

Unified screw threads

Size		Major diameter		Threads per inch										Threads per inch	Pitch (mm)		
				Coarse	Fine	Extra Fine	4UN	6UN	8UN	12UN	16UN	20UN	28UN			32UN	
1	2	inch	mm	UNC	UNF	UNFE											
No.0	No.1	0.0600	1.524		80												
		0.0730	1.854	64	72												
No.2		0.0860	2.184	56	64												
	No.3	0.0990	2.515	48	56												
No.4		0.1120	2.845	40	48												
No.5		0.1250	3.175	40	44												
No.6		0.1380	3.505	32	40												UNC
No.8		0.1640	4.166	32	36												UNC
No.10		0.1900	4.826	24	32												UNC
	No.12	0.2160	5.486	24	28	32									UNF		UNEF
1/4		0.2500	6.350	20	28	32								UNC	UNF		UNEF
5/16		0.3125	7.938	18	24	32								UNC	20	28	UNEF
3/8		0.3750	9.525	16	24	32								UNC	20	28	UNEF
7/16		0.4375	11.112	14	20	28							16	UNF	UNEF		32
1/2		0.5000	12.700	13	20	28							16	UNF	UNEF		32
9/16		0.5625	14.288	12	18	24				UNC			16	20	28	32	
5/8		0.6250	15.875	11	18	24				12			16	20	28	32	
	11/16	0.6875	17.462			24						12	16	20	28	32	
3/4		0.7500	19.050	10	16	20						12	UNF	UNEF	28	32	
	13/16	0.8125	20.638			20						12	16	UNEF	28	32	
	7/8	0.8750	22.225	9	14	20						12	16	UNEF	28	32	
	15/16	0.9375	23.812			20						12	16	UNEF	28	32	
1		1.0000	25.400	8	12	20			UNC	UNF		16	UNEF	28	32		
	1 1/16	1.0625	26.988			18				8	12	16	20	28			
		1.1250	28.575	7	12	18				8	UNF	16	20	28			
	1 3/16	1.1875	30.162			18				8	12	16	20	28			
1 1/4		1.2500	31.750	7	12	18				8	UNF	16	20	28			
	1 5/16	1.3125	33.338			18				8	12	16	20	28			
1 3/8		1.3750	34.925	6	12	18			UNC	8	UNF	16	20	28			
	1 7/16	1.4375	36.512			18			6	8	12	16	20	28			
1 1/2		1.5000	38.100	6	12	18			UNC	8	UNF	16	20	28			
	1 9/16	1.5625	39.688			18			6	8	12	16	20				
	1 5/8	1.6250	41.275			18			6	8	12	16	20				
	1 11/16	1.6875	42.862			18			6	8	12	16	20				
1 3/4		1.7500	44.450	5					6	8	12	16	20				
	1 13/16	1.8125	46.038						6	8	12	16	20				
1 7/8		1.8750	47.625						6	8	12	16	20				
	1 15/16	1.9375	49.212						6	8	12	16	20				
2		2.0000	50.800	4 1/2					6	8	12	16	20				
	2 1/8	2.1250	53.975						6	8	12	16	20				
2 1/4		2.2500	57.150	4 1/2					6	8	12	16	20				
	2 3/8	2.3750	60.325						6	8	12	16	20				
2 1/2		2.5000	63.500	4					UNC	6	8	12	16	20			
	2 5/8	2.6250	66.675						4	6	8	12	16	20			
2 3/4		2.7500	69.850	4					UNC	6	8	12	16	20			
	2 7/8	2.8750	73.025						4	6	8	12	16	20			
3		3.0000	76.200	4					UNC	6	8	12	16	20			
	3 1/8	3.1250	79.375						4	6	8	12	16				
3 1/4		3.2500	82.550	4					UNC	6	8	12	16				
	3 3/8	3.3750	85.725						4	6	8	12	16				
3 1/2		3.5000	88.900	4					UNC	6	8	12	16				
	3 5/8	3.6250	92.075						4	6	8	12	16				
3 3/4		3.7500	92.250	4					UNC	6	8	12	16				
	3 7/8	3.8750	98.425						4	6	8	12	16				
4		4.0000	101.600	4					UNC	6	8	12	16				
	4 1/8	4.1250	104.775						4	6	8	12	16				
4 1/4		4.2500	107.950						4	6	8	12	16				
	4 3/8	4.3750	111.125						4	6	8	12	16				
4 1/2		4.5000	114.300						4	6	8	12	16				
	4 5/8	4.6250	117.475						4	6	8	12	16				
4 3/4		4.7500	120.650						4	6	8	12	16				
	4 7/8	4.8750	123.825						4	6	8	12	16				
5		5.0000	127.000						4	6	8	12	16				
	5 1/8	5.1250	130.175						4	6	8	12	16				
5 1/4		5.2500	133.350						4	6	8	12	16				
	5 3/8	5.3750	136.525						4	6	8	12	16				
5 1/2		5.5000	139.700						4	6	8	12	16				
	5 5/8	5.6250	142.875						4	6	8	12	16				
5 3/4		5.7500	146.050						4	6	8	12	16				
	5 7/8	5.8750	149.225						4	6	8	12	16				

100	0.2540
80	0.3175
72	0.3528
64	0.3969
60	0.4233
56	0.4536
48	0.5292
44	0.5773
40	0.6350
