829	1.1050	1.1235	1.0779	1.0779	1.1235	1.1235
			1.1124	1.1241	1.0827	1.1044	1.1241	1.0781	1.0777	1.1241	1.1241
		3A	1.1145	1.1250	1.0844	1.1078	1.1250	1.0807	1.0807	1.1250	1.1250
			1.1139	1.1256	1.0842	1.1072	1.1256	1.0809	1.0805	1.1256	1.1256
1.125–18	UNEF	2A	1.1139	1.1236	1.08750	1.1069	1.1236	1.08280	1.08280	1.1236	1.1236
			1.1134	1.1241	1.08735	1.1064	1.1241	1.08295	1.08265	1.1241	1.1241
		3A	1.1153	1.1250	1.08890	1.1094	1.1250	1.08530	1.08530	1.1250	1.1250
			1.1148	1.1255	1.08875	1.1089	1.1255	1.08545	1.08515	1.1255	1.1255
1.125–20	UN	2A	1.1146	1.1236	1.09110	1.1083	1.1236	1.08660	1.08660	1.1236	1.1236
			1.1141	1.1241	1.09095	1.1078	1.1241	1.08675	1.08645	1.1241	1.1241
		3A	1.1160	1.1250	1.09250	1.1108	1.1250	1.08910	1.08910	1.1250	1.1250
			1.1155	1.1255	1.09235	1.1103	1.1255	1.08925	1.08895	1.1255	1.1255
1.125–28	UN	2A	1.1167	1.1238	1.10060	1.1121	1.1234	1.09660	1.09660	1.1238	1.1234
			1.1162	1.1243	1.10045	1.1116	1.1239	1.09675	1.09645	1.1243	1.1239
		3A	1.1179	1.1250	1.10180	1.1143	1.1250	1.09880	1.09880	1.1250	1.1250
			1.1174	1.1255	1.10165	1.1138	1.1255	1.09895	1.09865	1.1255	1.1255
1.1875–8	UN	2A	1.1683	1.1854	1.1042	1.1513	1.1854	1.0972	1.0972	1.1854	1.1854
			1.1676	1.1861	1.1040	1.1506	1.1861	1.0974	1.0970	1.1861	1.1861
		3A	1.1704	1.1875	1.1063	1.1552	1.1875	1.1011	1.1011	1.1875	1.1875
			1.1697	1.1882	1.1061	1.1545	1.1882	1.1013	1.1009	1.1882	1.1882
1.1875–12	UN	2A	1.1729	1.1858	1.1317	1.1620	1.1858	1.1259	1.1259	1.1858	1.1858
			1.1723	1.1864	1.1315	1.1614	1.1864	1.1261	1.1257	1.1864	1.1864
		3A	1.1746	1.1875	1.1334	1.1652	1.1875	1.1291	1.1291	1.1875	1.1875
			1.1740	1.1881	1.1332	1.1646	1.1881	1.1293	1.1289	1.1881	1.1881
1.1875–16	UN	2A	1.1755	1.1860	1.1454	1.1674	1.1860	1.1403	1.1403	1.1860	1.1860
			1.1749	1.1866	1.1452	1.1668	1.1866	1.1405	1.1401	1.1866	1.1866
		3A	1.1770	1.1875	1.1469	1.1702	1.1875	1.1431	1.1431	1.1875	1.1875
			1.1764	1.1881	1.1467	1.1696	1.1881	1.1433	1.1429	1.1881	1.1881
1.1875–18	UNEF	2A	1.1763	1.1860	1.14990	1.1691	1.1860	1.14500	1.14500	1.1860	1.1860
			1.1758	1.1865	1.14975	1.1686	1.1865	1.14515	1.14485	1.1865	1.1865
		3A	1.1778	1.1875	1.15140	1.1719	1.1875	1.14780	1.14780	1.1875	1.1875
			1.1773	1.1880	1.15125	1.1714	1.1880	1.14795	1.14765	1.1880	1.1880
1.1875–20	UN	2A	1.1771	1.1861	1.15360	1.1706	1.1861	1.14890	1.14890	1.1861	1.1861
			1.1766	1.1866	1.15345	1.1701	1.1866	1.14905	1.14875	1.1866	1.1866
		3A	1.1785	1.1875	1.15500	1.1732	1.1875	1.15150	1.15150	1.1875	1.1875
			1.1780	1.1880	1.15485	1.1727	1.1880	1.15165	1.15135	1.1880	1.1880
1.1875–28	UN	2A	1.1792	1.1863	1.16310	1.1745	1.1858	1.15900	1.15900	1.1863	1.1858
			1.1787	1.1868	1.16295	1.1740	1.1863	1.15915	1.15885	1.1868	1.1863
		3A	1.1804	1.1875	1.16430	1.1767	1.1875	1.16120	1.16120	1.1875	1.1875
			1.1799	1.1880	1.16415	1.1762	1.1880	1.16135	1.16105	1.1880	1.1880
1.250–7	UNC	1A	1.2290	1.2478	1.1550	1.2058	1.2478	1.1439	1.1439	1.2478	1.2478
			1.2283	1.2485	1.1548	1.2051	1.2485	1.1441	1.1437	1.2485	1.2485
		2A	1.2290	1.2478	1.1550	1.2095	1.2478	1.1476	1.1476	1.2478	1.2478
			1.2283	1.2485	1.1548	1.2088	1.2485	1.1478	1.1474	1.2485	1.2485
		3A	1.2312	1.2500	1.1572	1.2136	1.2500	1.1517	1.1517	1.2500	1.2500
			1.2305	1.2507	1.1570	1.2129	1.2507	1.1519	1.1515	1.2507	1.2507
1.250–8	UN	2A	1.2308	1.2479	1.1667	1.2138	1.2479	1.1597	1.1597	1.2479	1.2479
			1.2301	1.2486	1.1665	1.2131	1.2486	1.1599	1.1595	1.2486	1.2486
		3A	1.2329	1.2500	1.1688	1.2176	1.2500	1.1635	1.1635	1.2500	1.2500
			1.2322	1.2507	1.1686	1.2169	1.2507	1.1637	1.1633	1.2507	1.2507
1.250–12	UNF	1A	1.2353	1.2482	1.1941	1.2210	1.2474	1.1849	1.1849	1.2482	1.2474
			1.2347	1.2488	1.1939	1.2204	1.2480	1.1851	1.1847	1.2488	1.2480
		2A	1.2353	1.2482	1.1941	1.2240	1.2482	1.1879	1.1879	1.2482	1.2482
			1.2347	1.2488	1.1939	1.2234	1.2488	1.1881	1.1877	1.2488	1.2488
		3A	1.2371	1.2500	1.1959	1.2274	1.2500	1.1913	1.1913	1.2500	1.2500
			1.2365	1.2506	1.1957	1.2268	1.2506	1.1915	1.1911	1.2506	1.2506
1.250–16	UN	2A	1.2380	1.2485	1.2079	1.2299	1.2485	1.2028	1.2028	1.2485	1.2485
			1.2374	1.2491	1.2077	1.2293	1.2491	1.2030	1.2026	1.2491	1.2491
		3A	1.2395	1.2500	1.2094	1.2327	1.2500	1.2056	1.2056	1.2500	1.2500
			1.2389	1.2506	1.2092	1.2321	1.2506	1.2058	1.2054	1.2506	1.2506
1.250–18	UNEF	2A	1.2388	1.2485	1.21240	1.2316	1.2485	1.20750	1.20750	1.2485	1.2485
			1.2383	1.2490	1.21225	1.2311	1.2490	1.20765	1.20735	1.2490	1.2490
		3A	1.2403	1.2500	1.21390	1.2344	1.2500	1.21030	1.21030	1.2500	1.2500
			1.2398	1.2505	1.21375	1.2339	1.2505	1.21045	1.21015	1.2505	1.2505

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
1.250–20	UN	2A	1.2396	1.2486	1.21610	1.2331	1.2486	1.21140	1.21140	1.2486	1.2486
			1.2391	1.2491	1.21595	1.2326	1.2491	1.21155	1.21125	1.2491	1.2491
		3A	1.2410	1.2500	1.21750	1.2357	1.2500	1.21400	1.21400	1.2500	1.2500
			1.2405	1.2505	1.21735	1.2352	1.2505	1.21415	1.21385	1.2505	1.2505
1.250–28	UN	2A	1.2417	1.2488	1.22560	1.2370	1.2483	1.22150	1.22150	1.2488	1.2483
			1.2412	1.2493	1.22545	1.2365	1.2488	1.22165	1.22135	1.2493	1.2488
		3A	1.2429	1.2500	1.22680	1.2332	1.2500	1.22370	1.22370	1.2500	1.2500
			1.2424	1.2505	1.22665	1.2387	1.2505	1.22385	1.22355	1.2505	1.2505
1.3125–8	UN	2A	1.2933	1.3104	1.2292	1.2762	1.3104	1.2221	1.2221	1.3104	1.3104
			1.2926	1.3111	1.2290	1.2755	1.3111	1.2223	1.2219	1.3111	1.3111
		3A	1.2954	1.3125	1.2313	1.2801	1.3125	1.2260	1.2260	1.3125	1.3125
			1.2947	1.3132	1.2311	1.2794	1.3132	1.2262	1.2258	1.3132	1.3132
1.3125–12	UN	2A	1.2979	1.3108	1.2567	1.2870	1.3108	1.2509	1.2509	1.3108	1.3108
			1.2973	1.3114	1.2565	1.2864	1.3114	1.2511	1.2507	1.3114	1.3114
		3A	1.2996	1.3125	1.2584	1.2902	1.3125	1.2541	1.2541	1.3125	1.3125
			1.2990	1.3131	1.2582	1.2896	1.3131	1.2543	1.2539	1.3131	1.3131
1.3125–16	UN	2A	1.3005	1.3110	1.2704	1.2924	1.3110	1.2653	1.2653	1.3110	1.3110
			1.2999	1.3116	1.2702	1.2918	1.3116	1.2655	1.2651	1.3116	1.3116
		3A	1.3020	1.3125	1.2719	1.2952	1.3125	1.2681	1.2681	1.3125	1.3125
			1.3014	1.3131	1.2717	1.2946	1.3131	1.2683	1.2679	1.3131	1.3131
1.3125–18	UNEF	2A	1.3013	1.3110	1.27490	1.2941	1.3110	1.27000	1.27000	1.3110	1.3110
			1.3008	1.3115	1.27475	1.2936	1.3115	1.27015	1.26985	1.3115	1.3115
		3A	1.3028	1.3125	1.27640	1.2969	1.3125	1.27280	1.27280	1.3125	1.3125
			1.3023	1.3130	1.27625	1.2964	1.3130	1.27295	1.27265	1.3130	1.3130
1.3125–20	UN	2A	1.3021	1.3111	1.27860	1.2956	1.3111	1.27390	1.27390	1.3111	1.3111
			1.3016	1.3116	1.27845	1.2951	1.3116	1.27405	1.27375	1.3116	1.3116
		3A	1.3035	1.3125	1.28000	1.2982	1.3125	1.27650	1.27650	1.3125	1.3125
			1.3030	1.3130	1.27985	1.2977	1.3130	1.27665	1.27635	1.3130	1.3130
1.3125–28	UN	2A	1.3042	1.3113	1.28810	1.2995	1.3108	1.28400	1.28400	1.3113	1.3108
			1.3037	1.3118	1.28795	1.2990	1.3113	1.28415	1.28385	1.3118	1.3113
		3A	1.3054	1.3125	1.28930	1.3017	1.3125	1.28620	1.28620	1.3125	1.3125
			1.3049	1.3130	1.28915	1.3012	1.3130	1.28635	1.28605	1.3130	1.3130
1.375–6	UNC	1A	1.3516	1.3726	1.2643	1.3245	1.3726	1.2523	1.2523	1.3726	1.3726
			1.3508	1.3734	1.2641	1.3237	1.3734	1.2525	1.2521	1.3734	1.3734
		2A	1.3516	1.3726	1.2643	1.3285	1.3726	1.2563	1.2563	1.3726	1.3726
			1.3508	1.3734	1.2641	1.3277	1.3734	1.2565	1.2561	1.3734	1.3734
