



# 中华人民共和国国家标准

GB/T 20667—2006

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## 统一螺纹 极限尺寸

Unified screw threads—Limits of sizes

2006-12-08 发布

2007-07-01 实施



中华人民共和国国家质量监督检验检疫总局  
中国国家标准化管理委员会

发布

## 前 言

本标准参照 ASME B1.1:2003《统一螺纹 极限尺寸》标准的第 8 章“极限尺寸”和资料性附录 C “米制转化尺寸”制定。1A 和 1B 螺纹只有在特殊场合使用,本标准没有给出 1A 和 1B 螺纹的极限尺寸。

统一螺纹系列标准的预计结构及其对应的国际标准为:

- GB/T 20669—2006 《统一螺纹 牙型》(ISO 68-2:1998,MOD);
- GB/T 20670—2006 《统一螺纹 直径与牙数系列》(ISO 263:1973,MOD);
- GB/T 20668—2006 《统一螺纹 基本尺寸》;
- GB/T 20666—2006 《统一螺纹 公差》(ISO 5864:1993,MOD);
- GB/T 20667—2006 《统一螺纹 极限尺寸》。

本标准的附录 A 为资料性附录。

本标准由全国螺纹标准化技术委员会(SAC/TC 108)提出并归口。

本标准负责起草单位:中机生产力促进中心、宁波九龙紧固件制造有限公司。

本标准主要起草人:李晓滨、徐勇。

本标准是首次制定。

## 统一螺纹 极限尺寸

### 1 范围

本标准规定了标准系列、2A、2B、3A 和 3B 标准公差、标准旋合长度统一螺纹的极限尺寸。

本标准适用于一般用途的机械紧固螺纹联接。

### 2 规范性引用文件

下列文件中的条款通过本标准的引用而成为本标准的条款。凡是注日期的引用文件,其随后所有的修改单(不包括勘误的内容)或修订版均不适用于本标准,然而,鼓励根据本标准达成协议的各方研究是否可使用这些文件的最新版本。凡是不注日期的引用文件,其最新版本适用于本标准。

GB/T 14791 螺纹术语(GB/T 14791—1993, neq ISO 5408:1983)

GB/T 20666—2006 统一螺纹 公差(ISO 5864:1993, ISO inch screw threads—Allowances and tolerances, MOD)

GB/T 20669—2006 统一螺纹 牙型(ISO 68-2:1998, ISO general purpose screw threads—Basic profile—Part 2: Inch screw threads, MOD)

GB/T 20670—2006 统一螺纹 直径与牙数系列(ISO 263:1973, ISO inch screw threads—General plan and selection for screws, bolts and nuts—Diameter range 0.06 to 6 in, MOD)

### 3 术语和定义

GB/T 14791 所规定的术语和定义适用于本标准。

### 4 尺寸代号

$D$ ——内螺纹的基本大径(公称直径);

$d$ ——外螺纹的基本大径(公称直径);

$D_2$ ——内螺纹的基本中径;

$d_2$ ——外螺纹的基本中径;

$D_1$ ——内螺纹的基本小径;

$d_3$ ——外螺纹的基本小径;

$H$ ——原始三角形高度;

$P$ ——螺距;

$n$ ——25.4 mm 轴向长度内所包含的牙数;

$es$ ——外螺纹直径的上偏差(基本偏差);

$T_{D_2}$ ——内螺纹中径公差;

$T_{d_2}$ ——外螺纹中径公差;

$T_{D_1}$ ——内螺纹小径公差;

$T_d$ ——外螺纹大径公差。

5 极限尺寸

5.1 按下列公式计算螺纹的极限尺寸。

$$d_{\max} = d + es$$

$$d_{\min} = d_{\max} - T_d$$

$$d_{2\max} = d_{\max} - \frac{3}{4}H = d_{\max} - 0.649\ 519\ 05\ P$$

$$d_{2\min} = d_{2\max} - T_{d_2}$$

$$d_{3\max} = d_{\max} - \frac{11}{8}H = d_{\max} - 1.190\ 784\ 93\ P$$

$$D_{\min} = D$$

$$D_{2\min} = D_{\min} - \frac{3}{4}H = D_{\min} - 0.649\ 519\ 05\ P$$

$$D_{2\max} = D_{2\min} + T_{D_2}$$

$$D_{1\min} = D_{\min} - \frac{5}{4}H = D_{\min} - 1.082\ 531\ 75\ P$$

$$D_{1\max} = D_{1\min} + T_{D_1}$$

5.2 标准系列、2A 和 2B 及 3A 和 3B 统一螺纹的极限尺寸分别见表 1 和表 2。

表 1 标准系列、2A 和 2B 统一螺纹的极限尺寸

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
0-80	UNF	0.059 5	0.056 3	0.051 4	0.049 6	0.044 6	0.046 5	0.051 4	0.051 9	0.054 2	0.060 0
1-64	UNC	0.072 4	0.068 6	0.062 3	0.060 3	0.053 8	0.056 1	0.062 2	0.062 9	0.065 5	0.073 0
1-72	UNF	0.072 4	0.068 9	0.063 4	0.061 5	0.055 9	0.058 0	0.063 4	0.064 0	0.066 5	0.073 0
2-56	UNC	0.085 4	0.081 3	0.073 8	0.071 7	0.064 1	0.066 7	0.073 7	0.074 4	0.077 2	0.086 0
2-64	UNF	0.085 4	0.081 6	0.075 3	0.073 3	0.066 8	0.069 1	0.075 2	0.075 9	0.078 6	0.086 0
3-48	UNC	0.098 3	0.093 8	0.084 8	0.082 5	0.073 5	0.076 4	0.084 5	0.085 5	0.088 5	0.099 0
3-56	UNF	0.098 3	0.094 2	0.086 7	0.084 5	0.077 0	0.079 7	0.086 5	0.087 4	0.090 2	0.099 0
4-40	UNC	0.111 2	0.106 1	0.095 0	0.092 5	0.081 4	0.084 9	0.093 9	0.095 8	0.099 1	0.112 0
4-48	UNF	0.111 3	0.106 8	0.097 8	0.095 4	0.086 5	0.089 4	0.096 8	0.098 5	0.101 6	0.112 0
5-40	UNC	0.124 2	0.119 1	0.108 0	0.105 4	0.094 4	0.097 9	0.106 2	0.108 8	0.112 1	0.125 0
5-44	UNF	0.124 3	0.119 5	0.109 5	0.107 0	0.097 2	0.100 4	0.107 9	0.110 2	0.113 4	0.125 0
6-32	UNC	0.137 2	0.131 2	0.116 9	0.114 1	0.100 0	0.104	0.114	0.117 7	0.121 4	0.138 0
6-40	UNF	0.137 2	0.132 1	0.121 0	0.118 4	0.107 4	0.111	0.119	0.121 8	0.125 2	0.138 0
8-32	UNC	0.163 1	0.157 1	0.142 8	0.139 9	0.125 9	0.130	0.139	0.143 7	0.147 5	0.164 0
8-36	UNF	0.163 2	0.157 7	0.145 2	0.142 4	0.130 1	0.134	0.142	0.146 0	0.149 6	0.164 0
10-24	UNC	0.189 0	0.181 8	0.161 9	0.158 6	0.139 4	0.145	0.155	0.162 9	0.167 2	0.190 0
10-32	UNF	0.189 1	0.183 1	0.168 8	0.165 8	0.151 9	0.156	0.164	0.169 7	0.173 6	0.190 0

表 1 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	
12-24	UNC	0.215 0	0.207 8	0.187 9	0.184 5	0.165 4	0.171	0.181	0.188 9	0.193 3	0.216 0
12-28	UNF	0.215 0	0.208 5	0.191 8	0.188 6	0.172 5	0.177	0.186	0.192 8	0.197 0	0.216 0
12-32	UNEF	0.215 0	0.209 0	0.194 7	0.191 5	0.177 8	0.182	0.190	0.195 7	0.199 8	0.216 0
1/4-20	UNC	0.248 9	0.240 8	0.216 4	0.212 7	0.189 4	0.196	0.207	0.217 5	0.222 4	0.250 0
1/4-28	UNF	0.249 0	0.242 5	0.225 8	0.222 5	0.206 5	0.211	0.220	0.226 8	0.231 1	0.250 0
1/4-32	UNEF	0.249 0	0.243 0	0.228 7	0.225 5	0.211 8	0.216	0.224	0.229 7	0.233 9	0.250 0
5/16-18	UNC	0.311 3	0.302 6	0.275 2	0.271 2	0.245 1	0.252	0.265	0.276 4	0.281 7	0.312 5
5/16-20	UN	0.311 3	0.303 2	0.278 8	0.274 7	0.251 8	0.258	0.270	0.280 0	0.285 3	0.312 5
5/16-24	UNF	0.311 4	0.304 2	0.284 3	0.280 6	0.261 8	0.267	0.277	0.285 4	0.290 2	0.312 5
5/16-28	UN	0.311 5	0.305 0	0.288 3	0.284 8	0.269 0	0.274	0.282	0.289 3	0.293 8	0.312 5
5/16-32	UNEF	0.311 5	0.305 5	0.291 2	0.287 9	0.274 3	0.279	0.286	0.292 2	0.296 5	0.312 5
3/8-16	UNC	0.373 7	0.364 3	0.333 1	0.328 7	0.299 3	0.307	0.321	0.334 4	0.340 1	0.375 0
3/8-20	UN	0.373 8	0.365 7	0.341 3	0.337 2	0.314 3	0.321	0.332	0.342 5	0.347 9	0.375 0
3/8-24	UNF	0.373 9	0.366 7	0.346 8	0.343 0	0.324 3	0.330	0.340	0.347 9	0.352 8	0.375 0
3/8-28	UN	0.373 9	0.367 4	0.350 7	0.347 1	0.331 4	0.336	0.345	0.351 8	0.356 4	0.375 0
3/8-32	UNEF	0.374 0	0.368 0	0.353 7	0.350 3	0.336 8	0.341	0.349	0.354 7	0.359 1	0.375 0
7/16-14	UNC	0.436 1	0.425 8	0.389 7	0.385 0	0.351 0	0.360	0.376	0.391 1	0.397 2	0.437 5
7/16-16	UN	0.436 1	0.426 7	0.395 5	0.390 9	0.361 7	0.370	0.384	0.396 9	0.402 9	0.437 5
7/16-20	UNF	0.436 2	0.428 1	0.403 7	0.399 5	0.376 7	0.383	0.395	0.405 0	0.410 4	0.437 5
7/16-28	UNEF	0.436 4	0.429 9	0.413 2	0.409 6	0.393 9	0.399	0.407	0.414 3	0.419 0	0.437 5
7/16-32	UN	0.436 5	0.430 5	0.416 2	0.412 8	0.399 3	0.404	0.411	0.417 2	0.421 6	0.437 5
1/2-13	UNC	0.498 5	0.487 6	0.448 5	0.443 5	0.406 9	0.417	0.434	0.450 0	0.456 5	0.500 0
1/2-16	UN	0.498 6	0.489 2	0.458 0	0.453 3	0.424 2	0.432	0.446	0.459 4	0.465 5	0.500 0
1/2-20	UNF	0.498 7	0.490 6	0.466 2	0.461 9	0.439 2	0.446	0.457	0.467 5	0.473 1	0.500 0
1/2-28	UNEF	0.498 9	0.492 4	0.475 7	0.472 0	0.456 4	0.461	0.470	0.476 8	0.481 6	0.500 0
1/2-32	UN	0.499 0	0.493 0	0.478 7	0.475 2	0.461 8	0.466	0.474	0.479 7	0.484 2	0.500 0
9/16-12	UNC	0.560 9	0.549 5	0.506 8	0.501 6	0.461 7	0.472	0.490	0.508 4	0.515 2	0.562 5
9/16-16	UN	0.561 1	0.551 7	0.520 5	0.515 8	0.486 7	0.495	0.509	0.521 9	0.528 0	0.562 5
9/16-18	UNF	0.561 1	0.552 4	0.525 0	0.520 5	0.494 9	0.502	0.515	0.526 4	0.532 3	0.562 5
9/16-20	UN	0.561 2	0.553 1	0.528 7	0.524 4	0.501 7	0.508	0.520	0.530 0	0.535 6	0.562 5
9/16-24	UNEF	0.561 3	0.554 1	0.534 2	0.530 2	0.511 7	0.517	0.527	0.535 4	0.540 5	0.562 5
9/16-28	UN	0.561 4	0.554 9	0.538 2	0.534 5	0.518 9	0.524	0.532	0.539 3	0.544 1	0.562 5
9/16-32	UN	0.561 4	0.555 4	0.541 1	0.537 6	0.524 2	0.529	0.536	0.542 2	0.546 8	0.562 5

表 1 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
5/8-11	UNC	0.623 3	0.611 2	0.564 3	0.558 8	0.515 0	0.527	0.546	0.566 0	0.573 2	0.625 0
5/8-12	UN	0.623 4	0.612 0	0.569 3	0.563 9	0.524 2	0.535	0.553	0.570 9	0.578 0	0.625 0
5/8-16	UN	0.623 6	0.614 2	0.583 0	0.578 2	0.549 2	0.557	0.571	0.584 4	0.590 6	0.625 0
5/8-18	UNF	0.623 6	0.614 9	0.587 5	0.582 8	0.557 4	0.565	0.578	0.588 9	0.594 9	0.625 0
5/8-20	UN	0.623 7	0.615 6	0.591 2	0.586 9	0.564 2	0.571	0.582	0.592 5	0.598 1	0.625 0
5/8-24	UNEF	0.623 8	0.616 6	0.596 7	0.592 7	0.574 2	0.580	0.590	0.597 9	0.603 1	0.625 0
5/8-28	UN	0.623 9	0.617 4	0.600 7	0.596 9	0.581 4	0.586	0.595	0.601 8	0.606 7	0.625 0
5/8-32	UN	0.623 9	0.617 9	0.603 6	0.600 0	0.586 7	0.591	0.599	0.604 7	0.609 3	0.625 0
11/16-12	UN	0.685 9	0.674 5	0.631 8	0.626 3	0.586 7	0.597	0.615	0.633 4	0.640 5	0.687 5
11/16-16	UN	0.686 1	0.676 7	0.645 5	0.640 7	0.611 7	0.620	0.634	0.646 9	0.653 2	0.687 5
11/16-20	UN	0.686 2	0.678 1	0.653 7	0.649 3	0.626 7	0.633	0.645	0.655 0	0.660 7	0.687 5
11/16-24	UNEF	0.686 3	0.679 1	0.659 2	0.655 2	0.636 7	0.642	0.652	0.660 4	0.665 7	0.687 5
11/16-28	UN	0.686 4	0.679 9	0.663 2	0.659 4	0.643 9	0.649	0.657	0.664 3	0.669 2	0.687 5
11/16-32	UN	0.686 4	0.680 4	0.666 1	0.662 5	0.649 2	0.654	0.661	0.667 2	0.671 9	0.687 5
3/4-10	UNC	0.748 2	0.735 3	0.683 2	0.677 3	0.629 1	0.642	0.663	0.685 0	0.692 7	0.750 0
3/4-12	UN	0.748 3	0.736 9	0.694 2	0.688 7	0.649 1	0.660	0.678	0.695 9	0.703 1	0.750 0
3/4-16	UNF	0.748 5	0.739 1	0.707 9	0.702 9	0.674 1	0.682	0.696	0.709 4	0.715 9	0.750 0
3/4-20	UNEF	0.748 7	0.740 6	0.716 2	0.711 8	0.689 2	0.696	0.707	0.717 5	0.723 2	0.750 0
3/4-28	UN	0.748 8	0.742 3	0.725 6	0.721 8	0.706 3	0.711	0.720	0.726 8	0.731 8	0.750 0
3/4-32	UN	0.748 9	0.742 9	0.728 6	0.725 0	0.711 7	0.716	0.724	0.729 7	0.734 4	0.750 0
13/16-12	UN	0.810 8	0.799 4	0.756 7	0.751 1	0.711 6	0.722	0.740	0.758 4	0.765 6	0.812 5
13/16-16	UN	0.811 0	0.801 6	0.770 4	0.765 5	0.736 6	0.745	0.759	0.771 9	0.778 3	0.812 5
13/16-20	UNEF	0.811 2	0.803 1	0.778 7	0.774 3	0.751 7	0.758	0.770	0.780 0	0.785 8	0.812 5
13/16-28	UN	0.811 3	0.804 8	0.788 1	0.784 2	0.768 8	0.774	0.782	0.789 3	0.794 3	0.812 5
13/16-32	UN	0.811 4	0.805 4	0.791 1	0.787 4	0.774 2	0.779	0.786	0.792 2	0.797 0	0.812 5
7/8-9	UNC	0.873 1	0.859 2	0.800 9	0.794 6	0.740 8	0.755	0.778	0.802 8	0.811 0	0.875 0
7/8-12	UN	0.873 3	0.861 9	0.819 2	0.813 6	0.774 1	0.785	0.803	0.820 9	0.828 2	0.875 0
7/8-14	UNF	0.873 4	0.863 1	0.827 0	0.821 6	0.788 3	0.798	0.813	0.828 6	0.835 6	0.875 0
7/8-16	UN	0.873 5	0.864 1	0.832 9	0.828 0	0.799 1	0.807	0.821	0.834 4	0.840 8	0.875 0
7/8-20	UNEF	0.873 7	0.865 6	0.841 2	0.836 7	0.814 2	0.821	0.832	0.842 5	0.848 3	0.875 0
7/8-28	UN	0.873 8	0.867 3	0.850 6	0.846 7	0.831 3	0.836	0.845	0.851 8	0.856 9	0.875 0
7/8-32	UN	0.873 9	0.867 9	0.853 6	0.849 9	0.836 7	0.841	0.849	0.854 7	0.859 5	0.875 0

表 1 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	
15/16-12	UN	0.935 8	0.924 4	0.881 7	0.876 1	0.836 6	0.847	0.865	0.883 4	0.890 7	0.937 5
15/16-16	UN	0.936 0	0.926 6	0.895 4	0.890 4	0.861 6	0.870	0.884	0.896 9	0.903 3	0.937 5
15/16-20	UNEF	0.936 1	0.928 0	0.903 6	0.899 1	0.876 6	0.883	0.895	0.905 0	0.910 9	0.937 5
15/16-28	UN	0.936 3	0.929 8	0.913 1	0.909 2	0.893 8	0.899	0.907	0.914 3	0.919 4	0.937 5
15/16-32	UN	0.936 4	0.930 4	0.916 1	0.912 3	0.899 2	0.904	0.911	0.917 2	0.922 1	0.937 5
1-8	UNC	0.998 0	0.983 0	0.916 8	0.910 1	0.849 2	0.865	0.890	0.918 8	0.927 6	1.000 0
1-12	UNF	0.998 2	0.986 8	0.944 1	0.938 2	0.899 0	0.910	0.928	0.945 9	0.953 5	1.000 0
1-16	UN	0.998 5	0.989 1	0.957 9	0.952 9	0.924 1	0.932	0.946	0.959 4	0.965 9	1.000 0
1-20	UNEF	0.998 6	0.990 5	0.966 1	0.961 6	0.939 1	0.946	0.957	0.967 5	0.973 4	1.000 0
1-28	UN	0.998 8	0.992 3	0.975 6	0.971 6	0.956 3	0.961	0.970	0.976 8	0.982 0	1.000 0
1-32	UN	0.998 9	0.992 9	0.978 6	0.974 8	0.961 7	0.966	0.974	0.979 7	0.984 6	1.000 0
1 $\frac{1}{8}$ -8	UN	1.060 5	1.045 5	0.979 3	0.972 5	0.911 7	0.927	0.952	0.981 3	0.990 2	1.062 5
1 $\frac{1}{8}$ -12	UN	1.060 8	1.049 4	1.006 7	1.001 0	0.961 6	0.972	0.990	1.008 4	1.015 8	1.062 5
1 $\frac{1}{8}$ -16	UN	1.061 0	1.051 6	1.020 4	1.015 4	0.986 6	0.995	1.009	1.021 9	1.028 4	1.062 5
1 $\frac{1}{8}$ -18	UNEF	1.061 1	1.052 4	1.025 0	1.020 2	0.994 9	1.002	1.015	1.026 4	1.032 6	1.062 5
1 $\frac{1}{8}$ -20	UN	1.061 1	1.053 0	1.028 6	1.024 0	1.001 6	1.008	1.020	1.030 0	1.035 9	1.062 5
1 $\frac{1}{8}$ -28	UN	1.061 3	1.054 8	1.038 1	1.034 1	1.018 8	1.024	1.032	1.039 3	1.044 5	1.062 5
1 $\frac{1}{8}$ -7	UNC	1.122 8	1.106 4	1.030 0	1.022 8	0.952 7	0.970	0.998	1.032 2	1.041 6	1.125 0
1 $\frac{1}{8}$ -8	UN	1.122 9	1.107 9	1.041 7	1.034 8	0.974 1	0.990	1.015	1.043 8	1.052 8	1.125 0
1 $\frac{1}{8}$ -12	UNF	1.123 2	1.111 8	1.069 1	1.063 1	1.024 0	1.035	1.053	1.070 9	1.078 7	1.125 0
1 $\frac{1}{8}$ -16	UN	1.123 5	1.114 1	1.082 9	1.077 9	1.049 1	1.057	1.071	1.084 4	1.091 0	1.125 0
1 $\frac{1}{8}$ -18	UNEF	1.123 6	1.114 9	1.087 5	1.082 7	1.057 4	1.065	1.078	1.088 9	1.095 1	1.125 0
1 $\frac{1}{8}$ -20	UN	1.123 6	1.115 5	1.091 1	1.086 5	1.064 1	1.071	1.082	1.092 5	1.098 5	1.125 0
1 $\frac{1}{8}$ -28	UN	1.123 8	1.117 3	1.100 6	1.096 6	1.081 3	1.086	1.095	1.101 8	1.107 0	1.125 0
1 $\frac{3}{8}$ -8	UN	1.185 4	1.170 4	1.104 2	1.097 2	1.036 6	1.052	1.077	1.106 3	1.115 4	1.187 5
1 $\frac{3}{8}$ -12	UN	1.185 8	1.174 4	1.131 7	1.126 0	1.086 6	1.097	1.115	1.133 4	1.140 9	1.187 5
1 $\frac{3}{8}$ -16	UN	1.186 0	1.176 6	1.145 4	1.140 3	1.111 6	1.120	1.134	1.146 9	1.153 5	1.187 5
1 $\frac{3}{8}$ -18	UNEF	1.186 1	1.177 4	1.150 0	1.145 2	1.119 9	1.127	1.140	1.151 4	1.157 7	1.187 5
1 $\frac{3}{8}$ -20	UN	1.186 1	1.178 0	1.153 6	1.149 0	1.126 6	1.133	1.145	1.155 0	1.161 0	1.187 5
1 $\frac{3}{8}$ -28	UN	1.186 3	1.179 8	1.163 1	1.159 0	1.143 8	1.149	1.157	1.164 3	1.169 6	1.187 5
1 $\frac{1}{4}$ -7	UNC	1.247 8	1.231 4	1.155 0	1.147 6	1.077 7	1.095	1.123	1.157 2	1.166 8	1.250 0
1 $\frac{1}{4}$ -8	UN	1.247 9	1.232 9	1.166 7	1.159 7	1.099 1	1.115	1.140	1.168 8	1.178 0	1.250 0
1 $\frac{1}{4}$ -12	UNF	1.248 2	1.236 8	1.194 1	1.187 9	1.149 0	1.160	1.178	1.195 9	1.203 9	1.250 0

表 1 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	
1¼-16	UN	1.248 5	1.239 1	1.207 9	1.202 8	1.174 1	1.182	1.196	1.209 4	1.216 0	1.250 0
1¼-18	UNEF	1.248 5	1.239 8	1.212 4	1.207 5	1.182 3	1.190	1.203	1.213 9	1.220 2	1.250 0
1¼-20	UN	1.248 6	1.240 5	1.216 1	1.211 4	1.189 1	1.196	1.207	1.217 5	1.223 6	1.250 0
1¼-28	UN	1.248 8	1.242 3	1.225 6	1.221 5	1.206 3	1.211	1.220	1.226 8	1.232 1	1.250 0
1⅝-8	UN	1.310 4	1.295 4	1.229 2	1.222 1	1.161 6	1.177	1.202	1.231 3	1.240 5	1.312 5
1⅝-12	UN	1.310 8	1.299 4	1.256 7	1.250 9	1.211 6	1.222	1.240	1.258 4	1.265 9	1.312 5
1⅝-16	UN	1.311 0	1.301 6	1.270 4	1.265 3	1.236 6	1.245	1.259	1.271 9	1.278 6	1.312 5
1⅝-18	UNEF	1.311 0	1.302 3	1.274 9	1.270 0	1.244 8	1.252	1.265	1.276 4	1.282 8	1.312 5
1⅝-20	UN	1.311 1	1.303 0	1.278 6	1.273 9	1.251 6	1.258	1.270	1.280 0	1.286 1	1.312 5
1⅝-28	UN	1.311 3	1.304 8	1.288 1	1.284 0	1.268 8	1.274	1.282	1.289 3	1.294 7	1.312 5
1⅜-6	UNC	1.372 6	1.354 4	1.264 3	1.256 3	1.174 1	1.195	1.225	1.266 7	1.277 1	1.375 0
1⅜-8	UN	1.372 8	1.357 8	1.291 6	1.284 4	1.224 0	1.240	1.265	1.293 8	1.303 1	1.375 0
1⅜-12	UNF	1.373 1	1.361 7	1.319 0	1.312 7	1.273 9	1.285	1.303	1.320 9	1.329 1	1.375 0
1⅜-16	UN	1.373 5	1.364 1	1.332 9	1.327 7	1.299 1	1.307	1.321	1.334 4	1.341 1	1.375 0
1⅜-18	UNEF	1.373 5	1.364 8	1.337 4	1.332 5	1.307 3	1.315	1.328	1.338 9	1.345 3	1.375 0
1⅜-20	UN	1.373 6	1.365 5	1.341 1	1.336 4	1.314 1	1.321	1.332	1.342 5	1.348 6	1.375 0
1⅜-28	UN	1.373 8	1.367 3	1.350 6	1.346 5	1.331 3	1.336	1.345	1.351 8	1.357 2	1.375 0
1⅞-6	UN	1.435 1	1.416 9	1.326 8	1.318 8	1.236 6	1.257	1.288	1.329 2	1.339 6	1.437 5
1⅞-8	UN	1.435 3	1.420 3	1.354 1	1.346 9	1.286 5	1.302	1.327	1.356 3	1.365 7	1.437 5
1⅞-12	UN	1.435 7	1.424 3	1.381 6	1.375 7	1.336 5	1.347	1.365	1.383 4	1.391 0	1.437 5
1⅞-16	UN	1.435 9	1.426 5	1.395 3	1.390 1	1.361 5	1.370	1.384	1.396 9	1.403 6	1.437 5
1⅞-18	UNEF	1.436 0	1.427 3	1.399 9	1.395 0	1.369 8	1.377	1.390	1.401 4	1.407 8	1.437 5
1⅞-20	UN	1.436 1	1.428 0	1.403 6	1.398 9	1.376 6	1.383	1.395	1.405 0	1.411 2	1.437 5
1⅞-28	UN	1.436 2	1.429 7	1.413 0	1.408 8	1.393 7	1.399	1.407	1.414 3	1.419 7	1.437 5
1½-6	UNC	1.497 6	1.479 4	1.389 3	1.381 2	1.299 1	1.320	1.350	1.391 7	1.402 2	1.500 0
1½-8	UN	1.497 8	1.482 8	1.416 6	1.409 3	1.349 0	1.365	1.390	1.418 8	1.428 3	1.500 0
1½-12	UNF	1.498 1	1.486 7	1.444 0	1.437 6	1.398 9	1.410	1.428	1.445 9	1.454 2	1.500 0
1½-16	UN	1.498 4	1.489 0	1.457 8	1.452 6	1.424 0	1.432	1.446	1.459 4	1.466 2	1.500 0
1½-18	UNEF	1.498 5	1.489 8	1.462 4	1.457 4	1.432 3	1.440	1.453	1.463 9	1.470 4	1.500 0
1½-20	UN	1.498 6	1.490 5	1.466 1	1.461 3	1.439 1	1.446	1.457	1.467 5	1.473 7	1.500 0
1½-28	UN	1.498 7	1.492 2	1.475 5	1.471 3	1.456 2	1.461	1.470	1.476 8	1.482 3	1.500 0
1⅞-6	UN	1.560 1	1.541 9	1.451 8	1.443 6	1.361 6	1.382	1.413	1.454 2	1.464 8	1.562 5
1⅞-8	UN	1.560 3	1.545 3	1.479 1	1.471 7	1.411 5	1.427	1.452	1.481 3	1.490 9	1.562 5