36	0.7056
32	0.7938
28	0.9071
27	0.9407
24	1.0583
20	1.2700
19	1.3368
18	1.4111
16	1.5875
14	1.8143
13	1.9538
12	2.1167
11 1/2	2.2087
11	2.3091
10	2.5400
9	2.8222
8	3.1750
7	3.6286
6	4.2333
5	5.0800
4 1/4	5.6444
4	6.3500

Unified screw threads

AMSE B1.1—1989

Size	Major dia. (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
No.0	0.060	80	UNF	1.524	0.318	2B	1.182	1.305	1.319	1.376	0.057
No.0	0.060	80	UNF	1.524	0.318	3B	1.182	1.305	1.319	1.361	0.042
No.1	0.073	64	UNC	1.854	0.397	2B	1.425	1.582	1.598	1.663	0.065
No.1	0.073	64	UNC	1.854	0.397	3B	1.425	1.582	1.598	1.645	0.047
No.1	0.073	72	UNF	1.854	0.353	2B	1.474	1.612	1.626	1.689	0.063
No.1	0.073	72	UNF	1.854	0.353	3B	1.474	1.612	1.626	1.673	0.047
No.2	0.086	56	UNC	2.184	0.454	2B	1.695	1.871	1.890	1.960	0.070
No.2	0.086	56	UNC	2.184	0.454	3B	1.695	1.871	1.890	1.943	0.053
No.2	0.086	64	UNF	2.184	0.397	2B	1.756	1.912	1.928	1.996	0.068
No.2	0.086	64	UNF	2.184	0.397	3B	1.756	1.912	1.928	1.978	0.050
No.3	0.099	48	UNC	2.514	0.529	2B	1.941	2.146	2.172	2.247	0.075
No.3	0.099	48	UNC	2.514	0.529	3B	1.941	2.146	2.172	2.227	0.055
No.3	0.099	56	UNF	2.514	0.454	2B	2.025	2.197	2.220	2.291	0.071
No.3	0.099	56	UNF	2.514	0.454	3B	2.025	2.197	2.220	2.273	0.053
No.4	0.112	40	UNC	2.844	0.635	2B	2.157	2.385	2.434	2.517	0.083
No.4	0.112	40	UNC	2.844	0.635	3B	2.157	2.385	2.434	2.494	0.060
No.4	0.112	48	UNF	2.844	0.529	2B	2.271	2.458	2.502	2.580	0.078
No.4	0.112	48	UNF	2.844	0.529	3B	2.271	2.458	2.502	2.560	0.058
No.5	0.125	40	UNC	3.175	0.635	2B	2.487	2.697	2.764	2.847	0.083
No.5	0.125	40	UNC	3.175	0.635	3B	2.487	2.697	2.764	2.827	0.063
No.5	0.125	44	UNF	3.175	0.577	2B	2.551	2.740	2.800	2.880	0.080
No.5	0.125	44	UNF	3.175	0.577	3B	2.551	2.740	2.800	2.860	0.060
No.6	0.138	32	UNC	3.505	0.794	2B	2.642	2.895	2.990	3.083	0.093
No.6	0.138	32	UNC	3.505	0.794	3B	2.642	2.895	2.990	3.058	0.068
No.6	0.138	40	UNF	3.505	0.635	2B	2.820	3.022	3.094	3.180	0.086
No.6	0.138	40	UNF	3.505	0.635	3B	2.820	3.012	3.094	3.157	0.063
No.8	0.164	32	UNC	4.165	0.794	2B	3.302	3.530	3.650	3.746	0.096
No.8	0.164	32	UNC	4.165	0.794	3B	3.302	3.528	3.650	3.721	0.071
No.8	0.164	36	UNF	4.165	0.706	2B	3.404	3.606	3.709	3.799	0.090
No.8	0.164	36	UNF	4.165	0.706	3B	3.404	3.596	3.709	3.776	0.067
No.10	0.190	24	UNC	4.826	1.058	2B	3.683	3.962	4.138	4.246	0.108
No.10	0.190	24	UNC	4.826	1.058	3B	3.683	3.949	4.138	4.218	0.080
No.10	0.190	32	UNF	4.826	0.794	2B	3.963	4.165	4.311	4.409	0.098
No.10	0.190	32	UNF	4.826	0.794	3B	3.963	4.165	4.311	4.384	0.073
No.12	0.216	24	UNC	5.486	1.058	2B	4.344	4.597	4.799	4.909	0.110
No.12	0.216	24	UNC	5.486	1.058	3B	4.344	4.589	4.799	4.881	0.082
No.12	0.216	28	UNF	5.486	0.907	2B	4.496	4.724	4.898	5.003	0.105
No.12	0.216	28	UNF	5.486	0.907	3B	4.496	4.716	4.898	4.975	0.077
No.12	0.216	32	UNEF	5.486	0.794	2B	4.623	4.826	4.971	5.074	0.103
No.12	0.216	32	UNEF	5.486	0.794	3B	4.623	4.813	4.971	5.049	0.078
1/4	0.250	20	UNC	6.350	1.270	1B	4.979	5.257	5.525	5.709	0.184
1/4	0.250	20	UNC	6.350	1.270	2B	4.979	5.257	5.525	5.648	0.123
1/4	0.250	20	UNC	6.350	1.270	3B	4.979	5.250	5.525	5.615	0.090
1/4	0.250	28	UNF	6.350	0.907	1B	5.360	5.588	5.761	5.925	0.164
1/4	0.250	28	UNF	6.350	0.907	2B	5.360	5.588	5.761	5.869	0.108
1/4	0.250	28	UNF	6.350	0.907	3B	5.360	5.562	5.761	5.842	0.081
1/4	0.250	32	UNEF	6.350	0.794	2B	5.487	5.689	5.835	5.941	0.106
1/4	0.250	32	UNEF	6.350	0.794	3B	5.487	5.661	5.835	5.913	0.078
5/16	0.3125	18	UNC	7.937	1.411	1B	6.401	6.731	7.021	7.221	0.200