		3A	1.3540	1.3750	1.2667	1.3329	1.3750	1.2607	1.2607	1.3750	1.3750
			1.3532	1.3758	1.2665	1.3321	1.3758	1.2609	1.2605	1.3758	1.3758
1.375–8	UN	2A	1.3557	1.3728	1.2916	1.3385	1.3728	1.2844	1.2844	1.3728	1.3728
			1.3550	1.3735	1.2914	1.3378	1.3735	1.2846	1.2842	1.3735	1.3735
		3A	1.3579	1.3750	1.2938	1.3425	1.3750	1.2884	1.2884	1.3750	1.3750
			1.3572	1.3757	1.2936	1.3418	1.3757	1.2886	1.2882	1.3757	1.3757
1.375–12	UNF	1A	1.3602	1.3731	1.3190	1.3457	1.3721	1.3096	1.3096	1.3731	1.3721
			1.3596	1.3737	1.3188	1.3451	1.3727	1.3098	1.3094	1.3737	1.3727
		2A	1.3602	1.3731	1.3190	1.3488	1.3731	1.3127	1.3127	1.3731	1.3731
			1.3596	1.3737	1.3188	1.3482	1.3737	1.3129	1.3125	1.3737	1.3737
		3A	1.3621	1.3750	1.3209	1.3523	1.3750	1.3162	1.3162	1.3750	1.3750
			1.3615	1.3756	1.3207	1.3517	1.3756	1.3164	1.3160	1.3756	1.3756
1.375–16	UN	2A	1.3630	1.3735	1.3329	1.3549	1.3735	1.3278	1.3278	1.3735	1.3735
			1.3624	1.3741	1.3327	1.3543	1.3741	1.3280	1.3276	1.3741	1.3741
		3A	1.3645	1.3750	1.3344	1.3577	1.3750	1.3306	1.3306	1.3750	1.3750
			1.3639	1.3756	1.3342	1.3571	1.3756	1.3308	1.3304	1.3756	1.3756
1.375–18	UNEF	2A	1.3638	1.3735	1.33740	1.3566	1.3735	1.33250	1.33250	1.3735	1.3735
			1.3633	1.3740	1.33725	1.3561	1.3740	1.33265	1.33235	1.3740	1.3740
		3A	1.3653	1.3750	1.33890	1.3594	1.3750	1.33530	1.33530	1.3750	1.3750
			1.3648	1.3755	1.33875	1.3589	1.3755	1.33545	1.33515	1.3755	1.3755
1.375–20	UN	2A	1.3646	1.3736	1.34110	1.3581	1.3736	1.33640	1.33640	1.3736	1.3736
			1.3641	1.3741	1.34095	1.3576	1.3741	1.33655	1.33625	1.3741	1.3741
		3A	1.3660	1.3750	1.34250	1.3607	1.3750	1.33900	1.33900	1.3750	1.3750
			1.3655	1.3755	1.34235	1.3602	1.3755	1.33915	1.33885	1.3755	1.3755
1.375–28	UN	2A	1.3667	1.3738	1.35060	1.3620	1.3733	1.34650	1.34650	1.3738	1.3733
			1.3662	1.3743	1.35045	1.3615	1.3738	1.34665	1.34635	1.3743	1.3738
		3A	1.3679	1.3750	1.35180	1.3642	1.3750	1.34870	1.34870	1.3750	1.3750
			1.3674	1.3755	1.35165	1.3637	1.3755	1.34885	1.34855	1.3755	1.3755
1.4375–6	UN	2A	1.4141	1.4351	1.3268	1.3910	1.4351	1.3188	1.3188	1.4351	1.4351
			1.4133	1.4359	1.3266	1.3902	1.4359	1.3190	1.3186	1.4359	1.4359
		3A	1.4165	1.4375	1.3292	1.3954	1.4375	1.3232	1.3232	1.4375	1.4375
			1.4157	1.4383	1.3290	1.3946	1.4383	1.3234	1.3230	1.4383	1.4383

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
1.4375-8	UN	2A	1.4182	1.4353	1.3541	1.4010	1.4353	1.3469	1.3469	1.4353	1.4353
			1.4175	1.4360	1.3539	1.4003	1.4360	1.3471	1.3467	1.4360	1.4360
		3A	1.4204	1.4375	1.3563	1.4050	1.4375	1.3509	1.3509	1.4375	1.4375
			1.4197	1.4382	1.3561	1.4043	1.4382	1.3511	1.3507	1.4382	1.4382
1.4375-12	UN	2A	1.4228	1.4357	1.3816	1.4118	1.4357	1.3757	1.3757	1.4357	1.4357
			1.4222	1.4363	1.3814	1.4112	1.4363	1.3759	1.3755	1.4363	1.4363
		3A	1.4246	1.4375	1.3834	1.4151	1.4375	1.3790	1.3790	1.4375	1.4375
			1.4240	1.4381	1.3832	1.4145	1.4381	1.3792	1.3788	1.4381	1.4381
1.4375-16	UN	2A	1.4254	1.4359	1.3953	1.4172	1.4359	1.3901	1.3901	1.4359	1.4359
			1.4248	1.4365	1.3951	1.4166	1.4365	1.3903	1.3899	1.4365	1.4365
		3A	1.4270	1.4375	1.3969	1.4201	1.4375	1.3930	1.3930	1.4375	1.4375
			1.4264	1.4381	1.3967	1.4195	1.4381	1.3932	1.3928	1.4381	1.4381
1.4375-18	UNEF	2A	1.4263	1.4360	1.39990	1.4190	1.4360	1.39490	1.39490	1.4360	1.4360
			1.4258	1.4365	1.39975	1.4185	1.4365	1.39505	1.39475	1.4365	1.4365
		3A	1.4278	1.4375	1.40140	1.4218	1.4375	1.39770	1.39770	1.4375	1.4375
			1.4273	1.4380	1.40125	1.4213	1.4380	1.39785	1.39755	1.4380	1.4380
1.4375-20	UN	2A	1.4271	1.4361	1.40360	1.4205	1.4361	1.39880	1.39880	1.4361	1.4361
			1.4266	1.4366	1.40345	1.4200	1.4366	1.39895	1.39865	1.4366	1.4366
		3A	1.4285	1.4375	1.40500	1.4231	1.4375	1.40140	1.40140	1.4375	1.4375
			1.4280	1.4380	1.40485	1.4226	1.4380	1.40155	1.40125	1.4380	1.4380
1.4375-28	UN	2A	1.4291	1.4362	1.41300	1.4243	1.4356	1.40880	1.40880	1.4362	1.4356
			1.4286	1.4367	1.41285	1.4238	1.4361	1.40895	1.40865	1.4367	1.4361
		3A	1.4304	1.4375	1.41430	1.4267	1.4375	1.41120	1.41120	1.4375	1.4375
			1.4299	1.4380	1.41415	1.4262	1.4380	1.41135	1.41105	1.4380	1.4380
1.500-6	UNC	1A	1.4766	1.4976	1.3893	1.4494	1.4976	1.3772	1.3772	1.4976	1.4976
			1.4758	1.4984	1.3891	1.4486	1.4984	1.3774	1.3770	1.4984	1.4984
		2A	1.4766	1.4976	1.3893	1.4534	1.4976	1.3812	1.3812	1.4976	1.4976
			1.4758	1.4984	1.3891	1.4526	1.4984	1.3814	1.3810	1.4984	1.4984
		3A	1.4790	1.5000	1.3917	1.4578	1.5000	1.3856	1.3856	1.5000	1.5000
			1.4782	1.5008	1.3915	1.4570	1.5008	1.3858	1.3854	1.5008	1.5008
1.500-8	UN	2A	1.4807	1.4978	1.4166	1.4634	1.4978	1.4093	1.4093	1.4978	1.4978
			1.4800	1.4985	1.4164	1.4627	1.4985	1.4095	1.4091	1.4985	1.4985
		3A	1.4829	1.5000	1.4188	1.4674	1.5000	1.4133	1.4133	1.5000	1.5000
			1.4822	1.5007	1.4186	1.4667	1.5007	1.4135	1.4131	1.5007	1.5007
1.500-12	UNF	1A	1.4852	1.4981	1.4440	1.4705	1.4969	1.4344	1.4344	1.4981	1.4969
			1.4846	1.4987	1.4438	1.4699	1.4975	1.4346	1.4342	1.4987	1.4975
		2A	1.4852	1.4981	1.4440	1.4737	1.4981	1.4376	1.4376	1.4981	1.4981
			1.4846	1.4987	1.4438	1.4731	1.4987	1.4378	1.4374	1.4987	1.4987
		3A	1.4871	1.5000	1.4459	1.4772	1.5000	1.4411	1.4411	1.5000	1.5000
			1.4865	1.5006	1.4457	1.4766	1.5006	1.4413	1.4409	1.5006	1.5006
1.500-16	UN	2A	1.4879	1.4984	1.4578	1.4797	1.4984	1.4526	1.4526	1.4984	1.4984
			1.4873	1.4990	1.4576	1.4791	1.4990	1.4528	1.4524	1.4990	1.4990
		3A	1.4895	1.5000	1.4594	1.4826	1.5000	1.4555	1.4555	1.5000	1.5000
			1.4889	1.5006	1.4592	1.4820	1.5006	1.4557	1.4553	1.5006	1.5006
1.500-18	UNEF	2A	1.4888	1.4985	1.46240	1.4815	1.4984	1.45740	1.45740	1.4985	1.4985
			1.4883	1.4990	1.46225	1.4810	1.4990	1.45755	1.45725	1.4990	1.4990
		3A	1.4903	1.5000	1.46390	1.4843	1.5000	1.46020	1.46020	1.5000	1.5000
			1.4898	1.5005	1.46375	1.4838	1.5005	1.46035	1.46005	1.5005	1.5005
1.500-20	UN	2A	1.4896	1.4986	1.46610	1.4830	1.4986	1.46130	1.46130	1.4986	1.4986
			1.4891	1.4991	1.46595	1.4825	1.4991	1.46145	1.46115	1.4991	1.4991
		3A	1.4910	1.5000	1.46750	1.4856	1.5000	1.46390	1.46390	1.5000	1.5000
			1.4905	1.5005	1.46735	1.4851	1.5005	1.46405	1.46375	1.5005	1.5005
1.500-28	UN	2A	1.4916	1.4987	1.47550	1.4868	1.4981	1.47130	1.47130	1.4987	1.4981
			1.4911	1.4992	1.47535	1.4863	1.4986	1.47145	1.47115	1.4992	1.4986
		3A	1.4929	1.5000	1.47680	1.4892	1.5000	1.47370	1.47370	1.5000	1.5000
			1.4924	1.5005	1.47665	1.4887	1.5005	1.47385	1.47355	1.5005	1.5005
1.5625-6	UN	2A	1.5391	1.5601	1.45180	1.5158	1.5601	1.44360	1.44360	1.5601	1.5601
			1.5383	1.5609	1.45155	1.5150	1.5609	1.44385	1.44335	1.5609	1.5609
		3A	1.5415	1.5625	1.45420	1.5203	1.5625	1.44810	1.44810	1.5625	1.5625
			1.5407	1.5633	1.45395	1.5195	1.5633	1.44835	1.44785	1.5633	1.5633
1.5625-8	UN	2A	1.5432	1.5603	1.47910	1.5258	1.5603	1.47170	1.47170	1.5603	1.5603
			1.5425	1.5610	1.47885	1.5251	1.5610	1.47195	1.47145	1.5610	1.5610
		3A	1.5454	1.5625	1.48130	1.5299	1.5625	1.47580	1.47580	1.5625	1.5625
			1.5447	1.5632	1.48105	1.5292	1.5632	1.47605	1.47555	1.5632	1.5632

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
1.5625–12	UN	2A	1.5478	1.5607	1.50660	1.5368	1.5607	1.50070	1.50070	1.5607	1.5607
		3A	1.5472	1.5613	1.50635	1.5362	1.5613	1.50095	1.50045	1.5613	1.5613
			1.5496	1.5625	1.50840	1.5401	1.5625	1.50400	1.50400	1.5625	1.5625