表 1 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	
1 $\frac{1}{16}$ -12	UN	1.560 7	1.549 3	1.506 6	1.500 7	1.461 5	1.472	1.490	1.508 4	1.516 1	1.562 5
1 $\frac{1}{16}$ -16	UN	1.560 9	1.551 5	1.520 3	1.515 1	1.486 5	1.495	1.509	1.521 9	1.528 7	1.562 5
1 $\frac{1}{16}$ -18	UNEF	1.561 0	1.552 3	1.524 9	1.519 9	1.494 8	1.502	1.515	1.526 4	1.532 9	1.562 5
1 $\frac{1}{16}$ -20	UN	1.561 1	1.553 0	1.528 6	1.523 8	1.501 6	1.508	1.520	1.530 0	1.536 2	1.562 5
1 $\frac{1}{8}$ -6	UN	1.622 5	1.604 3	1.514 2	1.506 0	1.424 0	1.445	1.475	1.516 7	1.527 4	1.625 0
1 $\frac{1}{8}$ -8	UN	1.622 8	1.607 8	1.541 6	1.534 2	1.474 0	1.490	1.515	1.543 8	1.553 5	1.625 0
1 $\frac{1}{8}$ -12	UN	1.623 2	1.611 8	1.569 1	1.563 2	1.524 0	1.535	1.553	1.570 9	1.578 6	1.625 0
1 $\frac{1}{8}$ -16	UN	1.623 4	1.614 0	1.582 8	1.577 5	1.549 0	1.557	1.571	1.584 4	1.591 2	1.625 0
1 $\frac{1}{8}$ -18	UNEF	1.623 5	1.614 8	1.587 4	1.582 4	1.557 3	1.565	1.578	1.588 9	1.595 4	1.625 0
1 $\frac{1}{8}$ -20	UN	1.623 6	1.615 5	1.591 1	1.586 3	1.564 1	1.571	1.582	1.592 5	1.598 7	1.625 0
1 $\frac{1}{16}$ -6	UN	1.685 0	1.666 8	1.576 7	1.568 4	1.486 5	1.507	1.538	1.579 2	1.590 0	1.687 5
1 $\frac{1}{16}$ -8	UN	1.685 3	1.670 3	1.604 1	1.596 6	1.536 5	1.552	1.577	1.606 3	1.616 0	1.687 5
1 $\frac{1}{16}$ -12	UN	1.685 7	1.674 3	1.631 6	1.625 7	1.586 5	1.597	1.615	1.633 4	1.641 1	1.687 5
1 $\frac{1}{16}$ -16	UN	1.685 9	1.676 5	1.645 3	1.640 0	1.611 5	1.620	1.634	1.646 9	1.653 8	1.687 5
1 $\frac{1}{16}$ -18	UNEF	1.686 0	1.677 3	1.649 9	1.644 9	1.619 8	1.627	1.640	1.651 4	1.657 9	1.687 5
1 $\frac{1}{16}$ -20	UN	1.686 1	1.678 0	1.653 6	1.648 8	1.626 6	1.633	1.645	1.655 0	1.661 3	1.687 5
1 $\frac{3}{4}$ -5	UNC	1.747 3	1.726 8	1.617 4	1.608 5	1.509 1	1.533	1.567	1.620 1	1.631 7	1.750 0
1 $\frac{3}{4}$ -6	UN	1.747 5	1.729 3	1.639 2	1.630 9	1.549 0	1.570	1.600	1.641 7	1.652 5	1.750 0
1 $\frac{3}{4}$ -8	UN	1.747 7	1.732 7	1.666 5	1.659 0	1.598 9	1.615	1.640	1.668 8	1.678 6	1.750 0
1 $\frac{3}{4}$ -12	UN	1.748 2	1.736 8	1.694 1	1.688 1	1.649 0	1.660	1.678	1.695 9	1.703 7	1.750 0
1 $\frac{3}{4}$ -16	UN	1.748 4	1.739 0	1.707 8	1.702 5	1.674 0	1.682	1.696	1.709 4	1.716 3	1.750 0
1 $\frac{3}{4}$ -20	UN	1.748 5	1.740 4	1.716 0	1.711 2	1.689 0	1.696	1.707	1.717 5	1.723 8	1.750 0
1 $\frac{13}{16}$ -6	UN	1.810 0	1.791 8	1.701 7	1.693 3	1.611 5	1.632	1.663	1.704 2	1.715 1	1.812 5
1 $\frac{13}{16}$ -8	UN	1.810 2	1.795 2	1.729 0	1.721 4	1.661 4	1.677	1.702	1.731 3	1.741 2	1.812 5
1 $\frac{13}{16}$ -12	UN	1.810 7	1.799 3	1.756 6	1.750 6	1.711 5	1.722	1.740	1.758 4	1.766 2	1.812 5
1 $\frac{13}{16}$ -16	UN	1.810 9	1.801 5	1.770 3	1.765 0	1.736 5	1.745	1.759	1.771 9	1.778 8	1.812 5
1 $\frac{13}{16}$ -20	UN	1.811 0	1.802 9	1.778 5	1.773 6	1.751 5	1.758	1.770	1.780 0	1.786 3	1.812 5
1 $\frac{7}{8}$ -6	UN	1.872 5	1.854 3	1.764 2	1.755 8	1.674 0	1.695	1.725	1.766 7	1.777 7	1.875 0
1 $\frac{7}{8}$ -8	UN	1.872 7	1.857 7	1.791 5	1.783 8	1.723 9	1.740	1.765	1.793 8	1.803 8	1.875 0
1 $\frac{7}{8}$ -12	UN	1.873 2	1.861 8	1.819 1	1.813 1	1.774 0	1.785	1.803	1.820 9	1.828 7	1.875 0
1 $\frac{7}{8}$ -16	UN	1.873 4	1.864 0	1.832 8	1.827 5	1.799 0	1.807	1.821	1.834 4	1.841 3	1.875 0
1 $\frac{7}{8}$ -20	UN	1.873 5	1.865 4	1.841 0	1.836 1	1.814 0	1.821	1.832	1.842 5	1.848 9	1.875 0

表 1 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
1 <sup>5</sup> / <sub>16</sub> -6	UN	1.934 9	1.916 7	1.826 6	1.818 1	1.736 4	1.757	1.788	1.829 2	1.840 3	1.937 5
1 <sup>5</sup> / <sub>16</sub> -8	UN	1.935 2	1.920 2	1.854 0	1.846 3	1.786 4	1.802	1.827	1.856 3	1.866 3	1.937 5
1 <sup>5</sup> / <sub>16</sub> -12	UN	1.935 7	1.924 3	1.881 6	1.875 6	1.836 5	1.847	1.865	1.883 4	1.891 2	1.937 5
1 <sup>5</sup> / <sub>16</sub> -16	UN	1.935 9	1.926 5	1.895 3	1.889 9	1.861 5	1.870	1.884	1.896 9	1.903 9	1.937 5
1 <sup>5</sup> / <sub>16</sub> -20	UN	1.936 0	1.927 9	1.903 5	1.898 6	1.876 5	1.883	1.895	1.905 0	1.911 4	1.937 5
2-4 <sup>1</sup> / <sub>2</sub>	UNC	1.997 1	1.975 1	1.852 8	1.843 3	1.732 5	1.759	1.795	1.855 7	1.868 1	2.000 0
2-6	UN	1.997 4	1.979 2	1.889 1	1.880 5	1.798 9	1.820	1.850	1.891 7	1.902 8	2.000 0
2-8	UN	1.997 7	1.982 7	1.916 5	1.908 7	1.848 9	1.865	1.890	1.918 8	1.928 9	2.000 0
2-12	UN	1.998 2	1.986 8	1.944 1	1.938 0	1.899 0	1.910	1.928	1.945 9	1.953 8	2.000 0
2-16	UN	1.998 4	1.989 0	1.957 8	1.952 4	1.924 0	1.932	1.946	1.959 4	1.966 4	2.000 0
2-20	UN	1.998 5	1.990 4	1.966 0	1.961 1	1.939 0	1.946	1.957	1.967 5	1.973 9	2.000 0
2 <sup>1</sup> / <sub>8</sub> -6	UN	2.122 4	2.104 2	2.014 1	2.005 4	1.923 9	1.945	1.975	2.016 7	2.028 0	2.125 0
2 <sup>1</sup> / <sub>8</sub> -8	UN	2.122 6	2.107 6	2.041 4	2.033 5	1.973 8	1.990	2.015	2.043 8	2.054 0	2.125 0
2 <sup>1</sup> / <sub>8</sub> -12	UN	2.123 2	2.111 8	2.069 1	2.063 0	2.024 0	2.035	2.053	2.070 9	2.078 8	2.125 0
2 <sup>1</sup> / <sub>8</sub> -16	UN	2.123 4	2.114 0	2.082 8	2.077 4	2.049 0	2.057	2.071	2.084 4	2.091 4	2.125 0
2 <sup>1</sup> / <sub>8</sub> -20	UN	2.123 5	2.115 4	2.091 0	2.086 0	2.064 0	2.071	2.082	2.092 5	2.099 0	2.125 0
2 <sup>1</sup> / <sub>4</sub> -4 <sup>1</sup> / <sub>2</sub>	UNC	2.247 1	2.225 1	2.102 8	2.093 1	1.982 5	2.009	2.045	2.105 7	2.118 3	2.250 0
2 <sup>1</sup> / <sub>4</sub> -6	UN	2.247 4	2.229 2	2.139 1	2.130 3	2.048 9	2.070	2.100	2.141 7	2.153 1	2.250 0
2 <sup>1</sup> / <sub>4</sub> -8	UN	2.247 6	2.232 6	2.166 4	2.158 4	2.098 8	2.115	2.140	2.168 8	2.179 2	2.250 0
2 <sup>1</sup> / <sub>4</sub> -12	UN	2.248 2	2.236 8	2.194 1	2.188 0	2.149 0	2.160	2.178	2.195 9	2.203 9	2.250 0
2 <sup>1</sup> / <sub>4</sub> -16	UN	2.248 4	2.239 0	2.207 8	2.202 3	2.174 0	2.182	2.196	2.209 4	2.216 5	2.250 0
2 <sup>1</sup> / <sub>4</sub> -20	UN	2.248 5	2.240 4	2.216 0	2.211 0	2.189 0	2.196	2.207	2.217 5	2.224 0	2.250 0
2 <sup>3</sup> / <sub>8</sub> -6	UN	2.372 3	2.354 1	2.264 0	2.255 1	2.173 8	2.195	2.225	2.266 7	2.278 2	2.375 0
2 <sup>3</sup> / <sub>8</sub> -8	UN	2.372 6	2.357 6	2.291 4	2.283 3	2.223 8	2.240	2.265	2.293 8	2.304 3	2.375 0
2 <sup>3</sup> / <sub>8</sub> -12	UN	2.373 2	2.361 8	2.319 1	2.312 9	2.274 0	2.285	2.303	2.320 9	2.328 9	2.375 0
2 <sup>3</sup> / <sub>8</sub> -16	UN	2.373 4	2.364 0	2.332 8	2.327 3	2.299 0	2.307	2.321	2.334 4	2.341 5	2.375 0
2 <sup>3</sup> / <sub>8</sub> -20	UN	2.373 5	2.365 4	2.341 0	2.336 0	2.314 0	2.321	2.332	2.342 5	2.349 1	2.375 0
2 <sup>1</sup> / <sub>2</sub> -4	UNC	2.496 9	2.473 1	2.334 5	2.324 1	2.199 2	2.229	2.267	2.337 6	2.351 1	2.500 0
2 <sup>1</sup> / <sub>2</sub> -6	UN	2.497 3	2.479 1	2.389 0	2.380 0	2.298 8	2.320	2.350	2.391 7	2.403 3	2.500 0
2 <sup>1</sup> / <sub>2</sub> -8	UN	2.497 6	2.482 6	2.416 4	2.408 2	2.348 8	2.365	2.390	2.418 8	2.429 4	2.500 0
2 <sup>1</sup> / <sub>2</sub> -12	UN	2.498 1	2.486 7	2.444 0	2.437 8	2.398 9	2.410	2.428	2.445 9	2.454 0	2.500 0
2 <sup>1</sup> / <sub>2</sub> -16	UN	2.498 3	2.488 9	2.457 7	2.452 2	2.423 9	2.432	2.446	2.459 4	2.466 6	2.500 0
2 <sup>1</sup> / <sub>2</sub> -20	UN	2.498 5	2.490 4	2.466 0	2.460 9	2.439 0	2.446	2.457	2.467 5	2.474 1	2.500 0

表 1 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	
2 $\frac{5}{8}$ -6	UN	2.622 3	2.604 1	2.514 0	2.505 0	2.423 8	2.445	2.475	2.516 7	2.528 5	2.625 0
2 $\frac{5}{8}$ -8	UN	2.622 5	2.607 5	2.541 3	2.533 1	2.473 7	2.490	2.515	2.543 8	2.554 5	2.625 0
2 $\frac{5}{8}$ -12	UN	2.623 1	2.611 7	2.569 0	2.562 8	2.523 9	2.535	2.553	2.570 9	2.579 0	2.625 0
2 $\frac{5}{8}$ -16	UN	2.623 3	2.613 9	2.582 7	2.577 1	2.548 9	2.557	2.571	2.584 4	2.591 6	2.625 0
2 $\frac{5}{8}$ -20	UN	2.623 5	2.615 4	2.591 0	2.585 9	2.564 0	2.571	2.582	2.592 5	2.599 1	2.625 0
2 $\frac{3}{4}$ -4	UNC	2.746 8	2.723 0	2.584 4	2.573 9	2.449 1	2.479	2.517	2.587 6	2.601 3	2.750 0
2 $\frac{3}{4}$ -6	UN	2.747 3	2.729 1	2.639 0	2.629 9	2.548 8	2.570	2.600	2.641 7	2.653 6	2.750 0
2 $\frac{3}{4}$ -8	UN	2.747 5	2.732 5	2.666 3	2.658 0	2.598 7	2.615	2.640	2.668 8	2.679 6	2.750 0
2 $\frac{3}{4}$ -12	UN	2.748 1	2.736 7	2.694 0	2.687 7	2.648 9	2.660	2.678	2.695 9	2.704 0	2.750 0
2 $\frac{3}{4}$ -16	UN	2.748 3	2.738 9	2.707 7	2.702 1	2.673 9	2.682	2.696	2.709 4	2.716 7	2.750 0
2 $\frac{3}{4}$ -20	UN	2.748 5	2.740 4	2.716 0	2.710 9	2.689 0	2.696	2.707	2.717 5	2.724 2	2.750 0
2 $\frac{7}{8}$ -6	UN	2.872 2	2.854 0	2.763 9	2.754 7	2.673 7	2.695	2.725	2.766 7	2.778 7	2.875 0
2 $\frac{7}{8}$ -8	UN	2.872 5	2.857 5	2.791 3	2.782 9	2.723 7	2.740	2.765	2.793 8	2.804 8	2.875 0
2 $\frac{7}{8}$ -12	UN	2.873 1	2.861 7	2.819 0	2.812 7	2.773 9	2.785	2.803	2.820 9	2.829 1	2.875 0
2 $\frac{7}{8}$ -16	UN	2.873 3	2.863 9	2.832 7	2.827 1	2.798 9	2.807	2.821	2.834 4	2.841 7	2.875 0
2 $\frac{7}{8}$ -20	UN	2.873 4	2.865 3	2.840 9	2.835 7	2.813 9	2.821	2.832	2.842 5	2.849 2	2.875 0
3-4	UNC	2.996 8	2.973 0	2.834 4	2.823 7	2.699 1	2.729	2.767	2.837 6	2.851 5	3.000 0
3-6	UN	2.997 2	2.979 0	2.888 9	2.879 6	2.798 7	2.820	2.850	2.891 7	2.903 8	3.000 0
3-8	UN	2.997 4	2.982 4	2.916 2	2.907 7	2.848 6	2.865	2.890	2.918 8	2.929 9	3.000 0
3-12	UN	2.998 1	2.986 7	2.944 0	2.937 7	2.898 9	2.910	2.928	2.945 9	2.954 1	3.000 0
3-16	UN	2.998 3	2.988 9	2.957 7	2.952 1	2.923 9	2.932	2.946	2.959 4	2.966 7	3.000 0
3-20	UN	2.998 4	2.990 3	2.965 9	2.960 7	2.938 9	2.946	2.957	2.967 5	2.974 3	3.000 0
3 $\frac{1}{8}$ -6	UN	3.122 2	3.104 0	3.013 9	3.004 5	2.923 7	2.945	2.975	3.016 7	3.028 9	3.125 0
3 $\frac{1}{8}$ -8	UN	3.122 4	3.107 4	3.041 2	3.032 6	2.973 6	2.990	3.015	3.043 8	3.055 0	3.125 0
3 $\frac{1}{8}$ -12	UN	3.123 1	3.111 7	3.069 0	3.062 6	3.023 9	3.035	3.053	3.070 9	3.079 2	3.125 0
3 $\frac{1}{8}$ -16	UN	3.123 3	3.113 9	3.082 7	3.077 0	3.048 9	3.057	3.071	3.084 4	3.091 8	3.125 0
3 $\frac{1}{4}$ -4	UNC	3.246 7	3.222 9	3.084 3	3.073 4	2.949 0	2.979	3.017	3.087 6	3.101 7	3.250 0
3 $\frac{1}{4}$ -6	UN	3.247 2	3.229 0	3.138 9	3.129 4	3.048 7	3.070	3.100	3.141 7	3.154 0	3.250 0
3 $\frac{1}{4}$ -8	UN	3.247 4	3.232 4	3.166 2	3.157 5	3.098 6	3.115	3.140	3.168 8	3.180 1	3.250 0
3 $\frac{1}{4}$ -12	UN	3.248 1	3.236 7	3.194 0	3.187 6	3.148 9	3.160	3.178	3.195 9	3.204 2	3.250 0
3 $\frac{1}{4}$ -16	UN	3.248 3	3.238 9	3.207 7	3.202 0	3.173 9	3.182	3.196	3.209 4	3.216 8	3.250 0
3 $\frac{3}{8}$ -6	UN	3.372 1	3.353 9	3.263 8	3.254 3	3.173 6	3.195	3.225	3.266 7	3.279 1	3.375 0
3 $\frac{3}{8}$ -8	UN	3.372 4	3.357 4	3.291 2	3.282 4	3.223 6	3.240	3.265	3.293 8	3.305 2	3.375 0
3 $\frac{3}{8}$ -12	UN	3.373 1	3.361 7	3.319 0	3.312 6	3.273 9	3.285	3.303	3.320 9	3.329 2	3.375 0

表 1 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
3 <sup>3</sup> / <sub>8</sub> -16	UN	3.373 3	3.363 9	3.332 7	3.327 0	3.298 9	3.307	3.321	3.334 4	3.341 9	3.375 0
3 <sup>1</sup> / <sub>2</sub> -4	UNC	3.496 7	3.472 9	3.334 3	3.323 3	3.199 0	3.229	3.267	3.337 6	3.351 9	3.500 0
3 <sup>1</sup> / <sub>2</sub> -6	UN	3.497 1	3.478 9	3.388 8	3.379 2	3.298 6	3.320	3.350	3.391 7	3.404 2	3.500 0
3 <sup>1</sup> / <sub>2</sub> -8	UN	3.497 4	3.482 4	3.416 2	3.407 4	3.348 6	3.365	3.390	3.418 8	3.430 3	3.500 0
3 <sup>1</sup> / <sub>2</sub> -12	UN	3.498 1	3.486 7	3.444 0	3.437 6	3.398 9	3.410	3.428	3.445 9	3.454 3	3.500 0
3 <sup>1</sup> / <sub>2</sub> -16	UN	3.498 3	3.488 9	3.457 7	3.451 9	3.423 9	3.432	3.446	3.459 4	3.466 9	3.500 0
3 <sup>5</sup> / <sub>8</sub> -6	UN	3.622 1	3.603 9	3.513 8	3.504 1	3.423 6	3.445	3.475	3.516 7	3.529 3	3.625 0
3 <sup>5</sup> / <sub>8</sub> -8	UN	3.622 3	3.607 3	3.541 1	3.532 2	3.473 5	3.490	3.515	3.543 8	3.555 4	3.625 0
3 <sup>5</sup> / <sub>8</sub> -12	UN	3.623 1	3.611 7	3.569 0	3.562 5	3.523 9	3.535	3.553	3.570 9	3.579 3	3.625 0
3 <sup>5</sup> / <sub>8</sub> -16	UN	3.623 3	3.613 9	3.582 7	3.576 9	3.548 9	3.557	3.571	3.584 4	3.591 9	3.625 0
3 <sup>3</sup> / <sub>4</sub> -4	UNC	3.746 6	3.722 8	3.584 2	3.573 0	3.448 9	3.479	3.517	3.587 6	3.602 1	3.750 0
3 <sup>3</sup> / <sub>4</sub> -6	UN	3.747 1	3.728 9	3.638 8	3.629 0	3.548 6	3.570	3.600	3.641 7	3.654 4	3.750 0
3 <sup>3</sup> / <sub>4</sub> -8	UN	3.747 3	3.732 3	3.666 1	3.657 1	3.598 5	3.615	3.640	3.668 8	3.680 5	3.750 0
3 <sup>3</sup> / <sub>4</sub> -12	UN	3.748 1	3.736 7	3.694 0	3.687 5	3.648 9	3.660	3.678	3.695 9	3.704 3	3.750 0
3 <sup>3</sup> / <sub>4</sub> -16	UN	3.748 3	3.738 9	3.707 7	3.701 9	3.673 9	3.682	3.696	3.709 4	3.717 0	3.750 0
3 <sup>7</sup> / <sub>8</sub> -6	UN	3.872 0	3.853 8	3.763 7	3.753 8	3.673 5	3.695	3.725	3.766 7	3.779 5	3.875 0
3 <sup>7</sup> / <sub>8</sub> -8	UN	3.872 3	3.857 3	3.791 1	3.782 0	3.723 5	3.740	3.765	3.793 8	3.805 6	3.875 0
3 <sup>7</sup> / <sub>8</sub> -12	UN	3.873 0	3.861 6	3.818 9	3.812 4	3.773 8	3.785	3.803	3.820 9	3.829 4	3.875 0
3 <sup>7</sup> / <sub>8</sub> -16	UN	3.873 2	3.863 8	3.832 6	3.826 8	3.798 8	3.807	3.821	3.834 4	3.842 0	3.875 0
4-4	UNC	3.996 6	3.972 8	3.834 2	3.822 9	3.698 9	3.729	3.767	3.837 6	3.852 3	4.000 0
4-6	UN	3.997 0	3.978 8	3.888 7	3.878 8	3.798 5	3.820	3.850	3.891 7	3.904 6	4.000 0
4-8	UN	3.997 3	3.982 3	3.916 1	3.907 0	3.848 5	3.865	3.890	3.918 8	3.930 7	4.000 0
4-12	UN	3.998 0	3.986 6	3.943 9	3.937 4	3.898 8	3.910	3.928	3.945 9	3.954 4	4.000 0
4-16	UN	3.998 2	3.988 8	3.957 6	3.951 7	3.923 8	3.932	3.946	3.959 4	3.967 0	4.000 0
4 <sup>1</sup> / <sub>8</sub> -6	UN	4.122 0	4.103 8	4.013 7	4.003 7	3.923 5	3.945	3.975	4.016 7	4.029 7	4.125 0
4 <sup>1</sup> / <sub>8</sub> -8	UN	4.122 2	4.107 2	4.041 0	4.031 8	3.973 4	3.990	4.015	4.043 8	4.055 8	4.125 0
4 <sup>1</sup> / <sub>8</sub> -12	UN	4.123 0	4.111 6	4.068 9	4.062 3	4.023 8	4.035	4.053	4.070 9	4.079 4	4.125 0
4 <sup>1</sup> / <sub>8</sub> -16	UN	4.123 2	4.113 8	4.082 6	4.076 7	4.048 8	4.057	4.071	4.084 4	4.092 1	4.125 0
4 <sup>1</sup> / <sub>4</sub> -4	UN	4.246 6	4.222 8	4.084 2	4.072 7	3.948 9	3.979	4.017	4.087 6	4.102 5	4.250 0
4 <sup>1</sup> / <sub>4</sub> -6	UN	4.247 0	4.228 8	4.138 7	4.128 6	4.048 5	4.070	4.100	4.141 7	4.154 8	4.250 0
4 <sup>1</sup> / <sub>4</sub> -8	UN	4.247 2	4.232 2	4.166 0	4.156 7	4.098 4	4.115	4.140	4.168 8	4.180 9	4.250 0
4 <sup>1</sup> / <sub>4</sub> -12	UN	4.248 0	4.236 6	4.193 9	4.187 3	4.148 8	4.160	4.178	4.195 9	4.204 5	4.250 0
4 <sup>1</sup> / <sub>4</sub> -16	UN	4.248 2	4.238 8	4.207 6	4.201 7	4.173 8	4.182	4.196	4.209 4	4.217 1	4.250 0

表 1 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
4 $\frac{3}{8}$ -6	UN	4.372 0	4.353 8	4.263 7	4.253 6	4.173 5	4.195	4.225	4.266 7	4.279 9	4.375 0
4 $\frac{3}{8}$ -8	UN	4.372 2	4.357 2	4.291 0	4.281 7	4.223 4	4.240	4.265	4.293 8	4.305 9	4.375 0
4 $\frac{3}{8}$ -12	UN	4.373 0	4.361 6	4.318 9	4.312 3	4.273 8	4.285	4.303	4.320 9	4.329 5	4.375 0
4 $\frac{3}{8}$ -16	UN	4.373 2	4.363 8	4.332 6	4.326 7	4.298 8	4.307	4.321	4.334 4	4.342 1	4.375 0
4 $\frac{1}{2}$ -4	UN	4.496 5	4.472 7	4.334 1	4.322 5	4.198 8	4.229	4.267	4.337 6	4.352 7	4.500 0
4 $\frac{1}{2}$ -6	UN	4.496 9	4.478 7	4.388 6	4.378 4	4.298 4	4.320	4.350	4.391 7	4.405 0	4.500 0
4 $\frac{1}{2}$ -8	UN	4.497 2	4.482 2	4.416 0	4.406 6	4.348 4	4.365	4.390	4.418 8	4.431 0	4.500 0
4 $\frac{1}{2}$ -12	UN	4.498 0	4.486 6	4.443 9	4.437 3	4.398 8	4.410	4.428	4.445 9	4.454 5	4.500 0
4 $\frac{1}{2}$ -16	UN	4.498 2	4.488 8	4.457 6	4.451 6	4.423 8	4.432	4.446	4.459 4	4.467 2	4.500 0
4 $\frac{5}{8}$ -6	UN	4.621 9	4.603 7	4.513 6	4.503 3	4.423 4	4.445	4.475	4.516 7	4.530 0	4.625 0
4 $\frac{5}{8}$ -8	UN	4.622 2	4.607 2	4.541 0	4.531 5	4.473 4	4.490	4.515	4.543 8	4.556 1	4.625 0
4 $\frac{5}{8}$ -12	UN	4.623 0	4.611 6	4.568 9	4.562 2	4.523 8	4.535	4.553	4.570 9	4.579 6	4.625 0
4 $\frac{5}{8}$ -16	UN	4.623 2	4.613 8	4.582 6	4.576 6	4.548 8	4.557	4.571	4.584 4	4.592 2	4.625 0
4 $\frac{3}{4}$ -4	UN	4.746 5	4.722 7	4.584 1	4.572 4	4.448 8	4.479	4.517	4.587 6	4.602 9	4.750 0
4 $\frac{3}{4}$ -6	UN	4.746 9	4.728 7	4.638 6	4.628 3	4.548 4	4.570	4.600	4.641 7	4.655 1	4.750 0
4 $\frac{3}{4}$ -8	UN	4.747 1	4.732 1	4.665 9	4.656 4	4.598 3	4.615	4.640	4.668 8	4.681 2	4.750 0
4 $\frac{3}{4}$ -12	UN	4.748 0	4.736 6	4.693 9	4.687 2	4.648 8	4.660	4.678	4.695 9	4.704 6	4.750 0
4 $\frac{3}{4}$ -16	UN	4.748 2	4.738 8	4.707 6	4.701 6	4.673 8	4.682	4.696	4.709 4	4.717 2	4.750 0
4 $\frac{7}{8}$ -6	UN	4.871 9	4.853 7	4.763 6	4.753 2	4.673 4	4.695	4.725	4.766 7	4.780 2	4.875 0
4 $\frac{7}{8}$ -8	UN	4.872 1	4.857 1	4.790 9	4.781 3	4.723 3	4.740	4.765	4.793 8	4.806 3	4.875 0
4 $\frac{7}{8}$ -12	UN	4.873 0	4.861 6	4.818 9	4.812 2	4.773 8	4.785	4.803	4.820 9	4.829 6	4.875 0
4 $\frac{7}{8}$ -16	UN	4.873 2	4.863 8	4.832 6	4.826 6	4.798 8	4.807	4.821	4.834 4	4.842 2	4.875 0
5-4	UN	4.996 4	4.972 6	4.834 0	4.822 1	4.698 7	4.729	4.767	4.837 6	4.853 0	5.000 0
5-6	UN	4.996 9	4.978 7	4.888 6	4.878 1	4.798 4	4.820	4.850	4.891 7	4.905 3	5.000 0
5-8	UN	4.997 1	4.982 1	4.915 9	4.906 2	4.848 3	4.865	4.890	4.918 8	4.931 4	5.000 0
5-12	UN	4.998 0	4.986 6	4.943 9	4.937 2	4.898 8	4.910	4.928	4.945 9	4.954 6	5.000 0
5-16	UN	4.998 2	4.988 8	4.957 6	4.951 5	4.923 8	4.932	4.946	4.959 4	4.967 3	5.000 0
5 $\frac{1}{8}$ -6	UN	5.121 8	5.103 6	5.013 5	5.003 0	4.923 3	4.945	4.975	5.016 7	5.030 4	5.125 0
5 $\frac{1}{8}$ -8	UN	5.122 1	5.107 1	5.040 9	5.031 2	4.973 3	4.990	5.015	5.043 8	5.056 5	5.125 0
5 $\frac{1}{8}$ -12	UN	5.123 0	5.111 6	5.068 9	5.062 2	5.023 8	5.035	5.053	5.070 9	5.079 7	5.125 0
5 $\frac{1}{8}$ -16	UN	5.123 2	5.113 8	5.082 6	5.076 5	5.048 8	5.057	5.071	5.084 4	5.092 3	5.125 0

表 1 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	
5¼-4	UN	5.246 4	5.222 6	5.084 0	5.072 0	4.948 7	4.979	5.017	5.087 6	5.103 2	5.250 0
5¼-6	UN	5.246 8	5.228 6	5.138 5	5.127 9	5.048 3	5.070	5.100	5.141 7	5.155 5	5.250 0
5¼-8	UN	5.247 1	5.232 1	5.165 9	5.156 1	5.098 3	5.115	5.140	5.168 8	5.181 5	5.250 0
5¼-12	UN	5.248 0	5.236 6	5.193 9	5.187 1	5.148 8	5.160	5.178	5.195 9	5.204 7	5.250 0
5¼-16	UN	5.248 2	5.238 8	5.207 6	5.201 5	5.173 8	5.182	5.196	5.209 4	5.217 3	5.250 0
5⅝-6	UN	5.371 8	5.353 6	5.263 5	5.252 9	5.173 3	5.195	5.225	5.266 7	5.280 5	5.375 0
5⅝-8	UN	5.372 0	5.357 0	5.290 8	5.280 9	5.223 2	5.240	5.265	5.293 8	5.306 6	5.375 0
5⅝-12	UN	5.373 0	5.361 6	5.318 9	5.312 1	5.273 8	5.285	5.303	5.320 9	5.329 7	5.375 0
5⅝-16	UN	5.373 2	5.363 8	5.332 6	5.326 5	5.298 8	5.307	5.321	5.334 4	5.342 3	5.375 0
5½-4	UN	5.496 4	5.472 6	5.334 0	5.321 9	5.198 7	5.229	5.267	5.337 6	5.353 4	5.500 0
5½-6	UN	5.496 8	5.478 6	5.388 5	5.377 8	5.298 3	5.320	5.350	5.391 7	5.405 6	5.500 0
5½-8	UN	5.497 0	5.482 0	5.415 8	5.405 9	5.348 2	5.365	5.390	5.418 8	5.431 7	5.500 0
5½-12	UN	5.498 0	5.486 6	5.443 9	5.437 1	5.398 8	5.410	5.428	5.445 9	5.454 8	5.500 0
5½-16	UN	5.498 2	5.488 8	5.457 6	5.451 5	5.423 8	5.432	5.446	5.459 4	5.467 4	5.500 0
5⅞-6	UN	5.621 8	5.603 6	5.513 5	5.502 7	5.423 3	5.445	5.475	5.516 7	5.530 7	5.625 0
5⅞-8	UN	5.622 0	5.607 0	5.540 8	5.530 8	5.473 2	5.490	5.515	5.543 8	5.556 8	5.625 0
5⅞-12	UN	5.623 0	5.611 6	5.568 9	5.562 1	5.523 8	5.535	5.553	5.570 9	5.579 8	5.625 0
5⅞-16	UN	5.623 2	5.613 8	5.582 6	5.576 4	5.548 8	5.557	5.571	5.584 4	5.592 4	5.625 0
5¾-4	UN	5.746 3	5.722 5	5.583 9	5.571 7	5.448 6	5.479	5.517	5.587 6	5.603 5	5.750 0
5¾-6	UN	5.746 8	5.728 6	5.638 5	5.627 7	5.548 3	5.570	5.600	5.641 7	5.655 8	5.750 0
5¾-8	UN	5.747 0	5.732 0	5.665 8	5.655 8	5.598 2	5.615	5.640	5.668 8	5.681 8	5.750 0
5¾-12	UN	5.747 9	5.736 5	5.693 8	5.687 0	5.648 7	5.660	5.678	5.695 9	5.704 8	5.750 0
5¾-16	UN	5.748 1	5.738 7	5.707 5	5.701 3	5.673 7	5.682	5.696	5.709 4	5.717 4	5.750 0
5⅞-6	UN	5.871 7	5.853 5	5.763 4	5.752 5	5.673 2	5.695	5.725	5.766 7	5.780 9	5.875 0
5⅞-8	UN	5.872 0	5.857 0	5.790 8	5.780 7	5.723 2	5.740	5.765	5.793 8	5.806 9	5.875 0
5⅞-12	UN	5.872 9	5.861 5	5.818 8	5.811 9	5.773 7	5.785	5.803	5.820 9	5.829 8	5.875 0
5⅞-16	UN	5.873 1	5.863 7	5.832 5	5.826 3	5.798 7	5.807	5.821	5.834 4	5.842 5	5.875 0
6-4	UN	5.996 3	5.972 5	5.833 9	5.821 5	5.698 6	5.729	5.767	5.837 6	5.853 7	6.000 0
6-6	UN	5.996 7	5.978 5	5.888 4	5.877 5	5.798 2	5.820	5.850	5.891 7	5.905 9	6.000 0
6-8	UN	5.997 0	5.982 0	5.915 8	5.905 7	5.848 2	5.865	5.890	5.918 8	5.932 0	6.000 0
6-12	UN	5.997 9	5.986 5	5.943 8	5.936 9	5.898 7	5.910	5.928	5.945 9	5.954 9	6.000 0
6-16	UN	5.998 1	5.988 7	5.957 5	5.951 3	5.923 7	5.932	5.946	5.959 4	5.967 5	6.000 0