5/16	0.3125	18	UNC	7.937	1.411	2B	6.401	6.731	7.021	7.155	0.134
5/16	0.3125	18	UNC	7.937	1.411	3B	6.401	6.680	7.021	7.119	0.098
5/16	0.3125	20	UN	7.937	1.270	2B	6.554	6.858	7.112	7.244	0.132
5/16	0.3125	20	UN	7.937	1.270	3B	6.554	6.807	7.112	7.211	0.099
5/16	0.3125	24	UNF	7.937	1.058	1B	6.782	7.035	7.250	7.429	0.179
5/16	0.3125	24	UNF	7.937	1.058	2B	6.782	7.035	7.250	7.371	0.121
5/16	0.3125	24	UNF	7.937	1.058	3B	6.782	6.995	7.250	7.340	0.090
5/16	0.3125	28	UN	7.937	0.907	2B	6.960	7.162	7.349	7.459	0.110
5/16	0.3125	28	UN	7.937	0.907	3B	6.960	7.129	7.349	7.432	0.083

Size	Major dia (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
5/16	0.3125	32	UNEF	7.937	0.794	3B	7.087	7.231	7.422	7.500	0.078
3/8	0.375	16	UNC	9.525	1.588	1B	7.798	8.153	8.494	8.709	0.215
3/8	0.375	16	UNC	9.525	1.588	2B	7.798	8.153	8.494	8.638	0.144
3/8	0.375	16	UNC	9.525	1.588	3B	7.798	8.082	8.494	8.602	0.108
3/8	0.375	20	UN	9.525	1.270	2B	8.154	8.432	8.700	8.836	0.136
3/8	0.375	20	UN	9.525	1.270	3B	8.154	8.374	8.700	8.801	0.101
3/8	0.375	24	UNF	9.525	1.058	1B	8.382	8.636	8.837	9.024	0.187
3/8	0.375	24	UNF	9.525	1.058	2B	8.382	8.636	8.837	8.961	0.124
3/8	0.375	24	UNF	9.525	1.058	3B	8.382	8.564	8.837	8.930	0.093
3/8	0.375	28	UN	9.525	0.907	2B	8.535	8.763	8.936	9.052	0.116
3/8	0.375	28	UN	9.525	0.907	3B	8.535	8.702	8.936	9.024	0.088
3/8	0.375	32	UNEF	9.525	0.794	2B	8.662	8.864	9.010	9.121	0.111
3/8	0.375	32	UNEF	9.525	0.794	3B	8.662	8.811	9.010	9.093	0.083
7/16	0.4375	14	UNC	11.112	1.814	1B	9.144	9.550	9.934	10.167	0.233
7/16	0.4375	14	UNC	11.112	1.814	2B	9.144	9.550	9.934	10.088	0.154
7/16	0.4375	14	UNC	11.112	1.814	3B	9.144	9.441	9.934	10.050	0.116
7/16	0.4375	16	UN	11.112	1.588	2B	9.398	9.753	10.082	10.231	0.149
7/16	0.4375	16	UN	11.112	1.588	3B	9.398	9.652	10.082	10.195	0.113
7/16	0.4375	20	UNF	11.112	1.270	1B	9.729	10.033	10.287	10.492	0.205
7/16	0.4375	20	UNF	11.112	1.270	2B	9.729	10.033	10.287	10.424	0.137
7/16	0.4375	20	UNF	11.112	1.270	3B	9.729	9.946	10.287	10.391	0.104
7/16	0.4375	28	UNEF	11.112	0.907	2B	10.135	10.337	10.524	10.640	0.116
7/16	0.4375	28	UNEF	11.112	0.907	3B	10.135	10.289	10.524	10.612	0.088
7/16	0.4375	32	UN	11.112	0.794	2B	10.262	10.439	10.597	10.708	0.111
7/16	0.4375	32	UN	11.112	0.794	3B	10.262	10.398	10.597	10.680	0.083
1/2	0.500	13	UNC	12.700	1.954	1B	10.592	11.023	11.430	11.676	0.246
1/2	0.500	13	UNC	12.700	1.954	2B	10.592	11.023	11.430	11.595	0.165
1/2	0.500	13	UNC	12.700	1.954	3B	10.592	10.881	11.430	11.551	0.121
1/2	0.500	16	UN	12.700	1.588	2B	10.973	11.328	11.669	11.823	0.154
1/2	0.500	16	UN	12.700	1.588	3B	10.973	11.224	11.669	11.785	0.116
1/2	0.500	20	UNF	12.700	1.270	1B	11.329	11.607	11.875	12.087	0.212
1/2	0.500	20	UNF	12.700	1.270	2B	11.329	11.607	11.875	12.016	0.141
1/2	0.500	20	UNF	12.700	1.270	3B	11.329	11.523	11.875	11.981	0.106
1/2	0.500	28	UNEF	12.700	0.907	2B	11.710	11.938	12.111	12.232	0.121
1/2	0.500	28	UNEF	12.700	0.907	3B	11.710	11.877	12.111	12.202	0.091
1/2	0.500	32	UN	12.700	0.794	2B	11.837	12.039	12.185	12.298	0.113
1/2	0.500	32	UN	12.700	0.794	3B	11.837	11.986	12.185	12.270	0.085
9/16	0.5625	12	UNC	14.287	2.117	1B	11.989	12.446	12.914	13.172	0.258
9/16	0.5625	12	UNC	14.287	2.117	2B	11.989	12.446	12.914	13.086	0.172
9/16	0.5625	12	UNC	14.287	2.117	3B	11.989	12.301	12.914	13.042	0.128
9/16	0.5625	16	UN	14.287	1.588	2B	12.573	12.928	13.257	13.411	0.154
9/16	0.5625	16	UN	14.287	1.588	3B	12.537	12.801	13.257	13.373	0.116