			1.5490	1.5631	1.50815	1.5395	1.5631	1.50425	1.50375	1.5631	1.5631
1.5625–16	UN	2A	1.5504	1.5609	1.52030	1.5422	1.5609	1.51510	1.51510	1.5609	1.5609
		3A	1.5498	1.5615	1.52005	1.5416	1.5615	1.51535	1.51485	1.5615	1.5619
			1.5520	1.5625	1.52190	1.5451	1.5625	1.51800	1.51800	1.5625	1.5625
			1.5514	1.5631	1.52165	1.5445	1.5631	1.51825	1.51775	1.5631	1.5631
1.5625–18	UNEF	2A	1.5513	1.5610	1.5249	1.5440	1.5610	1.5199	1.5199	1.5610	1.5610
		3A	1.5508	1.5615	1.5247	1.5435	1.5615	1.5201	1.5197	1.5615	1.5615
			1.5528	1.5625	1.5264	1.5468	1.5625	1.5227	1.5227	1.5625	1.5625
			1.5523	1.5630	1.5262	1.5463	1.5630	1.5229	1.5225	1.5630	1.5630
1.5625–20	UN	2A	1.5521	1.5611	1.5286	1.5455	1.5611	1.5238	1.5238	1.5611	1.5611
		3A	1.5516	1.5616	1.5284	1.5450	1.5616	1.5240	1.5236	1.5616	1.5616
			1.5535	1.5625	1.5300	1.5481	1.5625	1.5264	1.5264	1.5625	1.5625
			1.5530	1.5630	1.5298	1.5476	1.5630	1.5266	1.5262	1.5630	1.5630
1.625–6	UN	2A	1.6015	1.6225	1.51420	1.5782	1.6225	1.50600	1.50600	1.6225	1.6225
		3A	1.6007	1.6233	1.51395	1.5774	1.6233	1.50625	1.50575	1.6233	1.6233
			1.6040	1.6250	1.51670	1.5827	1.6250	1.51050	1.51050	1.6250	1.6250
			1.6032	1.6258	1.51645	1.5819	1.6258	1.51075	1.51025	1.6258	1.6258
1.625–8	UN	2A	1.6057	1.6228	1.54160	1.5883	1.6228	1.53420	1.53420	1.6228	1.6228
		3A	1.6050	1.6235	1.54135	1.5876	1.6235	1.53445	1.53395	1.6235	1.6235
			1.6079	1.6250	1.54380	1.5923	1.6250	1.53820	1.53820	1.6250	1.6250
			1.6072	1.6257	1.54355	1.5916	1.6257	1.53845	1.53795	1.6257	1.6257
1.625–12	UN	2A	1.6103	1.6232	1.56910	1.5993	1.6232	1.56320	1.56320	1.6232	1.6232
		3A	1.6097	1.6238	1.56885	1.5987	1.6238	1.56345	1.56295	1.6238	1.6238
			1.6121	1.6250	1.57090	1.6026	1.6250	1.56650	1.56650	1.6250	1.6250
			1.6115	1.6256	1.57065	1.6020	1.6256	1.56675	1.56625	1.6256	1.6256
1.625–16	UN	2A	1.6129	1.6234	1.58280	1.6047	1.6234	1.57760	1.57760	1.6234	1.6234
		3A	1.6123	1.6240	1.58255	1.6041	1.6240	1.57785	1.57735	1.6240	1.6240
			1.6145	1.6250	1.58440	1.6076	1.6250	1.58050	1.58050	1.6250	1.6250
			1.6139	1.6256	1.58415	1.6070	1.6256	1.58075	1.58025	1.6256	1.6256
1.625–18	UNEF	2A	1.6138	1.6235	1.5874	1.6065	1.6235	1.5824	1.5824	1.6235	1.6235
		3A	1.6133	1.6240	1.5872	1.6060	1.6240	1.5826	1.5822	1.6240	1.6240
			1.6153	1.6250	1.5889	1.6093	1.6250	1.5852	1.5852	1.6250	1.6250
			1.6148	1.6255	1.5887	1.6088	1.6255	1.5854	1.5850	1.6255	1.6255
1.625–20	UN	2A	1.6146	1.6236	1.5911	1.6080	1.6236	1.5863	1.5863	1.6236	1.6236
		3A	1.6141	1.6241	1.5909	1.6075	1.6241	1.5865	1.5861	1.6241	1.6241
			1.6160	1.6250	1.5925	1.6106	1.6250	1.5889	1.5889	1.6250	1.6250
			1.6155	1.6255	1.5923	1.6101	1.6255	1.5891	1.5887	1.6255	1.6255
1.6875–6	UN	2A	1.6640	1.6850	1.57670	1.6406	1.6850	1.56840	1.56840	1.6850	1.6850
		3A	1.6632	1.6858	1.57645	1.6398	1.6858	1.56865	1.56815	1.6858	1.6858
			1.6665	1.6875	1.57920	1.6452	1.6875	1.57300	1.57300	1.6875	1.6875
			1.6657	1.6883	1.57895	1.6444	1.6883	1.57325	1.57275	1.6883	1.6883
1.6875–8	UN	2A	1.6682	1.6853	1.60410	1.6507	1.6853	1.59660	1.59660	1.6853	1.6853
		3A	1.6675	1.6860	1.60385	1.6500	1.6860	1.59685	1.59635	1.6860	1.6860
			1.6704	1.6875	1.60630	1.6548	1.6875	1.60070	1.60070	1.6875	1.6875
			1.6697	1.6882	1.60605	1.6541	1.6882	1.60095	1.60045	1.6882	1.6882
1.6875–12	UN	2A	1.6728	1.6857	1.63160	1.6617	1.6857	1.62560	1.62560	1.6857	1.6857
		3A	1.6722	1.6863	1.63135	1.6611	1.6863	1.62585	1.62535	1.6863	1.6863
			1.6746	1.6875	1.63340	1.6650	1.6875	1.62890	1.62890	1.6875	1.6875
			1.6740	1.6881	1.63315	1.6644	1.6881	1.62915	1.62865	1.6881	1.6881
1.6875–16	UN	2A	1.6754	1.6859	1.64530	1.6671	1.6859	1.64000	1.64000	1.6859	1.6859
		3A	1.6748	1.6865	1.64505	1.6665	1.6865	1.64025	1.63975	1.6865	1.6865
			1.6770	1.6875	1.64690	1.6700	1.6875	1.64290	1.64290	1.6875	1.6875
			1.6764	1.6881	1.64665	1.6694	1.6881	1.64315	1.64265	1.6881	1.6881
1.6875–18	UNEF	2A	1.6763	1.6860	1.6499	1.6689	1.6860	1.6448	1.6448	1.6860	1.6860
		3A	1.6758	1.6865	1.6497	1.6684	1.6865	1.6450	1.6446	1.6865	1.6865
			1.6778	1.6875	1.6514	1.6717	1.6875	1.6476	1.6476	1.6875	1.6875
			1.6773	1.6880	1.6512	1.6712	1.6880	1.6478	1.6474	1.6880	1.6880
1.6875–20	UN	2A	1.6770	1.6860	1.6535	1.6704	1.6860	1.6487	1.6487	1.6860	1.6860
		3A	1.6765	1.6865	1.6533	1.6699	1.6865	1.6489	1.6485	1.6865	1.6865
			1.6785	1.6875	1.6550	1.6731	1.6875	1.6514	1.6514	1.6875	1.6875
			1.6780	1.6880	1.6548	1.6726	1.6880	1.6516	1.6512	1.6880	1.6880

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crestsettingplugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
1.750–5	UNC	1A	1.7234	1.7473	1.61740	1.6906	1.7473	1.60400	1.60400	1.7473	1.7473
		2A	1.7226	1.7481	1.61715	1.6898	1.7481	1.60425	1.60375	1.7481	1.7481
		3A	1.7234	1.7473	1.61740	1.6951	1.7473	1.60850	1.60850	1.7473	1.7473
			1.7226	1.7481	1.61715	1.6943	1.7481	1.60875	1.60825	1.7481	1.7481
			1.7261	1.7500	1.62010	1.7000	1.7500	1.61340	1.61340	1.7500	1.7500
			1.7253	1.7508	1.61985	1.6992	1.7508	1.61365	1.61315	1.7508	1.7508
1.750–6	UN	2A	1.7265	1.7475	1.63920	1.7031	1.7475	1.63090	1.63090	1.7475	1.7475
		3A	1.7257	1.7483	1.63895	1.7023	1.7483	1.63115	1.63065	1.7483	1.7483
			1.7290	1.7500	1.64170	1.7076	1.7500	1.63540	1.63540	1.7500	1.7500
			1.7282	1.7508	1.64145	1.7068	1.7508	1.63565	1.63515	1.7508	1.7508
1.750–8	UN	2A	1.7306	1.7477	1.66650	1.7131	1.7477	1.65900	1.65900	1.7477	1.7477
		3A	1.7299	1.7484	1.66625	1.7124	1.7484	1.65925	1.65875	1.7484	1.7484
			1.7329	1.7500	1.66880	1.7172	1.7500	1.66310	1.66310	1.7500	1.7500
			1.7322	1.7507	1.66855	1.7165	1.7507	1.66335	1.66285	1.7507	1.7507
1.750–12	UN	2A	1.7353	1.7482	1.69410	1.7242	1.7482	1.68810	1.68810	1.7482	1.7482
		3A	1.7347	1.7488	1.69385	1.7236	1.7488	1.68835	1.68785	1.7488	1.7488
			1.7371	1.7500	1.69500	1.7275	1.7500	1.69140	1.69140	1.7500	1.7509
			1.7365	1.7506	1.69565	1.7269	1.7506	1.69165	1.69115	1.7506	1.7500
1.750–16	UN	2A	1.7379	1.7484	1.70780	1.7296	1.7484	1.70250	1.70250	1.7484	1.7484
		3A	1.7373	1.7490	1.70755	1.7290	1.7490	1.70275	1.70225	1.7490	1.7490
			1.7395	1.7500	1.70940	1.7325	1.7500	1.70540	1.70540	1.7500	1.7500
			1.7389	1.7506	1.70915	1.7319	1.7506	1.70565	1.70515	1.7506	1.7506
1.750–20	UN	2A	1.7395	1.7485	1.7160	1.7329	1.7485	1.7112	1.7112	1.7485	1.7485
		3A	1.7390	1.7490	1.7158	1.7324	1.7490	1.7114	1.7110	1.7490	1.7490
			1.7410	1.7500	1.7175	1.7356	1.7500	1.7139	1.7139	1.7500	1.7500
			1.7405	1.7505	1.7173	1.7351	1.7505	1.7141	1.7137	1.7505	1.7505
1.8125–6	UN	2A	1.7890	1.8100	1.70170	1.7655	1.8100	1.69330	1.69330	1.8100	1.8100
		3A	1.7882	1.8108	1.70145	1.7647	1.8108	1.69355	1.69305	1.8108	1.8108
			1.7915	1.8125	1.70420	1.7701	1.8125	1.69790	1.69790	1.8125	1.8125
			1.7907	1.8133	1.70395	1.7693	1.8133	1.69815	1.69765	1.8133	1.8133
1.8125–8	UN	2A	1.7931	1.8102	1.72900	1.7755	1.8102	1.72140	1.72140	1.8102	1.8102
		3A	1.7924	1.8109	1.72875	1.7748	1.8109	1.72165	1.72115	1.8109	1.8109
			1.7954	1.8125	1.73130	1.7797	1.8125	1.72560	1.72560	1.8125	1.8125
			1.7947	1.8132	1.73105	1.7790	1.8132	1.72585	1.72535	1.8132	1.8132
1.8125–12	UN	2A	1.7978	1.8107	1.75660	1.7867	1.8107	1.75060	1.75060	1.8107	1.8107
		3A	1.7972	1.8113	1.75635	1.7861	1.8113	1.75085	1.75035	1.8113	1.8113