表 2 标准系列、3A 和 3B 统一螺纹的极限尺寸

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
0-80	UNF	0.060 0	0.056 8	0.051 9	0.050 6	0.045 1	0.046 5	0.051 4	0.051 9	0.053 6	0.060 0
1-64	UNC	0.073 0	0.069 2	0.062 9	0.061 4	0.054 4	0.056 1	0.062 2	0.062 9	0.064 8	0.073 0
1-72	UNF	0.073 0	0.069 5	0.064 0	0.062 6	0.056 5	0.058 0	0.063 4	0.064 0	0.065 9	0.073 0
2-56	UNC	0.086 0	0.081 9	0.074 4	0.072 8	0.064 7	0.066 7	0.073 7	0.074 4	0.076 5	0.086 0
2-64	UNF	0.086 0	0.082 2	0.075 9	0.074 4	0.067 4	0.069 1	0.075 2	0.075 9	0.077 9	0.086 0
3-48	UNC	0.099 0	0.094 5	0.085 5	0.083 8	0.074 2	0.076 4	0.084 5	0.085 5	0.087 7	0.099 0
3-56	UNF	0.099 0	0.094 9	0.087 4	0.085 8	0.077 7	0.079 7	0.086 5	0.087 4	0.089 5	0.099 0
4-40	UNC	0.112 0	0.106 9	0.095 8	0.093 9	0.082 2	0.084 9	0.093 9	0.095 8	0.098 2	0.112 0
4-48	UNF	0.112 0	0.107 5	0.098 5	0.096 7	0.087 2	0.089 4	0.096 8	0.098 5	0.100 8	0.112 0
5-40	UNC	0.125 0	0.119 9	0.108 8	0.106 9	0.095 2	0.097 9	0.106 2	0.108 8	0.111 3	0.125 0
5-44	UNF	0.125 0	0.120 2	0.110 2	0.108 3	0.097 9	0.100 4	0.107 9	0.110 2	0.112 6	0.125 0
6-32	UNC	0.138 0	0.132 0	0.117 7	0.115 6	0.100 8	0.104 0	0.113 9	0.117 7	0.120 4	0.138 0
6-40	UNF	0.138 0	0.132 9	0.121 8	0.119 8	0.108 2	0.111 0	0.118 6	0.121 8	0.124 3	0.138 0
8-32	UNC	0.164 0	0.158 0	0.143 7	0.141 5	0.126 8	0.130 0	0.138 8	0.143 7	0.146 5	0.164 0
8-36	UNF	0.164 0	0.158 5	0.146 0	0.143 9	0.130 9	0.134 0	0.141 6	0.146 0	0.148 7	0.164 0
10-24	UNC	0.190 0	0.182 8	0.162 9	0.160 4	0.140 4	0.145 0	0.155 5	0.162 9	0.166 1	0.190 0
10-32	UNF	0.190 0	0.184 0	0.169 7	0.167 4	0.152 8	0.156 0	0.164 1	0.169 7	0.172 6	0.190 0
12-24	UNC	0.216 0	0.208 8	0.188 9	0.186 3	0.166 4	0.171 0	0.180 7	0.188 9	0.192 2	0.216 0
12-28	UNF	0.216 0	0.209 5	0.192 8	0.190 4	0.173 5	0.177 0	0.185 7	0.192 8	0.195 9	0.216 0
12-32	UNEF	0.216 0	0.210 0	0.195 7	0.193 3	0.178 8	0.182 0	0.189 5	0.195 7	0.198 8	0.216 0
1/4-20	UNC	0.250 0	0.241 9	0.217 5	0.214 7	0.190 5	0.196 0	0.206 7	0.217 5	0.221 1	0.250 0
1/4-28	UNF	0.250 0	0.243 5	0.226 8	0.224 3	0.207 5	0.211 0	0.219 0	0.226 8	0.230 0	0.250 0
1/4-32	UNEF	0.250 0	0.244 0	0.229 7	0.227 3	0.212 8	0.216 0	0.222 9	0.229 7	0.232 8	0.250 0
5/16-18	UNC	0.312 5	0.303 8	0.276 4	0.273 4	0.246 3	0.252 0	0.263 0	0.276 4	0.280 3	0.312 5
5/16-20	UN	0.312 5	0.304 4	0.280 0	0.277 0	0.253 0	0.258 0	0.268 0	0.280 0	0.284 0	0.312 5
5/16-24	UNF	0.312 5	0.305 3	0.285 4	0.282 7	0.262 9	0.267 0	0.275 4	0.285 4	0.289 0	0.312 5
5/16-28	UN	0.312 5	0.306 0	0.289 3	0.286 7	0.270 0	0.274 0	0.280 7	0.289 3	0.292 7	0.312 5
5/16-32	UNEF	0.312 5	0.306 5	0.292 2	0.289 7	0.275 3	0.279 0	0.284 6	0.292 2	0.295 4	0.312 5
3/8-16	UNC	0.375 0	0.365 6	0.334 4	0.331 1	0.300 6	0.307 0	0.318 2	0.334 4	0.338 7	0.375 0
3/8-20	UN	0.375 0	0.366 9	0.342 5	0.339 4	0.315 5	0.321 0	0.329 7	0.342 5	0.346 5	0.375 0
3/8-24	UNF	0.375 0	0.367 8	0.347 9	0.345 0	0.325 4	0.330 0	0.337 2	0.347 9	0.351 6	0.375 0
3/8-28	UN	0.375 0	0.368 5	0.351 8	0.349 1	0.332 5	0.336 0	0.342 6	0.351 8	0.355 3	0.375 0
3/8-32	UNEF	0.375 0	0.369 0	0.354 7	0.352 2	0.337 8	0.341 0	0.346 9	0.354 7	0.358 0	0.375 0

表 2 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
7/16-14	UNC	0.437 5	0.427 2	0.391 1	0.387 6	0.352 4	0.360 0	0.371 7	0.391 1	0.395 7	0.437 5
7/16-16	UN	0.437 5	0.428 1	0.396 9	0.393 4	0.363 1	0.370 0	0.380 0	0.396 9	0.401 4	0.437 5
7/16-20	UNF	0.437 5	0.429 4	0.405 0	0.401 9	0.378 0	0.383 0	0.391 6	0.405 0	0.409 1	0.437 5
7/16-28	UNEF	0.437 5	0.431 0	0.414 3	0.411 6	0.395 0	0.399 0	0.405 1	0.414 3	0.417 8	0.437 5
7/16-32	UN	0.437 5	0.431 5	0.417 2	0.414 6	0.400 3	0.404 0	0.409 4	0.417 2	0.420 5	0.437 5
1/2-13	UNC	0.500 0	0.489 1	0.450 0	0.446 3	0.408 4	0.417 0	0.428 4	0.450 0	0.454 8	0.500 0
1/2-16	UN	0.500 0	0.490 6	0.459 4	0.455 9	0.425 6	0.432 0	0.442 0	0.459 4	0.464 0	0.500 0
1/2-20	UNF	0.500 0	0.491 9	0.467 5	0.464 3	0.440 5	0.446 0	0.453 7	0.467 5	0.471 7	0.500 0
1/2-28	UNEF	0.500 0	0.493 5	0.476 8	0.474 0	0.457 5	0.461 0	0.467 6	0.476 8	0.480 4	0.500 0
1/2-32	UN	0.500 0	0.494 0	0.479 7	0.477 1	0.462 8	0.466 0	0.471 9	0.479 7	0.483 1	0.500 0
9/16-12	UNC	0.562 5	0.551 1	0.508 4	0.504 5	0.463 3	0.472 0	0.484 3	0.508 4	0.513 5	0.562 5
9/16-16	UN	0.562 5	0.553 1	0.521 9	0.518 4	0.488 1	0.495 0	0.504 1	0.521 9	0.526 5	0.562 5
9/16-18	UNF	0.562 5	0.553 8	0.526 4	0.523 0	0.496 3	0.502 0	0.510 6	0.526 4	0.530 8	0.562 5
9/16-20	UN	0.562 5	0.554 4	0.530 0	0.526 8	0.503 0	0.508 0	0.516 1	0.530 0	0.534 2	0.562 5
9/16-24	UNEF	0.562 5	0.555 3	0.535 4	0.532 4	0.512 9	0.517 0	0.524 4	0.535 4	0.539 3	0.562 5
9/16-28	UN	0.562 5	0.556 0	0.539 3	0.536 5	0.520 0	0.524 0	0.530 1	0.539 3	0.542 9	0.562 5
9/16-32	UN	0.562 5	0.556 5	0.542 2	0.539 6	0.525 3	0.529 0	0.534 4	0.542 2	0.545 6	0.562 5
5/8-11	UNC	0.625 0	0.612 9	0.566 0	0.561 9	0.516 7	0.527 0	0.539 1	0.566 0	0.571 4	0.625 0
5/8-12	UN	0.625 0	0.613 6	0.570 9	0.566 8	0.525 8	0.535 0	0.546 3	0.570 9	0.576 2	0.625 0
5/8-16	UN	0.625 0	0.615 6	0.584 4	0.580 8	0.550 6	0.557 0	0.566 2	0.584 4	0.589 0	0.625 0
5/8-18	UNF	0.625 0	0.616 3	0.588 9	0.585 4	0.558 8	0.565 0	0.573 0	0.588 9	0.593 4	0.625 0
5/8-20	UN	0.625 0	0.616 9	0.592 5	0.589 3	0.565 5	0.571 0	0.578 6	0.592 5	0.596 7	0.625 0
5/8-24	UNEF	0.625 0	0.617 8	0.597 9	0.594 9	0.575 4	0.580 0	0.586 9	0.597 9	0.601 8	0.625 0
5/8-28	UN	0.625 0	0.618 5	0.601 8	0.599 0	0.582 5	0.586 0	0.592 6	0.601 8	0.605 5	0.625 0
5/8-32	UN	0.625 0	0.619 0	0.604 7	0.602 0	0.587 8	0.591 0	0.596 9	0.604 7	0.608 2	0.625 0
11/16-12	UN	0.687 5	0.676 1	0.633 4	0.629 3	0.588 3	0.597 0	0.608 5	0.633 4	0.638 7	0.687 5
11/16-16	UN	0.687 5	0.678 1	0.646 9	0.643 3	0.613 1	0.620 0	0.628 4	0.646 9	0.651 6	0.687 5
11/16-20	UN	0.687 5	0.679 4	0.655 0	0.651 7	0.628 0	0.633 0	0.641 1	0.655 0	0.659 3	0.687 5
11/16-24	UNEF	0.687 5	0.680 3	0.660 4	0.657 4	0.637 9	0.642 0	0.649 4	0.660 4	0.664 3	0.687 5
11/16-28	UN	0.687 5	0.681 0	0.664 3	0.661 4	0.645 0	0.649 0	0.655 1	0.664 3	0.668 0	0.687 5
11/16-32	UN	0.687 5	0.681 5	0.667 2	0.664 5	0.650 3	0.654 0	0.659 4	0.667 2	0.670 7	0.687 5
3/4-10	UNC	0.750 0	0.737 1	0.685 0	0.680 6	0.630 9	0.642 0	0.654 5	0.685 0	0.690 7	0.750 0
3/4-12	UN	0.750 0	0.738 6	0.695 9	0.691 8	0.650 8	0.660 0	0.670 7	0.695 9	0.701 3	0.750 0



表 2 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	
3/4-16	UNF	0.750 0	0.740 6	0.709 4	0.705 6	0.675 6	0.682 0	0.690 9	0.709 4	0.714 3	0.750 0
3/4-20	UNEF	0.750 0	0.741 9	0.717 5	0.714 2	0.690 5	0.696 0	0.703 6	0.717 5	0.721 8	0.750 0
3/4-28	UN	0.750 0	0.743 5	0.726 8	0.723 9	0.707 5	0.711 0	0.717 6	0.726 8	0.730 5	0.750 0
3/4-32	UN	0.750 0	0.744 0	0.729 7	0.727 0	0.712 8	0.716 0	0.721 9	0.729 7	0.733 3	0.750 0
13/16-12	UN	0.812 5	0.801 1	0.758 4	0.754 2	0.713 3	0.722 0	0.732 9	0.758 4	0.763 8	0.812 5
13/16-16	UN	0.812 5	0.803 1	0.771 9	0.768 2	0.738 1	0.745 0	0.753 4	0.771 9	0.776 7	0.812 5
13/16-20	UNEF	0.812 5	0.804 4	0.780 0	0.776 7	0.753 0	0.758 0	0.766 1	0.780 0	0.784 3	0.812 5
13/16-28	UN	0.812 5	0.806 0	0.789 3	0.786 4	0.770 0	0.774 0	0.780 1	0.789 3	0.793 1	0.812 5
13/16-32	UN	0.812 5	0.806 5	0.792 2	0.789 4	0.775 3	0.779 0	0.784 4	0.792 2	0.795 8	0.812 5
7/8-9	UNC	0.875 0	0.861 1	0.802 8	0.798 1	0.742 7	0.755 0	0.768 1	0.802 8	0.808 9	0.875 0
7/8-12	UN	0.875 0	0.863 6	0.820 9	0.816 7	0.775 8	0.785 0	0.795 2	0.820 9	0.826 4	0.875 0
7/8-14	UNF	0.875 0	0.864 7	0.828 6	0.824 5	0.789 9	0.798 0	0.806 7	0.828 6	0.833 9	0.875 0
7/8-16	UN	0.875 0	0.865 6	0.834 4	0.830 7	0.800 6	0.807 0	0.815 9	0.834 4	0.839 2	0.875 0
7/8-20	UNEF	0.875 0	0.866 9	0.842 5	0.839 1	0.815 5	0.821 0	0.828 6	0.842 5	0.846 9	0.875 0
7/8-28	UN	0.875 0	0.868 5	0.851 8	0.848 9	0.832 5	0.836 0	0.842 6	0.851 8	0.855 6	0.875 0
7/8-32	UN	0.875 0	0.869 0	0.854 7	0.851 9	0.837 8	0.841 0	0.846 9	0.854 7	0.858 3	0.875 0
15/16-12	UN	0.937 5	0.926 1	0.883 4	0.879 2	0.838 3	0.847 0	0.857 5	0.883 4	0.888 9	0.937 5
15/16-16	UN	0.937 5	0.928 1	0.896 9	0.893 2	0.863 1	0.870 0	0.878 4	0.896 9	0.901 7	0.937 5
15/16-20	UNEF	0.937 5	0.929 4	0.905 0	0.901 6	0.878 0	0.883 0	0.891 1	0.905 0	0.909 4	0.937 5
15/16-28	UN	0.937 5	0.931 0	0.914 3	0.911 3	0.895 0	0.899 0	0.905 1	0.914 3	0.918 1	0.937 5
15/16-32	UN	0.937 5	0.931 5	0.917 2	0.914 4	0.900 3	0.904 0	0.909 4	0.917 2	0.920 9	0.937 5
1-8	UNC	1.000 0	0.985 0	0.918 8	0.913 7	0.851 2	0.865 0	0.879 7	0.918 8	0.925 4	1.000 0
1-12	UNF	1.000 0	0.988 6	0.945 9	0.941 5	0.900 8	0.910 0	0.919 8	0.945 9	0.951 6	1.000 0
1-16	UN	1.000 0	0.990 6	0.959 4	0.955 7	0.925 6	0.932 0	0.940 9	0.959 4	0.964 3	1.000 0
1-20	UNEF	1.000 0	0.991 9	0.967 5	0.964 1	0.940 5	0.946 0	0.953 6	0.967 5	0.971 9	1.000 0
1-28	UN	1.000 0	0.993 5	0.976 8	0.973 8	0.957 5	0.961 0	0.967 6	0.976 8	0.980 7	1.000 0
1-32	UN	1.000 0	0.994 0	0.979 7	0.976 9	0.962 8	0.966 0	0.971 9	0.979 7	0.983 4	1.000 0
1 1/8-8	UN	1.062 5	1.047 5	0.981 3	0.976 2	0.913 7	0.927 0	0.942 2	0.981 3	0.988 0	1.062 5
1 1/8-12	UN	1.062 5	1.051 1	1.008 4	1.004 1	0.963 3	0.972 0	0.982 3	1.008 4	1.013 9	1.062 5
1 1/8-16	UN	1.062 5	1.053 1	1.021 9	1.018 1	0.988 1	0.995 0	1.003 4	1.021 9	1.026 8	1.062 5
1 1/8-18	UNEF	1.062 5	1.053 8	1.026 4	1.022 8	0.996 3	1.002 0	1.010 5	1.026 4	1.031 1	1.062 5
1 1/8-20	UN	1.062 5	1.054 4	1.030 0	1.026 6	1.003 0	1.008 0	1.016 1	1.030 0	1.034 5	1.062 5
1 1/8-28	UN	1.062 5	1.056 0	1.039 3	1.036 3	1.020 0	1.024 0	1.030 1	1.039 3	1.043 2	1.062 5

表 2 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	
1 $\frac{1}{8}$ -7	UNC	1.125 0	1.108 6	1.032 2	1.026 8	0.954 9	0.970 0	0.987 5	1.032 2	1.039 3	1.125 0
1 $\frac{1}{8}$ -8	UN	1.125 0	1.110 0	1.043 8	1.038 6	0.976 2	0.990 0	1.004 7	1.043 8	1.050 5	1.125 0
1 $\frac{1}{8}$ -12	UNF	1.125 0	1.113 6	1.070 9	1.066 4	1.025 8	1.035 0	1.044 8	1.070 9	1.076 8	1.125 0
1 $\frac{1}{8}$ -16	UN	1.125 0	1.115 6	1.084 4	1.080 6	1.050 6	1.057 0	1.065 9	1.084 4	1.089 3	1.125 0
1 $\frac{1}{8}$ -18	UNEF	1.125 0	1.116 3	1.088 9	1.085 3	1.058 8	1.065 0	1.073 0	1.088 9	1.093 6	1.125 0
1 $\frac{1}{8}$ -20	UN	1.125 0	1.116 9	1.092 5	1.089 0	1.065 5	1.071 0	1.078 6	1.092 5	1.097 0	1.125 0
1 $\frac{1}{8}$ -28	UN	1.125 0	1.118 5	1.101 8	1.098 8	1.082 5	1.086 0	1.092 6	1.101 8	1.105 7	1.125 0
1 $\frac{3}{16}$ -8	UN	1.187 5	1.172 5	1.106 3	1.101 1	1.038 7	1.052 0	1.067 2	1.106 3	1.113 1	1.187 5
1 $\frac{3}{16}$ -12	UN	1.187 5	1.176 1	1.133 4	1.129 1	1.088 3	1.097 0	1.107 3	1.133 4	1.139 0	1.187 5
1 $\frac{3}{16}$ -16	UN	1.187 5	1.178 1	1.146 9	1.143 1	1.113 1	1.120 0	1.128 4	1.146 9	1.151 8	1.187 5
1 $\frac{3}{16}$ -18	UNEF	1.187 5	1.178 8	1.151 4	1.147 8	1.121 3	1.127 0	1.135 5	1.151 4	1.156 1	1.187 5
1 $\frac{3}{16}$ -20	UN	1.187 5	1.179 4	1.155 0	1.151 5	1.128 0	1.133 0	1.141 1	1.155 0	1.159 5	1.187 5
1 $\frac{3}{16}$ -28	UN	1.187 5	1.181 0	1.164 3	1.161 3	1.145 0	1.149 0	1.155 1	1.164 3	1.168 3	1.187 5
1 $\frac{1}{4}$ -7	UNC	1.250 0	1.233 6	1.157 2	1.151 7	1.079 9	1.095 0	1.112 5	1.157 2	1.164 4	1.250 0
1 $\frac{1}{4}$ -8	UN	1.250 0	1.235 0	1.168 8	1.163 5	1.101 2	1.115 0	1.129 7	1.168 8	1.175 7	1.250 0
1 $\frac{1}{4}$ -12	UNF	1.250 0	1.238 6	1.195 9	1.191 3	1.150 8	1.160 0	1.169 8	1.195 9	1.201 9	1.250 0
1 $\frac{1}{4}$ -16	UN	1.250 0	1.240 6	1.209 4	1.205 6	1.175 6	1.182 0	1.190 9	1.209 4	1.214 4	1.250 0
1 $\frac{1}{4}$ -18	UNEF	1.250 0	1.241 3	1.213 9	1.210 3	1.183 8	1.190 0	1.198 0	1.213 9	1.218 6	1.250 0
1 $\frac{1}{4}$ -20	UN	1.250 0	1.241 9	1.217 5	1.214 0	1.190 5	1.196 0	1.203 6	1.217 5	1.222 0	1.250 0
1 $\frac{1}{4}$ -28	UN	1.250 0	1.243 5	1.226 8	1.223 7	1.207 5	1.211 0	1.217 6	1.226 8	1.230 8	1.250 0
1 $\frac{5}{16}$ -8	UN	1.312 5	1.297 5	1.231 3	1.226 0	1.163 7	1.177 0	1.192 2	1.231 3	1.238 2	1.312 5
1 $\frac{5}{16}$ -12	UN	1.312 5	1.301 1	1.258 4	1.254 0	1.213 3	1.222 0	1.232 3	1.258 4	1.264 1	1.312 5
1 $\frac{5}{16}$ -16	UN	1.312 5	1.303 1	1.271 9	1.268 1	1.238 1	1.245 0	1.253 4	1.271 9	1.276 9	1.312 5
1 $\frac{5}{16}$ -18	UNEF	1.312 5	1.303 8	1.276 4	1.272 7	1.246 3	1.252 0	1.260 5	1.276 4	1.281 2	1.312 5
1 $\frac{5}{16}$ -20	UN	1.312 5	1.304 4	1.280 0	1.276 5	1.253 0	1.258 0	1.266 1	1.280 0	1.284 6	1.312 5
1 $\frac{5}{16}$ -28	UN	1.312 5	1.306 0	1.289 3	1.286 2	1.270 0	1.274 0	1.280 1	1.289 3	1.293 3	1.312 5
1 $\frac{3}{8}$ -6	UNC	1.375 0	1.356 8	1.266 7	1.260 7	1.176 5	1.195 0	1.214 6	1.266 7	1.274 5	1.375 0
1 $\frac{3}{8}$ -8	UN	1.375 0	1.360 0	1.293 8	1.288 4	1.226 2	1.240 0	1.254 7	1.293 8	1.300 8	1.375 0
1 $\frac{3}{8}$ -12	UNF	1.375 0	1.363 6	1.320 9	1.316 2	1.275 8	1.285 0	1.294 8	1.320 9	1.327 0	1.375 0
1 $\frac{3}{8}$ -16	UN	1.375 0	1.365 6	1.334 4	1.330 5	1.300 6	1.307 0	1.315 9	1.334 4	1.339 4	1.375 0
1 $\frac{3}{8}$ -18	UNEF	1.375 0	1.366 3	1.338 9	1.335 2	1.308 8	1.315 0	1.323 0	1.338 9	1.343 7	1.375 0
1 $\frac{3}{8}$ -20	UN	1.375 0	1.366 9	1.342 5	1.339 0	1.315 5	1.321 0	1.328 6	1.342 5	1.347 1	1.375 0
1 $\frac{3}{8}$ -28	UN	1.375 0	1.368 5	1.351 8	1.348 7	1.332 5	1.336 0	1.342 6	1.351 8	1.355 8	1.375 0

表 2 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	
1 $\frac{1}{8}$ -6	UN	1.437 5	1.419 3	1.329 2	1.323 2	1.239 0	1.257 0	1.277 1	1.329 2	1.337 0	1.437 5
1 $\frac{1}{8}$ -8	UN	1.437 5	1.422 5	1.356 3	1.350 9	1.288 7	1.302 0	1.317 2	1.356 3	1.363 4	1.437 5
1 $\frac{1}{8}$ -12	UN	1.437 5	1.426 1	1.383 4	1.379 0	1.338 3	1.347 0	1.357 3	1.383 4	1.389 1	1.437 5
1 $\frac{1}{8}$ -16	UN	1.437 5	1.428 1	1.396 9	1.393 0	1.363 1	1.370 0	1.378 4	1.396 9	1.402 0	1.437 5
1 $\frac{1}{8}$ -18	UNEF	1.437 5	1.428 8	1.401 4	1.397 7	1.371 3	1.377 0	1.385 5	1.401 4	1.406 2	1.437 5
1 $\frac{1}{8}$ -20	UN	1.437 5	1.429 4	1.405 0	1.401 4	1.378 0	1.383 0	1.391 1	1.405 0	1.409 6	1.437 5
1 $\frac{1}{8}$ -28	UN	1.437 5	1.431 0	1.414 3	1.411 2	1.395 0	1.399 0	1.405 1	1.414 3	1.418 4	1.437 5
1 $\frac{1}{2}$ -6	UNC	1.500 0	1.481 8	1.391 7	1.385 6	1.301 5	1.320 0	1.339 6	1.391 7	1.399 6	1.500 0
1 $\frac{1}{2}$ -8	UN	1.500 0	1.485 0	1.418 8	1.413 3	1.351 2	1.365 0	1.379 7	1.418 8	1.425 9	1.500 0
1 $\frac{1}{2}$ -12	UNF	1.500 0	1.488 6	1.445 9	1.441 1	1.400 8	1.410 0	1.419 8	1.445 9	1.452 2	1.500 0
1 $\frac{1}{2}$ -16	UN	1.500 0	1.490 6	1.459 4	1.455 5	1.425 6	1.432 0	1.440 9	1.459 4	1.464 5	1.500 0
1 $\frac{1}{2}$ -18	UNEF	1.500 0	1.491 3	1.463 9	1.460 2	1.433 8	1.440 0	1.448 0	1.463 9	1.468 7	1.500 0
1 $\frac{1}{2}$ -20	UN	1.500 0	1.491 9	1.467 5	1.463 9	1.440 5	1.446 0	1.453 6	1.467 5	1.472 1	1.500 0
1 $\frac{1}{2}$ -28	UN	1.500 0	1.493 5	1.476 8	1.473 7	1.457 5	1.461 0	1.467 6	1.476 8	1.480 9	1.500 0
1 $\frac{3}{8}$ -6	UN	1.562 5	1.544 3	1.454 2	1.448 1	1.364 0	1.382 0	1.402 1	1.454 2	1.462 2	1.562 5
1 $\frac{3}{8}$ -8	UN	1.562 5	1.547 5	1.481 3	1.475 8	1.413 7	1.427 0	1.442 2	1.481 3	1.488 5	1.562 5
1 $\frac{3}{8}$ -12	UN	1.562 5	1.551 1	1.508 4	1.504 0	1.463 3	1.472 0	1.482 3	1.508 4	1.514 2	1.562 5
1 $\frac{3}{8}$ -16	UN	1.562 5	1.553 1	1.521 9	1.518 0	1.488 1	1.495 0	1.503 4	1.521 9	1.527 0	1.562 5
1 $\frac{3}{8}$ -18	UNEF	1.562 5	1.553 8	1.526 4	1.522 7	1.496 3	1.502 0	1.510 5	1.526 4	1.531 3	1.562 5
1 $\frac{3}{8}$ -20	UN	1.562 5	1.554 4	1.530 0	1.526 4	1.503 0	1.508 0	1.516 1	1.530 0	1.534 7	1.562 5
1 $\frac{5}{8}$ -6	UN	1.625 0	1.606 8	1.516 7	1.510 5	1.426 5	1.445 0	1.464 6	1.516 7	1.524 7	1.625 0
1 $\frac{5}{8}$ -8	UN	1.625 0	1.610 0	1.543 8	1.538 2	1.476 2	1.490 0	1.504 7	1.543 8	1.551 0	1.625 0
1 $\frac{5}{8}$ -12	UN	1.625 0	1.613 6	1.570 9	1.566 5	1.525 8	1.535 0	1.544 8	1.570 9	1.576 7	1.625 0
1 $\frac{5}{8}$ -16	UN	1.625 0	1.615 6	1.584 4	1.580 5	1.550 6	1.557 0	1.565 9	1.584 4	1.589 5	1.625 0
1 $\frac{5}{8}$ -18	UNEF	1.625 0	1.616 3	1.588 9	1.585 1	1.558 8	1.565 0	1.573 0	1.588 9	1.593 8	1.625 0
1 $\frac{5}{8}$ -20	UN	1.625 0	1.616 9	1.592 5	1.588 9	1.565 5	1.571 0	1.578 6	1.592 5	1.597 2	1.625 0
1 $\frac{11}{16}$ -6	UN	1.687 5	1.669 3	1.579 2	1.573 0	1.489 0	1.507 0	1.527 1	1.579 2	1.587 3	1.687 5
1 $\frac{11}{16}$ -8	UN	1.687 5	1.672 5	1.606 3	1.600 7	1.538 7	1.552 0	1.567 2	1.606 3	1.613 6	1.687 5
1 $\frac{11}{16}$ -12	UN	1.687 5	1.676 1	1.633 4	1.628 9	1.588 3	1.597 0	1.607 3	1.633 4	1.639 2	1.687 5
1 $\frac{11}{16}$ -16	UN	1.687 5	1.678 1	1.646 9	1.642 9	1.613 1	1.620 0	1.628 4	1.646 9	1.652 0	1.687 5
1 $\frac{11}{16}$ -18	UNEF	1.687 5	1.678 8	1.651 4	1.647 6	1.621 3	1.627 0	1.635 5	1.651 4	1.656 3	1.687 5
1 $\frac{11}{16}$ -20	UN	1.687 5	1.679 4	1.655 0	1.651 4	1.628 0	1.633 0	1.641 1	1.655 0	1.659 7	1.687 5