9/16	0.5625	18	UNF	14.287	1.411	1B	12.751	13.081	13.371	13.596	0.225
9/16	0.5625	18	UNF	14.287	1.411	2B	12.751	13.081	13.371	13.520	0.149
9/16	0.5625	18	UNF	14.287	1.411	3B	12.751	12.969	13.371	13.482	0.111
9/16	0.5625	20	UN	14.287	1.270	2B	12.904	13.208	13.462	13.601	0.139
9/16	0.5625	20	UN	14.287	1.270	3B	12.904	13.111	13.462	13.566	0.104
9/16	0.5625	24	UNEF	14.287	1.058	2B	13.132	13.385	13.600	13.728	0.128
9/16	0.5625	24	UNEF	14.287	1.058	3B	13.132	13.319	13.600	13.695	0.095
9/16	0.5625	28	UN	14.287	0.907	2B	13.310	13.512	13.699	13.820	0.121
9/16	0.5625	28	UN	14.287	0.907	3B	13.310	13.464	13.699	13.789	0.090
9/16	0.5625	32	UN	14.287	0.794	2B	13.437	13.614	13.772	13.886	0.114
9/16	0.5625	32	UN	14.287	0.794	3B	13.437	13.573	13.772	13.858	0.086
5/8	0.625	11	UNC	15.857	2.309	1B	13.386	13.868	14.377	14.648	0.271
5/8	0.625	11	UNC	15.857	2.309	2B	13.386	13.868	14.377	14.559	0.182
5/8	0.625	11	UNC	15.857	2.309	3B	13.386	13.693	14.377	14.513	0.136
5/8	0.625	12	UN	15.875	2.117	2B	13.589	14.046	14.501	14.681	0.180
5/8	0.625	12	UN	15.875	2.117	3B	13.589	13.876	14.501	14.635	0.134
5/8	0.625	16	UN	15.875	1.588	2B	14.148	14.503	14.844	15.001	0.157
5/8	0.625	16	UN	15.875	1.588	3B	14.148	14.381	14.844	14.960	0.116
5/8	0.625	18	UNF	15.875	1.411	1B	14.351	14.681	14.959	15.189	0.230

Size	Major dia (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
5/8	0.625	18	UNF	15.875	1.411	2B	14.351	14.681	14.959	15.110	0.151
5/8	0.625	18	UNF	15.875	1.411	3B	14.351	14.554	14.959	15.072	0.113
5/8	0.625	20	UN	15.875	1.270	2B	14.504	14.782	15.050	15.191	0.141
5/8	0.625	20	UN	15.875	1.270	3B	14.504	14.698	15.050	15.156	0.106
5/8	0.625	24	UNEF	15.875	1.058	2B	14.732	14.986	15.187	15.318	0.131
5/8	0.625	24	UNEF	15.875	1.058	3B	14.732	14.907	15.187	15.285	0.098
5/8	0.625	28	UN	15.875	0.907	2B	14.885	15.113	15.286	15.410	0.124
5/8	0.625	28	UN	15.875	0.907	3B	14.885	15.052	15.286	15.379	0.093
5/8	0.625	32	UN	15.875	0.794	2B	15.012	15.214	15.360	15.476	0.116
5/8	0.625	32	UN	15.875	0.794	3B	15.012	15.161	15.360	15.448	0.088
11/16	0.6875	12	UN	17.462	2.117	2B	15.164	15.621	16.089	16.268	0.179
11/16	0.6875	12	UN	17.462	2.117	3B	15.164	15.455	16.089	16.222	0.133
11/16	0.6875	16	UN	17.462	1.588	2B	15.748	16.103	16.432	16.588	0.156
11/16	0.6875	16	UN	17.462	1.588	3B	15.748	15.961	16.432	16.548	0.116
11/16	0.6875	20	UN	17.462	1.270	2B	16.079	16.387	16.637	16.779	0.142
11/16	0.6875	20	UN	17.462	1.270	3B	16.079	16.286	16.637	16.743	0.106
11/16	0.6875	24	UNEF	17.462	1.058	2B	16.307	16.560	16.775	16.906	0.131
11/16	0.6875	24	UNEF	17.462	1.058	3B	16.307	16.494	16.775	16.873	0.098
11/16	0.6875	28	UN	17.462	0.907	2B	16.485	16.687	16.874	16.997	0.123
11/16	0.6875	28	UN	17.462	0.907	3B	16.485	16.639	16.874	16.967	0.093
11/16	0.6875	32	UN	17.462	0.794	2B	16.612	16.789	16.947	17.063	0.116
11/16	0.6875	32	UN	17.462	0.794	3B	16.612	16.748	16.947	17.035	0.088
3/4	0.750	10	UNC	19.050	2.540	1B	16.307	16.840	17.399	17.691	0.292
3/4	0.750	10	UNC	19.050	2.540	2B	16.307	16.840	17.399	17.594	0.195
3/4	0.750	10	UNC	19.050	2.540	3B	16.307	16.624	17.399	17.543	0.144
3/4	0.750	12	UN	19.050	2.117	2B	16.764	17.221	17.676	17.858	0.182
3/4	0.750	12	UN	19.050	2.117	3B	16.764	17.035	17.676	17.813	0.137
3/4	0.750	16	UNF	19.050	1.588	1B	17.323	17.678	18.019	18.267	0.248
3/4	0.750	16	UNF	19.050	1.588	2B	17.323	17.678	18.019	18.183	0.164
3/4	0.750	16	UNF	19.050	1.588	3B	17.323	17.546	18.019	18.143	0.124
3/4	0.750	20	UNEF	19.050	1.270	2B	17.679	17.957	18.225	18.369	0.144