			1.7996	1.8125	1.75840	1.7900	1.8125	1.75390	1.75390	1.8125	1.8125
			1.7990	1.8131	1.75815	1.7894	1.8131	1.75415	1.75365	1.8131	1.8131
1.8125–16	UN	2A	1.8004	1.8109	1.77030	1.7921	1.8109	1.76500	1.76500	1.8109	1.8109
		3A	1.7998	1.8115	1.77005	1.7915	1.8115	1.76525	1.76475	1.8115	1.8115
			1.8020	1.8125	1.77190	1.7950	1.8125	1.76790	1.76790	1.8125	1.8125
			1.8014	1.8131	1.77165	1.7944	1.8131	1.76815	1.76765	1.8131	1.8131
1.8125–20	UN	2A	1.8020	1.8110	1.7785	1.7954	1.8110	1.7737	1.7737	1.8110	1.8110
		3A	1.8015	1.8115	1.7783	1.7949	1.8115	1.7739	1.7735	1.8115	1.8115
			1.8035	1.8125	1.7800	1.7981	1.8125	1.7764	1.7764	1.8125	1.8125
			1.8030	1.8130	1.7798	1.7976	1.8130	1.7766	1.7762	1.8130	1.8130
1.875–6	UN	2A	1.8515	1.8725	1.76420	1.8280	1.8725	1.75580	1.75580	1.8725	1.8725
		3A	1.8507	1.8733	1.76395	1.8272	1.8733	1.75605	1.75555	1.8733	1.8733
			1.8540	1.8750	1.76670	1.8326	1.8750	1.76040	1.76040	1.8750	1.8750
			1.8532	1.8758	1.76645	1.8318	1.8758	1.76065	1.76015	1.8758	1.8758
1.875–8	UN	2A	1.8556	1.8727	1.79150	1.8379	1.8727	1.78380	1.78380	1.8727	1.8727
		3A	1.8549	1.8734	1.79125	1.8372	1.8734	1.78405	1.78355	1.8734	1.8734
			1.8579	1.8750	1.79380	1.8422	1.8750	1.78810	1.78810	1.8750	1.8750
			1.8572	1.8757	1.79355	1.8415	1.8757	1.78835	1.78785	1.8757	1.8757
1.875–12	UN	2A	1.8603	1.8732	1.81910	1.8492	1.8732	1.81310	1.81310	1.8732	1.8732
		3A	1.8597	1.8738	1.81885	1.8486	1.8738	1.81335	1.81285	1.8738	1.8738
			1.8621	1.8750	1.82090	1.8525	1.8750	1.81640	1.81640	1.8750	1.8750
			1.8615	1.8756	1.82065	1.8519	1.8756	1.81665	1.81615	1.8756	1.8756
1.875–16	UN	2A	1.8629	1.8734	1.83280	1.8546	1.8734	1.82750	1.82750	1.8734	1.8734
		3A	1.8623	1.8740	1.83255	1.8540	1.8740	1.82775	1.82725	1.8740	1.8740
			1.8645	1.8750	1.83440	1.8575	1.8750	1.83040	1.83040	1.8750	1.8750
			1.8639	1.8756	1.83415	1.8569	1.8756	1.83065	1.83015	1.8756	1.8756
1.875–20	UN	2A	1.8645	1.8735	1.8410	1.8579	1.8735	1.8362	1.8362	1.8735	1.8735
		3A	1.8640	1.8740	1.8408	1.8574	1.8740	1.8364	1.8360	1.8740	1.8740
			1.8660	1.8750	1.8425	1.8606	1.8750	1.8389	1.8389	1.8750	1.8750
			1.8655	1.8755	1.8423	1.8601	1.8755	1.8391	1.8387	1.8755	1.8755
1.9375–6	UN	2A	1.9139	1.9349	1.82660	1.8903	1.9349	1.81810	1.81810	1.9349	1.9349
		3A	1.9131	1.9357	1.82635	1.8895	1.9357	1.81835	1.81785	1.9357	1.9357
			1.9165	1.9375	1.82920	1.8950	1.9375	1.82280	1.82280	1.9375	1.9375
			1.9157	1.9383	1.82895	1.8942	1.9383	1.82305	1.82255	1.9383	1.9383

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
1.9375–8	UN	2A	1.9181	1.9352	1.85400	1.9004	1.9352	1.84630	1.84630	1.9352	1.9352
		3A	1.9174	1.9359	1.85375	1.8997	1.9359	1.84655	1.84605	1.9359	1.9359
			1.9204	1.9375	1.85630	1.9046	1.9375	1.85050	1.85050	1.9375	1.9375
			1.9197	1.9382	1.85605	1.9039	1.9382	1.85075	1.85025	1.9382	1.9382
1.9375–12	UN	2A	1.9228	1.9357	1.88160	1.9116	1.9357	1.87550	1.87550	1.9357	1.9357
		3A	1.9222	1.9363	1.88135	1.9110	1.9363	1.87575	1.87525	1.9363	1.9363
			1.9246	1.9375	1.88340	1.9150	1.9375	1.87890	1.87890	1.9375	1.9375
			1.9240	1.9381	1.88315	1.9144	1.9381	1.87915	1.87865	1.9381	1.9381
1.9375–16	UN	2A	1.9254	1.9359	1.89530	1.9170	1.9359	1.88990	1.88990	1.9359	1.9359
		3A	1.9248	1.9365	1.89505	1.9164	1.9365	1.89015	1.88965	1.9365	1.9365
			1.9270	1.9375	1.89690	1.9200	1.9375	1.89290	1.89290	1.9375	1.9375
			1.9264	1.9381	1.89665	1.9194	1.9381	1.89315	1.89265	1.9381	1.9381
1.9375–20	UN	2A	1.9270	1.9360	1.9035	1.9203	1.9360	1.8986	1.8986	1.9360	1.9360
		3A	1.9265	1.9365	1.9033	1.9198	1.9365	1.8988	1.8984	1.9365	1.9365
			1.9285	1.9375	1.9050	1.9230	1.9375	1.9013	1.9013	1.9375	1.9375
			1.9280	1.9380	1.9048	1.9225	1.9380	1.9015	1.9011	1.9380	1.9380
2.000–4.5	UNC	1A	1.9713	1.9971	1.85280	1.9347	1.9971	1.83850	1.83850	1.9971	1.9971
		2A	1.9705	1.9979	1.85255	1.9339	1.9979	1.83875	1.83825	1.9979	1.9979
		3A	1.9713	1.9971	1.85280	1.9395	1.9971	1.84330	1.84330	1.9971	1.9971
			1.9705	1.9979	1.85255	1.9387	1.9979	1.84355	1.84305	1.9979	1.9979
			1.9742	2.0000	1.85570	1.9448	2.0000	1.84860	1.84860	2.0000	2.0000
			1.9734	2.0008	1.85545	1.9440	2.0008	1.84885	1.84835	2.0008	2.0008
2.000–6	UN	2A	1.9764	1.9974	1.88910	1.9527	1.9974	1.88050	1.88050	1.9974	1.9974
		3A	1.9756	1.9982	1.88885	1.9519	1.9982	1.88075	1.88025	1.9982	1.9982
			1.9790	2.0000	1.89170	1.9575	2.0000	1.88530	1.88530	2.0000	2.0000
			1.9782	2.0008	1.89145	1.9567	2.0008	1.88555	1.88505	2.0008	2.0008
2.000–8	UN	2A	1.9806	1.9977	1.91650	1.9628	1.9977	1.90870	1.90870	1.9977	1.9977
		3A	1.9799	1.9984	1.91625	1.9621	1.9984	1.90895	1.90845	1.9984	1.9984
			1.9829	2.0000	1.91880	1.9671	2.0000	1.91300	1.91300	2.0000	2.0000
			1.9822	2.0007	1.91855	1.9664	2.0007	1.91325	1.91275	2.0007	2.0007
2.000–12	UN	2A	1.9853	1.9982	1.94410	1.9741	1.9982	1.93800	1.93800	1.9982	1.9982
		3A	1.9847	1.9988	1.94385	1.9735	1.9988	1.93825	1.93775	1.9988	1.9988
			1.9871	2.0000	1.94500	1.9775	2.0000	1.94140	1.94140	2.0000	2.0000
			1.9865	2.0006	1.94565	1.9769	2.0006	1.94165	1.94115	2.0006	2.0006
2.000–16	UN	2A	1.9879	1.9984	1.95780	1.9795	1.9984	1.95240	1.95240	1.9984	1.9984
		3A	1.9873	1.9990	1.95755	1.9789	1.9990	1.95265	1.95215	1.9990	1.9990
			1.9895	2.0000	1.95940	1.9825	2.0000	1.95540	1.95540	2.0000	2.0000
			1.9889	2.0006	1.95915	1.9819	2.0006	1.95565	1.95515	2.0006	2.0006
2.000–20	UN	2A	1.9895	1.9985	1.9660	1.9828	1.9985	1.9611	1.9611	1.9985	1.9985
		3A	1.9890	1.9990	1.9658	1.9823	1.9990	1.9613	1.9609	1.9990	1.9990
			1.9910	2.0000	1.9675	1.9855	2.0000	1.9638	1.9638	2.0000	2.0000
			1.9905	2.0005	1.9673	1.9850	2.0005	1.9640	1.9636	2.0005	2.0005
2.125–6	UN	2A	2.1014	2.1224	2.01410	2.0776	2.1224	2.00540	2.00540	2.1224	2.1224
		3A	2.1006	2.1232	2.01385	2.0768	2.1232	2.00565	2.00515	2.1232	2.1232
			2.1040	2.1250	2.01670	2.0824	2.1250	2.01020	2.01020	2.1250	2.1250
			2.1032	2.1258	2.01645	2.0816	2.1258	2.01045	2.00995	2.1258	2.1258
2.125–8	UN	2A	2.1055	2.1226	2.04140	2.0876	2.1226	2.03350	2.03350	2.1226	2.1226
		3A	2.1048	2.1233	2.04115	2.0869	2.1233	2.03375	2.03325	2.1233	2.1233
			2.1079	2.1250	2.04380	2.0920	2.1250	2.03790	2.03790	2.1250	2.1250
			2.1072	2.1257	2.04355	2.0913	2.1257	2.03815	2.03765	2.1257	2.1257
2.125–12	UN	2A	2.1103	2.1232	2.06910	2.0991	2.1232	2.06300	2.06300	2.1232	2.1232
		3A	2.1097	2.1238	2.06885	2.0985	2.1238	2.06325	2.06275	2.1238	2.1238
			2.1121	2.1250	2.07090	2.1025	2.1250	2.06640	2.06640	2.1250	2.1250
			2.1115	2.1256	2.07065	2.1019	2.1256	2.06665	2.06615	2.1256	2.1256
2.125–16	UN	2A	2.1129	2.1234	2.08280	2.1045	2.1234	2.07740	2.07740	2.1234	2.1234
		3A	2.1123	2.1240	2.08255	2.1039	2.1240	2.07765	2.07715	2.1240	2.1240
			2.1145	2.1250	2.08440	2.1075	2.1250	2.08040	2.08040	2.1250	2.1250
			2.1139	2.1256	2.08415	2.1069	2.1256	2.08065	2.08015	2.1256	2.1256
2.125–20	UN	2A	2.1145	2.1235	2.0910	2.1078	2.1235	2.0861	2.0861	2.1235	2.1235
		3A	2.1140	2.1240	2.0908	2.1073	2.1240	2.0863	2.0859	2.1240	2.1240
			2.1160	2.1250	2.0925	2.1105	2.1250	2.0888	2.0888	2.1250	2.1250
			2.1155	2.1255	2.0923	2.1100	2.1255	2.0890	2.0886	2.1255	2.1255

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
		1A	2.2213	2.2471	2.10280	2.1844	2.2471	2.08820	2.08820	2.2471	2.2471
			2.2205	2.2479	2.10255	2.1836	2.2479	2.08845	2.08795	2.2479	2.2479