表 2 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	
1 $\frac{3}{4}$ -5	UNC	1.750 0	1.729 5	1.620 1	1.613 4	1.511 8	1.533 0	1.557 5	1.620 1	1.628 8	1.750 0
1 $\frac{3}{4}$ -6	UN	1.750 0	1.731 8	1.641 7	1.635 4	1.551 5	1.570 0	1.589 6	1.641 7	1.649 8	1.750 0
1 $\frac{3}{4}$ -8	UN	1.750 0	1.735 0	1.668 8	1.663 1	1.601 2	1.615 0	1.629 7	1.668 8	1.676 2	1.750 0
1 $\frac{3}{4}$ -12	UN	1.750 0	1.738 6	1.695 9	1.691 4	1.650 8	1.660 0	1.669 8	1.695 9	1.701 7	1.750 0
1 $\frac{3}{4}$ -16	UN	1.750 0	1.740 6	1.709 4	1.705 4	1.675 6	1.682 0	1.690 9	1.709 4	1.714 6	1.750 0
1 $\frac{3}{4}$ -20	UN	1.750 0	1.741 9	1.717 5	1.713 9	1.690 5	1.696 0	1.703 6	1.717 5	1.722 2	1.750 0
1 $\frac{13}{16}$ -6	UN	1.812 5	1.794 3	1.704 2	1.697 9	1.614 0	1.632 0	1.652 1	1.704 2	1.712 4	1.812 5
1 $\frac{13}{16}$ -8	UN	1.812 5	1.797 5	1.731 3	1.725 6	1.663 7	1.677 0	1.692 2	1.731 3	1.738 7	1.812 5
1 $\frac{13}{16}$ -12	UN	1.812 5	1.801 1	1.758 4	1.753 9	1.713 3	1.722 0	1.732 3	1.758 4	1.764 2	1.812 5
1 $\frac{13}{16}$ -16	UN	1.812 5	1.803 1	1.771 9	1.767 9	1.738 1	1.745 0	1.753 4	1.771 9	1.777 1	1.812 5
1 $\frac{13}{16}$ -20	UN	1.812 5	1.804 4	1.780 0	1.776 3	1.753 0	1.758 0	1.766 1	1.780 0	1.784 7	1.812 5
1 $\frac{7}{8}$ -6	UN	1.875 0	1.856 8	1.766 7	1.760 4	1.676 5	1.695 0	1.714 6	1.766 7	1.774 9	1.875 0
1 $\frac{7}{8}$ -8	UN	1.875 0	1.860 0	1.793 8	1.788 1	1.726 2	1.740 0	1.754 7	1.793 8	1.801 3	1.875 0
1 $\frac{7}{8}$ -12	UN	1.875 0	1.863 6	1.820 9	1.816 4	1.775 8	1.785 0	1.794 8	1.820 9	1.826 8	1.875 0
1 $\frac{7}{8}$ -16	UN	1.875 0	1.865 6	1.834 4	1.830 4	1.800 6	1.807 0	1.815 9	1.834 4	1.839 6	1.875 0
1 $\frac{7}{8}$ -20	UN	1.875 0	1.866 9	1.842 5	1.838 8	1.815 5	1.821 0	1.828 6	1.842 5	1.847 3	1.875 0
1 $\frac{15}{16}$ -6	UN	1.937 5	1.919 3	1.829 2	1.822 8	1.739 0	1.757 0	1.777 1	1.829 2	1.837 5	1.937 5
1 $\frac{15}{16}$ -8	UN	1.937 5	1.922 5	1.856 3	1.850 5	1.788 7	1.802 0	1.817 2	1.856 3	1.863 8	1.937 5
1 $\frac{15}{16}$ -12	UN	1.937 5	1.926 1	1.883 4	1.878 9	1.838 3	1.847 0	1.857 3	1.883 4	1.889 3	1.937 5
1 $\frac{15}{16}$ -16	UN	1.937 5	1.928 1	1.896 9	1.892 9	1.863 1	1.870 0	1.878 4	1.896 9	1.902 1	1.937 5
1 $\frac{15}{16}$ -20	UN	1.937 5	1.929 4	1.905 0	1.901 3	1.878 0	1.883 0	1.891 1	1.905 0	1.909 8	1.937 5
2-4 $\frac{1}{2}$	UNC	2.000 0	1.978 0	1.855 7	1.848 6	1.735 4	1.759 0	1.786 1	1.855 7	1.865 0	2.000 0
2-6	UN	2.000 0	1.981 8	1.891 7	1.885 3	1.801 5	1.820 0	1.839 6	1.891 7	1.900 0	2.000 0
2-8	UN	2.000 0	1.985 0	1.918 8	1.913 0	1.851 2	1.865 0	1.879 7	1.918 8	1.926 4	2.000 0
2-12	UN	2.000 0	1.988 6	1.945 9	1.941 4	1.900 8	1.910 0	1.919 8	1.945 9	1.951 8	2.000 0
2-16	UN	2.000 0	1.990 6	1.959 4	1.955 4	1.925 6	1.932 0	1.940 9	1.959 4	1.964 6	2.000 0
2-20	UN	2.000 0	1.991 9	1.967 5	1.963 8	1.940 5	1.946 0	1.953 6	1.967 5	1.972 3	2.000 0
2 $\frac{1}{8}$ -6	UN	2.125 0	2.106 8	2.016 7	2.010 2	1.926 5	1.945 0	1.964 6	2.016 7	2.025 1	2.125 0
2 $\frac{1}{8}$ -8	UN	2.125 0	2.110 0	2.043 8	2.037 9	1.976 2	1.990 0	2.004 7	2.043 8	2.051 5	2.125 0
2 $\frac{1}{8}$ -12	UN	2.125 0	2.113 6	2.070 9	2.066 3	2.025 8	2.035 0	2.044 8	2.070 9	2.076 8	2.125 0
2 $\frac{1}{8}$ -16	UN	2.125 0	2.115 6	2.084 4	2.080 3	2.050 6	2.057 0	2.065 9	2.084 4	2.089 7	2.125 0
2 $\frac{1}{8}$ -20	UN	2.125 0	2.116 9	2.092 5	2.088 8	2.065 5	2.071 0	2.078 6	2.092 5	2.097 3	2.125 0

表 2 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
2¼-4½	UNC	2.250 0	2.228 0	2.105 7	2.098 4	1.985 4	2.009 0	2.036 1	2.105 7	2.115 2	2.250 0
2¼-6	UN	2.250 0	2.231 8	2.141 7	2.135 1	2.051 5	2.070 0	2.089 6	2.141 7	2.150 2	2.250 0
2¼-8	UN	2.250 0	2.235 0	2.168 8	2.162 8	2.101 2	2.115 0	2.129 7	2.168 8	2.176 6	2.250 0
2¼-12	UN	2.250 0	2.238 6	2.195 9	2.191 3	2.150 8	2.160 0	2.169 8	2.195 9	2.201 9	2.250 0
2¼-16	UN	2.250 0	2.240 6	2.209 4	2.205 3	2.175 6	2.182 0	2.190 9	2.209 4	2.214 7	2.250 0
2¼-20	UN	2.250 0	2.241 9	2.217 5	2.213 7	2.190 5	2.196 0	2.203 6	2.217 5	2.222 4	2.250 0
2⅜-6	UN	2.375 0	2.356 8	2.266 7	2.260 1	2.176 5	2.195 0	2.214 6	2.266 7	2.275 3	2.375 0
2⅜-8	UN	2.375 0	2.360 0	2.293 8	2.287 8	2.226 2	2.240 0	2.254 7	2.293 8	2.301 7	2.375 0
2⅜-12	UN	2.375 0	2.363 6	2.320 9	2.316 3	2.275 8	2.285 0	2.294 8	2.320 9	2.326 9	2.375 0
2⅜-16	UN	2.375 0	2.365 6	2.334 4	2.330 3	2.300 6	2.307 0	2.315 9	2.334 4	2.339 8	2.375 0
2⅜-20	UN	2.375 0	2.366 9	2.342 5	2.338 7	2.315 5	2.321 0	2.328 6	2.342 5	2.347 4	2.375 0
2½-4	UNC	2.500 0	2.476 2	2.337 6	2.329 8	2.202 3	2.229 0	2.259 4	2.337 6	2.347 7	2.500 0
2½-6	UN	2.500 0	2.481 8	2.391 7	2.385 0	2.301 5	2.320 0	2.339 6	2.391 7	2.400 4	2.500 0
2½-8	UN	2.500 0	2.485 0	2.418 8	2.412 7	2.351 2	2.365 0	2.379 7	2.418 8	2.426 8	2.500 0
2½-12	UN	2.500 0	2.488 6	2.445 9	2.441 3	2.400 8	2.410 0	2.419 8	2.445 9	2.451 9	2.500 0
2½-16	UN	2.500 0	2.490 6	2.459 4	2.455 3	2.425 6	2.432 0	2.440 9	2.459 4	2.464 8	2.500 0
2½-20	UN	2.500 0	2.491 9	2.467 5	2.463 7	2.440 5	2.446 0	2.453 6	2.467 5	2.472 5	2.500 0
2⅝-6	UN	2.625 0	2.606 8	2.516 7	2.509 9	2.426 5	2.445 0	2.464 6	2.516 7	2.525 5	2.625 0
2⅝-8	UN	2.625 0	2.610 0	2.543 8	2.537 6	2.476 2	2.490 0	2.504 7	2.543 8	2.551 8	2.625 0
2⅝-12	UN	2.625 0	2.613 6	2.570 9	2.566 2	2.525 8	2.535 0	2.544 8	2.570 9	2.577 0	2.625 0
2⅝-16	UN	2.625 0	2.615 6	2.584 4	2.580 2	2.550 6	2.557 0	2.565 9	2.584 4	2.589 8	2.625 0
2⅝-20	UN	2.625 0	2.616 9	2.592 5	2.588 7	2.565 5	2.571 0	2.578 6	2.592 5	2.597 5	2.625 0
2¾-4	UNC	2.750 0	2.726 2	2.587 6	2.579 7	2.452 3	2.479 0	2.509 4	2.587 6	2.597 9	2.750 0
2¾-6	UN	2.750 0	2.731 8	2.641 7	2.634 9	2.551 5	2.570 0	2.589 6	2.641 7	2.650 6	2.750 0
2¾-8	UN	2.750 0	2.735 0	2.668 8	2.662 5	2.601 2	2.615 0	2.629 7	2.668 8	2.676 9	2.750 0
2¾-12	UN	2.750 0	2.738 6	2.695 9	2.691 2	2.650 8	2.660 0	2.669 8	2.695 9	2.702 0	2.750 0
2¾-16	UN	2.750 0	2.740 6	2.709 4	2.705 2	2.675 6	2.682 0	2.690 9	2.709 4	2.714 8	2.750 0
2¾-20	UN	2.750 0	2.741 9	2.717 5	2.713 6	2.690 5	2.696 0	2.703 6	2.717 5	2.722 5	2.750 0
2⅞-6	UN	2.875 0	2.856 8	2.766 7	2.759 8	2.676 5	2.695 0	2.714 6	2.766 7	2.775 7	2.875 0
2⅞-8	UN	2.875 0	2.860 0	2.793 8	2.787 5	2.726 2	2.740 0	2.754 7	2.793 8	2.802 0	2.875 0
2⅞-12	UN	2.875 0	2.863 6	2.820 9	2.816 2	2.775 8	2.785 0	2.794 8	2.820 9	2.827 0	2.875 0
2⅞-16	UN	2.875 0	2.865 6	2.834 4	2.830 2	2.800 6	2.807 0	2.815 9	2.834 4	2.839 9	2.875 0
2⅞-20	UN	2.875 0	2.866 9	2.842 5	2.838 6	2.815 5	2.821 0	2.828 6	2.842 5	2.847 5	2.875 0

表 2 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	
3-4	UNC	3.000 0	2.976 2	2.837 6	2.829 6	2.702 3	2.729 0	2.759 4	2.837 6	2.848 0	3.000 0
3-6	UN	3.000 0	2.981 8	2.891 7	2.884 7	2.801 5	2.820 0	2.839 6	2.891 7	2.900 8	3.000 0
3-8	UN	3.000 0	2.985 0	2.918 8	2.912 4	2.851 2	2.865 0	2.879 7	2.918 8	2.927 1	3.000 0
3-12	UN	3.000 0	2.988 6	2.945 9	2.941 2	2.900 8	2.910 0	2.919 8	2.945 9	2.952 1	3.000 0
3-16	UN	3.000 0	2.990 6	2.959 4	2.955 2	2.925 6	2.932 0	2.940 9	2.959 4	2.964 9	3.000 0
3-20	UN	3.000 0	2.991 9	2.967 5	2.963 6	2.940 5	2.946 0	2.953 6	2.967 5	2.972 6	3.000 0
3 $\frac{1}{8}$ -6	UN	3.125 0	3.106 8	3.016 7	3.009 7	2.926 5	2.945 0	2.964 6	3.016 7	3.025 9	3.125 0
3 $\frac{1}{8}$ -8	UN	3.125 0	3.110 0	3.043 8	3.037 4	2.976 2	2.990 0	3.004 7	3.043 8	3.052 2	3.125 0
3 $\frac{1}{8}$ -12	UN	3.125 0	3.113 6	3.070 9	3.066 1	3.025 8	3.035 0	3.044 8	3.070 9	3.077 1	3.125 0
3 $\frac{1}{8}$ -16	UN	3.125 0	3.115 6	3.084 4	3.080 1	3.050 6	3.057 0	3.065 9	3.084 4	3.089 9	3.125 0
3 $\frac{1}{4}$ -4	UNC	3.250 0	3.226 2	3.087 6	3.079 4	2.952 3	2.979 0	3.009 4	3.087 6	3.098 2	3.250 0
3 $\frac{1}{4}$ -6	UN	3.250 0	3.231 8	3.141 7	3.134 6	3.051 5	3.070 0	3.089 6	3.141 7	3.150 9	3.250 0
3 $\frac{1}{4}$ -8	UN	3.250 0	3.235 0	3.168 8	3.162 3	3.101 2	3.115 0	3.129 7	3.168 8	3.177 3	3.250 0
3 $\frac{1}{4}$ -12	UN	3.250 0	3.238 6	3.195 9	3.191 1	3.150 8	3.160 0	3.169 8	3.195 9	3.202 1	3.250 0
3 $\frac{1}{4}$ -16	UN	3.250 0	3.240 6	3.209 4	3.205 1	3.175 6	3.182 0	3.190 9	3.209 4	3.215 0	3.250 0
3 $\frac{3}{8}$ -6	UN	3.375 0	3.356 8	3.266 7	3.259 5	3.176 5	3.195 0	3.214 6	3.266 7	3.276 0	3.375 0
3 $\frac{3}{8}$ -8	UN	3.375 0	3.360 0	3.293 8	3.287 2	3.226 2	3.240 0	3.254 7	3.293 8	3.302 3	3.375 0
3 $\frac{3}{8}$ -12	UN	3.375 0	3.363 6	3.320 9	3.316 1	3.275 8	3.285 0	3.294 8	3.320 9	3.327 2	3.375 0
3 $\frac{3}{8}$ -16	UN	3.375 0	3.365 6	3.334 4	3.330 1	3.300 6	3.307 0	3.315 9	3.334 4	3.340 0	3.375 0
3 $\frac{1}{2}$ -4	UNC	3.500 0	3.476 2	3.337 6	3.329 3	3.202 3	3.229 0	3.259 4	3.337 6	3.348 4	3.500 0
3 $\frac{1}{2}$ -6	UN	3.500 0	3.481 8	3.391 7	3.384 5	3.301 5	3.320 0	3.339 6	3.391 7	3.401 1	3.500 0
3 $\frac{1}{2}$ -8	UN	3.500 0	3.485 0	3.418 8	3.412 2	3.351 2	3.365 0	3.379 7	3.418 8	3.427 4	3.500 0
3 $\frac{1}{2}$ -12	UN	3.500 0	3.488 6	3.445 9	3.441 1	3.400 8	3.410 0	3.419 8	3.445 9	3.452 2	3.500 0
3 $\frac{1}{2}$ -16	UN	3.500 0	3.490 6	3.459 4	3.455 1	3.425 6	3.432 0	3.440 9	3.459 4	3.465 0	3.500 0
3 $\frac{5}{8}$ -6	UN	3.625 0	3.606 8	3.516 7	3.509 4	3.426 5	3.445 0	3.464 6	3.516 7	3.526 2	3.625 0
3 $\frac{5}{8}$ -8	UN	3.625 0	3.610 0	3.543 8	3.537 1	3.476 2	3.490 0	3.504 7	3.543 8	3.552 5	3.625 0
3 $\frac{5}{8}$ -12	UN	3.625 0	3.613 6	3.570 9	3.566 1	3.525 8	3.535 0	3.544 8	3.570 9	3.577 2	3.625 0
3 $\frac{5}{8}$ -16	UN	3.625 0	3.615 6	3.584 4	3.580 1	3.550 6	3.557 0	3.565 9	3.584 4	3.590 0	3.625 0
3 $\frac{3}{4}$ -4	UNC	3.750 0	3.726 2	3.587 6	3.579 2	3.452 3	3.479 0	3.509 4	3.587 6	3.598 5	3.750 0
3 $\frac{3}{4}$ -6	UN	3.750 0	3.731 8	3.641 7	3.634 4	3.551 5	3.570 0	3.589 6	3.641 7	3.651 2	3.750 0
3 $\frac{3}{4}$ -8	UN	3.750 0	3.735 0	3.668 8	3.662 1	3.601 2	3.615 0	3.629 7	3.668 8	3.677 6	3.750 0
3 $\frac{3}{4}$ -12	UN	3.750 0	3.738 6	3.695 9	3.691 0	3.650 8	3.660 0	3.669 8	3.695 9	3.702 2	3.750 0
3 $\frac{3}{4}$ -16	UN	3.750 0	3.740 6	3.709 4	3.705 0	3.675 6	3.682 0	3.690 9	3.709 4	3.715 1	3.750 0

表 2 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
3 $\frac{7}{8}$ -6	UN	3.875 0	3.856 8	3.766 7	3.759 3	3.676 5	3.695 0	3.714 6	3.766 7	3.776 3	3.875 0
3 $\frac{7}{8}$ -8	UN	3.875 0	3.860 0	3.793 8	3.787 0	3.726 2	3.740 0	3.754 7	3.793 8	3.802 6	3.875 0
3 $\frac{7}{8}$ -12	UN	3.875 0	3.863 6	3.820 9	3.816 0	3.775 8	3.785 0	3.794 8	3.820 9	3.827 3	3.875 0
3 $\frac{7}{8}$ -16	UN	3.875 0	3.865 6	3.834 4	3.830 0	3.800 6	3.807 0	3.815 9	3.834 4	3.840 1	3.875 0
4-4	UNC	4.000 0	3.976 2	3.837 6	3.829 1	3.702 3	3.729 0	3.759 4	3.837 6	3.848 7	4.000 0
4-6	UN	4.000 0	3.981 8	3.891 7	3.884 3	3.801 5	3.820 0	3.839 6	3.891 7	3.901 4	4.000 0
4-8	UN	4.000 0	3.985 0	3.918 8	3.912 0	3.851 2	3.865 0	3.879 7	3.918 8	3.927 7	4.000 0
4-12	UN	4.000 0	3.988 6	3.945 9	3.941 0	3.900 8	3.910 0	3.919 8	3.945 9	3.952 3	4.000 0
4-16	UN	4.000 0	3.990 6	3.959 4	3.955 0	3.925 6	3.932 0	3.940 9	3.959 4	3.965 1	4.000 0
4 $\frac{1}{8}$ -6	UN	4.125 0	4.106 8	4.016 7	4.009 2	3.926 5	3.945 0	3.964 6	4.016 7	4.026 4	4.125 0
4 $\frac{1}{8}$ -8	UN	4.125 0	4.110 0	4.043 8	4.036 9	3.976 2	3.990 0	4.004 7	4.043 8	4.052 8	4.125 0
4 $\frac{1}{8}$ -12	UN	4.125 0	4.113 6	4.070 9	4.066 0	4.025 8	4.035 0	4.044 8	4.070 9	4.077 3	4.125 0
4 $\frac{1}{8}$ -16	UN	4.125 0	4.115 6	4.084 4	4.080 0	4.050 6	4.057 0	4.065 9	4.084 4	4.090 1	4.125 0
4 $\frac{1}{4}$ -4	UN	4.250 0	4.226 2	4.087 6	4.079 0	3.952 3	3.979 0	4.009 4	4.087 6	4.098 8	4.250 0
4 $\frac{1}{4}$ -6	UN	4.250 0	4.231 8	4.141 7	4.134 2	4.051 5	4.070 0	4.089 6	4.141 7	4.151 5	4.250 0
4 $\frac{1}{4}$ -8	UN	4.250 0	4.235 0	4.168 8	4.161 8	4.101 2	4.115 0	4.129 7	4.168 8	4.177 8	4.250 0
4 $\frac{1}{4}$ -12	UN	4.250 0	4.238 6	4.195 9	4.191 0	4.150 8	4.160 0	4.169 8	4.195 9	4.202 3	4.250 0
4 $\frac{1}{4}$ -16	UN	4.250 0	4.240 6	4.209 4	4.205 0	4.175 6	4.182 0	4.190 9	4.209 4	4.215 2	4.250 0
4 $\frac{3}{8}$ -6	UN	4.375 0	4.356 8	4.266 7	4.259 1	4.176 5	4.195 0	4.214 6	4.266 7	4.276 6	4.375 0
4 $\frac{3}{8}$ -8	UN	4.375 0	4.360 0	4.293 8	4.286 8	4.226 2	4.240 0	4.254 7	4.293 8	4.302 9	4.375 0
4 $\frac{3}{8}$ -12	UN	4.375 0	4.363 6	4.320 9	4.315 9	4.275 8	4.285 0	4.294 8	4.320 9	4.327 3	4.375 0
4 $\frac{3}{8}$ -16	UN	4.375 0	4.365 6	4.334 4	4.329 9	4.300 6	4.307 0	4.315 9	4.334 4	4.340 2	4.375 0
4 $\frac{1}{2}$ -4	UN	4.500 0	4.476 2	4.337 6	4.328 9	4.202 3	4.229 0	4.259 4	4.337 6	4.348 9	4.500 0
4 $\frac{1}{2}$ -6	UN	4.500 0	4.481 8	4.391 7	4.384 0	4.301 5	4.320 0	4.339 6	4.391 7	4.401 6	4.500 0
4 $\frac{1}{2}$ -8	UN	4.500 0	4.485 0	4.418 8	4.411 7	4.351 2	4.365 0	4.379 7	4.418 8	4.428 0	4.500 0
4 $\frac{1}{2}$ -12	UN	4.500 0	4.488 6	4.445 9	4.440 9	4.400 8	4.410 0	4.419 8	4.445 9	4.452 4	4.500 0
4 $\frac{1}{2}$ -16	UN	4.500 0	4.490 6	4.459 4	4.454 9	4.425 6	4.432 0	4.440 9	4.459 4	4.465 2	4.500 0
4 $\frac{5}{8}$ -6	UN	4.625 0	4.606 8	4.516 7	4.509 0	4.426 5	4.445 0	4.464 6	4.516 7	4.526 7	4.625 0
4 $\frac{5}{8}$ -8	UN	4.625 0	4.610 0	4.543 8	4.536 7	4.476 2	4.490 0	4.504 7	4.543 8	4.553 0	4.625 0
4 $\frac{5}{8}$ -12	UN	4.625 0	4.613 6	4.570 9	4.565 9	4.525 8	4.535 0	4.544 8	4.570 9	4.577 4	4.625 0
4 $\frac{5}{8}$ -16	UN	4.625 0	4.615 6	4.584 4	4.579 9	4.550 6	4.557 0	4.565 9	4.584 4	4.590 2	4.625 0

表 2 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
4 $\frac{3}{4}$ -4	UN	4.750 0	4.726 2	4.587 6	4.578 8	4.452 3	4.479 0	4.509 4	4.587 6	4.599 0	4.750 0
4 $\frac{3}{4}$ -6	UN	4.750 0	4.731 8	4.641 7	4.634 0	4.551 5	4.570 0	4.589 6	4.641 7	4.651 8	4.750 0
4 $\frac{3}{4}$ -8	UN	4.750 0	4.735 0	4.668 8	4.661 6	4.601 2	4.615 0	4.629 7	4.668 8	4.678 1	4.750 0
4 $\frac{3}{4}$ -12	UN	4.750 0	4.738 6	4.695 9	4.690 9	4.650 8	4.660 0	4.669 8	4.695 9	4.702 4	4.750 0
4 $\frac{3}{4}$ -16	UN	4.750 0	4.740 6	4.709 4	4.704 9	4.675 6	4.682 0	4.690 9	4.709 4	4.715 3	4.750 0
4 $\frac{7}{8}$ -6	UN	4.875 0	4.856 8	4.766 7	4.758 9	4.676 5	4.695 0	4.714 6	4.766 7	4.776 8	4.875 0
4 $\frac{7}{8}$ -8	UN	4.875 0	4.860 0	4.793 8	4.786 6	4.726 2	4.740 0	4.754 7	4.793 8	4.803 2	4.875 0
4 $\frac{7}{8}$ -12	UN	4.875 0	4.863 6	4.820 9	4.815 9	4.775 8	4.785 0	4.794 8	4.820 9	4.827 4	4.875 0
4 $\frac{7}{8}$ -16	UN	4.875 0	4.865 6	4.834 4	4.829 9	4.800 6	4.807 0	4.815 9	4.834 4	4.840 3	4.875 0
5-4	UN	5.000 0	4.976 2	4.837 6	4.828 7	4.702 3	4.729 0	4.759 4	4.837 6	4.849 2	5.000 0
5-6	UN	5.000 0	4.981 8	4.891 7	4.883 9	4.801 5	4.820 0	4.839 6	4.891 7	4.901 9	5.000 0
5-8	UN	5.000 0	4.985 0	4.918 8	4.911 5	4.851 2	4.865 0	4.879 7	4.918 8	4.928 2	5.000 0
5-12	UN	5.000 0	4.988 6	4.945 9	4.940 9	4.900 8	4.910 0	4.919 8	4.945 9	4.952 5	5.000 0
5-16	UN	5.000 0	4.990 6	4.959 4	4.954 9	4.925 6	4.932 0	4.940 9	4.959 4	4.965 3	5.000 0
5 $\frac{1}{8}$ -6	UN	5.125 0	5.106 8	5.016 7	5.008 8	4.926 5	4.945 0	4.964 6	5.016 7	5.027 0	5.125 0
5 $\frac{1}{8}$ -8	UN	5.125 0	5.110 0	5.043 8	5.036 5	4.976 2	4.990 0	5.004 7	5.043 8	5.053 3	5.125 0
5 $\frac{1}{8}$ -12	UN	5.125 0	5.113 6	5.070 9	5.065 8	5.025 8	5.035 0	5.044 8	5.070 9	5.077 5	5.125 0
5 $\frac{1}{8}$ -16	UN	5.125 0	5.115 6	5.084 4	5.079 8	5.050 6	5.057 0	5.065 9	5.084 4	5.090 3	5.125 0
5 $\frac{1}{4}$ -4	UN	5.250 0	5.226 2	5.087 6	5.078 6	4.952 3	4.979 0	5.009 4	5.087 6	5.099 3	5.250 0
5 $\frac{1}{4}$ -6	UN	5.250 0	5.231 8	5.141 7	5.133 8	5.051 5	5.070 0	5.089 6	5.141 7	5.152 0	5.250 0
5 $\frac{1}{4}$ -8	UN	5.250 0	5.235 0	5.168 8	5.161 5	5.101 2	5.115 0	5.129 7	5.168 8	5.178 3	5.250 0
5 $\frac{1}{4}$ -12	UN	5.250 0	5.238 6	5.195 9	5.190 8	5.150 8	5.160 0	5.169 8	5.195 9	5.202 5	5.250 0
5 $\frac{1}{4}$ -16	UN	5.250 0	5.240 6	5.209 4	5.204 8	5.175 6	5.182 0	5.190 9	5.209 4	5.215 3	5.250 0
5 $\frac{3}{8}$ -6	UN	5.375 0	5.356 8	5.266 7	5.258 7	5.176 5	5.195 0	5.214 6	5.266 7	5.277 1	5.375 0
5 $\frac{3}{8}$ -8	UN	5.375 0	5.360 0	5.293 8	5.286 4	5.226 2	5.240 0	5.254 7	5.293 8	5.303 4	5.375 0
5 $\frac{3}{8}$ -12	UN	5.375 0	5.363 6	5.320 9	5.315 8	5.275 8	5.285 0	5.294 8	5.320 9	5.327 5	5.375 0
5 $\frac{3}{8}$ -16	UN	5.375 0	5.365 6	5.334 4	5.329 8	5.300 6	5.307 0	5.315 9	5.334 4	5.340 4	5.375 0
5 $\frac{1}{2}$ -4	UN	5.500 0	5.476 2	5.337 6	5.328 5	5.202 3	5.229 0	5.259 4	5.337 6	5.349 4	5.500 0
5 $\frac{1}{2}$ -6	UN	5.500 0	5.481 8	5.391 7	5.383 7	5.301 5	5.320 0	5.339 6	5.391 7	5.402 1	5.500 0
5 $\frac{1}{2}$ -8	UN	5.500 0	5.485 0	5.418 8	5.411 4	5.351 2	5.365 0	5.379 7	5.418 8	5.428 5	5.500 0
5 $\frac{1}{2}$ -12	UN	5.500 0	5.488 6	5.445 9	5.440 8	5.400 8	5.410 0	5.419 8	5.445 9	5.452 5	5.500 0
5 $\frac{1}{2}$ -16	UN	5.500 0	5.490 6	5.459 4	5.454 8	5.425 6	5.432 0	5.440 9	5.459 4	5.465 4	5.500 0



表 2 (续)