3/4	0.750	20	UNEF	19.050	1.270	3B	17.679	17.873	18.225	18.333	0.108
3/4	0.750	28	UN	19.050	0.907	2B	18.060	18.288	18.461	18.587	0.126
3/4	0.750	28	UN	19.050	0.907	3B	18.060	18.227	18.461	18.554	0.093
3/4	0.750	32	UN	19.050	0.794	2B	18.187	18.389	18.535	18.653	0.118
3/4	0.750	32	UN	19.050	0.794	3B	18.187	18.336	18.535	18.625	0.090
13/16	0.8125	12	UN	20.637	2.117	2B	18.339	18.796	19.264	19.446	0.182
13/16	0.8125	12	UN	20.637	2.117	3B	18.339	18.615	19.264	19.400	0.136
13/16	0.8125	16	UN	20.637	1.588	2B	18.923	19.278	19.607	19.766	0.159
13/16	0.8125	16	UN	20.637	1.588	3B	18.923	19.133	19.607	19.725	0.118
13/16	0.8125	20	UNEF	20.637	1.270	2B	19.254	19.588	19.812	19.956	0.144
13/16	0.8125	20	UNEF	20.637	1.270	3B	19.254	19.461	19.812	19.921	0.109
13/16	0.8125	28	UN	20.637	0.907	2B	19.660	19.862	20.049	20.175	0.126
13/16	0.8125	28	UN	20.637	0.907	3B	19.660	19.814	20.049	20.142	0.093
13/16	0.8125	32	UN	20.637	0.794	2B	19.787	19.964	20.122	20.241	0.119
13/16	0.8125	32	UN	20.637	0.794	3B	19.787	19.923	20.122	20.213	0.091
7/8	0.875	9	UNC	22.225	2.822	1B	19.177	19.761	20.392	20.703	0.311
7/8	0.875	9	UNC	22.225	2.822	2B	19.177	19.761	20.392	20.599	0.207
7/8	0.875	9	UNC	22.225	2.822	3B	19.177	19.509	20.392	20.546	0.154
7/8	0.875	12	UN	22.225	2.117	2B	19.939	20.396	20.851	21.033	0.182
7/8	0.875	12	UN	22.225	2.117	3B	19.939	20.187	20.851	20.988	0.137
7/8	0.875	14	UNF	22.225	1.814	1B	20.270	20.675	21.047	21.315	0.268
7/8	0.875	14	UNF	22.225	1.814	2B	20.270	20.675	21.047	21.224	0.177
7/8	0.875	14	UNF	22.225	1.814	3B	20.270	20.492	21.047	21.181	0.134
7/8	0.875	16	UN	22.225	1.588	2B	20.498	20.853	21.194	21.353	0.159
7/8	0.875	16	UN	22.225	1.588	3B	20.498	20.721	21.194	21.313	0.119
7/8	0.875	20	UNEF	22.225	1.270	2B	20.854	21.132	21.400	21.544	0.144
7/8	0.875	20	UNEF	22.225	1.270	3B	20.854	21.048	21.400	21.508	0.108
7/8	0.875	28	UN	22.225	0.907	2B	21.235	21.463	21.636	21.762	0.126
7/8	0.875	28	UN	22.225	0.907	3B	21.235	21.402	21.636	21.729	0.093
7/8	0.875	32	UN	22.225	0.794	2B	21.362	21.564	21.710	21.828	0.118

Size	Major dia (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
7/8	0.875	32	UN	22.225	0.794	3B	21.362	21.511	21.710	21.800	0.090
15/16	0.9375	12	UN	23.812	2.117	2B	21.514	21.971	22.439	22.626	0.187
15/16	0.9375	12	UN	23.812	2.117	3B	21.514	21.780	22.439	22.578	0.139
15/16	0.9375	16	UN	23.812	1.588	2B	22.098	22.453	22.782	22.946	0.164
15/16	0.9375	16	UN	23.812	1.588	3B	22.098	22.308	22.782	22.905	0.123
15/16	0.9375	20	UNEF	23.812	1.270	2B	22.429	22.733	22.987	23.136	0.149
15/16	0.9375	20	UNEF	23.812	1.270	3B	22.429	22.636	22.987	23.098	0.111
15/16	0.9375	28	UN	23.812	0.907	2B	22.835	23.037	23.224	23.355	0.131
15/16	0.9375	28	UN	23.812	0.907	3B	22.835	22.989	23.224	23.322	0.098
15/16	0.9375	32	UN	23.812	0.794	2B	22.962	23.139	23.297	23.421	0.124
15/16	0.9375	32	UN	23.812	0.794	3B	22.962	23.098	23.297	23.390	0.093
1	1.000	8	UNC	25.400	3.175	1B	21.971	22.606	23.338	23.672	0.334
1	1.000	8	UNC	25.400	3.175	2B	21.971	22.606	23.338	23.561	0.223
1	1.000	8	UNC	25.400	3.175	3B	21.971	22.344	23.338	23.505	0.167
1	1.000	12	UNF	25.400	2.117	1B	23.114	23.571	24.026	24.315	0.289
1	1.000	12	UNF	25.400	2.117	2B	23.114	23.571	24.026	24.218	0.192
1	1.000	12	UNF	25.400	2.117	3B	23.114	23.362	24.026	24.170	0.144
1	1.000	16	UN	25.400	1.588	2B	23.673	24.028	24.369	24.533	0.164
1	1.000	16	UN	25.400	1.588	3B	23.673	23.896	24.369	24.493	0.124
1	1.000	20	UNEF	25.400	1.270	2B	24.029	24.307	24.575	24.724	0.149