2.250–4.5	UNC	2A	2.2213	2.2471	2.10280	2.1893	2.2471	2.09310	2.09310	2.2471	2.2471
			2.2205	2.2479	2.10255	2.1885	2.2479	2.09335	2.09285	2.2479	2.2479
		3A	2.2242	2.2500	2.10570	2.1946	2.2500	2.09840	2.09840	2.2500	2.2500
			2.2234	2.2508	2.10545	2.1938	2.2508	2.09865	2.09815	2.2508	2.2508
		2A	2.2264	2.2474	2.13910	2.2025	2.2474	2.13030	2.13030	2.2474	2.2474
2.250–6	UN		2.2256	2.2482	2.13885	2.2017	2.2482	2.13055	2.13005	2.2482	2.2482
		3A	2.2290	2.2500	2.14170	2.2073	2.2500	2.13510	2.13510	2.2500	2.2500
			2.2282	2.2508	2.14145	2.2065	2.2508	2.13535	2.13485	2.2508	2.2508
		2A	2.2305	2.2476	2.16640	2.2125	2.2476	2.15840	2.15840	2.2476	2.2476
2.250–8	UN		2.2298	2.2483	2.16615	2.2118	2.2483	2.15865	2.15815	2.2483	2.2483
		3A	2.2329	2.2500	2.16880	2.2169	2.2500	2.16280	2.16280	2.2500	2.2500
			2.2322	2.2507	2.16855	2.2162	2.2507	2.16305	2.16255	2.2507	2.2507
		2A	2.2353	2.2482	2.19410	2.2241	2.2482	2.18800	2.18800	2.2482	2.2482
2.250–12	UN		2.2347	2.2488	2.19385	2.2235	2.2488	2.18825	2.18775	2.2488	2.2488
		3A	2.2371	2.2500	2.19590	2.2275	2.2500	2.19140	2.19140	2.2500	2.2500
			2.2365	2.2506	2.19565	2.2269	2.2506	2.19165	2.19115	2.2506	2.2506
		2A	2.2379	2.2484	2.20780	2.2295	2.2484	2.20240	2.20240	2.2484	2.2484
2.250–16	UN		2.2373	2.2490	2.20755	2.2289	2.2490	2.20265	2.20215	2.2490	2.2490
		3A	2.2395	2.2500	2.20940	2.2325	2.2500	2.20540	2.20540	2.2500	2.2500
			2.2389	2.2506	2.20915	2.2319	2.2506	2.20565	2.20515	2.2506	2.2506
		2A	2.2395	2.2485	2.2160	2.2328	2.2485	2.2111	2.2111	2.2485	2.2485
2.250–20	UN		2.2390	2.2490	2.2158	2.2323	2.2490	2.2113	2.2109	2.2490	2.2490
		3A	2.2410	2.2500	2.2175	2.2355	2.2500	2.2138	2.2138	2.2500	2.2500
			2.2405	2.2505	2.2173	2.2350	2.2505	2.2140	2.2136	2.2505	2.2505
		2A	2.3513	2.3723	2.26400	2.3273	2.3723	2.25510	2.25510	2.3723	2.3723
2.375–6	UN		2.3505	2.3731	2.26375	2.3265	2.3731	2.25535	2.25485	2.3731	2.3731
		3A	2.3540	2.3750	2.26670	2.3323	2.3750	2.26010	2.26010	2.3750	2.3750
			2.3532	2.3758	2.26645	2.3315	2.3758	2.26035	2.25985	2.3758	2.3758
		2A	2.3555	2.3726	2.29140	2.3374	2.3726	2.28330	2.28330	2.3726	2.3726
2.375–8	UN		2.3548	2.3733	2.29115	2.3367	2.3733	2.28355	2.28305	2.3733	2.3733
		3A	2.3579	2.3750	2.29380	2.3419	2.3750	2.28780	2.28780	2.3750	2.3750
			2.3572	2.3757	2.29355	2.3412	2.3757	2.28805	2.28755	2.3757	2.3757
		2A	2.3602	2.3731	2.31900	2.3489	2.3731	2.31280	2.31280	2.3731	2.3731
2.375–12	UN		2.3596	2.3737	2.31875	2.3483	2.3737	2.31305	2.31255	2.3737	2.3737
		3A	2.3621	2.3750	2.32090	2.3524	2.3750	2.31630	2.31630	2.3750	2.3750
			2.3615	2.3756	2.32065	2.3518	2.3756	2.31655	2.31605	2.3756	2.3756
		2A	2.3628	2.3733	2.33270	2.3543	2.3733	2.32720	2.32720	2.3733	2.3733
2.375–16	UN		2.3622	2.3739	2.33245	2.3537	2.3739	2.32745	2.32695	2.3739	2.3739
		3A	2.3645	2.3750	2.33440	2.3574	2.3750	2.33030	2.33030	2.3750	2.3750
			2.3639	2.3756	2.33415	2.3568	2.3756	2.33055	2.33005	2.3756	2.3756
		2A	2.3645	2.3735	2.3410	2.3576	2.3734	2.3359	2.3359	2.3735	2.3734
2.375–20	UN		2.3640	2.3740	2.3408	2.3571	2.3739	2.3361	2.3357	2.3740	2.3739
		3A	2.3660	2.3750	2.3425	2.3604	2.3750	2.3387	2.3387	2.3750	2.3750
			2.3655	2.3755	2.3423	2.3599	2.3755	2.3389	2.3385	2.3755	2.3755
		1A	2.4688	2.4969	2.33450	2.4273	2.4969	2.31900	2.31900	2.4969	2.4969
			2.4679	2.4978	2.33425	2.4264	2.4978	2.31925	2.31875	2.4978	2.4978
2.500–4	UNC	2A	2.4688	2.4969	2.33450	2.4324	2.4969	2.32410	2.32410	2.4969	2.4969
			2.4679	2.4978	2.33425	2.4315	2.4978	2.32435	2.32385	2.4978	2.4978
		3A	2.4719	2.5000	2.33760	2.4381	2.5000	2.32980	2.32980	2.5000	2.5000
			2.4710	2.5009	2.33735	2.4372	2.5009	2.33005	2.32955	2.5009	2.5009
		2A	2.4763	2.4973	2.38900	2.4522	2.4973	2.38000	2.38000	2.4973	2.4973
2.500–6	UN		2.4755	2.4981	2.38875	2.4514	2.4981	2.38025	2.37975	2.4981	2.4981
		3A	2.4790	2.5000	2.39170	2.4572	2.5000	2.38500	2.38500	2.5000	2.5000
			2.4782	2.5008	2.39145	2.4564	2.5008	2.38525	2.38475	2.5008	2.5008
		2A	2.4805	2.4976	2.41640	2.4623	2.4976	2.40820	2.40820	2.4976	2.4976
2.500–8	UN		2.4798	2.4983	2.41615	2.4616	2.4983	2.40845	2.40795	2.4983	2.4983
		3A	2.4829	2.5000	2.41880	2.4668	2.5000	2.41270	2.41270	2.5000	2.5000
			2.4822	2.5007	2.41855	2.4661	2.5007	2.41295	2.41245	2.5007	2.5007
		2A	2.4852	2.4981	2.44400	2.4739	2.4981	2.43780	2.43780	2.4981	2.4981
2.500–12	UN		2.4846	2.4987	2.44375	2.4733	2.4987	2.43805	2.43755	2.4987	2.4987
		3A	2.4871	2.5000	2.44590	2.4774	2.5000	2.44130	2.44130	2.5000	2.5000
			2.4865	2.5006	2.44565	2.4768	2.5006	2.44155	2.44105	2.5006	2.5006

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
2.500–16	UN	2A	2.4878	2.4983	2.45770	2.4793	2.4983	2.45220	2.45220	2.4983	2.4983
		3A	2.4872	2.4989	2.45745	2.4787	2.4989	2.45245	2.45195	2.4989	2.4989
			2.4895	2.5000	2.45940	2.4824	2.5000	2.45530	2.45530	2.5000	2.5000
			2.4889	2.5006	2.45915	2.4818	2.5006	2.45555	2.45505	2.5006	2.5006
2.500–20	UN	2A	2.4895	2.4985	2.4660	2.4826	2.4984	2.4609	2.4609	2.4985	2.4984
		3A	2.4890	2.4990	2.4658	2.4821	2.4989	2.4611	2.4607	2.4990	2.4989
			2.4910	2.5000	2.4675	2.4854	2.5000	2.4637	2.4637	2.5000	2.5000
			2.4905	2.5005	2.4673	2.4849	2.5005	2.4639	2.4635	2.5005	2.5005
2.625–6	UN	2A	2.6013	2.6223	2.51400	2.5772	2.6223	2.50500	2.50500	2.6223	2.6223
		3A	2.6005	2.6231	2.51375	2.5764	2.6231	2.50525	2.50475	2.6231	2.6231
			2.6040	2.6250	2.51670	2.5821	2.6250	2.50990	2.50990	2.6250	2.6250
			2.6032	2.6258	2.51645	2.5813	2.6258	2.51015	2.50965	2.6258	2.6258
2.625–8	UN	2A	2.6054	2.6225	2.54130	2.5872	2.6225	2.53310	2.53310	2.6225	2.6225
		3A	2.6047	2.6232	2.54105	2.5865	2.6232	2.53335	2.53285	2.6232	2.6232
			2.6079	2.6250	2.54380	2.5917	2.6250	2.53760	2.53760	2.6250	2.6250
			2.6072	2.6257	2.54355	2.5910	2.6257	2.53785	2.53735	2.6257	2.6257
2.625–12	UN	2A	2.6102	2.6231	2.56900	2.5989	2.6231	2.56280	2.56280	2.6231	2.6231
		3A	2.6096	2.6237	2.56875	2.5983	2.6237	2.56305	2.56255	2.6237	2.6237
			2.6121	2.6250	2.57090	2.6024	2.6250	2.56630	2.56630	2.6250	2.6250
			2.6115	2.6256	2.57065	2.6018	2.6256	2.56655	2.56605	2.6256	2.6256
2.625–16	UN	2A	2.6128	2.6233	2.58270	2.6043	2.6233	2.57720	2.57720	2.6233	2.6233
		3A	2.6122	2.6239	2.58245	2.6037	2.6239	2.57745	2.57695	2.6239	2.6239
			2.6145	2.6250	2.58440	2.6074	2.6250	2.58030	2.58030	2.6250	2.6250
			2.6139	2.6256	2.58415	2.6068	2.6256	2.58055	2.58005	2.6256	2.6256
2.625–20	UN	2 A	2.6145	2.6235	2.5910	2.6076	2.6234	2.5859	2.5859	2.6235	2.6234
		3A	2.6140	2.6240	2.5008	2.6071	2.6239	2.5861	2.5857	2.6240	2.6239
			2.6160	2.6250	2.5925	2.6104	2.6250	2.5887	2.5887	2.6250	2.6250
			2.6155	2.6255	2.5923	2.6099	2.6255	2.5889	2.5885	2.6255	2.6255
2.750–4	UNC	1A	2.7187	2.7468	2.58440	2.6769	2.7468	2.56860	2.56860	2.7468	2.7468
		2A	2.7178	2.7477	2.58415	2.6760	2.7477	2.56885	2.56835	2.7477	2.7477
		3A	2.7187	2.7468	2.58440	2.6822	2.7468	2.57390	2.57390	2.7468	2.7468
			2.7178	2.7477	2.58415	2.6813	2.7477	2.57415	2.57365	2.7477	2.4777
			2.7219	2.7500	2.58760	2.6880	2.7500	2.57970	2.57970	2.7500	2.7500
			2.7210	2.7509	2.58735	2.6871	2.7509	2.57995	2.57945	2.7509	2.7509
2.750–6	UN	2A	2.7263	2.7473	2.63900	2.7021	2.7473	2.62990	2.62990	2.7473	2.7473
		3A	2.7255	2.7481	2.63875	2.7013	2.7481	2.63015	2.62965	2.7481	2.7481