单位为英寸

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
5 $\frac{5}{8}$ -6	UN	5.625 0	5.606 8	5.516 7	5.508 6	5.426 5	5.445 0	5.464 6	5.516 7	5.527 2	5.625 0
5 $\frac{5}{8}$ -8	UN	5.625 0	5.610 0	5.543 8	5.536 3	5.476 2	5.490 0	5.504 7	5.543 8	5.553 5	5.625 0
5 $\frac{5}{8}$ -12	UN	5.625 0	5.613 6	5.570 9	5.565 8	5.525 8	5.535 0	5.544 8	5.570 9	5.577 6	5.625 0
5 $\frac{5}{8}$ -16	UN	5.625 0	5.615 6	5.584 4	5.579 8	5.550 6	5.557 0	5.565 9	5.584 4	5.590 4	5.625 0
5 $\frac{3}{4}$ -4	UN	5.750 0	5.726 2	5.587 6	5.578 4	5.452 3	5.479 0	5.509 4	5.587 6	5.599 5	5.750 0
5 $\frac{3}{4}$ -6	UN	5.750 0	5.731 8	5.641 7	5.633 6	5.551 5	5.570 0	5.589 6	5.641 7	5.652 3	5.750 0
5 $\frac{3}{4}$ -8	UN	5.750 0	5.735 0	5.668 8	5.661 3	5.601 2	5.615 0	5.629 7	5.668 8	5.678 6	5.750 0
5 $\frac{3}{4}$ -12	UN	5.750 0	5.738 6	5.695 9	5.690 8	5.650 8	5.660 0	5.669 8	5.695 9	5.702 6	5.750 0
5 $\frac{3}{4}$ -16	UN	5.750 0	5.740 6	5.709 4	5.704 8	5.675 6	5.682 0	5.690 9	5.709 4	5.715 4	5.750 0
5 $\frac{7}{8}$ -6	UN	5.875 0	5.856 8	5.766 7	5.758 5	5.676 5	5.695 0	5.714 6	5.766 7	5.777 3	5.875 0
5 $\frac{7}{8}$ -8	UN	5.875 0	5.860 0	5.793 8	5.786 2	5.726 2	5.740 0	5.754 7	5.793 8	5.803 6	5.875 0
5 $\frac{7}{8}$ -12	UN	5.875 0	5.863 6	5.820 9	5.815 7	5.775 8	5.785 0	5.794 8	5.820 9	5.827 6	5.875 0
5 $\frac{7}{8}$ -16	UN	5.875 0	5.865 6	5.834 4	5.829 8	5.800 6	5.807 0	5.815 9	5.834 4	5.840 4	5.875 0
6-4	UN	6.000 0	5.976 2	5.837 6	5.828 3	5.702 3	5.729 0	5.759 4	5.837 6	5.849 6	6.000 0
6-6	UN	6.000 0	5.981 8	5.891 7	5.883 5	5.801 5	5.820 0	5.839 6	5.891 7	5.902 4	6.000 0
6-8	UN	6.000 0	5.985 0	5.918 8	5.911 2	5.851 2	5.865 0	5.879 7	5.918 8	5.928 7	6.000 0
6-12	UN	6.000 0	5.988 6	5.945 9	5.940 7	5.900 8	5.910 0	5.919 8	5.945 9	5.952 6	6.000 0
6-16	UN	6.000 0	5.990 6	5.959 4	5.954 7	5.925 6	5.932 0	5.940 9	5.959 4	5.965 5	6.000 0

## 6 螺纹尺寸的米制化

先按英寸单位计算螺纹直径的极限尺寸(最终尺寸),然后利用 1 英寸等于 25.4 毫米进行米制尺寸转化,最后进行米制尺寸的圆整。

螺纹极限尺寸的米制转化值见附录 A。

附录 A  
(资料性附录)

## 统一螺纹极限尺寸的米制转化值

2A 和 2B 及 3A 和 3B 统一螺纹极限尺寸的米制转化值分别见表 A.1 和表 A.2。

表 A.1 标准系列、2A 和 2B 统一螺纹的极限尺寸

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
0-80	UNF	1.511 3	1.430 0	1.305 6	1.259 8	1.132 8	1.181 1	1.305 6	1.318 3	1.376 7	1.524 0
1-64	UNC	1.839 0	1.742 4	1.582 4	1.531 6	1.366 5	1.424 9	1.579 9	1.597 7	1.663 7	1.854 2
1-72	UNF	1.839 0	1.750 1	1.610 4	1.562 1	1.419 9	1.473 2	1.610 4	1.625 6	1.689 1	1.854 2
2-56	UNC	2.169 2	2.065 0	1.874 5	1.821 2	1.628 1	1.694 2	1.872 0	1.889 8	1.960 9	2.184 4
2-64	UNF	2.169 2	2.072 6	1.912 6	1.861 8	1.696 7	1.755 1	1.910 1	1.927 9	1.996 4	2.184 4
3-48	UNC	2.496 8	2.382 5	2.153 9	2.095 5	1.866 9	1.940 6	2.146 3	2.171 7	2.247 9	2.514 6
3-56	UNF	2.496 8	2.392 7	2.202 2	2.146 3	1.955 8	2.024 4	2.197 1	2.220 0	2.291 1	2.514 6
4-40	UNC	2.824 5	2.694 9	2.413 0	2.349 5	2.067 6	2.156 5	2.385 1	2.433 3	2.517 1	2.844 8
4-48	UNF	2.827 0	2.712 7	2.484 1	2.423 2	2.197 1	2.270 8	2.458 7	2.501 9	2.580 6	2.844 8
5-40	UNC	3.154 7	3.025 1	2.743 2	2.677 2	2.397 8	2.486 7	2.697 5	2.763 5	2.847 3	3.175 0
5-44	UNF	3.157 2	3.035 3	2.781 3	2.717 8	2.468 9	2.550 2	2.740 7	2.799 1	2.880 4	3.175 0
6-32	UNC	3.484 9	3.332 5	2.969 3	2.898 1	2.540 0	2.642	2.896	2.989 6	3.083 6	3.505 2
6-40	UNF	3.484 9	3.355 3	3.073 4	3.007 4	2.728 0	2.819	3.023	3.093 7	3.180 1	3.505 2
8-32	UNC	4.142 7	3.990 3	3.627 1	3.553 5	3.197 9	3.302	3.531	3.650 0	3.746 5	4.165 6
8-36	UNF	4.145 3	4.005 6	3.688 1	3.617 0	3.304 5	3.404	3.607	3.708 4	3.799 8	4.165 6
10-24	UNC	4.800 6	4.617 7	4.112 3	4.028 4	3.540 8	3.683	3.937	4.137 7	4.246 9	4.826 0
10-32	UNF	4.803 1	4.650 7	4.287 5	4.211 3	3.858 3	3.962	4.166	4.310 4	4.409 4	4.826 0
12-24	UNC	5.461 0	5.278 1	4.772 7	4.686 3	4.201 2	4.343	4.597	4.798 1	4.909 8	5.486 4
12-28	UNF	5.461 0	5.295 9	4.871 7	4.790 4	4.381 5	4.496	4.724	4.897 1	5.003 8	5.486 4
12-32	UNEF	5.461 0	5.308 6	4.945 4	4.864 1	4.516 1	4.623	4.826	4.970 8	5.074 9	5.486 4
1/4-20	UNC	6.322 1	6.116 3	5.496 6	5.402 6	4.810 8	4.978	5.258	5.524 5	5.649 0	6.350 0
1/4-28	UNF	6.324 6	6.159 5	5.735 3	5.651 5	5.245 1	5.359	5.588	5.760 7	5.869 9	6.350 0
1/4-32	UNEF	6.324 6	6.172 2	5.809 0	5.727 7	5.379 7	5.486	5.690	5.834 4	5.941 1	6.350 0
5/16-18	UNC	7.907 0	7.686 0	6.990 1	6.888 5	6.225 5	6.401	6.731	7.020 6	7.155 2	7.937 5
5/16-20	UN	7.907 0	7.701 3	7.081 5	6.977 4	6.395 7	6.553	6.858	7.112 0	7.246 6	7.937 5
5/16-24	UNF	7.909 6	7.726 7	7.221 2	7.127 2	6.649 7	6.782	7.036	7.249 2	7.371 1	7.937 5
5/16-28	UN	7.912 1	7.747 0	7.322 8	7.233 9	6.832 6	6.960	7.163	7.348 2	7.462 5	7.937 5
5/16-32	UNEF	7.912 1	7.759 7	7.396 5	7.312 7	6.967 2	7.087	7.264	7.421 9	7.531 1	7.937 5

表 A.1 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
3/8-16	UNC	9.492 0	9.253 2	8.460 7	8.349 0	7.602 2	7.798	8.153	8.493 8	8.638 5	9.525 0
3/8-20	UN	9.494 5	9.288 8	8.669 0	8.564 9	7.983 2	8.153	8.433	8.699 5	8.836 7	9.525 0
3/8-24	UNF	9.497 1	9.314 2	8.808 7	8.712 2	8.237 2	8.382	8.636	8.836 7	8.961 1	9.525 0
3/8-28	UN	9.497 1	9.332 0	8.907 8	8.816 3	8.417 6	8.534	8.763	8.935 7	9.052 6	9.525 0
3/8-32	UNEF	9.499 6	9.347 2	8.984 0	8.897 6	8.554 7	8.661	8.865	9.009 4	9.121 1	9.525 0
7/16-14	UNC	11.076 9	10.815 3	9.898 4	9.779 0	8.915 4	9.144	9.550	9.933 9	10.088 9	11.112 5
7/16-16	UN	11.076 9	10.838 2	10.045 7	9.928 9	9.187 2	9.398	9.754	10.081 3	10.233 7	11.112 5
7/16-20	UNF	11.079 5	10.873 7	10.254 0	10.147 3	9.568 2	9.728	10.033	10.287 0	10.424 2	11.112 5
7/16-28	UNEF	11.084 6	10.919 5	10.495 3	10.403 8	10.005 1	10.135	10.338	10.523 2	10.642 6	11.112 5
7/16-32	UN	11.087 1	10.934 7	10.571 5	10.485 1	10.142 2	10.262	10.439	10.596 9	10.708 6	11.112 5
1/2-13	UNC	12.661 9	12.385 0	11.391 9	11.264 9	10.335 3	10.592	11.024	11.430 0	11.595 1	12.700 0
1/2-16	UN	12.664 4	12.425 7	11.633 2	11.513 8	10.774 7	10.973	11.328	11.668 8	11.823 7	12.700 0
1/2-20	UNF	12.667 0	12.461 2	11.841 5	11.732 3	11.155 7	11.328	11.608	11.874 5	12.016 7	12.700 0
1/2-28	UNEF	12.672 1	12.507 0	12.082 8	11.988 8	11.592 6	11.70 9	11.93 8	12.110 7	12.232 6	12.700 0
1/2-32	UN	12.674 6	12.522 2	12.159 0	12.070 1	11.729 7	11.836	12.040	12.184 4	12.298 7	12.700 0
9/16-12	UNC	14.246 9	13.957 3	12.872 7	12.740 6	11.727 2	11.989	12.446	12.913 4	13.086 1	14.287 5
9/16-16	UN	14.251 9	14.013 2	13.220 7	13.101 3	12.362 2	12.573	12.929	13.256 3	13.411 2	14.287 5
9/16-18	UNF	14.251 9	14.031 0	13.335 0	13.220 7	12.570 5	12.751	13.081	13.370 6	13.520 4	14.287 5
9/16-20	UN	14.254 5	14.048 7	13.429 0	13.319 8	12.743 2	12.903	13.208	13.462 0	13.604 2	14.287 5
9/16-24	UNEF	14.257 0	14.074 1	13.568 7	13.467 1	12.997 2	13.132	13.386	13.599 2	13.728 7	14.287 5
9/16-28	UN	14.259 6	14.094 5	13.670 3	13.576 3	13.180 1	13.310	13.513	13.698 2	13.820 1	14.287 5
9/16-32	UN	14.259 6	14.107 2	13.743 9	13.655 0	13.314 7	13.437	13.614	13.771 9	13.888 7	14.287 5
5/8-11	UNC	15.831 8	15.524 5	14.333 2	14.193 5	13.081 0	13.386	13.868	14.376 4	14.559 3	15.875 0
5/8-12	UN	15.834 4	15.544 8	14.460 2	14.323 1	13.314 7	13.589	14.046	14.500 9	14.681 2	15.875 0
5/8-16	UN	15.839 4	15.600 7	14.808 2	14.686 3	13.949 7	14.148	14.503	14.843 8	15.001 2	15.875 0
5/8-18	UNF	15.839 4	15.618 5	14.922 5	14.803 1	14.158 0	14.351	14.681	14.958 1	15.110 5	15.875 0
5/8-20	UN	15.842 0	15.636 2	15.016 5	14.907 3	14.330 7	14.503	14.783	15.049 5	15.191 7	15.875 0
5/8-24	UNEF	15.844 5	15.661 6	15.156 2	15.054 6	14.584 7	14.732	14.986	15.186 7	15.318 7	15.875 0
5/8-28	UN	15.847 1	15.682 0	15.257 8	15.161 3	14.767 6	14.884	15.113	15.285 7	15.410 2	15.875 0
5/8-32	UN	15.847 1	15.694 7	15.331 4	15.240 0	14.902 2	15.011	15.215	15.359 4	15.476 2	15.875 0
11/16-12	UN	17.421 9	17.132 3	16.047 7	15.908 0	14.902 2	15.164	15.621	16.088 4	16.268 7	17.462 5
11/16-16	UN	17.426 9	17.188 2	16.395 7	16.273 8	15.537 2	15.748	16.104	16.431 3	16.591 3	17.462 5

表 A.1 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
11/16-20	UN	17.429 5	17.223 7	16.604 0	16.492 2	15.918 2	16.078	16.383	16.637 0	16.781 8	17.462 5
11/16-24	UNEF	17.432 0	17.249 1	16.743 7	16.642 1	16.172 2	16.307	16.561	16.774 2	16.908 8	17.462 5
11/16-28	UN	17.434 6	17.269 5	16.845 3	16.748 8	16.355 1	16.485	16.688	16.873 2	16.997 7	17.462 5
11/16-32	UN	17.434 6	17.282 2	16.918 9	16.827 5	16.489 7	16.612	16.789	16.946 9	17.066 3	17.462 5
3/4-10	UNC	19.004 3	18.676 6	17.353 3	17.203 4	15.979 1	16.307	16.840	17.399 0	17.594 6	19.050 0
3/4-12	UN	19.006 8	18.717 3	17.632 7	17.493 0	16.487 1	16.764	17.221	17.675 9	17.858 7	19.050 0
3/4-16	UNF	19.011 9	18.773 1	17.980 7	17.853 7	17.122 1	17.323	17.678	18.018 8	18.183 9	19.050 0
3/4-20	UNEF	19.017 0	18.811 2	18.191 5	18.079 7	17.505 7	17.678	17.958	18.224 5	18.369 3	19.050 0
3/4-28	UN	19.019 5	18.854 4	18.430 2	18.333 7	17.940 0	18.059	18.288	18.460 7	18.587 7	19.050 0
3/4-32	UN	19.022 1	18.869 7	18.506 4	18.415 0	18.077 2	18.186	18.390	18.534 4	18.653 8	19.050 0
13/16-12	UN	20.594 3	20.304 8	19.220 2	19.077 9	18.074 6	18.339	18.796	19.263 4	19.446 2	20.637 5
13/16-16	UN	20.599 4	20.360 6	19.568 2	19.443 7	18.709 6	18.923	19.279	19.606 3	19.768 8	20.637 5
13/16-20	UNEF	20.604 5	20.398 7	19.779 0	19.667 2	19.093 2	19.253	19.558	19.812 0	19.959 3	20.637 5
13/16-28	UN	20.607 0	20.441 9	20.017 7	19.918 7	19.527 5	19.660	19.863	20.048 2	20.175 2	20.637 5
13/16-32	UN	20.609 6	20.457 2	20.093 9	20.000 0	19.664 7	19.787	19.964	20.121 9	20.243 8	20.637 5
7/8-9	UNC	22.176 7	21.823 7	20.342 9	20.182 8	18.816 3	19.177	19.761	20.391 1	20.599 4	22.225 0
7/8-12	UN	22.181 8	21.892 3	20.807 7	20.665 4	19.662 1	19.939	20.396	20.850 9	21.036 3	22.225 0
7/8-14	UNF	22.184 4	21.922 7	21.005 8	20.868 6	20.022 8	20.269	20.650	21.046 4	21.224 2	22.225 0
7/8-16	UN	22.186 9	21.948 1	21.155 7	21.031 2	20.297 1	20.498	20.853	21.193 8	21.356 3	22.225 0
7/8-20	UNEF	22.192 0	21.986 2	21.366 5	21.252 2	20.680 7	20.853	21.133	21.399 5	21.546 8	22.225 0
7/8-28	UN	22.194 5	22.029 4	21.605 2	21.506 2	21.115 0	21.234	21.463	21.635 7	21.765 3	22.225 0
7/8-32	UN	22.197 1	22.044 7	21.681 4	21.587 5	21.252 2	21.361	21.565	21.709 4	21.831 3	22.225 0
15/16-12	UN	23.769 3	23.479 8	22.395 2	22.252 9	21.249 6	21.514	21.971	22.438 4	22.623 8	23.812 5
15/16-16	UN	23.774 4	23.535 6	22.743 2	22.616 2	21.884 6	22.098	22.454	22.781 3	22.943 8	23.812 5
15/16-20	UNEF	23.776 9	23.571 2	22.951 4	22.837 1	22.265 6	22.428	22.733	22.987 0	23.136 9	23.812 5
15/16-28	UN	23.782 0	23.616 9	23.192 7	23.093 7	22.702 5	22.835	23.038	23.223 2	23.352 8	23.812 5
15/16-32	UN	23.784 6	23.632 2	23.268 9	23.172 4	22.839 7	22.962	23.139	23.296 9	23.421 3	23.812 5
1-8	UNC	25.349 2	24.968 2	23.286 7	23.116 5	21.569 7	21.971	22.606	23.337 5	23.561 0	25.400 0
1-12	UNF	25.354 3	25.064 7	23.980 1	23.830 3	22.834 6	23.114	23.571	24.025 9	24.218 9	25.400 0
1-16	UN	25.361 9	25.123 1	24.330 7	24.203 7	23.472 1	23.673	24.028	24.368 8	24.533 9	25.400 0
1-20	UNEF	25.364 4	25.158 7	24.538 9	24.424 6	23.853 1	24.028	24.308	24.574 5	24.724 4	25.400 0
1-28	UN	25.369 5	25.204 4	24.780 2	24.678 6	24.290 0	24.409	24.638	24.810 7	24.942 8	25.400 0
1-32	UN	25.372 1	25.219 7	24.856 4	24.759 9	24.427 2	24.536	24.740	24.884 4	25.008 8	25.400 0

表 A.1 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
1 $\frac{1}{8}$ -8	UN	26.936 7	26.555 7	24.874 2	24.701 5	23.157 2	23.546	24.181	24.925 0	25.151 1	26.987 5
1 $\frac{1}{8}$ -12	UN	26.944 3	26.654 8	25.570 2	25.425 4	24.424 6	24.689	25.146	25.613 4	25.801 3	26.987 5
1 $\frac{1}{8}$ -16	UN	26.949 4	26.710 6	25.918 2	25.791 2	25.059 6	25.273	25.629	25.956 3	26.121 4	26.987 5
1 $\frac{1}{8}$ -18	UNEF	26.951 9	26.731 0	26.035 0	25.913 1	25.270 5	25.451	25.781	26.070 6	26.228 0	26.987 5
1 $\frac{1}{8}$ -20	UN	26.951 9	26.746 2	26.126 4	26.009 6	25.440 6	25.603	25.908	26.162 0	26.311 9	26.987 5
1 $\frac{1}{8}$ -28	UN	26.957 0	26.791 9	26.367 7	26.266 1	25.877 5	26.010	26.213	26.398 2	26.530 3	26.987 5
1 $\frac{1}{8}$ -7	UNC	28.519 1	28.102 6	26.162 0	25.979 1	24.198 6	24.638	25.349	26.217 9	26.456 6	28.575 0
1 $\frac{1}{8}$ -8	UN	28.521 7	28.140 7	26.459 2	26.283 9	24.742 1	25.146	25.781	26.512 5	26.741 1	28.575 0
1 $\frac{1}{8}$ -12	UNF	28.529 3	28.239 7	27.155 1	27.002 7	26.009 6	26.289	26.746	27.200 9	27.399 0	28.575 0
1 $\frac{1}{8}$ -16	UN	28.536 9	28.298 1	27.505 7	27.378 7	26.647 1	26.848	27.203	27.543 8	27.711 4	28.575 0
1 $\frac{1}{8}$ -18	UNEF	28.539 4	28.318 5	27.622 5	27.500 6	26.858 0	27.051	27.381	27.658 1	27.815 5	28.575 0
1 $\frac{1}{8}$ -20	UN	28.539 4	28.333 7	27.713 9	27.597 1	27.028 1	27.203	27.483	27.749 5	27.901 9	28.575 0
1 $\frac{1}{8}$ -28	UN	28.544 5	28.379 4	27.955 2	27.853 6	27.465 0	27.584	27.813	27.985 7	28.117 8	28.575 0
1 $\frac{3}{8}$ -8	UN	30.109 2	29.728 2	28.046 7	27.868 9	26.329 6	26.721	27.356	28.100 0	28.331 2	30.162 5
1 $\frac{3}{8}$ -12	UN	30.119 3	29.829 8	28.745 2	28.600 4	27.599 6	27.864	28.321	28.788 4	28.978 9	30.162 5
1 $\frac{3}{8}$ -16	UN	30.124 4	29.885 6	29.093 2	28.963 6	28.234 6	28.448	28.804	29.131 3	29.298 9	30.162 5
1 $\frac{3}{8}$ -18	UNEF	30.126 9	29.906 0	29.210 0	29.088 1	28.445 5	28.626	28.956	29.245 6	29.405 6	30.162 5
1 $\frac{3}{8}$ -20	UN	30.126 9	29.921 2	29.301 4	29.184 6	28.615 6	28.778	29.083	29.337 0	29.489 4	30.162 5
1 $\frac{3}{8}$ -28	UN	30.132 0	29.966 9	29.542 7	29.438 6	29.052 5	29.185	29.388	29.573 2	29.707 8	30.162 5
1 $\frac{1}{4}$ -7	UNC	31.694 1	31.277 6	29.337 0	29.149 0	27.373 6	27.813	28.524	29.392 9	29.636 7	31.750 0
1 $\frac{1}{4}$ -8	UN	31.696 7	31.315 7	29.634 2	29.456 4	27.917 1	28.321	28.956	29.687 5	29.921 2	31.750 0
1 $\frac{1}{4}$ -12	UNF	31.704 3	31.414 7	30.330 1	30.172 7	29.184 6	29.464	29.921	30.375 9	30.579 1	31.750 0
1 $\frac{1}{4}$ -16	UN	31.711 9	31.473 1	30.680 7	30.551 1	29.822 1	30.023	30.378	30.718 8	30.886 4	31.750 0
1 $\frac{1}{4}$ -18	UNEF	31.711 9	31.490 9	30.795 0	30.670 5	30.030 4	30.226	30.556	30.833 1	30.993 1	31.750 0
1 $\frac{1}{4}$ -20	UN	31.714 4	31.508 7	30.888 9	30.769 6	30.203 1	30.378	30.658	30.924 5	31.079 4	31.750 0
1 $\frac{1}{4}$ -28	UN	31.719 5	31.554 4	31.130 2	31.026 1	30.640 0	30.759	30.988	31.160 7	31.295 3	31.750 0
1 $\frac{5}{8}$ -8	UN	33.284 2	32.903 2	31.221 7	31.041 3	29.504 6	29.896	30.531	31.275 0	31.508 7	33.337 5
1 $\frac{5}{8}$ -12	UN	33.294 3	33.004 8	31.920 2	31.772 9	30.774 6	31.039	31.496	31.963 4	32.153 9	33.337 5
1 $\frac{5}{8}$ -16	UN	33.299 4	33.060 6	32.268 2	32.138 6	31.409 6	31.623	31.979	32.306 3	32.476 4	33.337 5
1 $\frac{5}{8}$ -18	UNEF	33.299 4	33.078 4	32.382 5	32.258 0	31.617 9	31.801	32.131	32.420 6	32.583 1	33.337 5
1 $\frac{5}{8}$ -20	UN	33.301 9	33.096 2	32.476 4	32.357 1	31.790 6	31.953	32.258	32.512 0	32.666 9	33.337 5
1 $\frac{5}{8}$ -28	UN	33.307 0	33.141 9	32.717 7	32.613 6	32.227 5	32.360	32.563	32.748 2	32.885 4	33.337 5

表 A.1 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
1 $\frac{1}{8}$ -6	UNC	34.864 0	34.401 8	32.113 2	31.910 0	29.822 1	30.353	31.115	32.174 2	32.438 3	34.925 0
1 $\frac{1}{8}$ -8	UN	34.869 1	34.488 1	32.806 6	32.623 8	31.089 6	31.496	32.131	32.862 5	33.098 7	34.925 0
1 $\frac{1}{8}$ -12	UNF	34.876 7	34.587 2	33.502 6	33.342 6	32.357 1	32.639	33.096	33.550 9	33.759 1	34.925 0
1 $\frac{1}{8}$ -16	UN	34.886 9	34.648 1	33.855 7	33.723 6	32.997 1	33.198	33.553	33.893 8	34.063 9	34.925 0
1 $\frac{1}{8}$ -18	UNEF	34.886 9	34.665 9	33.970 0	33.845 5	33.205 4	33.401	33.731	34.008 1	34.170 6	34.925 0
1 $\frac{1}{8}$ -20	UN	34.889 4	34.683 7	34.063 9	33.944 6	33.378 1	33.553	33.833	34.099 5	34.254 4	34.925 0
1 $\frac{1}{8}$ -28	UN	34.894 5	34.729 4	34.305 2	34.201 1	33.815 0	33.934	34.163	34.335 7	34.472 9	34.925 0
1 $\frac{1}{4}$ -6	UN	36.451 5	35.989 3	33.700 7	33.497 5	31.409 6	31.928	32.715	33.761 7	34.025 8	36.512 5
1 $\frac{1}{4}$ -8	UN	36.456 6	36.075 6	34.394 1	34.211 3	32.677 1	33.071	33.706	34.450 0	34.688 8	36.512 5
1 $\frac{1}{4}$ -12	UN	36.466 8	36.177 2	35.092 6	34.942 8	33.947 1	34.214	34.671	35.138 4	35.331 4	36.512 5
1 $\frac{1}{4}$ -16	UN	36.471 9	36.233 1	35.440 6	35.308 5	34.582 1	34.798	35.154	35.481 3	35.651 4	36.512 5
1 $\frac{1}{4}$ -18	UNEF	36.474 4	36.253 4	35.557 5	35.433 0	34.792 9	34.976	35.306	35.595 6	35.758 1	36.512 5
1 $\frac{1}{4}$ -20	UN	36.476 9	36.271 2	35.651 4	35.532 1	34.965 6	35.128	35.433	35.687 0	35.844 5	36.512 5
1 $\frac{1}{4}$ -28	UN	36.479 5	36.314 4	35.890 2	35.783 5	35.400 0	35.535	35.738	35.923 2	36.060 4	36.512 5
1 $\frac{1}{2}$ -6	UNC	38.039 0	37.576 8	35.288 2	35.082 5	32.997 1	33.528	34.290	35.349 2	35.615 9	38.100 0
1 $\frac{1}{2}$ -8	UN	38.044 1	37.663 1	35.981 6	35.796 2	34.264 6	34.671	35.306	36.037 5	36.278 8	38.100 0
1 $\frac{1}{2}$ -12	UNF	38.051 7	37.762 2	36.677 6	36.515 0	35.532 1	35.814	36.271	36.725 9	36.936 7	38.100 0
1 $\frac{1}{2}$ -16	UN	38.059 4	37.820 6	37.028 1	36.896 0	36.169 6	36.373	36.728	37.068 8	37.241 5	38.100 0
1 $\frac{1}{2}$ -18	UNEF	38.061 9	37.840 9	37.145 0	37.018 0	36.380 4	36.576	36.906	37.183 1	37.348 2	38.100 0
1 $\frac{1}{2}$ -20	UN	38.064 4	37.858 7	37.238 9	37.117 0	36.553 1	36.728	37.008	37.274 5	37.432 0	38.100 0
1 $\frac{1}{2}$ -28	UN	38.067 0	37.901 9	37.477 7	37.371 0	36.987 5	37.109	37.338	37.510 7	37.650 4	38.100 0
1 $\frac{3}{8}$ -6	UN	39.626 5	39.164 3	36.875 7	36.667 4	34.584 6	35.103	35.890	36.936 7	37.205 9	39.687 5
1 $\frac{3}{8}$ -8	UN	39.631 6	39.250 6	37.569 1	37.381 2	35.852 1	36.246	36.881	37.625 0	37.868 9	39.687 5
1 $\frac{3}{8}$ -12	UN	39.641 8	39.352 2	38.267 6	38.117 8	37.122 1	37.389	37.846	38.313 4	38.508 9	39.687 5
1 $\frac{3}{8}$ -16	UN	39.646 9	39.408 1	38.615 6	38.483 5	37.757 1	37.973	38.329	38.656 3	38.829 0	39.687 5
1 $\frac{3}{8}$ -18	UNEF	39.649 4	39.428 4	38.732 5	38.605 5	37.967 9	38.151	38.481	38.770 6	38.935 7	39.687 5
1 $\frac{3}{8}$ -20	UN	39.651 9	39.446 2	38.826 4	38.704 5	38.140 6	38.303	38.608	38.862 0	39.019 5	39.687 5
1 $\frac{1}{2}$ -6	UN	41.211 5	40.749 2	38.460 7	38.252 4	36.169 6	36.703	37.465	38.524 2	38.796 0	41.275 0
1 $\frac{1}{2}$ -8	UN	41.219 1	40.838 1	39.156 6	38.968 7	37.439 6	37.846	38.481	39.212 5	39.458 9	41.275 0
1 $\frac{1}{2}$ -12	UN	41.229 3	40.939 7	39.855 1	39.705 3	38.709 6	38.989	39.446	39.900 9	40.096 4	41.275 0
1 $\frac{1}{2}$ -16	UN	41.234 4	40.995 6	40.203 1	40.068 5	39.344 6	39.548	39.903	40.243 8	40.416 5	41.275 0
1 $\frac{1}{2}$ -18	UNEF	41.236 9	41.015 9	40.320 0	40.193 0	39.555 4	39.751	40.081	40.358 1	40.523 2	41.275 0
1 $\frac{1}{2}$ -20	UN	41.239 4	41.033 7	40.413 9	40.292 0	39.728 1	39.903	40.183	40.449 5	40.607 0	41.275 0