1	1.000	20	UNEF	25.400	1.270	3B	24.029	24.223	24.575	24.686	0.111
1	1.000	28	UN	25.400	0.907	2B	24.410	24.638	24.811	24.942	0.131
1	1.000	28	UN	25.400	0.907	3B	24.410	24.577	24.811	24.909	0.098
1	1.000	32	UN	25.400	0.794	2B	24.537	24.739	24.885	25.008	0.123
1	1.000	32	UN	25.400	0.794	3B	24.537	24.686	24.885	24.978	0.093
1 1/16	1.0625	8	UN	26.987	3.175	2B	23.546	24.180	24.926	25.151	0.225
1 1/16	1.0625	8	UN	26.987	3.175	3B	23.546	23.931	24.926	25.095	0.169
1 1/16	1.0625	12	UN	26.987	2.117	2B	24.689	25.146	25.614	25.801	0.187
1 1/16	1.0625	12	UN	26.987	2.117	3B	24.689	24.950	25.614	25.753	0.139
1 1/16	1.0625	16	UN	26.987	1.588	2B	25.273	25.628	25.957	26.121	0.164
1 1/16	1.0625	16	UN	26.749	1.588	3B	25.723	25.483	25.957	26.080	0.123
1 1/16	1.0625	18	UNEF	26.987	1.411	2B	25.451	25.781	26.071	26.228	0.157
1 1/16	1.0625	18	UNEF	26.987	1.411	3B	25.451	25.666	26.071	26.187	0.116
1 1/16	1.0625	20	UN	26.987	1.270	2B	25.604	25.908	26.162	26.311	0.149
1 1/16	1.0625	20	UN	26.987	1.270	3B	25.604	25.811	26.162	26.273	0.111
1 1/16	1.0625	28	UN	26.987	0.907	2B	26.010	26.212	26.399	26.530	0.131
1 1/16	1.0625	28	UN	26.987	0.907	3B	26.010	26.164	26.399	26.497	0.098
1 1/8	1.125	7	UNC	28.575	3.629	1B	24.638	25.349	26.218	26.576	0.358
1 1/8	1.125	7	UNC	28.575	3.629	2B	24.638	25.349	26.218	26.456	0.238
1 1/8	1.125	7	UNC	28.575	3.629	3B	24.638	25.082	26.218	26.398	0.180
1 1/8	1.125	8	UN	28.575	3.175	2B	25.146	25.781	26.513	26.741	0.228
1 1/8	1.125	8	UN	28.575	3.175	3B	25.146	25.519	26.513	26.682	0.169
1 1/8	1.125	12	UNF	28.575	2.117	1B	26.289	26.746	27.201	27.498	0.297
1 1/8	1.125	12	UNF	28.575	2.117	2B	26.289	26.746	27.201	27.398	0.197
1 1/8	1.125	12	UNF	28.575	2.117	3B	26.289	26.537	27.201	27.350	0.149
1 1/8	1.125	16	UN	28.575	1.588	2B	26.848	27.203	27.544	27.708	0.164
1 1/8	1.125	16	UN	28.575	1.588	3B	26.848	27.071	27.544	27.668	0.124
1 1/8	1.125	18	UNEF	28.575	1.411	2B	27.051	27.381	27.659	27.815	0.156
1 1/8	1.125	18	UNEF	28.575	1.411	3B	27.051	27.254	27.659	27.774	0.115
1 1/8	1.125	20	UN	28.575	1.270	2B	27.204	27.482	27.750	27.899	0.149
1 1/8	1.125	20	UN	28.575	1.270	3B	27.204	27.398	27.750	27.861	0.111
1 1/8	1.125	28	UN	28.575	0.907	2B	27.585	27.813	27.986	28.117	0.131
1 1/8	1.125	28	UN	28.575	0.907	3B	27.585	27.752	27.986	28.084	0.098
1 3/16	1.1875	8	UN	30.162	3.175	2B	26.721	27.355	28.101	28.331	0.230
1 3/16	1.1875	8	UN	30.162	3.175	3B	26.721	27.106	28.101	28.272	0.171
1 3/16	1.1875	12	UN	30.162	2.117	2B	27.864	28.321	28.789	28.978	0.189
1 3/16	1.1875	12	UN	30.162	2.117	3B	27.864	28.125	28.789	28.930	0.141
1 3/16	1.1875	16	UN	30.162	1.588	2B	28.448	28.808	29.132	29.298	0.166
1 3/16	1.1875	16	UN	30.162	1.588	3B	28.448	28.658	29.132	29.258	0.126
1 3/16	1.1875	18	UNEF	30.162	1.411	2B	28.626	28.956	29.246	29.405	0.159
1 3/16	1.1875	18	UNEF	30.162	1.411	3B	28.626	28.841	29.246	29.364	0.118

Size	Major dia (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
1 3/16	1.1875	20	UN	30.162	1.270	2B	28.779	29.083	29.337	29.491	0.154
1 3/16	1.1875	20	UN	30.162	1.270	3B	28.779	28.986	29.337	29.451	0.114
1 3/16	1.1875	28	UN	30.162	0.907	2B	29.185	29.387	29.574	29.707	0.133
1 3/16	1.1875	28	UN	30.162	0.907	3B	29.185	29.339	29.574	29.674	0.100
1 1/4	1.250	7	UNC	31.750	3.629	1B	27.813	28.524	29.393	29.758	0.365
1 1/4	1.250	7	UNC	31.750	3.629	2B	27.813	28.524	29.393	29.636	0.243
1 1/4	1.250	7	UNC	31.750	3.629	3B	27.813	28.257	29.393	29.575	0.182
1 1/4	1.250	8	UN	31.750	3.175	2B	28.321	28.956	29.688	29.921	0.233