			2.7290	2.7500	2.64170	2.7071	2.7500	2.63490	2.63490	2.7500	2.7500
			2.7282	2.7508	2.64145	2.7063	2.7508	2.63515	2.63465	2.7508	2.7508
2.750–8	UN	2A	2.7304	2.7475	2.66630	2.7121	2.7475	2.65800	2.65800	2.7475	2.7475
		3A	2.7297	2.7482	2.66605	2.7114	2.7482	2.65825	2.65775	2.7482	2.7482
			2.7329	2.7500	2.66880	2.7167	2.7500	2.66250	2.66250	2.7500	2.7500
			2.7322	2.7507	2.66855	2.7160	2.7507	2.66275	2.66225	2.7507	2.7507
2.750–12	UN	2A	2.7352	2.7481	2.69400	2.7239	2.7481	2.68780	2.68780	2.7481	2.7481
		3A	2.7346	2.7487	2.69375	2.7233	2.7487	2.68805	2.68755	2.7487	2.7487
			2.7371	2.7500	2.69590	2.7274	2.7500	2.69130	2.69130	2.7500	2.7500
			2.7365	2.7506	2.69565	2.7268	2.7506	2.69155	2.69105	2.7506	2.7506
2.750–16	UN	2A	2.7378	2.7483	2.70770	2.7293	2.7483	2.70220	2.70220	2.7483	2.7483
		3A	2.7372	2.7489	2.70745	2.7287	2.7489	2.70245	2.70195	2.7489	2.7489
			2.7395	2.7500	2.70940	2.7324	2.7500	2.70530	2.70530	2.7500	2.7500
			2.7389	2.7506	2.70915	2.7318	2.7506	2.70555	2.70505	2.7506	2.7506
2.750–20	UN	2A	2.7395	2.7485	2.7160	2.7326	2.7484	2.7109	2.7109	2.7485	2.7484
		3A	2.7390	2.7490	2.7158	2.7321	2.7489	2.7111	2.7107	2.7490	2.7489
			2.7410	2.7500	2.7175	2.7354	2.7500	2.7137	2.7137	2.7500	2.7500
			2.7405	2.7505	2.7173	2.7349	2.7505	2.7139	2.7135	2.7505	2.7505
2.875–6	UN	2A	2.8512	2.8722	2.76390	2.8269	2.8722	2.75470	2.75470	2.8722	2.8722
		3A	2.8504	2.8730	2.76365	2.8261	2.8730	2.75495	2.75445	2.8730	2.8730
			2.8540	2.8750	2.76670	2.8320	2.8750	2.75980	2.75980	2.8750	2.8750
			2.8532	2.8758	2.76645	2.8312	2.8758	2.76005	2.75955	2.8758	2.8758
2.875–8	UN	2A	2.8554	2.8725	2.79130	2.8370	2.8725	2.78290	2.78290	2.8725	2.8725
		3A	2.8547	2.8732	2.79105	2.8363	2.8732	2.78315	2.78265	2.8732	2.8732
			2.8579	2.8750	2.79380	2.8416	2.8750	2.78750	2.78750	2.8750	2.8750
			2.8572	2.8757	2.79355	2.8409	2.8757	2.78775	2.78725	2.8757	2.8757
2.875–12	UN	2A	2.8602	2.8731	2.81900	2.8488	2.8731	2.81270	2.81270	2.8731	2.8731
		3A	2.8596	2.8737	2.81875	2.8482	2.8737	2.81295	2.81245	2.8737	2.8737
			2.8621	2.8750	2.82090	2.8523	2.8750	2.81620	2.81620	2.8750	2.8750
			2.8615	2.8756	2.82065	2.8517	2.8756	2.81645	2.81595	2.8756	2.8756

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
2.875–16	UN	2A	2.8628	2.8733	2.83270	2.8542	2.8733	2.82710	2.82710	2.8733	2.8733
		3A	2.8622	2.8739	2.83245	2.8536	2.8739	2.82735	2.82685	2.8739	2.8739
			2.8645	2.8750	2.83440	2.8573	2.8750	2.83020	2.83020	2.8750	2.8750
			2.8639	2.8756	2.83415	2.8567	2.8756	2.83045	2.82995	2.8756	2.8756
2.875–20	UN	2A	2.8644	2.8734	2.8409	2.8574	2.8732	2.8357	2.8357	2.8734	2.8732
		3A	2.8639	2.8739	2.8407	2.8569	2.8737	2.8359	2.8355	2.8739	2.8737
			2.8660	2.8750	2.8425	2.8603	2.8750	2.8386	2.8386	2.8750	2.8750
			2.8655	2.8755	2.8423	2.8598	2.8755	2.8388	2.8384	2.8755	2.8755
3.000–4	UNC	1A	2.9687	2.9968	2.83440	2.9266	2.9968	2.81830	2.81830	2.9968	2.9968
			2.9678	2.9977	2.83415	2.9257	2.9977	2.81855	2.81805	2.9977	2.9977
		2A	2.9687	2.9968	2.83440	2.9320	2.9968	2.82370	2.82370	2.9968	2.9968
			2.9678	2.9977	2.83415	2.9311	2.9977	2.82395	2.82345	2.9977	2.9977
		3A	2.9719	3.0000	2.83760	2.9379	3.0000	2.82960	2.82960	3.0000	3.0000
			2.9710	3.0009	2.83735	2.9370	3.0009	2.82985	2.82935	3.0009	3.0009
3.000–6	UN	2A	2.9762	2.9972	2.88890	2.9518	2.9972	2.87960	2.87960	2.9972	2.9972
			2.9754	2.9980	2.88865	2.9510	2.9980	2.87985	2.87935	2.9980	2.9980
		3A	2.9790	3.0000	2.89170	2.9569	3.0000	2.88470	2.88470	3.0000	3.0000
			2.9782	3.0008	2.89145	2.9561	3.0008	2.88495	2.88445	3.0008	3.0008
3.000–8	UN	2A	2.9803	2.9974	2.91620	2.9618	2.9974	2.90770	2.90770	2.9974	2.9974
			2.9796	2.9981	2.91595	2.9611	2.9981	2.90795	2.90745	2.9981	2.9981
		3A	2.9829	3.0000	2.91880	2.9665	3.0000	2.91240	2.91240	3.0000	3.0000
			2.9822	3.0007	2.91855	2.9658	3.0007	2.91265	2.91215	3.0007	3.0007
3.000–12	UN	2A	2.9852	2.9981	2.94400	2.9738	2.9981	2.93770	2.93770	2.9981	2.9981
			2.9846	2.9987	2.94375	2.9732	2.9987	2.93795	2.93745	2.9987	2.9987
		3A	2.9871	3.0000	2.94590	2.9773	3.0000	2.94120	2.94120	3.0000	3.0000
			2.9865	3.0006	2.94565	2.9767	3.0006	2.94145	2.94095	3.0006	3.0006
3.000–16	UN	2A	2.9878	2.9983	2.95770	2.9792	2.9983	2.95210	2.95210	2.9983	2.9983
			2.9872	2.9989	2.95745	2.9786	2.9989	2.95235	2.95185	2.9989	2.9989
		3A	2.9895	3.0000	2.95940	2.9823	3.0000	2.95520	2.95520	3.0000	3.0000
			2.9889	3.0006	2.95915	2.9817	3.0006	2.95545	2.95495	3.0006	3.0006
3.000–20	UN	2A	2.9894	2.9984	2.9659	2.9824	2.9982	2.9607	2.9607	2.9984	2.9982
			2.9889	2.9989	2.9657	2.9819	2.9987	2.9609	2.9605	2.9989	2.9987
		3A	2.9910	3.0000	2.9675	2.9853	3.0000	2.9636	2.9636	3.0000	3.0000
			2.9905	3.0005	2.9673	2.9848	3.0005	2.9638	2.9634	3.0005	3.0005
3.125–6	UN	2A	3.1012	3.1222	3.01390	3.0767	3.1222	3.00450	3.00450	3.1222	3.1222
			3.1004	3.1230	3.01365	3.0759	3.1230	3.00475	3.00425	3.1230	3.1230
		3A	3.1040	3.1250	3.01670	3.0819	3.1250	3.00970	3.00970	3.1250	3.1250
			3.1032	3.1258	3.01645	3.0811	3.1258	3.00995	3.00945	3.1258	3.1258
3.125–8	UN	2A	3.1053	3.1224	3.04120	3.0867	3.1224	3.03260	3.03260	3.1224	3.1224
			3.1046	3.1231	3.04095	3.0860	3.1231	3.03285	3.03235	3.1231	3.1231
		3A	3.1079	3.1250	3.04380	3.0915	3.1250	3.03740	3.03740	3.1250	3.1250
			3.1072	3.1257	3.04355	3.0908	3.1257	3.03765	3.03715	3.1257	3.1257
3.125–12	UN	2A	3.1102	3.1231	3.06900	3.0988	3.1231	3.06270	3.06270	3.1231	3.1231
			3.1096	3.1237	3.06875	3.0982	3.1237	3.06295	3.06245	3.1237	3.1237
		3A	3.1121	3.1250	3.07090	3.1023	3.1250	3.06620	3.06620	3.1250	3.1250
			3.1115	3.1256	3.07065	3.1017	3.1256	3.06645	3.06595	3.1256	3.1256
3.125–16	UN	2A	3.1128	3.1233	3.08270	3.1042	3.1233	3.07710	3.07710	3.1233	3.1233
			3.1122	3.1239	3.08245	3.1036	3.1239	3.07735	3.07685	3.1239	3.1239
		3A	3.1145	3.1250	3.08440	3.1073	3.1250	3.08020	3.08020	3.1250	3.1250
			3.1139	3.1256	3.08415	3.1067	3.1256	3.08045	3.07995	3.1256	3.1256
3.250–4	UNC	1A	3.2186	3.2467	3.08340	3.1763	3.2467	3.06800	3.06800	3.2467	3.2467
			3.2177	3.2476	3.08405	3.1754	3.2476	3.06825	3.06775	3.2476	3.2476
		2A	3.2186	3.2467	3.08430	3.1817	3.2467	3.07340	3.07340	3.2467	3.2467
			3.2177	3.2476	3.08405	3.1808	3.2476	3.07365	3.07315	3.2476	3.2476
		3A	3.2219	3.2500	3.08760	3.1877	3.2500	3.07940	3.07940	3.2500	3.2500
			3.2210	3.2509	3.08735	3.1868	3.2509	3.07965	3.07915	3.2509	3.2509
3.250–6	UN	2A	3.2262	3.2472	3.13890	3.2016	3.2472	3.12940	3.12940	3.2472	3.2472
			3.2254	3.2480	3.13865	3.2008	3.2480	3.12965	3.12915	3.2480	3.2480
		3A	3.2290	3.2500	3.14170	3.2068	3.2500	3.13460	3.13460	3.2500	3.2500
			3.2282	3.2508	3.14145	3.2060	3.2508	3.13485	3.13435	3.2508	3.2508
3.250–8	UN	2A	3.2303	3.2474	3.16620	3.2116	3.2474	3.15750	3.15750	3.2474	3.2474
			3.2296	3.2481	3.16595	3.2109	3.2481	3.15775	3.15725	3.2481	3.2481
		3A	3.2329	3.2500	3.16880	3.2164	3.2500	3.16230	3.16230	3.2500	3.2500
			3.2322	3.2507	3.16855	3.2157	3.2507	3.16255	3.16205	3.2507	3.2507
3.250–12	UN	2A	3.2352	3.2481	3.19400	3.2238	3.2481	3.18770	3.18770	3.2481	3.2481
			3.2346	3.2487	3.19375	3.2232	3.2487	3.18795	3.18745	3.2487	3.2487
		3A	3.2371	3.2500	3.19590	3.2273	3.2500	3.19120	3.19120	3.2500	3.2500
			3.2365	3.2506	3.19565	3.2267	3.2506	3.19145	3.19095	3.2506	3.2506