表 A.1 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
1 <sup>11</sup> / <sub>16</sub> -6	UN	42.799 0	42.336 7	40.048 2	39.837 4	37.757 1	38.278	39.065	40.111 7	40.386 0	42.862 5
1 <sup>11</sup> / <sub>16</sub> -8	UN	42.806 6	42.425 6	40.744 1	40.553 6	39.027 1	39.421	40.056	40.800 0	41.046 4	42.862 5
1 <sup>11</sup> / <sub>16</sub> -12	UN	42.816 8	42.527 2	41.442 6	41.292 8	40.297 1	40.564	41.021	41.488 4	41.683 9	42.862 5
1 <sup>11</sup> / <sub>16</sub> -16	UN	42.821 9	42.583 1	41.790 6	41.656 0	40.932 1	41.148	41.504	41.831 3	42.006 5	42.862 5
1 <sup>11</sup> / <sub>16</sub> -18	UNEF	42.824 4	42.603 4	41.907 5	41.780 5	41.142 9	41.326	41.656	41.945 6	42.110 7	42.862 5
1 <sup>11</sup> / <sub>16</sub> -20	UN	42.826 9	42.621 2	42.001 4	41.879 5	41.315 6	41.478	41.783	42.037 0	42.197 0	42.862 5
1 <sup>3</sup> / <sub>4</sub> -5	UNC	44.381 4	43.860 7	41.082 0	40.855 9	38.331 1	38.938	39.802	41.150 5	41.445 2	44.450 0
1 <sup>3</sup> / <sub>4</sub> -6	UN	44.386 5	43.924 2	41.635 7	41.424 9	39.344 6	39.878	40.640	41.699 2	41.973 5	44.450 0
1 <sup>3</sup> / <sub>4</sub> -8	UN	44.391 6	44.010 6	42.329 1	42.138 6	40.612 1	41.021	41.656	42.387 5	42.636 4	44.450 0
1 <sup>3</sup> / <sub>4</sub> -12	UN	44.404 3	44.114 7	43.030 1	42.877 7	41.884 6	42.164	42.621	43.075 9	43.274 0	44.450 0
1 <sup>3</sup> / <sub>4</sub> -16	UN	44.409 4	44.170 6	43.378 1	43.243 5	42.519 6	42.723	43.078	43.418 8	43.594 0	44.450 0
1 <sup>3</sup> / <sub>4</sub> -20	UN	44.411 9	44.206 2	43.586 4	43.464 5	42.900 6	43.078	43.358	43.624 5	43.784 5	44.450 0
1 <sup>13</sup> / <sub>16</sub> -6	UN	45.974 0	45.511 7	43.223 2	43.009 8	40.932 1	41.453	42.240	43.286 7	43.563 5	46.037 5
1 <sup>13</sup> / <sub>16</sub> -8	UN	45.979 1	45.598 1	43.916 6	43.723 6	42.199 6	42.596	43.231	43.975 0	44.226 5	46.037 5
1 <sup>13</sup> / <sub>16</sub> -12	UN	45.991 8	45.702 2	44.617 6	44.465 2	43.472 1	43.739	44.196	44.663 4	44.861 5	46.037 5
1 <sup>13</sup> / <sub>16</sub> -16	UN	45.996 9	45.758 1	44.965 6	44.831 0	44.107 1	44.323	44.679	45.006 3	45.181 5	46.037 5
1 <sup>13</sup> / <sub>16</sub> -20	UN	45.999 4	45.793 7	45.173 9	45.049 4	44.488 1	44.653	44.958	45.212 0	45.372 0	46.037 5
1 <sup>7</sup> / <sub>8</sub> -6	UN	47.561 5	47.099 2	44.810 7	44.597 3	42.519 6	43.053	43.815	44.874 2	45.153 6	47.625 0
1 <sup>7</sup> / <sub>8</sub> -8	UN	47.566 6	47.185 6	45.504 1	45.308 5	43.787 1	44.196	44.831	45.562 5	45.816 5	47.625 0
1 <sup>7</sup> / <sub>8</sub> -12	UN	47.579 3	47.289 7	46.205 1	46.052 7	45.059 6	45.339	45.796	46.250 9	46.449 0	47.625 0
1 <sup>7</sup> / <sub>8</sub> -16	UN	47.584 4	47.345 6	46.553 1	46.418 5	45.694 6	45.898	46.253	46.593 8	46.769 0	47.625 0
1 <sup>7</sup> / <sub>8</sub> -20	UN	47.586 9	47.381 2	46.761 4	46.636 9	46.075 6	46.253	46.533	46.799 5	46.962 1	47.625 0
1 <sup>15</sup> / <sub>16</sub> -6	UN	49.146 5	48.684 2	46.395 6	46.179 7	44.104 6	44.628	45.415	46.461 7	46.743 6	49.212 5
1 <sup>15</sup> / <sub>16</sub> -8	UN	49.154 1	48.773 1	47.091 6	46.896 0	45.374 6	45.771	46.406	47.150 0	47.404 0	49.212 5
1 <sup>15</sup> / <sub>16</sub> -12	UN	49.166 8	48.877 2	47.792 6	47.640 2	46.647 1	46.914	47.371	47.838 4	48.036 5	49.212 5
1 <sup>15</sup> / <sub>16</sub> -16	UN	49.171 9	48.933 1	48.140 6	48.003 5	47.282 1	47.498	47.854	48.181 3	48.359 1	49.212 5
1 <sup>15</sup> / <sub>16</sub> -20	UN	49.174 4	48.968 7	48.348 9	48.224 4	47.663 1	47.828	48.133	48.387 0	48.549 6	49.212 5
2-4 <sup>1</sup> / <sub>2</sub>	UNC	50.726 3	50.167 5	47.061 1	46.819 8	44.005 5	44.679	45.593	47.134 8	47.449 7	50.800 0
2-6	UN	50.734 0	50.271 7	47.983 1	47.764 7	45.692 1	46.228	46.990	48.049 2	48.331 1	50.800 0
2-8	UN	50.741 6	50.360 6	48.679 1	48.481 0	46.962 1	47.371	48.006	48.737 5	48.994 1	50.800 0
2-12	UN	50.754 3	50.464 7	49.380 1	49.225 2	48.234 6	48.514	48.971	49.425 9	49.626 5	50.800 0
2-16	UN	50.759 4	50.520 6	49.728 1	49.591 0	48.869 6	49.073	49.428	49.768 8	49.946 6	50.800 0
2-20	UN	50.761 9	50.556 2	49.936 4	49.811 9	49.250 6	49.428	49.708	49.974 5	50.137 1	50.800 0

表 A.1 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
2 $\frac{1}{8}$ -6	UN	53.909 0	53.446 7	51.158 1	50.937 2	48.867 1	49.403	50.165	51.224 2	51.511 2	53.975 0
2 $\frac{1}{8}$ -8	UN	53.914 0	53.533 0	51.851 6	51.650 9	50.134 5	50.546	51.181	51.912 5	52.171 6	53.975 0
2 $\frac{1}{8}$ -12	UN	53.929 3	53.639 7	52.555 1	52.400 2	51.409 6	51.689	52.146	52.600 9	52.801 5	53.975 0
2 $\frac{1}{8}$ -16	UN	53.934 4	53.695 6	52.903 1	52.766 0	52.044 6	52.248	52.603	52.943 8	53.121 6	53.975 0
2 $\frac{1}{8}$ -20	UN	53.936 9	53.731 2	53.111 4	52.984 4	52.425 6	52.603	52.883	53.149 5	53.314 6	53.975 0
2 $\frac{1}{4}$ -4 $\frac{1}{2}$	UNC	57.076 3	56.517 5	53.411 1	53.164 7	50.355 5	51.029	51.943	53.484 8	53.804 8	57.150 0
2 $\frac{1}{4}$ -6	UN	57.084 0	56.621 7	54.333 1	54.109 6	52.042 1	52.578	53.340	54.399 2	54.688 7	57.150 0
2 $\frac{1}{4}$ -8	UN	57.089 0	56.708 0	55.026 6	54.823 4	53.309 5	53.721	54.356	55.087 5	55.351 7	57.150 0
2 $\frac{1}{4}$ -12	UN	57.104 3	56.814 7	55.730 1	55.575 2	54.584 6	54.864	55.321	55.775 9	55.979 1	57.150 0
2 $\frac{1}{4}$ -16	UN	57.109 4	56.870 6	56.078 1	55.938 4	55.219 6	55.423	55.778	56.118 8	56.299 1	57.150 0
2 $\frac{1}{4}$ -20	UN	57.111 9	56.906 2	56.286 4	56.159 4	55.600 6	55.778	56.058	56.324 5	56.489 6	57.150 0
2 $\frac{3}{8}$ -6	UN	60.256 4	59.794 1	57.505 6	57.279 5	55.214 5	55.753	56.515	57.574 2	57.866 3	60.325 0
2 $\frac{3}{8}$ -8	UN	60.264 0	59.883 0	58.201 6	57.995 8	56.484 5	56.896	57.531	58.262 5	58.529 2	60.325 0
2 $\frac{3}{8}$ -12	UN	60.279 3	59.989 7	58.905 1	58.747 7	57.759 6	58.039	58.496	58.950 9	59.154 1	60.325 0
2 $\frac{3}{8}$ -16	UN	60.284 4	60.045 6	59.253 1	59.113 4	58.394 6	58.598	58.953	59.293 8	59.474 1	60.325 0
2 $\frac{3}{8}$ -20	UN	60.286 9	60.081 2	59.461 4	59.334 4	58.775 6	58.953	59.233	59.499 5	59.667 1	60.325 0
2 $\frac{1}{2}$ -4	UNC	63.421 3	62.816 7	59.296 3	59.032 1	55.859 7	56.617	57.582	59.375 0	59.717 9	63.500 0
2 $\frac{1}{2}$ -6	UN	63.431 4	62.969 1	60.680 6	60.452 0	58.389 5	58.928	59.690	60.749 2	61.043 8	63.500 0
2 $\frac{1}{2}$ -8	UN	63.439 0	63.058 0	61.376 6	61.168 3	59.659 5	60.071	60.706	61.437 5	61.706 8	63.500 0
2 $\frac{1}{2}$ -12	UN	63.451 7	63.162 2	62.077 6	61.920 1	60.932 1	61.214	61.671	62.125 9	62.331 6	63.500 0
2 $\frac{1}{2}$ -16	UN	63.456 8	63.218 1	62.425 6	62.285 9	61.567 1	61.773	62.128	62.468 8	62.651 6	63.500 0
2 $\frac{1}{2}$ -20	UN	63.461 9	63.256 2	62.636 4	62.506 9	61.950 6	62.128	62.408	62.674 5	62.842 1	63.500 0
2 $\frac{5}{8}$ -6	UN	66.606 4	66.144 1	63.855 6	63.627 0	61.564 5	62.103	62.865	63.924 2	64.223 9	66.675 0
2 $\frac{5}{8}$ -8	UN	66.611 5	66.230 5	64.549 0	64.340 7	62.832 0	63.246	63.881	64.612 5	64.884 3	66.675 0
2 $\frac{5}{8}$ -12	UN	66.626 7	66.337 2	65.252 6	65.095 1	64.107 1	64.389	64.846	65.300 9	65.506 6	66.675 0
2 $\frac{5}{8}$ -16	UN	66.631 8	66.393 1	65.600 6	65.458 3	64.742 1	64.948	65.303	65.643 8	65.826 6	66.675 0
2 $\frac{5}{8}$ -20	UN	66.636 9	66.431 2	65.811 4	65.681 9	65.125 6	65.303	65.583	65.849 5	66.017 1	66.675 0
2 $\frac{3}{4}$ -4	UNC	69.768 7	69.164 2	65.643 8	65.377 1	62.207 1	62.967	63.932	65.725 0	66.073 0	69.850 0
2 $\frac{3}{4}$ -6	UN	69.781 4	69.319 1	67.030 6	66.799 5	64.739 5	65.278	66.040	67.099 2	67.401 4	69.850 0
2 $\frac{3}{4}$ -8	UN	69.786 5	69.405 5	67.724 0	67.513 2	66.007 0	66.421	67.056	67.787 5	68.061 8	69.850 0
2 $\frac{3}{4}$ -12	UN	69.801 7	69.512 2	68.427 6	68.267 6	67.282 1	67.564	68.021	68.475 9	68.681 6	69.850 0
2 $\frac{3}{4}$ -16	UN	69.806 8	69.568 1	68.775 6	68.633 3	67.917 1	68.123	68.478	68.818 8	69.004 2	69.850 0
2 $\frac{3}{4}$ -20	UN	69.811 9	69.606 2	68.986 4	68.856 9	68.300 6	68.478	68.758	69.024 5	69.194 7	69.850 0



表 A.1 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
2 $\frac{1}{8}$ -6	UN	72.953 9	72.491 6	70.203 1	69.969 4	67.912 0	68.453	69.215	70.274 2	70.579 0	73.025 0
2 $\frac{1}{8}$ -8	UN	72.961 5	72.580 5	70.899 0	70.685 7	69.182 0	69.596	70.231	70.962 5	71.241 9	73.025 0
2 $\frac{1}{8}$ -12	UN	72.976 7	72.687 2	71.602 6	71.442 6	70.457 1	70.739	71.196	71.650 9	71.859 1	73.025 0
2 $\frac{1}{8}$ -16	UN	72.981 8	72.743 1	71.950 6	71.808 3	71.092 1	71.298	71.653	71.993 8	72.179 2	73.025 0
2 $\frac{1}{8}$ -20	UN	72.984 4	72.778 6	72.158 9	72.026 8	71.473 1	71.653	71.933	72.199 5	72.369 7	73.025 0
3-4	UNC	76.118 7	75.514 2	71.993 8	71.722 0	68.557 1	69.317	70.282	72.075 0	72.428 1	76.200 0
3-6	UN	76.128 9	75.666 6	73.378 1	73.141 8	71.087 0	71.628	72.390	73.449 2	73.756 5	76.200 0
3-8	UN	76.134 0	75.753 0	74.071 5	73.855 6	72.354 4	72.771	73.406	74.137 5	74.419 5	76.200 0
3-12	UN	76.151 7	75.862 2	74.777 6	74.617 6	73.632 1	73.914	74.371	74.825 9	75.034 1	76.200 0
3-16	UN	76.156 8	75.918 1	75.125 6	74.983 3	74.267 1	74.473	74.828	75.168 8	75.354 2	76.200 0
3-20	UN	76.159 4	75.953 6	75.333 9	75.201 8	74.648 1	74.828	75.108	75.374 5	75.547 2	76.200 0
3 $\frac{1}{8}$ -6	UN	79.303 9	78.841 6	76.553 1	76.314 3	74.262 0	74.803	75.565	76.624 2	76.934 1	79.375 0
3 $\frac{1}{8}$ -8	UN	79.309 0	78.928 0	77.246 5	77.028 0	75.529 4	75.946	76.581	77.312 5	77.597 0	79.375 0
3 $\frac{1}{8}$ -12	UN	79.326 7	79.037 2	77.952 6	77.790 0	76.807 1	77.089	77.546	78.000 9	78.211 7	79.375 0
3 $\frac{1}{8}$ -16	UN	79.331 8	79.093 1	78.300 6	78.155 8	77.442 1	77.648	78.003	78.343 8	78.531 7	79.375 0
3 $\frac{1}{4}$ -4	UNC	82.466 2	81.861 7	78.341 2	78.064 4	74.904 6	75.667	76.632	78.425 0	78.783 2	82.550 0
3 $\frac{1}{4}$ -6	UN	82.478 9	82.016 6	79.728 1	79.486 8	77.437 0	77.978	78.740	79.799 2	80.111 6	82.550 0
3 $\frac{1}{4}$ -8	UN	82.484 0	82.103 0	80.421 5	80.200 5	78.704 4	79.121	79.756	80.487 5	80.774 5	82.550 0
3 $\frac{1}{4}$ -12	UN	82.501 7	82.212 2	81.127 6	80.965 0	79.982 1	80.264	80.721	81.175 9	81.386 7	82.550 0
3 $\frac{1}{4}$ -16	UN	82.506 8	82.268 1	81.475 6	81.330 8	80.617 1	80.823	81.178	81.518 8	81.706 7	82.550 0
3 $\frac{3}{8}$ -6	UN	85.651 3	85.189 1	82.900 5	82.659 2	80.609 4	81.153	81.915	82.974 2	83.289 1	85.725 0
3 $\frac{3}{8}$ -8	UN	85.659 0	85.278 0	83.596 5	83.373 0	81.879 4	82.296	82.931	83.662 5	83.952 1	85.725 0
3 $\frac{3}{8}$ -12	UN	85.676 7	85.387 2	84.302 6	84.140 0	83.157 1	83.439	83.896	84.350 9	84.561 7	85.725 0
3 $\frac{3}{8}$ -16	UN	85.681 8	85.443 1	84.650 6	84.505 8	83.792 1	83.998	84.353	84.693 8	84.884 3	85.725 0
3 $\frac{1}{2}$ -4	UNC	88.816 2	88.211 7	84.691 2	84.411 8	81.254 6	82.017	82.982	84.775 0	85.138 3	88.900 0
3 $\frac{1}{2}$ -6	UN	88.826 3	88.364 1	86.075 5	85.831 7	83.784 4	84.328	85.090	86.149 2	86.466 7	88.900 0
3 $\frac{1}{2}$ -8	UN	88.834 0	88.453 0	86.771 5	86.548 0	85.054 4	85.471	86.106	86.837 5	87.129 6	88.900 0
3 $\frac{1}{2}$ -12	UN	88.851 7	88.562 2	87.477 6	87.315 0	86.332 1	86.614	87.071	87.525 9	87.739 2	88.900 0
3 $\frac{1}{2}$ -16	UN	88.856 8	88.618 1	87.825 6	87.678 3	86.967 1	87.173	87.528	87.868 8	88.059 3	88.900 0
3 $\frac{5}{8}$ -6	UN	92.001 3	91.539 1	89.250 5	89.004 1	86.959 4	87.503	88.265	89.324 2	89.644 2	92.075 0
3 $\frac{5}{8}$ -8	UN	92.006 4	91.625 4	89.943 9	89.717 9	88.226 9	88.646	89.281	90.012 5	90.307 2	92.075 0
3 $\frac{5}{8}$ -12	UN	92.026 7	91.737 2	90.652 6	90.487 5	89.507 1	89.789	90.246	90.700 9	90.914 2	92.075 0
3 $\frac{5}{8}$ -16	UN	92.031 8	91.793 1	91.000 6	90.853 3	90.142 1	90.348	90.703	91.043 8	91.234 3	92.075 0

表 A.1 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
3 $\frac{1}{4}$ -4	UNC	95.163 6	94.559 1	91.038 7	90.754 2	87.602 1	88.367	89.332	91.125 0	91.493 3	95.250 0
3 $\frac{1}{4}$ -6	UN	95.176 3	94.714 1	92.425 5	92.176 6	90.134 4	90.678	91.440	92.499 2	92.821 8	95.250 0
3 $\frac{1}{4}$ -8	UN	95.181 4	94.800 4	93.118 9	92.890 3	91.401 9	91.821	92.456	93.187 5	93.484 7	95.250 0
3 $\frac{1}{4}$ -12	UN	95.201 7	94.912 2	93.827 6	93.662 5	92.682 1	92.964	93.421	93.875 9	94.089 2	95.250 0
3 $\frac{1}{4}$ -16	UN	95.206 8	94.968 1	94.175 6	94.028 3	93.317 1	93.523	93.878	94.218 8	94.411 8	95.250 0
3 $\frac{1}{2}$ -6	UN	98.348 8	97.886 5	95.598 0	95.346 5	93.306 9	93.853	94.615	95.674 2	95.999 3	98.425 0
3 $\frac{1}{2}$ -8	UN	98.356 4	97.975 4	96.293 9	96.062 8	94.576 9	94.996	95.631	96.362 5	96.662 2	98.425 0
3 $\frac{1}{2}$ -12	UN	98.374 2	98.084 6	97.000 1	96.835 0	95.854 5	96.139	96.596	97.050 9	97.266 8	98.425 0
3 $\frac{1}{2}$ -16	UN	98.379 3	98.140 5	97.348 0	97.200 7	96.489 5	96.698	97.053	97.393 8	97.586 8	98.425 0
4-4	UNC	101.513 6	100.909 1	97.388 7	97.101 7	93.952 1	94.717	95.682	97.475 0	97.848 4	101.600 0
4-6	UN	101.523 8	101.061 5	98.773 0	98.521 5	96.481 9	97.028	97.790	98.849 2	99.176 8	101.600 0
4-8	UN	101.531 4	101.150 4	99.468 9	99.237 8	97.751 9	98.171	98.806	99.537 5	99.839 8	101.600 0
4-12	UN	101.549 2	101.259 6	100.175 1	100.010 0	99.029 5	99.314	99.771	100.225 9	100.441 8	101.600 0
4-16	UN	101.554 3	101.315 5	100.523 0	100.373 2	99.664 5	99.873	100.228	100.568 8	100.761 8	101.600 0
4 $\frac{1}{8}$ -6	UN	104.698 8	104.236 5	101.948 0	101.694 0	99.656 9	100.203	100.965	102.024 2	102.354 4	104.775 0
4 $\frac{1}{8}$ -8	UN	104.703 9	104.322 9	102.641 4	102.407 7	100.924 4	101.346	101.981	102.712 5	103.017 3	104.775 0
4 $\frac{1}{8}$ -12	UN	104.724 2	104.434 6	103.350 1	103.182 4	102.204 5	102.489	102.94 6	103.400 9	103.616 8	104.775 0
4 $\frac{1}{8}$ -16	UN	104.729 3	104.490 5	103.698 0	103.548 2	102.839 5	103.048	103.403	103.743 8	103.939 3	104.775 0
4 $\frac{1}{4}$ -4	UN	107.863 6	107.259 1	103.738 7	103.446 6	100.302 1	101.067	102.032	103.825 0	104.203 5	107.950 0
4 $\frac{1}{4}$ -6	UN	107.873 8	107.411 5	105.123 0	104.866 4	102.831 9	103.378	104.140	105.199 2	105.531 9	107.950 0
4 $\frac{1}{4}$ -8	UN	107.878 9	107.497 9	105.816 4	105.580 2	104.099 4	104.521	105.156	105.887 5	106.194 9	107.950 0
4 $\frac{1}{4}$ -12	UN	107.899 2	107.609 6	106.525 1	106.357 4	105.379 5	105.664	106.121	106.575 9	106.794 3	107.950 0
4 $\frac{1}{4}$ -16	UN	107.904 3	107.665 5	106.873 0	106.723 2	106.014 5	106.223	106.578	106.918 8	107.114 3	107.950 0
4 $\frac{3}{8}$ -6	UN	111.048 8	110.586 5	108.298 0	108.041 4	106.006 9	106.553	107.315	108.374 2	108.709 5	111.125 0
4 $\frac{3}{8}$ -8	UN	111.053 9	110.672 9	108.991 4	108.755 2	107.274 4	107.696	108.331	109.062 5	109.369 9	111.125 0
4 $\frac{3}{8}$ -12	UN	111.074 2	110.784 6	109.700 1	109.532 4	108.554 5	108.839	109.296	109.750 9	109.969 3	111.125 0
4 $\frac{3}{8}$ -16	UN	111.079 3	110.840 5	110.048 0	109.898 2	109.189 5	109.398	109.753	110.093 8	110.289 3	111.125 0
4 $\frac{1}{2}$ -4	UN	114.211 1	113.606 6	110.086 1	109.791 5	106.649 5	107.417	108.382	110.175 0	110.558 6	114.300 0
4 $\frac{1}{2}$ -6	UN	114.221 3	113.759 0	111.470 4	111.211 4	109.179 4	109.728	110.490	111.549 2	111.887 0	114.300 0
4 $\frac{1}{2}$ -8	UN	114.228 9	113.847 9	112.166 4	111.927 6	110.449 4	110.871	111.506	112.237 5	112.547 4	114.300 0
4 $\frac{1}{2}$ -12	UN	114.249 2	113.959 6	112.875 1	112.707 4	111.729 5	112.014	112.471	112.925 9	113.144 3	114.300 0
4 $\frac{1}{2}$ -16	UN	114.254 3	114.015 5	113.223 0	113.070 6	112.364 5	112.573	112.928	113.268 8	113.466 9	114.300 0

表 A.1 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
4 $\frac{1}{8}$ -6	UN	117.396 3	116.934 0	114.645 4	114.383 8	112.354 4	112.903	113.665	114.724 2	115.062 0	117.475 0
4 $\frac{1}{8}$ -8	UN	117.403 9	117.022 9	115.341 4	115.100 1	113.624 4	114.046	114.681	115.412 5	115.724 9	117.475 0
4 $\frac{1}{8}$ -12	UN	117.424 2	117.134 6	116.050 1	115.879 9	114.904 5	115.189	115.646	116.100 9	116.321 8	117.475 0
4 $\frac{1}{8}$ -16	UN	117.429 3	117.190 5	116.398 0	116.245 6	115.539 5	115.748	116.103	116.443 8	116.641 9	117.475 0
4 $\frac{1}{4}$ -4	UN	120.561 1	119.956 6	116.436 1	116.139 0	112.999 5	113.767	114.732	116.525 0	116.913 7	120.650 0
4 $\frac{1}{4}$ -6	UN	120.571 3	120.109 0	117.820 4	117.558 8	115.529 4	116.078	116.840	117.899 2	118.239 5	120.650 0
4 $\frac{1}{4}$ -8	UN	120.576 3	120.195 3	118.513 9	118.272 6	116.796 8	117.221	117.856	118.587 5	118.902 5	120.650 0
4 $\frac{1}{4}$ -12	UN	120.599 2	120.309 6	119.225 1	119.054 9	118.079 5	118.364	118.821	119.275 9	119.496 8	120.650 0
4 $\frac{1}{4}$ -16	UN	120.604 3	120.365 5	119.573 0	119.420 6	118.714 5	118.923	119.278	119.618 8	119.816 9	120.650 0
4 $\frac{7}{8}$ -6	UN	123.746 3	123.284 0	120.995 4	120.731 3	118.704 4	119.253	120.015	121.074 2	121.417 1	123.825 0
4 $\frac{7}{8}$ -8	UN	123.751 3	123.370 3	121.688 9	121.445 0	119.971 8	120.396	121.031	121.762 5	122.080 0	123.825 0
4 $\frac{7}{8}$ -12	UN	123.774 2	123.484 6	122.400 1	122.229 9	121.254 5	121.539	121.996	122.450 9	122.671 8	123.825 0
4 $\frac{7}{8}$ -16	UN	123.779 3	123.540 5	122.748 0	122.595 6	121.889 5	122.098	122.453	122.793 8	122.991 9	123.825 0
5-4	UN	126.908 6	126.304 0	122.783 6	122.481 3	119.347 0	120.117	121.082	122.875 0	123.266 2	127.000 0
5-6	UN	126.921 3	126.459 0	124.170 4	123.903 7	121.879 4	122.428	123.190	124.249 2	124.594 6	127.000 0
5-8	UN	126.926 3	126.545 3	124.863 9	124.617 5	123.146 8	123.571	124.206	124.937 5	125.257 6	127.000 0
5-12	UN	126.949 2	126.659 6	125.575 1	125.404 9	124.429 5	124.714	125.171	125.625 9	125.846 8	127.000 0
5-16	UN	126.954 3	126.715 5	125.923 0	125.768 1	125.064 5	125.273	125.628	125.968 8	126.169 4	127.000 0
5 $\frac{1}{8}$ -6	UN	130.093 7	129.631 4	127.342 9	127.076 2	125.051 8	125.603	126.365	127.424 2	127.772 2	130.175 0
5 $\frac{1}{8}$ -8	UN	130.101 3	129.720 3	128.038 9	127.792 5	126.321 8	126.746	127.381	128.112 5	128.435 1	130.175 0
5 $\frac{1}{8}$ -12	UN	130.124 2	129.834 6	128.750 1	128.579 9	127.604 5	127.889	128.346	128.800 9	129.024 4	130.175 0
5 $\frac{1}{8}$ -16	UN	130.129 3	129.890 5	129.098 0	128.943 1	128.239 5	128.448	128.803	129.143 8	129.344 4	130.175 0
5 $\frac{1}{4}$ -4	UN	133.258 6	132.654 0	129.133 6	128.828 8	125.697 0	126.467	127.432	129.225 0	129.621 3	133.350 0
5 $\frac{1}{4}$ -6	UN	133.268 7	132.806 4	130.517 9	130.248 7	128.226 8	128.778	129.540	130.599 2	130.949 7	133.350 0
5 $\frac{1}{4}$ -8	UN	133.276 3	132.895 3	131.213 9	130.964 9	129.496 8	129.921	130.556	131.287 5	131.610 1	133.350 0
5 $\frac{1}{4}$ -12	UN	133.299 2	133.009 6	131.925 1	131.752 3	130.779 5	131.064	131.521	131.975 9	132.199 4	133.350 0
5 $\frac{1}{4}$ -16	UN	133.304 3	133.065 5	132.273 0	132.118 1	131.414 5	131.623	131.978	132.318 8	132.519 4	133.350 0
5 $\frac{3}{8}$ -6	UN	136.443 7	135.981 4	133.692 9	133.423 7	131.401 8	131.953	132.715	133.774 2	134.124 7	136.525 0
5 $\frac{3}{8}$ -8	UN	136.448 8	136.067 8	134.386 3	134.134 9	132.669 3	133.096	133.731	134.462 5	134.787 6	136.525 0
5 $\frac{3}{8}$ -12	UN	136.474 2	136.184 6	135.100 1	134.927 3	133.954 5	134.239	134.696	135.150 9	135.374 4	136.525 0
5 $\frac{3}{8}$ -16	UN	136.479 3	136.240 5	135.448 0	135.293 1	134.589 5	134.798	135.153	135.493 8	135.694 4	136.525 0

表 A.1 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 2A					内螺纹 2B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
5½-4	UN	139.608 6	139.004 0	135.483 6	135.176 3	132.047 0	132.817	133.782	135.575 0	135.976 4	139.700 0
5½-6	UN	139.618 7	139.156 4	136.867 9	136.596 1	134.576 8	135.128	135.890	136.949 2	137.302 2	139.700 0
5½-8	UN	139.623 8	139.242 8	137.561 3	137.309 9	135.844 3	136.271	136.906	137.637 5	137.965 2	139.700 0
5½-12	UN	139.649 2	139.359 6	138.275 1	138.102 3	137.129 5	137.414	137.871	138.325 9	138.551 9	139.700 0
5½-16	UN	139.654 3	139.415 5	138.623 0	138.468 1	137.764 5	137.973	138.328	138.668 8	138.872 0	139.700 0
5¾-6	UN	142.793 7	142.331 4	140.042 9	139.768 6	137.751 8	138.303	139.065	140.124 2	140.479 8	142.875 0
5¾-8	UN	142.798 8	142.417 8	140.736 3	140.482 3	139.019 3	139.446	140.081	140.812 5	141.142 7	142.875 0
5¾-12	UN	142.824 2	142.534 6	141.450 1	141.277 3	140.304 5	140.589	141.046	141.500 9	141.726 9	142.875 0
5¾-16	UN	142.829 3	142.590 5	141.798 0	141.640 6	140.939 5	141.148	141.503	141.843 8	142.047 0	142.875 0
5¾-4	UN	145.956 0	145.351 5	141.831 1	141.521 2	138.394 4	139.167	140.132	141.925 0	142.328 9	146.050 0
5¾-6	UN	145.968 7	145.506 4	143.217 9	142.943 6	140.926 8	141.478	142.240	143.299 2	143.657 3	146.050 0
5¾-8	UN	145.973 8	145.592 8	143.911 3	143.657 3	142.194 3	142.621	143.256	143.987 5	144.317 7	146.050 0
5¾-12	UN	145.996 7	145.707 1	144.622 5	144.449 8	143.477 0	143.764	144.221	144.675 9	144.901 9	146.050 0
5¾-16	UN	146.001 7	145.763 0	144.970 5	144.813 0	144.112 0	144.323	144.678	145.018 8	145.222 0	146.050 0
5¾-6	UN	149.141 2	148.678 9	146.390 4	146.113 5	144.099 3	144.653	145.415	146.474 2	146.834 9	149.225 0
5¾-8	UN	149.148 8	148.767 8	147.086 3	146.829 8	145.369 3	145.796	146.431	147.162 5	147.495 3	149.225 0
5¾-12	UN	149.171 7	148.882 1	147.797 5	147.622 3	146.652 0	146.939	147.396	147.850 9	148.076 9	149.225 0
5¾-16	UN	149.176 7	148.938 0	148.145 5	147.988 0	147.287 0	147.498	147.853	148.193 8	148.399 5	149.225 0
6-4	UN	152.306 0	151.701 5	148.181 1	147.866 1	144.744 4	145.517	146.482	148.275 0	148.684 0	152.400 0
6-6	UN	152.316 2	151.853 9	149.565 4	149.288 5	147.274 3	147.828	148.590	149.649 2	150.009 9	152.400 0
6-8	UN	152.323 8	151.942 8	150.261 3	150.004 8	148.544 3	148.971	149.606	150.337 5	150.672 8	152.400 0
6-12	UN	152.346 7	152.057 1	150.972 5	150.797 3	149.827 0	150.114	150.571	151.025 9	151.254 5	152.400 0
6-16	UN	152.351 7	152.113 0	151.320 5	151.163 0	150.462 0	150.673	151.028	151.368 8	151.574 5	152.400 0