1 1/4	1.250	8	UN	31.750	3.175	3B	28.321	28.694	29.688	29.862	0.174
1 1/4	1.250	12	UNF	31.750	2.117	1B	29.464	29.921	30.376	30.680	0.304
1 1/4	1.250	12	UNF	31.750	2.117	2B	29.464	29.921	30.376	30.579	0.203
1 1/4	1.250	12	UNF	31.750	2.117	3B	29.464	29.712	30.376	30.528	0.152
1 1/4	1.250	16	UN	31.750	1.588	2B	30.023	30.378	30.719	30.886	0.167
1 1/4	1.250	16	UN	31.750	1.588	3B	30.023	30.246	30.719	30.845	0.126
1 1/4	1.250	18	UNEF	31.750	1.411	2B	30.226	30.556	30.834	30.993	0.159
1 1/4	1.250	18	UNEF	31.750	1.411	3B	30.226	30.429	30.834	30.952	0.118
1 1/4	1.250	20	UN	31.750	1.270	2B	30.379	30.657	30.925	31.079	0.154
1 1/4	1.250	20	UN	31.750	1.270	3B	30.379	30.573	30.925	31.038	0.113
1 1/4	1.250	28	UN	31.750	0.907	2B	30.760	30.988	31.161	31.295	0.134
1 1/4	1.250	28	UN	31.750	0.907	3B	30.760	30.927	31.161	31.262	0.101
1 5/18	1.3125	8	UN	33.337	3.175	2B	29.896	30.530	31.276	31.508	0.232
1 5/18	1.3125	8	UN	33.337	3.175	3B	29.896	30.281	31.276	31.450	0.174
1 5/16	1.3125	12	UN	33.337	2.117	2B	31.039	31.496	31.964	32.153	0.189
1 5/16	1.3125	12	UN	33.337	2.117	3B	31.039	31.300	31.964	32.105	0.141
1 5/16	1.3125	16	UN	33.337	1.588	2B	31.623	31.978	32.307	32.473	0.166
1 5/16	1.3125	16	UN	33.337	1.588	3B	31.623	31.833	32.307	32.433	0.126
1 5/16	1.3125	18	UNEF	33.337	1.411	2B	31.801	32.131	32.421	32.580	0.159
1 5/16	1.3125	18	UNEF	33.337	1.411	3B	31.801	32.016	32.421	32.539	0.118
1 5/16	1.3125	20	UN	33.337	1.270	2B	31.954	32.258	32.512	32.666	0.154
1 5/16	1.3125	20	UN	33.337	1.270	3B	31.954	32.161	32.512	32.626	0.114
1 5/16	1.3125	28	UN	33.337	0.907	2B	32.360	32.562	32.749	32.882	0.133
1 5/16	1.3125	28	UN	33.337	0.907	3B	32.360	32.514	32.749	32.849	0.100
1 3/8	1.375	6	UNC	34.925	4.233	1B	30.353	31.115	32.175	32.567	0.392
1 3/8	1.375	6	UNC	34.925	4.233	2B	30.353	31.115	32.175	32.438	0.263
1 3/8	1.375	6	UNC	34.925	4.233	3B	30.353	30.850	32.175	32.372	0.197
1 3/8	1.375	8	UN	34.925	3.175	2B	31.496	32.131	32.863	33.098	0.235
1 3/8	1.375	8	UN	34.925	3.175	3B	31.496	31.869	32.863	33.040	0.177
1 3/8	1.375	12	UNF	34.925	2.117	1B	32.639	33.096	33.551	33.863	0.312
1 3/8	1.375	12	UNF	34.925	2.117	2B	32.639	33.096	33.551	33.759	0.208
1 3/8	1.375	12	UNF	34.925	2.117	3B	32.639	32.887	33.551	33.705	0.154
1 3/8	1.375	16	UN	34.925	1.588	2B	33.198	33.553	33.894	34.061	0.167
1 3/8	1.375	16	UN	34.925	1.588	3B	33.198	33.421	33.894	34.020	0.126
1 3/8	1.375	18	UNEF	34.925	1.411	2B	33.401	33.731	34.009	34.168	0.159
1 3/8	1.375	18	UNEF	34.925	1.411	3B	33.401	33.604	34.009	34.127	0.118
1 3/8	1.375	20	UN	34.925	1.270	2B	33.554	33.832	34.100	34.254	0.154
1 3/8	1.375	20	UN	34.925	1.270	3B	33.554	33.748	34.100	34.213	0.113
1 3/8	1.375	28	UN	34.925	0.907	2B	33.935	34.163	34.336	34.470	0.134
1 3/8	1.375	28	UN	34.925	0.907	3B	33.935	34.102	34.336	34.437	0.101
1 7/16	1.4375	6	UN	36.512	4.233	2B	31.928	32.715	33.762	34.025	0.263
1 7/16	1.4375	6	UN	36.512	4.233	3B	31.928	32.438	33.762	33.959	0.197
1 7/16	1.4375	8	UN	36.512	3.175	2B	33.071	33.705	34.451	34.688	0.237
1 7/16	1.4375	8	UN	36.512	3.175	3B	33.071	33.456	34.451	34.630	0.179
1 7/16	1.4375	12	UN	36.512	2.117	2B	34.214	34.671	35.139	35.331	0.192
1 7/16	1.4375	12	UN	36.512	2.117	3B	34.214	34.475	35.139	35.283	0.144
1 7/16	1.4375	16	UN	36.512	1.588	2B	34.798	35.153	35.482	35.653	0.171
1 7/16	1.4375	16	UN	36.512	1.588	3B	34.798	35.008	35.482	35.610	0.128
1 7/16	1.4375	18	UNEF	36.512	1.411	2B	34.976	35.306	35.596	35.760	0.164