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
3.250–16	UN	2A	3.2378	3.2483	3.20770	3.2292	3.2483	3.20210	3.20210	3.2483	3.2483
		3A	3.2372	3.2489	3.20745	3.2286	3.2489	3.20235	3.20185	3.2489	3.2489
			3.2395	3.2500	3.20940	3.2323	3.2500	3.20520	3.20520	3.2500	3.2500
			3.2389	3.2506	3.20915	3.2317	3.2506	3.20545	3.20495	3.2506	3.2506
3.375–6	UN	2A	3.3511	3.3721	3.26380	3.3265	3.3721	3.25430	3.25430	3.3721	3.3721
		3A	3.3503	3.3729	3.26355	3.3257	3.3729	3.25455	3.25405	3.3729	3.3729
			3.3540	3.3750	3.26670	3.3317	3.3750	3.25950	3.25950	3.3750	3.3750
			3.3532	3.3758	3.26645	3.3309	3.3758	3.25975	3.25925	3.3758	3.3758
3.375–8	UN	2A	3.3553	3.3724	3.29120	3.3365	3.3724	3.28240	3.28240	3.3724	3.3724
		3A	3.3546	3.3731	3.29095	3.3358	3.3731	3.28265	3.28215	3.3731	3.3731
			3.3579	3.3750	3.29380	3.3413	3.3750	3.28720	3.28720	3.3750	3.3750
			3.3572	3.3757	3.29355	3.3406	3.3757	3.28745	3.28695	3.3757	3.3757
3.375–12	UN	2A	3.3602	3.3731	3.31900	3.3487	3.3731	3.31260	3.31260	3.3731	3.3731
		3A	3.3596	3.3737	3.31875	3.3481	3.3737	3.31285	3.31235	3.3737	3.3737
			3.3621	3.3750	3.32090	3.3522	3.3750	3.31610	3.31610	3.3750	3.3750
			3.3615	3.3756	3.32065	3.3516	3.3756	3.31635	3.31585	3.3756	3.3756
3.375–16	UN	2A	3.3628	3.3733	3.33270	3.3540	3.3733	3.32690	3.32690	3.3733	3.3733
		3A	3.3622	3.3739	3.33245	3.3534	3.3739	3.32715	3.32665	3.3739	3.3739
			3.3645	3.3750	3.33440	3.3572	3.3750	3.33010	3.33010	3.3750	3.3750
			3.3639	3.3756	3.33415	3.3566	3.3756	3.33035	3.32985	3.3756	3.3756
3.500–4	UNC	1A	3.4686	3.4967	3.33430	3.4260	3.4967	3.31770	3.31770	3.4967	3.4967
		2A	3.4677	3.4976	3.33405	3.4251	3.4976	3.31795	3.31745	3.4976	3.4976
		3A	3.4686	3.4967	3.33430	3.4316	3.4967	3.32330	3.32330	3.4967	3.4967
			3.4677	3.4976	3.33405	3.4307	3.4976	3.32355	3.32305	3.4976	3.4976
			3.4719	3.5000	3.33760	3.4376	3.5000	3.32930	3.32930	3.5000	3.5000
			3.4710	3.5009	3.33735	3.4367	3.5009	3.32955	3.32905	3.5009	3.5009
3.500–6	UN	2A	3.4761	3.4971	3.38880	3.4514	3.4971	3.37920	3.37920	3.4971	3.4971
		3A	3.4753	3.4979	3.38855	3.4506	3.4979	3.37945	3.37895	3.4979	3.4979
			3.4790	3.5000	3.39170	3.4567	3.5000	3.38450	3.38450	3.5000	3.5000
			3.4782	3.5008	3.39145	3.4559	3.5008	3.38475	3.38425	3.5008	3.5008
3.500–8	UN	2A	3.4803	3.4974	3.41620	3.4615	3.4974	3.40740	3.40740	3.4974	3.4974
		3A	3.4796	3.4981	3.41595	3.4608	3.4981	3.40765	3.40715	3.4981	3.4981
			3.4829	3.5000	3.41880	3.4663	3.5000	3.41220	3.41220	3.5000	3.5000
			3.4822	3.5007	3.41855	3.4656	3.5007	3.41245	3.41195	3.5007	3.5007
3.500–12	UN	2A	3.4852	3.4981	3.44400	3.4737	3.4981	3.43760	3.43760	3.4981	3.4981
		3A	3.4846	3.4987	3.44375	3.4731	3.4987	3.43785	3.43735	3.4987	3.4987
			3.4871	3.5000	3.44590	3.4772	3.5000	3.44110	3.44110	3.5000	3.5000
			3.4865	3.5006	3.44565	3.4766	3.5006	3.44135	3.44085	3.5006	3.5006
3.500–16	UN	2A	3.4878	3.4983	3.45770	3.4790	3.4983	3.45190	3.45190	3.4983	3.4983
		3A	3.4872	3.4989	3.45745	3.4784	3.4989	3.45215	3.45165	3.4989	3.4989
			3.4895	3.5000	3.45940	3.4822	3.5000	3.45510	3.45510	3.5000	3.5000
			3.4889	3.5006	3.45915	3.4816	3.5006	3.45535	3.45485	3.5006	3.5006
3.625–6	UN	2A	3.6011	3.6221	3.51380	3.5763	3.6221	3.50410	3.50410	3.6221	3.6221
		3A	3.6003	3.6229	3.51355	3.5755	3.6229	3.50435	3.50385	3.6229	3.6229
			3.6040	3.6250	3.51670	3.5816	3.6250	3.50940	3.50940	3.6250	3.6250
			3.6032	3.6258	3.51645	3.5808	3.6258	3.50965	3.50915	3.6258	3.6258
3.625–8	UN	2A	3.6052	3.6223	3.54110	3.5863	3.6223	3.53220	3.53220	3.6223	3.6223
		3A	3.6045	3.6230	3.54085	3.5856	3.6230	3.53245	3.53195	3.6230	3.6230
			3.6079	3.6250	3.54380	3.5912	3.6250	3.53710	3.53710	3.6250	3.6250
			3.6072	3.6257	3.54355	3.5905	3.6257	3.53735	3.53685	3.6257	3.6257
3.625–12	UN	2A	3.6102	3.6231	3.56900	3.5987	3.6231	3.56260	3.56260	3.6231	3.6231
		3A	3.6096	3.6237	3.56875	3.5981	3.6237	3.56285	3.56235	3.6237	3.6237
			3.6121	3.6250	3.57090	3.6022	3.6250	3.56610	3.56610	3.6250	3.6250
			3.6115	3.6256	3.57065	3.6016	3.6256	3.56635	3.56585	3.6256	3.6256
3.625–16	UN	2A	3.6128	3.6233	3.58270	3.6040	3.6233	3.57690	3.57690	3.6233	3.6233
		3A	3.6122	3.6239	3.58245	3.6034	3.6239	3.57715	3.57665	3.6239	3.6239
			3.6145	3.6250	3.58440	3.6072	3.6250	3.58010	3.58010	3.6250	3.6250
			3.6139	3.6256	3.58415	3.6066	3.6256	3.58035	3.57985	3.6256	3.6256
3.750–4	UNC	1A	3.7185	3.7466	3.58420	3.6757	3.7466	3.56740	3.56740	3.7466	3.7466
		2A	3.7176	3.7475	3.58395	3.6748	3.7475	3.56765	3.56715	3.7475	3.7475
		3A	3.7185	3.7466	3.58420	3.6813	3.7466	3.57300	3.57300	3.7466	3.7466
			3.7176	3.7475	3.58395	3.6804	3.7475	3.57325	3.57275	3.7475	3.7475
			3.7219	3.7500	3.58760	3.6875	3.7500	3.57920	3.57920	3.7500	3.7500
			3.7210	3.7509	3.58735	3.6866	3.7509	3.57945	3.57895	3.7509	3.7509

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
3.750–6	UN	2A	3.7261	3.7471	3.63880	3.7012	3.7471	3.62900	3.62900	3.7471	3.7471
			3.7253	3.7479	3.63855	3.7004	3.7479	3.62925	3.62875	3.7479	3.7479
		3A	3.7290	3.7500	3.64170	3.7066	3.7500	3.63440	3.63440	3.7500	3.7500
			3.7282	3.7508	3.64145	3.7058	3.7508	3.63465	3.63415	3.7508	3.7508
3.750–8	UN	2A	3.7302	3.7473	3.66610	3.7112	3.7473	3.65710	3.65710	3.7473	3.7473
			3.7295	3.7480	3.66585	3.7105	3.7480	3.65735	3.65685	3.7480	3.7480
		3A	3.7329	3.7500	3.66880	3.7162	3.7500	3.66210	3.66210	3.7500	3.7500
			3.7322	3.7507	3.66855	3.7155	3.7507	3.66235	3.66185	3.7507	3.7507
3.750–12	UN	2A	3.7352	3.7481	3.69400	3.7237	3.7481	3.68760	3.68760	3.7481	3.7481
			3.7346	3.7487	3.69375	3.7231	3.7487	3.68785	3.68735	3.7487	3.7487
		3A	3.7371	3.7500	3.69590	3.7272	3.7500	3.69110	3.69110	3.7500	3.7500
			3.7365	3.7506	3.69565	3.7266	3.7506	3.69135	3.69085	3.7506	3.7506
3.750–16	UN	2A	3.7378	3.7483	3.70770	3.7290	3.7483	3.70190	3.70190	3.7483	3.7483
			3.7372	3.7489	3.70745	3.7284	3.7489	3.70215	3.70165	3.7489	3.7489
		3A	3.7395	3.7500	3.70940	3.7322	3.7500	3.70510	3.70510	3.7500	3.7500
			3.7389	3.7506	3.70915	3.7316	3.7506	3.70535	3.70485	3.7506	3.7506
3.875–6	UN	2A	3.8510	3.8720	3.76370	3.8260	3.8720	3.75380	3.75380	3.8720	3.8720
			3.8502	3.8728	3.76345	3.8252	3.8728	3.75405	3.75355	3.8728	3.8728
		3A	3.8540	3.8750	3.76670	3.8315	3.8750	3.75930	3.75930	3.8750	3.8750
			3.8532	3.8758	3.76645	3.8307	3.8758	3.75955	3.75905	3.8758	3.8758
3.875–8	UN	2A	3.8552	3.8723	3.79110	3.8361	3.8723	3.78200	3.78200	3.8723	3.8723
			3.8545	3.8730	3.79085	3.8354	3.8730	3.78225	3.78175	3.8730	3.8730
		3A	3.8579	3.8750	3.79380	3.8411	3.8750	3.78700	3.78700	3.8750	3.8750
			3.8572	3.8757	3.79355	3.8404	3.8757	3.78725	3.78675	3.8757	3.8757
3.875–12	UN	2A	3.8601	3.8730	3.81890	3.8485	3.8730	3.81240	3.81240	3.8730	3.8730
			3.8595	3.8736	3.81865	3.8479	3.8736	3.81265	3.81215	3.8736	3.8736
		3A	3.8621	3.8750	3.82090	3.8521	3.8750	3.81600	3.81600	3.8750	3.8750
			3.8615	3.8756	3.82065	3.8515	3.8756	3.81625	3.81575	3.8756	3.8756
3.875–16	UN	2A	3.8627	3.8732	3.83260	3.8538	3.8732	3.82670	3.82670	3.8732	3.8732
			3.8621	3.8738	3.83235	3.8532	3.8738	3.82695	3.82645	3.8738	3.8738
		3A	3.8645	3.8750	3.83440	3.8571	3.8750	3.83000	3.83000	3.8750	3.8750
			3.8639	3.8756	3.83415	3.8565	3.8756	3.83025	3.82975	3.8756	3.8756
4.000–4	UNC	1A	3.9685	3.9966	3.83420	3.9255	3.9966	3.81720	3.81720	3.9966	3.9966