表 A.2 标准系列、3A 和 3B 统一螺纹的极限尺寸

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
0-80	UNF	1.524 0	1.442 7	1.318 3	1.285 2	1.145 5	1.181 1	1.305 6	1.318 3	1.361 4	1.524 0
1-64	UNC	1.854 2	1.757 7	1.597 7	1.559 6	1.381 8	1.424 9	1.579 9	1.597 7	1.645 9	1.854 2
1-72	UNF	1.854 2	1.765 3	1.625 6	1.590 0	1.435 1	1.473 2	1.610 4	1.625 6	1.673 9	1.854 2
2-56	UNC	2.184 4	2.080 3	1.889 8	1.849 1	1.643 4	1.694 2	1.872 0	1.889 8	1.943 1	2.184 4
2-64	UNF	2.184 4	2.087 9	1.927 9	1.889 8	1.712 0	1.755 1	1.910 1	1.927 9	1.978 7	2.184 4
3-48	UNC	2.514 6	2.400 3	2.171 7	2.128 5	1.884 7	1.940 6	2.146 3	2.171 7	2.227 6	2.514 6
3-56	UNF	2.514 6	2.410 5	2.220 0	2.179 3	1.973 6	2.024 4	2.197 1	2.220 0	2.273 3	2.514 6
4-40	UNC	2.844 8	2.715 3	2.433 3	2.385 1	2.087 9	2.156 5	2.385 1	2.433 3	2.494 3	2.844 8
4-48	UNF	2.844 8	2.730 5	2.501 9	2.456 2	2.214 9	2.270 8	2.458 7	2.501 9	2.560 3	2.844 8
5-40	UNC	3.175 0	3.045 5	2.763 5	2.715 3	2.418 1	2.486 7	2.697 5	2.763 5	2.827 0	3.175 0
5-44	UNF	3.175 0	3.053 1	2.799 1	2.750 8	2.486 7	2.550 2	2.740 7	2.799 1	2.860 0	3.175 0
6-32	UNC	3.505 2	3.352 8	2.989 6	2.936 2	2.560 3	2.641 6	2.893 1	2.989 6	3.058 2	3.505 2
6-40	UNF	3.505 2	3.375 7	3.093 7	3.042 9	2.748 3	2.819 4	3.012 4	3.093 7	3.157 2	3.505 2
8-32	UNC	4.165 6	4.013 2	3.650 0	3.594 1	3.220 7	3.302 0	3.525 5	3.650 0	3.721 1	4.165 6
8-36	UNF	4.165 6	4.025 9	3.708 4	3.655 1	3.324 9	3.403 6	3.596 6	3.708 4	3.777 0	4.165 6
10-24	UNC	4.826 0	4.643 1	4.137 7	4.074 2	3.566 2	3.683 0	3.949 7	4.137 7	4.218 9	4.826 0
10-32	UNF	4.826 0	4.673 6	4.310 4	4.252 0	3.881 1	3.962 4	4.168 1	4.310 4	4.384 0	4.826 0
12-24	UNC	5.486 4	5.303 5	4.798 1	4.732 0	4.226 6	4.343 4	4.589 8	4.798 1	4.881 9	5.486 4
12-28	UNF	5.486 4	5.321 3	4.897 1	4.836 2	4.406 9	4.495 8	4.716 8	4.897 1	4.975 9	5.486 4
12-32	UNEF	5.486 4	5.334 0	4.970 8	4.909 8	4.541 5	4.622 8	4.813 3	4.970 8	5.049 5	5.486 4
1/4-20	UNC	6.350 0	6.144 3	5.524 5	5.453 4	4.838 7	4.978 4	5.250 2	5.524 5	5.615 9	6.350 0
1/4-28	UNF	6.350 0	6.184 9	5.760 7	5.697 2	5.270 5	5.359 4	5.562 6	5.760 7	5.842 0	6.350 0
1/4-32	UNEF	6.350 0	6.197 6	5.834 4	5.773 4	5.405 1	5.486 4	5.661 7	5.834 4	5.913 1	6.350 0
5/16-18	UNC	7.937 5	7.716 5	7.020 6	6.944 4	6.256 0	6.400 8	6.680 2	7.020 6	7.119 6	7.937 5
5/16-20	UN	7.937 5	7.731 8	7.112 0	7.035 8	6.426 2	6.553 2	6.807 2	7.112 0	7.213 6	7.937 5
5/16-24	UNF	7.937 5	7.754 6	7.249 2	7.180 6	6.677 7	6.781 8	6.995 2	7.249 2	7.340 6	7.937 5
5/16-28	UN	7.937 5	7.772 4	7.348 2	7.282 2	6.858 0	6.959 6	7.129 8	7.348 2	7.434 6	7.937 5
5/16-32	UNEF	7.937 5	7.785 1	7.421 9	7.358 4	6.992 6	7.086 6	7.228 8	7.421 9	7.503 2	7.937 5
3/8-16	UNC	9.525 0	9.286 2	8.493 8	8.409 9	7.635 2	7.797 8	8.082 3	8.493 8	8.603 0	9.525 0
3/8-20	UN	9.525 0	9.319 3	8.699 5	8.620 8	8.013 7	8.153 4	8.374 4	8.699 5	8.801 1	9.525 0
3/8-24	UNF	9.525 0	9.342 1	8.836 7	8.763 0	8.265 2	8.382 0	8.564 9	8.836 7	8.930 6	9.525 0
3/8-28	UN	9.525 0	9.359 9	8.935 7	8.867 1	8.445 5	8.534 4	8.702 0	8.935 7	9.024 6	9.525 0
3/8-32	UNEF	9.525 0	9.372 6	9.009 4	8.945 9	8.580 1	8.661 4	8.811 3	9.009 4	9.093 2	9.525 0

表 A.2 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
7/16-14	UNC	11.112 5	10.850 9	9.933 9	9.845 0	8.951 0	9.144 0	9.441 2	9.933 9	10.050 8	11.112 5
7/16-16	UN	11.112 5	10.873 7	10.081 3	9.992 4	9.222 7	9.398 0	9.652 0	10.081 3	10.195 6	11.112 5
7/16-20	UNF	11.112 5	10.906 8	10.287 0	10.208 3	9.601 2	9.728 2	9.946 6	10.287 0	10.391 1	11.112 5
7/16-28	UNEF	11.112 5	10.947 4	10.523 2	10.454 6	10.033 0	10.134 6	10.289 5	10.523 2	10.612 1	11.112 5
7/16-32	UN	11.112 5	10.960 1	10.596 9	10.530 8	10.167 6	10.261 6	10.398 8	10.596 9	10.680 7	11.112 5
1/2-13	UNC	12.700 0	12.423 1	11.430 0	11.336 0	10.373 4	10.591 8	10.881 4	11.430 0	11.551 9	12.700 0
1/2-16	UN	12.700 0	12.461 2	11.668 8	11.579 9	10.810 2	10.972 8	11.226 8	11.668 8	11.785 6	12.700 0
1/2-20	UNF	12.700 0	12.494 3	11.874 5	11.793 2	11.188 7	11.328 4	11.524 0	11.874 5	11.981 2	12.700 0
1/2-28	UNEF	12.700 0	12.534 9	12.110 7	12.039 6	11.620 5	11.709 4	11.877 0	12.110 7	12.202 2	12.700 0
1/2-32	UN	12.700 0	12.547 6	12.184 4	12.118 3	11.755 1	11.836 4	11.986 3	12.184 4	12.270 7	12.700 0
9/16-12	UNC	14.287 5	13.997 9	12.913 4	12.814 3	11.767 8	11.988 8	12.301 2	12.913 4	13.042 9	14.287 5
9/16-16	UN	14.287 5	14.048 7	13.256 3	13.167 4	12.397 7	12.573 0	12.804 1	13.256 3	13.373 1	14.287 5
9/16-18	UNF	14.287 5	14.066 5	13.370 6	13.284 2	12.606 0	12.750 8	12.969 2	13.370 6	13.482 3	14.287 5
9/16-20	UN	14.287 5	14.081 8	13.462 0	13.380 7	12.776 2	12.903 2	13.108 9	13.462 0	13.568 7	14.287 5
9/16-24	UNEF	14.287 5	14.104 6	13.599 2	13.523 0	13.027 7	13.131 8	13.319 8	13.599 2	13.698 2	14.287 5
9/16-28	UN	14.287 5	14.122 4	13.698 2	13.627 1	13.208 0	13.309 6	13.464 5	13.698 2	13.789 7	14.287 5
9/16-32	UN	14.287 5	14.135 1	13.771 9	13.705 8	13.342 6	13.436 6	13.573 8	13.771 9	13.858 2	14.287 5
5/8-11	UNC	15.875 0	15.567 7	14.376 4	14.272 3	13.124 2	13.385 8	13.693 1	14.376 4	14.513 6	15.875 0
5/8-12	UN	15.875 0	15.585 4	14.500 9	14.396 7	13.355 3	13.589 0	13.876 0	14.500 9	14.635 5	15.875 0
5/8-16	UN	15.875 0	15.636 2	14.843 8	14.752 3	13.985 2	14.147 8	14.381 5	14.843 8	14.960 6	15.875 0
5/8-18	UNF	15.875 0	15.654 0	14.958 1	14.869 2	14.193 5	14.351 0	14.554 2	14.958 1	15.072 4	15.875 0
5/8-20	UN	15.875 0	15.669 3	15.049 5	14.968 2	14.363 7	14.503 4	14.696 4	15.049 5	15.156 2	15.875 0
5/8-24	UNEF	15.875 0	15.692 1	15.186 7	15.110 5	14.615 2	14.732 0	14.907 3	15.186 7	15.285 7	15.875 0
5/8-28	UN	15.875 0	15.709 9	15.285 7	15.214 6	14.795 5	14.884 4	15.052 0	15.285 7	15.379 7	15.875 0
5/8-32	UN	15.875 0	15.722 6	15.359 4	15.290 8	14.930 1	15.011 4	15.161 3	15.359 4	15.448 3	15.875 0
11/16-12	UN	17.462 5	17.172 9	16.088 4	15.984 2	14.942 8	15.163 8	15.455 9	16.088 4	16.223 0	17.462 5
11/16-16	UN	17.462 5	17.223 7	16.431 3	16.339 8	15.572 7	15.748 0	15.961 4	16.431 3	16.550 6	17.462 5
11/16-20	UN	17.462 5	17.256 8	16.637 0	16.553 2	15.951 2	16.078 2	16.283 9	16.637 0	16.746 2	17.462 5
11/16-24	UNEF	17.462 5	17.279 6	16.774 2	16.698 0	16.202 7	16.306 8	16.494 8	16.774 2	16.873 2	17.462 5
11/16-28	UN	17.462 5	17.297 4	16.873 2	16.799 6	16.383 0	16.484 6	16.639 5	16.873 2	16.967 2	17.462 5
11/16-32	UN	17.462 5	17.310 1	16.946 9	16.878 3	16.517 6	16.611 6	16.748 8	16.946 9	17.035 8	17.462 5
3/4-10	UNC	19.050 0	18.722 3	17.399 0	17.287 2	16.024 9	16.306 8	16.624 3	17.399 0	17.543 8	19.050 0
3/4-12	UN	19.050 0	18.760 4	17.675 9	17.571 7	16.530 3	16.764 0	17.035 8	17.675 9	17.813 0	19.050 0

表 A.2 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
3/4-16	UNF	19.050 0	18.811 2	18.018 8	17.922 2	17.160 2	17.322 8	17.548 9	18.018 8	18.143 2	19.050 0
3/4-20	UNEF	19.050 0	18.844 3	18.224 5	18.140 7	17.538 7	17.678 4	17.871 4	18.224 5	18.333 7	19.050 0
3/4-28	UN	19.050 0	18.884 9	18.460 7	18.387 1	17.970 5	18.059 4	18.227 0	18.460 7	18.554 7	19.050 0
3/4-32	UN	19.050 0	18.897 6	18.534 4	18.465 8	18.105 1	18.186 4	18.336 3	18.534 4	18.625 8	19.050 0
13/16-12	UN	20.637 5	20.347 9	19.263 4	19.156 7	18.117 8	18.338 8	18.615 7	19.263 4	19.400 5	20.637 5
13/16-16	UN	20.637 5	20.398 7	19.606 3	19.512 3	18.747 7	18.923 0	19.136 4	19.606 3	19.728 2	20.637 5
13/16-20	UNEF	20.637 5	20.431 8	19.812 0	19.728 2	19.126 2	19.253 2	19.458 9	19.812 0	19.921 2	20.637 5
13/16-28	UN	20.637 5	20.472 4	20.048 2	19.974 6	19.558 0	19.659 6	19.814 5	20.048 2	20.144 7	20.637 5
13/16-32	UN	20.637 5	20.485 1	20.121 9	20.050 8	19.692 6	19.786 6	19.923 8	20.121 9	20.213 3	20.637 5
7/8-9	UNC	22.225 0	21.871 9	20.391 1	20.271 7	18.864 6	19.177 0	19.509 7	20.391 1	20.546 1	22.225 0
7/8-12	UN	22.225 0	21.935 4	20.850 9	20.744 2	19.705 3	19.939 0	20.198 1	20.850 9	20.990 6	22.225 0
7/8-14	UNF	22.225 0	21.963 4	21.046 4	20.942 3	20.063 5	20.269 2	20.490 2	21.046 4	21.181 1	22.225 0
7/8-16	UN	22.225 0	21.986 2	21.193 8	21.099 8	20.335 2	20.497 8	20.723 9	21.193 8	21.315 7	22.225 0
7/8-20	UNEF	22.225 0	22.019 3	21.399 5	21.313 1	20.713 7	20.853 4	21.046 4	21.399 5	21.511 3	22.225 0
7/8-28	UN	22.225 0	22.059 9	21.635 7	21.562 1	21.145 5	21.234 4	21.402 0	21.635 7	21.732 2	22.225 0
7/8-32	UN	22.225 0	22.072 6	21.709 4	21.638 3	21.280 1	21.361 4	21.511 3	21.709 4	21.800 8	22.225 0
15/16-12	UN	23.812 5	23.522 9	22.438 4	22.331 7	21.292 8	21.513 8	21.780 5	22.438 4	22.578 1	23.812 5
15/16-16	UN	23.812 5	23.573 7	22.781 3	22.687 3	21.922 7	22.098 0	22.311 4	22.781 3	22.903 2	23.812 5
15/16-20	UNEF	23.812 5	23.606 8	22.987 0	22.900 6	22.301 2	22.428 2	22.633 9	22.987 0	23.098 8	23.812 5
15/16-28	UN	23.812 5	23.647 4	23.223 2	23.147 0	22.733 0	22.834 6	22.989 5	23.223 2	23.319 7	23.812 5
15/16-32	UN	23.812 5	23.660 1	23.296 9	23.225 8	22.867 6	22.961 6	23.098 8	23.296 9	23.390 9	23.812 5
1-8	UNC	25.400 0	25.019 0	23.337 5	23.208 0	21.620 5	21.971 0	22.344 4	23.337 5	23.505 2	25.400 0
1-12	UNF	25.400 0	25.110 4	24.025 9	23.914 1	22.880 3	23.114 0	23.362 9	24.025 9	24.170 6	25.400 0
1-16	UN	25.400 0	25.161 2	24.368 8	24.274 8	23.510 2	23.672 8	23.898 9	24.368 8	24.493 2	25.400 0
1-20	UNEF	25.400 0	25.194 3	24.574 5	24.488 1	23.888 7	24.028 4	24.221 4	24.574 5	24.686 3	25.400 0
1-28	UN	25.400 0	25.234 9	24.810 7	24.734 5	24.320 5	24.409 4	24.577 0	24.810 7	24.909 8	25.400 0
1-32	UN	25.400 0	25.247 6	24.884 4	24.813 3	24.455 1	24.536 4	24.686 3	24.884 4	24.978 4	25.400 0
1½-8	UN	26.987 5	26.606 5	24.925 0	24.795 5	23.208 0	23.545 8	23.931 9	24.925 0	25.095 2	26.987 5
1½-12	UN	26.987 5	26.697 9	25.613 4	25.504 1	24.467 8	24.688 8	24.950 4	25.613 4	25.753 1	26.987 5
1½-16	UN	26.987 5	26.748 7	25.956 3	25.859 7	25.097 7	25.273 0	25.486 4	25.956 3	26.080 7	26.987 5
1½-18	UNEF	26.987 5	26.766 5	26.070 6	25.979 1	25.306 0	25.450 8	25.666 7	26.070 6	26.189 9	26.987 5
1½-20	UN	26.987 5	26.781 8	26.162 0	26.075 6	25.476 2	25.603 2	25.808 9	26.162 0	26.276 3	26.987 5
1½-28	UN	26.987 5	26.822 4	26.398 2	26.322 0	25.908 0	26.009 6	26.164 5	26.398 2	26.497 3	26.987 5

表 A.2 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
1 1/8-7	UNC	28.575 0	28.158 4	26.217 9	26.080 7	24.254 5	24.638 0	25.082 5	26.217 9	26.398 2	28.575 0
1 1/8-8	UN	28.575 0	28.194 0	26.512 5	26.380 4	24.795 5	25.146 0	25.519 4	26.512 5	26.682 7	28.575 0
1 1/8-12	UNF	28.575 0	28.285 4	27.200 9	27.086 6	26.055 3	26.289 0	26.537 9	27.200 9	27.350 7	28.575 0
1 1/8-16	UN	28.575 0	28.336 2	27.543 8	27.447 2	26.685 2	26.847 8	27.073 9	27.543 8	27.668 2	28.575 0
1 1/8-18	UNEF	28.575 0	28.354 0	27.658 1	27.566 6	26.893 5	27.051 0	27.254 2	27.658 1	27.777 4	28.575 0
1 1/8-20	UN	28.575 0	28.369 3	27.749 5	27.660 6	27.063 7	27.203 4	27.396 4	27.749 5	27.863 8	28.575 0
1 1/8-28	UN	28.575 0	28.409 9	27.985 7	27.909 5	27.495 5	27.584 4	27.752 0	27.985 7	28.084 8	28.575 0
1 3/8-8	UN	30.162 5	29.781 5	28.100 0	27.967 9	26.383 0	26.720 8	27.106 9	28.100 0	28.272 7	30.162 5
1 3/8-12	UN	30.162 5	29.872 9	28.788 4	28.679 1	27.642 8	27.863 8	28.125 4	28.788 4	28.930 6	30.162 5
1 3/8-16	UN	30.162 5	29.923 7	29.131 3	29.034 7	28.272 7	28.448 0	28.661 4	29.131 3	29.255 7	30.162 5
1 3/8-18	UNEF	30.162 5	29.941 5	29.245 6	29.154 1	28.481 0	28.625 8	28.841 7	29.245 6	29.364 9	30.162 5
1 3/8-20	UN	30.162 5	29.956 8	29.337 0	29.248 1	28.651 2	28.778 2	28.983 9	29.337 0	29.451 3	30.162 5
1 3/8-28	UN	30.162 5	29.997 4	29.573 2	29.497 0	29.083 0	29.184 6	29.339 5	29.573 2	29.674 8	30.162 5
1 1/4-7	UNC	31.750 0	31.333 4	29.392 9	29.253 2	27.429 5	27.813 0	28.257 5	29.392 9	29.575 8	31.750 0
1 1/4-8	UN	31.750 0	31.369 0	29.687 5	29.552 9	27.970 5	28.321 0	28.694 4	29.687 5	29.862 8	31.750 0
1 1/4-12	UNF	31.750 0	31.460 4	30.375 9	30.259 0	29.230 3	29.464 0	29.712 9	30.375 9	30.528 3	31.750 0
1 1/4-16	UN	31.750 0	31.511 2	30.718 8	30.622 2	29.860 2	30.022 8	30.248 9	30.718 8	30.845 8	31.750 0
1 1/4-18	UNEF	31.750 0	31.529 0	30.833 1	30.741 6	30.068 5	30.226 0	30.429 2	30.833 1	30.952 4	31.750 0
1 1/4-20	UN	31.750 0	31.544 3	30.924 5	30.835 6	30.238 7	30.378 4	30.571 4	30.924 5	31.038 8	31.750 0
1 1/4-28	UN	31.750 0	31.584 9	31.160 7	31.082 0	30.670 5	30.759 4	30.927 0	31.160 7	31.262 3	31.750 0
1 5/8-8	UN	33.337 5	32.956 5	31.275 0	31.140 4	29.558 0	29.895 8	30.281 9	31.275 0	31.450 3	33.337 5
1 5/8-12	UN	33.337 5	33.047 9	31.963 4	31.851 6	30.817 8	31.038 8	31.300 4	31.963 4	32.108 1	33.337 5
1 5/8-16	UN	33.337 5	33.098 7	32.306 3	32.209 7	31.447 7	31.623 0	31.836 4	32.306 3	32.433 3	33.337 5
1 5/8-18	UNEF	33.337 5	33.116 5	32.420 6	32.326 6	31.656 0	31.800 8	32.016 7	32.420 6	32.542 5	33.337 5
1 5/8-20	UN	33.337 5	33.131 8	32.512 0	32.423 1	31.826 2	31.953 2	32.158 9	32.512 0	32.628 8	33.337 5
1 5/8-28	UN	33.337 5	33.172 4	32.748 2	32.669 5	32.258 0	32.359 6	32.514 5	32.748 2	32.849 8	33.337 5
1 3/8-6	UNC	34.925 0	34.462 7	32.174 2	32.021 8	29.883 1	30.353 0	30.850 8	32.174 2	32.372 3	34.925 0
1 3/8-8	UN	34.925 0	34.544 0	32.862 5	32.725 4	31.145 5	31.496 0	31.869 4	32.862 5	33.040 3	34.925 0
1 3/8-12	UNF	34.925 0	34.635 4	33.550 9	33.431 5	32.405 3	32.639 0	32.887 9	33.550 9	33.705 8	34.925 0
1 3/8-16	UN	34.925 0	34.686 2	33.893 8	33.794 7	33.035 2	33.197 8	33.423 9	33.893 8	34.020 8	34.925 0
1 3/8-18	UNEF	34.925 0	34.704 0	34.008 1	33.914 1	33.243 5	33.401 0	33.604 2	34.008 1	34.130 0	34.925 0
1 3/8-20	UN	34.925 0	34.719 3	34.099 5	34.010 6	33.413 7	33.553 4	33.746 4	34.099 5	34.216 3	34.925 0
1 3/8-28	UN	34.925 0	34.759 9	34.335 7	34.257 0	33.845 5	33.934 4	34.102 0	34.335 7	34.437 3	34.925 0



表 A.2 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
1 $\frac{1}{8}$ -6	UN	36.512 5	36.050 2	33.761 7	33.609 3	31.470 6	31.927 8	32.438 3	33.761 7	33.959 8	36.512 5
1 $\frac{1}{8}$ -8	UN	36.512 5	36.131 5	34.450 0	34.312 9	32.733 0	33.070 8	33.456 9	34.450 0	34.630 4	36.512 5
1 $\frac{1}{8}$ -12	UN	36.512 5	36.222 9	35.138 4	35.026 6	33.992 8	34.213 8	34.475 4	35.138 4	35.283 1	36.512 5
1 $\frac{1}{8}$ -16	UN	36.512 5	36.273 7	35.481 3	35.382 2	34.622 7	34.798 0	35.011 4	35.481 3	35.610 8	36.512 5
1 $\frac{1}{8}$ -18	UNEF	36.512 5	36.291 5	35.595 6	35.501 6	34.831 0	34.975 8	35.191 7	35.595 6	35.717 5	36.512 5
1 $\frac{1}{8}$ -20	UN	36.512 5	36.306 8	35.687 0	35.595 6	35.001 2	35.128 2	35.333 9	35.687 0	35.803 8	36.512 5
1 $\frac{1}{8}$ -28	UN	36.512 5	36.347 4	35.923 2	35.844 5	35.433 0	35.534 6	35.689 5	35.923 2	36.027 4	36.512 5
1 $\frac{1}{2}$ -6	UNC	38.100 0	37.637 7	35.349 2	35.194 2	33.058 1	33.528 0	34.025 8	35.349 2	35.549 8	38.100 0
1 $\frac{1}{2}$ -8	UN	38.100 0	37.719 0	36.037 5	35.897 8	34.320 5	34.671 0	35.044 4	36.037 5	36.217 9	38.100 0
1 $\frac{1}{2}$ -12	UNF	38.100 0	37.810 4	36.725 9	36.603 9	35.580 3	35.814 0	36.062 9	36.725 9	36.885 9	38.100 0
1 $\frac{1}{2}$ -16	UN	38.100 0	37.861 2	37.068 8	36.969 7	36.210 2	36.372 8	36.598 9	37.068 8	37.198 3	38.100 0
1 $\frac{1}{2}$ -18	UNEF	38.100 0	37.879 0	37.183 1	37.089 1	36.418 5	36.576 0	36.779 2	37.183 1	37.305 0	38.100 0
1 $\frac{1}{2}$ -20	UN	38.100 0	37.894 3	37.274 5	37.183 1	36.588 7	36.728 4	36.921 4	37.274 5	37.391 3	38.100 0
1 $\frac{1}{2}$ -28	UN	38.100 0	37.934 9	37.510 7	37.432 0	37.020 5	37.109 4	37.277 0	37.510 7	37.614 9	38.100 0
1 $\frac{3}{8}$ -6	UN	39.687 5	39.225 2	36.936 7	36.781 7	34.645 6	35.102 8	35.613 3	36.936 7	37.139 9	39.687 5
1 $\frac{3}{8}$ -8	UN	39.687 5	39.306 5	37.625 0	37.485 3	35.908 0	36.245 8	36.631 9	37.625 0	37.807 9	39.687 5
1 $\frac{3}{8}$ -12	UN	39.687 5	39.397 9	38.313 4	38.201 6	37.167 8	37.388 8	37.650 4	38.313 4	38.460 7	39.687 5
1 $\frac{3}{8}$ -16	UN	39.687 5	39.448 7	38.656 3	38.557 2	37.797 7	37.973 0	38.186 4	38.656 3	38.785 8	39.687 5
1 $\frac{3}{8}$ -18	UNEF	39.687 5	39.466 5	38.770 6	38.676 6	38.006 0	38.150 8	38.366 7	38.770 6	38.895 0	39.687 5
1 $\frac{3}{8}$ -20	UN	39.687 5	39.481 8	38.862 0	38.770 6	38.176 2	38.303 2	38.508 9	38.862 0	38.981 4	39.687 5
1 $\frac{3}{8}$ -6	UN	41.275 0	40.812 7	38.524 2	38.366 7	36.233 1	36.703 0	37.200 8	38.524 2	38.727 4	41.275 0
1 $\frac{3}{8}$ -8	UN	41.275 0	40.894 0	39.212 5	39.070 3	37.495 5	37.846 0	38.219 4	39.212 5	39.395 4	41.275 0
1 $\frac{3}{8}$ -12	UN	41.275 0	40.985 4	39.900 9	39.789 1	38.755 3	38.989 0	39.237 9	39.900 9	40.048 2	41.275 0
1 $\frac{3}{8}$ -16	UN	41.275 0	41.036 2	40.243 8	40.144 7	39.385 2	39.547 8	39.773 9	40.243 8	40.373 3	41.275 0
1 $\frac{3}{8}$ -18	UNEF	41.275 0	41.054 0	40.358 1	40.261 5	39.593 5	39.751 0	39.954 2	40.358 1	40.482 5	41.275 0
1 $\frac{3}{8}$ -20	UN	41.275 0	41.069 3	40.449 5	40.358 1	39.763 7	39.903 4	40.096 4	40.449 5	40.568 9	41.275 0
1 $\frac{11}{16}$ -6	UN	42.862 5	42.400 2	40.111 7	39.954 2	37.820 6	38.277 8	38.788 3	40.111 7	40.317 4	42.862 5
1 $\frac{11}{16}$ -8	UN	42.862 5	42.481 5	40.800 0	40.657 8	39.083 0	39.420 8	39.806 9	40.800 0	40.985 4	42.862 5
1 $\frac{11}{16}$ -12	UN	42.862 5	42.572 9	41.488 4	41.374 1	40.342 8	40.563 8	40.825 4	41.488 4	41.635 7	42.862 5
1 $\frac{11}{16}$ -16	UN	42.862 5	42.623 7	41.831 3	41.729 7	40.972 7	41.148 0	41.361 4	41.831 3	41.960 8	42.862 5
1 $\frac{11}{16}$ -18	UNEF	42.862 5	42.641 5	41.945 6	41.849 0	41.181 0	41.325 8	41.541 7	41.945 6	42.070 0	42.862 5
1 $\frac{11}{16}$ -20	UN	42.862 5	42.656 8	42.037 0	41.945 6	41.351 2	41.478 2	41.683 9	42.037 0	42.156 4	42.862 5