			3.9676	3.9975	3.83395	3.9246	3.9975	3.81745	3.81695	3.9975	3.9975
		2A	3.9685	3.9966	3.83420	3.9312	3.9966	3.82290	3.82290	3.9966	3.9966
			3.9676	3.9975	3.83395	3.9303	3.9975	3.82315	3.82265	3.9975	3.9975
		3A	3.9719	4.0000	3.83760	3.9374	4.0000	3.82910	3.82910	4.0000	4.0000
			3.9710	4.0009	3.83735	3.9365	4.0009	3.82935	3.82885	4.0009	4.0009
4.000–6	UN	2A	3.9760	3.9970	3.88870	3.9510	3.9970	3.87880	3.87880	3.9970	3.9970
			3.9752	3.9978	3.88845	3.9502	3.9978	3.87905	3.87855	3.9978	3.9978
		3A	3.9790	4.0000	3.89170	3.9565	4.0000	3.88430	3.88430	4.0000	4.0000
			3.9782	4.0008	3.89145	3.9557	4.0008	3.88455	3.88405	4.0008	4.0008
4.000–8	UN	2A	3.9802	3.9973	3.91610	3.9611	3.9973	3.90700	3.90700	3.9973	3.9973
			3.9795	3.9980	3.91585	3.9604	3.9980	3.90725	3.90675	3.9980	3.9980
		3A	3.9829	4.0000	3.91880	3.9661	4.0000	3.91200	3.91200	4.0000	4.0000
			3.9822	4.0007	3.91855	3.9654	4.0007	3.91225	3.91175	4.0007	4.0007
4.000–12	UN	2A	3.9851	3.9980	3.94390	3.9735	3.9980	3.93740	3.93740	3.9980	3.9980
			3.9845	3.9986	3.94365	3.9729	3.9986	3.93765	3.93715	3.9986	3.9986
		3A	3.9871	4.0000	3.94590	3.9771	4.0000	3.94100	3.94100	4.0000	4.0000
			3.9865	4.0006	3.94565	3.9765	4.0006	3.94125	3.94075	4.0006	4.0006
4.000–16	UN	2A	3.9877	3.9982	3.95760	3.9788	3.9982	3.95170	3.95170	3.9982	3.9982
			3.9871	3.9988	3.95735	3.9782	3.9988	3.95195	3.95145	3.9988	3.9988
		3A	3.9895	4.0000	3.95940	3.9821	4.0000	3.95500	3.95500	4.0000	4.0000
			3.9889	4.0006	3.95915	3.9815	4.0006	3.95525	3.95475	4.0006	4.0006
4.125–6	UN	2A	4.1010	4.1220	4.0137	4.0759	4.1220	4.0037	4.0037	4.1220	4.1220
			4.0997	4.1233	4.0134	4.0746	4.1233	4.0040	4.0034	4.1233	4.1233
		3A	4.1040	4.1250	4.0167	4.0814	4.1250	4.0092	4.0092	4.1250	4.1250
			4.1027	4.1263	4.0164	4.0801	4.1263	4.0095	4.0089	4.1263	4.1263
4.125–12	UN	2A	4.1101	4.1230	4.0689	4.0985	4.1230	4.0624	4.0624	4.1230	4.1230
			4.1092	4.1239	4.0686	4.0976	4.1239	4.0627	4.0621	4.1239	4.1239
		3A	4.1121	4.1250	4.0709	4.1021	4.1250	4.0660	4.0660	4.1250	4.1250
			4.1112	4.1259	4.0706	4.1012	4.1259	4.0663	4.0657	4.1259	4.1259
4.125–16	UN	2A	4.1127	4.1232	4.0826	4.1038	4.1232	4.0767	4.0767	4.1232	4.1232
			4.1118	4.1241	4.0823	4.1029	4.1241	4.0770	4.0764	4.1241	4.1241
		3A	4.1145	4.1250	4.0844	4.1071	4.1250	4.0800	4.0800	4.1250	4.1250
			4.1136	4.1259	4.0841	4.1062	4.1259	4.0803	4.0797	4.1259	4.1259

See footnotes at end of table.

TABLE 6.20. *Setting plug gages, Unified screw threads*—Continued

Nominal size and threads per inch	Series designation	Class	W truncated setting plugs							Basic-crest setting plugs	
			Plug for GO thread gage [a]			Plug for LO thread gage [a]				Major diameter	
			Major diameter		Pitch diameter	Major diameter		Pitch diameter		Plug for GO thread gage [a,b]	Plug for LO thread gage [a,c]
			Truncated	Full		Truncated	Full	Plus tolerance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
			in	*in*	*in*	*in*	*in*	*in*	*in*	*in*	*in*
4.250–4	UN	2A	4.2185	4.2466	4.0842	4.1810	4.2466	4.0727	4.0727	4.2466	4.2466
		3A	4.2170	4.2481	4.0839	4.1795	4.2481	4.0730	4.0724	4.2481	4.2481
			4.2219	4.2500	4.0876	4.1873	4.2500	4.0790	4.0790	4.2500	4.2500
			4.2204	4.2515	4.0873	4.1858	4.2515	4.0793	4.0787	4.2515	4.2515
4.250–6	UN	2A	4.2260	4.2470	4.1387	4.2008	4.2470	4.1286	4.1286	4.2470	4.2470
		3A	4.2247	4.2483	4.1384	4.1995	4.2483	4.1289	4.1283	4.2483	4.2483
			4.2290	4.2500	4.1417	4.2064	4.2500	4.1342	4.1342	4.2500	4.2500
			4.2277	4.2513	4.1414	4.2051	4.2513	4.1345	4.1339	4.2513	4.2513
4.250–12	UN	2A	4.2351	4.2480	4.1939	4.2235	4.2480	4.1874	4.1874	4.2480	4.2480
		3A	4.2342	4.2489	4.1936	4.2226	4.2489	4.1877	4.1871	4.2489	4.2489
			4.2371	4.2500	4.1959	4.2271	4.2500	4.1910	4.1910	4.2500	4.2500
			4.2362	4.2509	4.1956	4.2262	4.2509	4.1913	4.1907	4.2509	4.2509
4.250–16	UN	2A	4.2377	4.2482	4.2076	4.2288	4.2482	4.2017	4.2017	4.2482	4.2482
		3A	4.2368	4.2491	4.2073	3.2279	4.2491	4.2020	4.2014	4.2491	4.2491
			4.2395	4.2500	4.2094	4.2321	4.2500	4.2050	4.2050	4.2500	4.2500
			4.2386	4.2509	4.2091	4.2312	4.2509	4.2053	4.2047	4.2509	4.2509
4.375–6	UN	2A	4.3510	4.3720	4.2637	4.3258	4.3720	4.2536	4.2536	4.3720	4.3720
		3A	4.3497	4.3733	4.2634	4.3245	4.3733	4.2539	4.2533	4.3733	4.3733
			4.3540	4.3750	4.2667	4.3313	4.3750	4.2591	4.2591	4.3750	4.3750
			4.3527	4.3763	4.2664	4.3300	4.3763	4.2594	4.2588	4.3763	4.3763
4.375–12	UN	2A	4.3601	4.3730	4.3189	4.3485	4.3730	4.3124	4.3124	4.3730	4.3730
		3A	4.3592	4.3739	4.3186	4.3476	4.3739	4.3127	4.3121	4.3739	4.3739
			4.3621	4.3750	4.3209	4.3521	4.3750	4.3160	4.3160	4.3750	4.3750
			4.3612	4.3759	4.3206	4.3512	4.3759	4.3163	4.3157	4.3759	4.3759
4.375–16	UN	2A	4.3627	4.3732	4.3326	4.3538	4.3732	4.3267	4.3267	4.3732	4.3732
		3A	4.3618	4.3741	4.3323	4.3529	4.3741	4.3270	4.3264	4.3741	4.3741
			4.3645	4.3750	4.3344	4.3571	4.3750	4.3300	4.3300	4.3750	4.3750
			4.3636	4.3759	4.3341	4.3562	4.3759	4.3303	4.3297	4.3759	4.3759
4.500–4	UN	2A	4.4684	4.4965	4.3341	4.4308	4.4965	4.3225	4.3225	4.4965	4.4965
		3A	4.4669	4.4980	4.3338	4.4293	4.4980	4.3228	4.3222	4.4980	4.4980
			4.4719	4.5000	4.3376	4.4372	4.5000	4.3289	4.3289	4.5000	4.5000
			4.4704	4.5015	4.3373	4.4357	4.5015	4.3292	4.3286	4.5015	4.5015
4.500–6	UN	2A	4.4759	4.4969	4.3886	4.4506	4.4969	4.3784	4.3784	4.4969	4.4969
		3A	4.4746	4.4982	4.3883	4.4493	4.4982	4.3787	4.3781	4.4982	4.4982
			4.4790	4.5000	4.3917	4.4562	4.5000	4.3840	4.3840	4.5000	4.5000
			4.4777	4.5013	4.3914	4.4549	4.5013	4.3843	4.3837	4.5013	4.5013
4.500–12	UN	2A	4.4851	4.4980	4.4439	4.4735	4.4980	4.4374	4.4374	4.4980	4.4980
		3A	4.4842	4.4989	4.4436	4.4726	4.4989	4.4377	4.4371	4.4989	4.4989
			4.4871	4.5000	4.4459	4.4771	4.5000	4.4410	4.4410	4.5000	4.5000
			4.4862	4.5009	4.4456	4.4762	4.5009	4.4413	4.4407	4.5009	4.5009
4.500–16	UN	2A	4.4877	4.4982	4.4576	4.4788	4.4982	4.4517	4.4517	4.4982	4.4982
		3A	4.4868	4.4991	4.4573	4.4779	4.4991	4.4520	4.4514	4.4991	4.4991
			4.4895	4.5000	4.4594	4.4821	4.5000	4.4550	4.4550	4.5000	4.5000
			4.4886	4.5009	4.4591	4.4812	4.5009	4.4553	4.4547	4.5009	4.5009
4.625–6	UN	2A	4.6009	4.6219	4.5136	4.5755	4.6219	4.5033	4.5033	4.6219	4.6219
		3A	4.5996	4.6232	4.5133	4.5742	4.6232	4.5036	4.5030	4.6232	4.6232
			4.6040	4.6250	4.5167	4.5812	4.6250	4.5090	4.5090	4.6250	4.6250
			4.6027	4.6263	4.5164	4.5799	4.6263	4.5093	4.5087	4.6263	4.6263
4.625–12	UN	2A	4.6101	4.6230	4.5689	4.5983	4.6230	4.5622	4.5622	4.6230	4.6230
		3A	4.6092	4.6239	4.5686	4.5974	4.6239	4.5625	4.5619	4.6239	4.6239
			4.6121	4.6250	4.5709	4.6020	4.6250	4.5659	4.5659	4.6250	4.6250
			4.6112	4.6259	4.5706	4.6011	4.6259	4.5662	4.5656	4.6259	4.6259
4.625–16	UN	2A	4.6127	4.6232	4.5826	4.6036	4.6232	4.5765	4.5765	4.6232	4.6232
		3A	4.6118	4.6241	4.5823	4.6027	4.6241	4.5768	4.5762	4.6241	4.6241
			4.6145	4.6250	4.5844	4.6070	4.6250	4.5799	4.5799	4.6250	4.6250
			4.6136	4.6259	4.5841	4.6061	4.6259	4.5802	4.5796	4.6259	4.6259
4.750–4	UN	2A	4.7184	4.7465	4.5841	4.6807	4.7465	4.5724	4.5724	4.7465	4.7465
		3A	4.7169	4.7480	4.5838	4.6792	4.7480	4.5727	4.5721	4.7480	4.7480
			4.7219	4.7500	4.5876	4.6871	4.7500	4.5788	4.5788	4.7500	4.7500
			4.7204	4.7515	4.5873	4.6856	4.7515	4.5791	4.5785	4.7515	4.7515

See footnotes at end of table.