表 A.2 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
1¼-5	UNC	44.450 0	43.929 3	41.150 5	40.980 4	38.399 7	38.938 2	39.560 5	41.150 5	41.371 5	44.450 0
1¼-6	UN	44.450 0	43.987 7	41.699 2	41.539 2	39.408 1	39.878 0	40.375 8	41.699 2	41.904 9	44.450 0
1¼-8	UN	44.450 0	44.069 0	42.387 5	42.242 7	40.670 5	41.021 0	41.394 4	42.387 5	42.575 5	44.450 0
1¼-12	UN	44.450 0	44.160 4	43.075 9	42.961 6	41.930 3	42.164 0	42.412 9	43.075 9	43.223 2	44.450 0
1¼-16	UN	44.450 0	44.211 2	43.418 8	43.317 2	42.560 2	42.722 8	42.948 9	43.418 8	43.550 8	44.450 0
1¼-20	UN	44.450 0	44.244 3	43.624 5	43.533 1	42.938 7	43.078 4	43.271 4	43.624 5	43.743 9	44.450 0
1 <sup>13</sup> / <sub>16</sub> -6	UN	46.037 5	45.575 2	43.286 7	43.126 7	40.995 6	41.452 8	41.963 3	43.286 7	43.495 0	46.037 5
1 <sup>13</sup> / <sub>16</sub> -8	UN	46.037 5	45.656 5	43.975 0	43.830 2	42.258 0	42.595 8	42.981 9	43.975 0	44.163 0	46.037 5
1 <sup>13</sup> / <sub>16</sub> -12	UN	46.037 5	45.747 9	44.663 4	44.549 1	43.517 8	43.738 8	44.000 4	44.663 4	44.810 7	46.037 5
1 <sup>13</sup> / <sub>16</sub> -16	UN	46.037 5	45.798 7	45.006 3	44.904 7	44.147 7	44.323 0	44.536 4	45.006 3	45.138 3	46.037 5
1 <sup>13</sup> / <sub>16</sub> -20	UN	46.037 5	45.831 8	45.212 0	45.118 0	44.526 2	44.653 2	44.858 9	45.212 0	45.331 4	46.037 5
1 <sup>7</sup> / <sub>8</sub> -6	UN	47.625 0	47.162 7	44.874 2	44.714 2	42.583 1	43.053 0	43.550 8	44.874 2	45.082 5	47.625 0
1 <sup>7</sup> / <sub>8</sub> -8	UN	47.625 0	47.244 0	45.562 5	45.417 7	43.845 5	44.196 0	44.569 4	45.562 5	45.753 0	47.625 0
1 <sup>7</sup> / <sub>8</sub> -12	UN	47.625 0	47.335 4	46.250 9	46.136 6	45.105 3	45.339 0	45.587 9	46.250 9	46.400 7	47.625 0
1 <sup>7</sup> / <sub>8</sub> -16	UN	47.625 0	47.386 2	46.593 8	46.492 2	45.735 2	45.897 8	46.123 9	46.593 8	46.725 8	47.625 0
1 <sup>7</sup> / <sub>8</sub> -20	UN	47.625 0	47.419 3	46.799 5	46.705 5	46.113 7	46.253 4	46.446 4	46.799 5	46.921 4	47.625 0
1 <sup>15</sup> / <sub>16</sub> -6	UN	49.212 5	48.750 2	46.461 7	46.299 1	44.170 6	44.627 8	45.138 3	46.461 7	46.672 5	49.212 5
1 <sup>15</sup> / <sub>16</sub> -8	UN	49.212 5	48.831 5	47.150 0	47.002 7	45.433 0	45.770 8	46.156 9	47.150 0	47.340 5	49.212 5
1 <sup>15</sup> / <sub>16</sub> -12	UN	49.212 5	48.922 9	47.838 4	47.724 1	46.692 8	46.913 8	47.175 4	47.838 4	47.988 2	49.212 5
1 <sup>15</sup> / <sub>16</sub> -16	UN	49.212 5	48.973 7	48.181 3	48.079 7	47.322 7	47.498 0	47.711 4	48.181 3	48.313 3	49.212 5
1 <sup>15</sup> / <sub>16</sub> -20	UN	49.212 5	49.006 8	48.387 0	48.293 0	47.701 2	47.828 2	48.033 9	48.387 0	48.508 9	49.212 5
2-4½	UNC	50.800 0	50.241 2	47.134 8	46.954 4	44.079 2	44.678 6	45.366 9	47.134 8	47.371 0	50.800 0
2-6	UN	50.800 0	50.337 7	48.049 2	47.886 6	45.758 1	46.228 0	46.725 8	48.049 2	48.260 0	50.800 0
2-8	UN	50.800 0	50.419 0	48.737 5	48.590 2	47.020 5	47.371 0	47.744 4	48.737 5	48.930 6	50.800 0
2-12	UN	50.800 0	50.510 4	49.425 9	49.311 6	48.280 3	48.514 0	48.762 9	49.425 9	49.575 7	50.800 0
2-16	UN	50.800 0	50.561 2	49.768 8	49.667 2	48.910 2	49.072 8	49.298 9	49.768 8	49.900 8	50.800 0
2-20	UN	50.800 0	50.594 3	49.974 5	49.880 5	49.288 7	49.428 4	49.621 4	49.974 5	50.096 4	50.800 0
2 <sup>1</sup> / <sub>8</sub> -6	UN	53.975 0	53.512 7	51.224 2	51.059 1	48.933 1	49.403 0	49.900 8	51.224 2	51.437 5	53.975 0
2 <sup>1</sup> / <sub>8</sub> -8	UN	53.975 0	53.594 0	51.912 5	51.762 7	50.195 5	50.546 0	50.919 4	51.912 5	52.108 1	53.975 0
2 <sup>1</sup> / <sub>8</sub> -12	UN	53.975 0	53.685 4	52.600 9	52.484 0	51.455 3	51.689 0	51.937 9	52.600 9	52.750 7	53.975 0
2 <sup>1</sup> / <sub>8</sub> -16	UN	53.975 0	53.736 2	52.943 8	52.839 6	52.085 2	52.247 8	52.473 9	52.943 8	53.078 4	53.975 0
2 <sup>1</sup> / <sub>8</sub> -20	UN	53.975 0	53.769 3	53.149 5	53.055 5	52.463 7	52.603 4	52.796 4	53.149 5	53.271 4	53.975 0

表 A.2 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
2¼-4½	UNC	57.150 0	56.591 2	53.484 8	53.299 4	50.429 2	51.028 6	51.716 9	53.484 8	53.726 1	57.150 0
2¼-6	UN	57.150 0	56.687 7	54.399 2	54.231 5	52.108 1	52.578 0	53.075 8	54.399 2	54.615 1	57.150 0
2¼-8	UN	57.150 0	56.769 0	55.087 5	54.935 1	53.370 5	53.721 0	54.094 4	55.087 5	55.285 6	57.150 0
2¼-12	UN	57.150 0	56.860 4	55.775 9	55.659 0	54.630 3	54.864 0	55.112 9	55.775 9	55.928 3	57.150 0
2¼-16	UN	57.150 0	56.911 2	56.118 8	56.014 6	55.260 2	55.422 8	55.648 9	56.118 8	56.253 4	57.150 0
2¼-20	UN	57.150 0	56.944 3	56.324 5	56.228 0	55.638 7	55.778 4	55.971 4	56.324 5	56.449 0	57.150 0
2½-6	UN	60.325 0	59.862 7	57.574 2	57.406 5	55.283 1	55.753 0	56.250 8	57.574 2	57.792 6	60.325 0
2½-8	UN	60.325 0	59.944 0	58.262 5	58.110 1	56.545 5	56.896 0	57.269 4	58.262 5	58.463 2	60.325 0
2½-12	UN	60.325 0	60.035 4	58.950 9	58.834 0	57.805 3	58.039 0	58.287 9	58.950 9	59.103 3	60.325 0
2½-16	UN	60.325 0	60.086 2	59.293 8	59.189 6	58.435 2	58.597 8	58.823 9	59.293 8	59.430 9	60.325 0
2½-20	UN	60.325 0	60.119 3	59.499 5	59.403 0	58.813 7	58.953 4	59.146 4	59.499 5	59.624 0	60.325 0
2½-4	UNC	63.500 0	62.895 5	59.375 0	59.176 9	55.938 4	56.616 6	57.388 8	59.375 0	59.631 6	63.500 0
2½-6	UN	63.500 0	63.037 7	60.749 2	60.579 0	58.458 1	58.928 0	59.425 8	60.749 2	60.970 2	63.500 0
2½-8	UN	63.500 0	63.119 0	61.437 5	61.282 6	59.720 5	60.071 0	60.444 4	61.437 5	61.640 7	63.500 0
2½-12	UN	63.500 0	63.210 4	62.125 9	62.009 0	60.980 3	61.214 0	61.462 9	62.125 9	62.278 3	63.500 0
2½-16	UN	63.500 0	63.261 2	62.468 8	62.364 6	61.610 2	61.772 8	61.998 9	62.468 8	62.605 9	63.500 0
2½-20	UN	63.500 0	63.294 3	62.674 5	62.578 0	61.988 7	62.128 4	62.321 4	62.674 5	62.801 5	63.500 0
2¾-6	UN	66.675 0	66.212 7	63.924 2	63.751 5	61.633 1	62.103 0	62.600 8	63.924 2	64.147 7	66.675 0
2¾-8	UN	66.675 0	66.294 0	64.612 5	64.455 0	62.895 5	63.246 0	63.619 4	64.612 5	64.815 7	66.675 0
2¾-12	UN	66.675 0	66.385 4	65.300 9	65.181 5	64.155 3	64.389 0	64.637 9	65.300 9	65.455 8	66.675 0
2¾-16	UN	66.675 0	66.436 2	65.643 8	65.537 1	64.785 2	64.947 8	65.173 9	65.643 8	65.780 9	66.675 0
2¾-20	UN	66.675 0	66.469 3	65.849 5	65.753 0	65.163 7	65.303 4	65.496 4	65.849 5	65.976 5	66.675 0
2¾-4	UNC	69.850 0	69.245 5	65.725 0	65.524 4	62.288 4	62.966 6	63.738 8	65.725 0	65.986 7	69.850 0
2¾-6	UN	69.850 0	69.387 7	67.099 2	66.926 5	64.808 1	65.278 0	65.775 8	67.099 2	67.325 2	69.850 0
2¾-8	UN	69.850 0	69.469 0	67.787 5	67.627 5	66.070 5	66.421 0	66.794 4	67.787 5	67.993 3	69.850 0
2¾-12	UN	69.850 0	69.560 4	68.475 9	68.356 5	67.330 3	67.564 0	67.812 9	68.475 9	68.630 8	69.850 0
2¾-16	UN	69.850 0	69.611 2	68.818 8	68.712 1	67.960 2	68.122 8	68.348 9	68.818 8	68.955 9	69.850 0
2¾-20	UN	69.850 0	69.644 3	69.024 5	68.925 4	68.338 7	68.478 4	68.671 4	69.024 5	69.151 5	69.850 0
2⅞-6	UN	73.025 0	72.562 7	70.274 2	70.098 9	67.983 1	68.453 0	68.950 8	70.274 2	70.502 8	73.025 0
2⅞-8	UN	73.025 0	72.644 0	70.962 5	70.802 5	69.245 5	69.596 0	69.969 4	70.962 5	71.170 8	73.025 0
2⅞-12	UN	73.025 0	72.735 4	71.650 9	71.531 5	70.505 3	70.739 0	70.987 9	71.650 9	71.805 8	73.025 0
2⅞-16	UN	73.025 0	72.786 2	71.993 8	71.887 1	71.135 2	71.297 8	71.523 9	71.993 8	72.133 5	73.025 0
2⅞-20	UN	73.025 0	72.819 3	72.199 5	72.100 4	71.513 7	71.653 4	71.846 4	72.199 5	72.326 5	73.025 0

表 A.2 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
3-4	UNC	76.200 0	75.595 5	72.075 0	71.871 8	68.638 4	69.316 6	70.088 8	72.075 0	72.339 2	76.200 0
3-6	UN	76.200 0	75.737 7	73.449 2	73.271 4	71.158 1	71.628 0	72.125 8	73.449 2	73.680 3	76.200 0
3-8	UN	76.200 0	75.819 0	74.137 5	73.975 0	72.420 5	72.771 0	73.144 4	74.137 5	74.348 3	76.200 0
3-12	UN	76.200 0	75.910 4	74.825 9	74.706 5	73.680 3	73.914 0	74.162 9	74.825 9	74.983 3	76.200 0
3-16	UN	76.200 0	75.961 2	75.168 8	75.062 1	74.310 2	74.472 8	74.698 9	75.168 8	75.308 5	76.200 0
3-20	UN	76.200 0	75.994 3	75.374 5	75.275 4	74.688 7	74.828 4	75.021 4	75.374 5	75.504 0	76.200 0
3 $\frac{1}{8}$ -6	UN	79.375 0	78.912 7	76.624 2	76.446 4	74.333 1	74.803 0	75.300 8	76.624 2	76.857 9	79.375 0
3 $\frac{1}{8}$ -8	UN	79.375 0	78.994 0	77.312 5	77.150 0	75.595 5	75.946 0	76.319 4	77.312 5	77.525 9	79.375 0
3 $\frac{1}{8}$ -12	UN	79.375 0	79.085 4	78.000 9	77.878 9	76.855 3	77.089 0	77.337 9	78.000 9	78.158 3	79.375 0
3 $\frac{1}{8}$ -16	UN	79.375 0	79.136 2	78.343 8	78.234 5	77.485 2	77.647 8	77.873 9	78.343 8	78.483 5	79.375 0
3 $\frac{1}{4}$ -4	UNC	82.550 0	81.945 5	78.425 0	78.216 8	74.988 4	75.666 6	76.438 8	78.425 0	78.694 3	82.550 0
3 $\frac{1}{4}$ -6	UN	82.550 0	82.087 7	79.799 2	79.618 8	77.508 1	77.978 0	78.475 8	79.799 2	80.032 9	82.550 0
3 $\frac{1}{4}$ -8	UN	82.550 0	82.169 0	80.487 5	80.322 4	78.770 5	79.121 0	79.494 4	80.487 5	80.703 4	82.550 0
3 $\frac{1}{4}$ -12	UN	82.550 0	82.260 4	81.175 9	81.053 9	80.030 3	80.264 0	80.512 9	81.175 9	81.333 3	82.550 0
3 $\frac{1}{4}$ -16	UN	82.550 0	82.311 2	81.518 8	81.409 5	80.660 2	80.822 8	81.048 9	81.518 8	81.661 0	82.550 0
3 $\frac{3}{8}$ -6	UN	85.725 0	85.262 7	82.974 2	82.791 3	80.683 1	81.153 0	81.650 8	82.974 2	83.210 4	85.725 0
3 $\frac{3}{8}$ -8	UN	85.725 0	85.344 0	83.662 5	83.494 9	81.945 5	82.296 0	82.669 4	83.662 5	83.878 4	85.725 0
3 $\frac{3}{8}$ -12	UN	85.725 0	85.435 4	84.350 9	84.228 9	83.205 3	83.439 0	83.687 9	84.350 9	84.510 9	85.725 0
3 $\frac{3}{8}$ -16	UN	85.725 0	85.486 2	84.693 8	84.584 5	83.835 2	83.997 8	84.223 9	84.693 8	84.836 0	85.725 0
3 $\frac{1}{2}$ -4	UNC	88.900 0	88.295 5	84.775 0	84.564 2	81.338 4	82.016 6	82.788 8	84.775 0	85.049 4	88.900 0
3 $\frac{1}{2}$ -6	UN	88.900 0	88.437 7	86.149 2	85.966 3	83.858 1	84.328 0	84.825 8	86.149 2	86.387 9	88.900 0
3 $\frac{1}{2}$ -8	UN	88.900 0	88.519 0	86.837 5	86.669 9	85.120 5	85.471 0	85.844 4	86.837 5	87.056 0	88.900 0
3 $\frac{1}{2}$ -12	UN	88.900 0	88.610 4	87.525 9	87.403 9	86.380 3	86.614 0	86.862 9	87.525 9	87.685 9	88.900 0
3 $\frac{1}{2}$ -16	UN	88.900 0	88.661 2	87.868 8	87.759 5	87.010 2	87.172 8	87.398 9	87.868 8	88.011 0	88.900 0
3 $\frac{3}{4}$ -6	UN	92.075 0	91.612 7	89.324 2	89.138 8	87.033 1	87.503 0	88.000 8	89.324 2	89.565 5	92.075 0
3 $\frac{3}{4}$ -8	UN	92.075 0	91.694 0	90.012 5	89.842 3	88.295 5	88.646 0	89.019 4	90.012 5	90.233 5	92.075 0
3 $\frac{3}{4}$ -12	UN	92.075 0	91.785 4	90.700 9	90.578 9	89.555 3	89.789 0	90.037 9	90.700 9	90.860 9	92.075 0
3 $\frac{3}{4}$ -16	UN	92.075 0	91.836 2	91.043 8	90.934 5	90.185 2	90.347 8	90.573 9	91.043 8	91.186 0	92.075 0
3 $\frac{3}{4}$ -4	UNC	95.250 0	94.645 5	91.125 0	90.911 7	87.688 4	88.366 6	89.138 8	91.125 0	91.401 9	95.250 0
3 $\frac{3}{4}$ -6	UN	95.250 0	94.787 7	92.499 2	92.313 8	90.208 1	90.678 0	91.175 8	92.499 2	92.740 5	95.250 0
3 $\frac{3}{4}$ -8	UN	95.250 0	94.869 0	93.187 5	93.017 3	91.470 5	91.821 0	92.194 4	93.187 5	93.411 0	95.250 0
3 $\frac{3}{4}$ -12	UN	95.250 0	94.960 4	93.875 9	93.751 4	92.730 3	92.964 0	93.212 9	93.875 9	94.035 9	95.250 0
3 $\frac{3}{4}$ -16	UN	95.250 0	95.011 2	94.218 8	94.107 0	93.360 2	93.522 8	93.748 9	94.218 8	94.363 5	95.250 0

表 A.2 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	
3/8-6	UN	98.425 0	97.962 7	95.674 2	95.486 2	93.383 1	93.853 0	94.350 8	95.674 2	95.918 0	98.425 0
3/8-8	UN	98.425 0	98.044 0	96.362 5	96.189 8	94.645 5	94.996 0	95.369 4	96.362 5	96.586 0	98.425 0
3/8-12	UN	98.425 0	98.135 4	97.050 9	96.926 4	95.905 3	96.139 0	96.387 9	97.050 9	97.213 4	98.425 0
3/8-16	UN	98.425 0	98.186 2	97.393 8	97.282 0	96.535 2	96.697 8	96.923 9	97.393 8	97.538 5	98.425 0
4-4	UNC	101.600 0	100.995 5	97.475 0	97.259 1	94.038 4	94.716 6	95.488 8	97.475 0	97.757 0	101.600 0
4-6	UN	101.600 0	101.137 7	98.849 2	98.661 2	96.558 1	97.028 0	97.525 8	98.849 2	99.095 6	101.600 0
4-8	UN	101.600 0	101.219 0	99.537 5	99.364 8	97.820 5	98.171 0	98.544 4	99.537 5	99.763 6	101.600 0
4-12	UN	101.600 0	101.310 4	100.225 9	100.101 4	99.080 3	99.314 0	99.562 9	100.225 9	100.388 4	101.600 0
4-16	UN	101.600 0	101.361 2	100.568 8	100.457 0	99.710 2	99.872 8	100.098 9	100.568 8	100.713 5	101.600 0
4 1/8-6	UN	104.775 0	104.312 7	102.024 2	101.833 7	99.733 1	100.203 0	100.700 8	102.024 2	102.270 6	104.775 0
4 1/8-8	UN	104.775 0	104.394 0	102.712 5	102.537 3	100.995 5	101.346 0	101.719 4	102.712 5	102.941 1	104.775 0
4 1/8-12	UN	104.775 0	104.485 4	103.400 9	103.276 4	102.255 3	102.489 0	102.737 9	103.400 9	103.563 4	104.775 0
4 1/8-16	UN	104.775 0	104.536 2	103.743 8	103.632 0	102.885 2	103.047 8	103.273 9	103.743 8	103.888 5	104.775 0
4 1/4-4	UN	107.950 0	107.345 5	103.825 0	103.606 6	100.388 4	101.066 6	101.838 8	103.825 0	104.109 5	107.950 0
4 1/4-6	UN	107.950 0	107.487 7	105.199 2	105.008 7	102.908 1	103.378 0	103.875 8	105.199 2	105.448 1	107.950 0
4 1/4-8	UN	107.950 0	107.569 0	105.887 5	105.709 7	104.170 5	104.521 0	104.894 4	105.887 5	106.116 1	107.950 0
4 1/4-12	UN	107.950 0	107.660 4	106.575 9	106.451 4	105.430 3	105.664 0	105.912 9	106.575 9	106.738 4	107.950 0
4 1/4-16	UN	107.950 0	107.711 2	106.918 8	106.807 0	106.060 2	106.222 8	106.448 9	106.918 8	107.066 1	107.950 0
4 3/8-6	UN	111.125 0	110.662 7	108.374 2	108.181 1	106.083 1	106.553 0	107.050 8	108.374 2	108.625 6	111.125 0
4 3/8-8	UN	111.125 0	110.744 0	109.062 5	108.884 7	107.345 5	107.696 0	108.069 4	109.062 5	109.293 7	111.125 0
4 3/8-12	UN	111.125 0	110.835 4	109.750 9	109.623 9	108.605 3	108.839 0	109.087 9	109.750 9	109.913 4	111.125 0
4 3/8-16	UN	111.125 0	110.886 2	110.093 8	109.979 5	109.235 2	109.397 8	109.623 9	110.093 8	110.241 1	111.125 0
4 1/2-4	UN	114.300 0	113.695 5	110.175 0	109.954 1	106.738 4	107.416 6	108.188 8	110.175 0	110.462 1	114.300 0
4 1/2-6	UN	114.300 0	113.837 7	111.549 2	111.353 6	109.258 1	109.728 0	110.225 8	111.549 2	111.800 6	114.300 0
4 1/2-8	UN	114.300 0	113.919 0	112.237 5	112.057 2	110.520 5	110.871 0	111.244 4	112.237 5	112.471 2	114.300 0
4 1/2-12	UN	114.300 0	114.010 4	112.925 9	112.798 9	111.780 3	112.014 0	112.262 9	112.925 9	113.091 0	114.300 0
4 1/2-16	UN	114.300 0	114.061 2	113.268 8	113.154 5	112.410 2	112.572 8	112.798 9	113.268 8	113.416 1	114.300 0
4 5/8-6	UN	117.475 0	117.012 7	114.724 2	114.528 6	112.433 1	112.903 0	113.400 8	114.724 2	114.978 2	117.475 0
4 5/8-8	UN	117.475 0	117.094 0	115.412 5	115.232 2	113.695 5	114.046 0	114.419 4	115.412 5	115.646 2	117.475 0
4 5/8-12	UN	117.475 0	117.185 4	116.100 9	115.973 9	114.955 3	115.189 0	115.437 9	116.100 9	116.266 0	117.475 0
4 5/8-16	UN	117.475 0	117.236 2	116.443 8	116.329 5	115.585 2	115.747 8	115.973 9	116.443 8	116.591 1	117.475 0

表 A.2 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
4 <sup>3</sup> / <sub>4</sub> -4	UN	120.650 0	120.045 5	116.525 0	116.301 5	113.088 4	113.766 6	114.538 8	116.525 0	116.814 6	120.650 0
4 <sup>3</sup> / <sub>4</sub> -6	UN	120.650 0	120.187 7	117.899 2	117.703 6	115.608 1	116.078 0	116.575 8	117.899 2	118.155 7	120.650 0
4 <sup>3</sup> / <sub>4</sub> -8	UN	120.650 0	120.269 0	118.587 5	118.404 6	116.870 5	117.221 0	117.594 4	118.587 5	118.823 7	120.650 0
4 <sup>3</sup> / <sub>4</sub> -12	UN	120.650 0	120.360 4	119.275 9	119.148 9	118.130 3	118.364 0	118.612 9	119.275 9	119.441 0	120.650 0
4 <sup>3</sup> / <sub>4</sub> -16	UN	120.650 0	120.411 2	119.618 8	119.504 5	118.760 2	118.922 8	119.148 9	119.618 8	119.768 6	120.650 0
4 <sup>7</sup> / <sub>8</sub> -6	UN	123.825 0	123.362 7	121.074 2	120.876 1	118.783 1	119.253 0	119.750 8	121.074 2	121.330 7	123.825 0
4 <sup>7</sup> / <sub>8</sub> -8	UN	123.825 0	123.444 0	121.762 5	121.579 6	120.045 5	120.396 0	120.769 4	121.762 5	122.001 3	123.825 0
4 <sup>7</sup> / <sub>8</sub> -12	UN	123.825 0	123.535 4	122.450 9	122.323 9	121.305 3	121.539 0	121.787 9	122.450 9	122.616 0	123.825 0
4 <sup>7</sup> / <sub>8</sub> -16	UN	123.825 0	123.586 2	122.793 8	122.679 5	121.935 2	122.097 8	122.323 9	122.793 8	122.943 6	123.825 0
5-4	UN	127.000 0	126.395 5	122.875 0	122.649 0	119.438 4	120.116 6	120.888 8	122.875 0	123.169 7	127.000 0
5-6	UN	127.000 0	126.537 7	124.249 2	124.051 1	121.958 1	122.428 0	122.925 8	124.249 2	124.508 3	127.000 0
5-8	UN	127.000 0	126.619 0	124.937 5	124.752 1	123.220 5	123.571 0	123.944 4	124.937 5	125.176 3	127.000 0
5-12	UN	127.000 0	126.710 4	125.625 9	125.498 9	124.480 3	124.714 0	124.962 9	125.625 9	125.793 5	127.000 0
5-16	UN	127.000 0	126.761 2	125.968 8	125.854 5	125.110 2	125.272 8	125.498 9	125.968 8	126.118 6	127.000 0
5 <sup>1</sup> / <sub>8</sub> -6	UN	130.175 0	129.712 7	127.424 2	127.223 5	125.133 1	125.603 0	126.100 8	127.424 2	127.685 8	130.175 0
5 <sup>1</sup> / <sub>8</sub> -8	UN	130.175 0	129.794 0	128.112 5	127.927 1	126.395 5	126.746 0	127.119 4	128.112 5	128.353 8	130.175 0
5 <sup>1</sup> / <sub>8</sub> -12	UN	130.175 0	129.885 4	128.800 9	128.671 3	127.655 3	127.889 0	128.137 9	128.800 9	128.968 5	130.175 0
5 <sup>1</sup> / <sub>8</sub> -16	UN	130.175 0	129.936 2	129.143 8	129.026 9	128.285 2	128.447 8	128.673 9	129.143 8	129.293 6	130.175 0
5 <sup>1</sup> / <sub>4</sub> -4	UN	133.350 0	132.745 5	129.225 0	128.996 4	125.788 4	126.466 6	127.238 8	129.225 0	129.522 2	133.350 0
5 <sup>1</sup> / <sub>4</sub> -6	UN	133.350 0	132.887 7	130.599 2	130.398 5	128.308 1	128.778 0	129.275 8	130.599 2	130.860 8	133.350 0
5 <sup>1</sup> / <sub>4</sub> -8	UN	133.350 0	132.969 0	131.287 5	131.102 1	129.570 5	129.921 0	130.294 4	131.287 5	131.528 8	133.350 0
5 <sup>1</sup> / <sub>4</sub> -12	UN	133.350 0	133.060 4	131.975 9	131.846 3	130.830 3	131.064 0	131.312 9	131.975 9	132.143 5	133.350 0
5 <sup>1</sup> / <sub>4</sub> -16	UN	133.350 0	133.111 2	132.318 8	132.201 9	131.460 2	131.622 8	131.848 9	132.318 8	132.468 6	133.350 0
5 <sup>3</sup> / <sub>8</sub> -6	UN	136.525 0	136.062 7	133.774 2	133.571 0	131.483 1	131.953 0	132.450 8	133.774 2	134.038 3	136.525 0
5 <sup>3</sup> / <sub>8</sub> -8	UN	136.525 0	136.144 0	134.462 5	134.274 6	132.745 5	133.096 0	133.469 4	134.462 5	134.706 4	136.525 0
5 <sup>3</sup> / <sub>8</sub> -12	UN	136.525 0	136.235 4	135.150 9	135.021 3	134.005 3	134.239 0	134.487 9	135.150 9	135.318 5	136.525 0
5 <sup>3</sup> / <sub>8</sub> -16	UN	136.525 0	136.286 2	135.493 8	135.376 9	134.635 2	134.797 8	135.023 9	135.493 8	135.646 2	136.525 0
5 <sup>1</sup> / <sub>2</sub> -4	UN	139.700 0	139.095 5	135.575 0	135.343 9	132.138 4	132.816 6	133.588 8	135.575 0	135.874 8	139.700 0
5 <sup>1</sup> / <sub>2</sub> -6	UN	139.700 0	139.237 7	136.949 2	136.746 0	134.658 1	135.128 0	135.625 8	136.949 2	137.213 3	139.700 0
5 <sup>1</sup> / <sub>2</sub> -8	UN	139.700 0	139.319 0	137.637 5	137.449 6	135.920 5	136.271 0	136.644 4	137.637 5	137.883 9	139.700 0
5 <sup>1</sup> / <sub>2</sub> -12	UN	139.700 0	139.410 4	138.325 9	138.196 3	137.180 3	137.414 0	137.662 9	138.325 9	138.493 5	139.700 0
5 <sup>1</sup> / <sub>2</sub> -16	UN	139.700 0	139.461 2	138.668 8	138.551 9	137.810 2	137.972 8	138.198 9	138.668 8	138.821 2	139.700 0

表 A.2 (续)

单位为毫米

公称尺寸 -牙数	系列 代号	外螺纹 3A					内螺纹 3B				
		大径		中径		UNR 最大 小径(参考)	小径		中径		大径
		max	min	max	min		min	max	min	max	min
5 $\frac{3}{8}$ -6	UN	142.875 0	142.412 7	140.124 2	139.918 4	137.833 1	138.303 0	138.800 8	140.124 2	140.390 9	142.875 0
5 $\frac{3}{8}$ -8	UN	142.875 0	142.494 0	140.812 5	140.622 0	139.095 5	139.446 0	139.819 4	140.812 5	141.058 9	142.875 0
5 $\frac{3}{8}$ -12	UN	142.875 0	142.585 4	141.500 9	141.371 3	140.355 3	140.589 0	140.837 9	141.500 9	141.671 0	142.875 0
5 $\frac{3}{8}$ -16	UN	142.875 0	142.636 2	141.843 8	141.726 9	140.985 2	141.147 8	141.373 9	141.843 8	141.996 2	142.875 0
5 $\frac{1}{4}$ -4	UN	146.050 0	145.445 5	141.925 0	141.691 4	138.488 4	139.166 6	139.938 8	141.925 0	142.227 3	146.050 0
5 $\frac{1}{4}$ -6	UN	146.050 0	145.587 7	143.299 2	143.093 4	141.008 1	141.478 0	141.975 8	143.299 2	143.568 4	146.050 0
5 $\frac{1}{4}$ -8	UN	146.050 0	145.669 0	143.987 5	143.797 0	142.270 5	142.621 0	142.994 4	143.987 5	144.236 4	146.050 0
5 $\frac{1}{4}$ -12	UN	146.050 0	145.760 4	144.675 9	144.546 3	143.530 3	143.764 0	144.012 9	144.675 9	144.846 0	146.050 0
5 $\frac{1}{4}$ -16	UN	146.050 0	145.811 2	145.018 8	144.901 9	144.160 2	144.322 8	144.548 9	145.018 8	145.171 2	146.050 0
5 $\frac{7}{8}$ -6	UN	149.225 0	148.762 7	146.474 2	146.265 9	144.183 1	144.653 0	145.150 8	146.474 2	146.743 4	149.225 0
5 $\frac{7}{8}$ -8	UN	149.225 0	148.844 0	147.162 5	146.969 5	145.445 5	145.796 0	146.169 4	147.162 5	147.411 4	149.225 0
5 $\frac{7}{8}$ -12	UN	149.225 0	148.935 4	147.850 9	147.718 8	146.705 3	146.939 0	147.187 9	147.850 9	148.021 0	149.225 0
5 $\frac{7}{8}$ -16	UN	149.225 0	148.986 2	148.193 8	148.076 9	147.335 2	147.497 8	147.723 9	148.193 8	148.346 2	149.225 0
6-4	UN	152.400 0	151.795 5	148.275 0	148.038 8	144.838 4	145.516 6	146.288 8	148.275 0	148.579 8	152.400 0
6-6	UN	152.400 0	151.937 7	149.649 2	149.440 9	147.358 1	147.828 0	148.325 8	149.649 2	149.921 0	152.400 0
6-8	UN	152.400 0	152.019 0	150.337 5	150.144 5	148.620 5	148.971 0	149.344 4	150.337 5	150.589 0	152.400 0
6-12	UN	152.400 0	152.110 4	151.025 9	150.893 8	149.880 3	150.114 0	150.362 9	151.025 9	151.196 0	152.400 0
6-16	UN	152.400 0	152.161 2	151.368 8	151.249 4	150.510 2	150.672 8	150.898 9	151.368 8	151.523 7	152.400 0

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