1 7/16	1.4375	18	UNEF	36.512	1.411	3B	34.976	35.191	35.596	35.717	0.121
1 7/16	1.4375	20	UN	36.512	1.270	2B	35.129	35.433	35.687	35.844	0.157
1 7/16	1.4375	20	UN	36.512	1.270	3B	35.129	35.336	35.687	35.803	0.116
1 7/16	1.4375	28	UN	36.512	0.907	2B	35.535	35.737	35.924	36.062	0.138

Size	Major dia (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
1 7/16	1.4375	28	UN	36.512	0.907	3B	35.535	35.689	35.924	36.027	0.103
1 1/2	1.500	6	UNC	38.100	4.233	1B	33.528	34.290	35.350	35.750	0.400
1 1/2	1.500	6	UNC	38.100	4.233	2B	33.528	34.290	35.350	35.615	0.265
1 1/2	1.500	6	UNC	38.100	4.233	3B	33.528	34.025	35.350	35.549	0.199
1 1/2	1.500	8	UN	38.100	3.175	2B	34.671	35.306	36.038	36.278	0.240
1 1/2	1.500	8	UN	38.100	3.175	3B	34.671	35.044	36.038	36.217	0.179
1 1/2	1.500	12	UNF	38.100	2.117	1B	35.814	36.271	36.726	37.043	0.317
1 1/2	1.500	12	UNF	38.100	2.117	2B	35.814	36.271	36.726	36.936	0.210
1 1/2	1.500	12	UNF	38.100	2.117	3B	35.814	36.062	36.726	36.885	0.159
1 1/2	1.500	16	UN	38.100	1.588	2B	36.373	36.728	37.069	37.241	0.172
1 1/2	1.500	16	UN	38.100	1.588	3B	36.373	36.596	37.069	37.198	0.129
1 1/2	1.500	18	UNEF	38.100	1.411	2B	36.576	36.880	37.184	37.348	0.164
1 1/2	1.500	18	UNEF	38.100	1.411	3B	36.576	36.779	37.184	37.304	0.120
1 1/2	1.500	20	UN	38.100	1.270	2B	36.729	37.007	37.275	37.431	0.156
1 1/2	1.500	20	UN	38.100	1.270	3B	36.729	36.923	37.275	37.391	0.116
1 1/2	1.500	28	UN	38.100	0.907	2B	37.100	37.338	37.511	37.650	0.139
1 1/2	1.500	28	UN	38.100	0.907	3B	37.100	37.277	37.511	37.614	0.103
1 9/16	1.5625	6	UN	39.687	4.233	2B	35.103	35.890	36.937	37.205	0.268
1 9/16	1.5625	6	UN	39.687	4.233	3B	35.103	35.613	36.937	37.139	0.202
1 9/16	1.5625	8	UN	39.687	3.175	2B	36.246	36.880	37.626	37.868	0.242
1 9/16	1.5625	8	UN	39.687	3.175	3B	36.246	36.631	37.626	37.807	0.181
1 9/16	1.5625	12	UN	39.687	2.117	2B	37.389	37.846	38.314	38.506	0.192
1 9/16	1.5625	12	UN	39.687	2.117	3B	37.389	37.650	38.314	38.458	0.144
1 9/16	1.5625	16	UN	39.687	1.588	2B	37.973	38.328	38.657	38.828	0.171
1 9/16	1.5625	16	UN	39.687	1.588	3B	37.973	38.183	38.657	38.785	0.128
1 9/16	1.5625	18	UNEF	39.687	1.411	2B	38.151	38.481	38.771	38.935	0.164
1 9/16	1.5625	18	UNEF	39.687	1.411	3B	38.151	38.366	38.771	38.892	0.121
1 9/16	1.5625	20	UN	39.687	1.270	2B	38.304	38.608	38.862	39.019	0.157
1 9/16	1.5625	20	UN	39.687	1.270	3B	38.304	38.511	38.862	38.979	0.117
1 5/8	1.625	6	UN	41.275	4.233	2B	36.703	37.465	38.525	38.795	0.270
1 5/8	1.625	6	UN	41.275	4.233	3B	36.703	37.200	38.525	38.727	0.202
1 5/8	1.625	8	UN	41.275	3.175	2B	37.846	38.481	39.213	39.458	0.245
1 5/8	1.625	8	UN	41.275	3.175	3B	37.846	38.219	39.213	39.395	0.182
1 5/8	1.625	12	UN	41.275	2.117	2B	38.989	39.446	39.901	40.093	0.192
1 5/8	1.625	12	UN	41.275	2.117	3B	38.989	39.237	39.901	40.045	0.144
1 5/8	1.588	16	UN	41.275	1.588	2B	39.548	39.903	40.244	40.416	0.172
1 5/8	1.588	16	UN	41.275	1.588	3B	39.548	39.771	40.244	40.373	0.129
1 5/8	1.625	18	UNEF	41.275	1.411	2B	39.751	40.081	40.359	40.523	0.164
1 5/8	1.625	18	UNEF	41.275	1.411	3B	39.751	39.954	40.359	40.479	0.120
1 5/8	1.625	20	UN	41.275	1.270	2B	39.904	40.182	40.450	40.606	0.156
1 5/8	1.625	20	UN	41.275	1.270	3B	39.904	40.098	40.450	40.566	0.116
1 11/16	1.6875	6	UN	42.862	4.233	2B	38.278	39.065	40.112	40.386	0.274
1 11/16	1.6875	6	UN	42.862	4.233	3B	38.278	38.788	40.112	40.317	0.205
1 11/16	1.6875	8	UN	42.862	3.175	2B	39.421	40.055	40.801	41.046	0.245
1 11/16	1.6875	8	UN	42.862	3.175	3B	39.421	39.806	40.801	40.985	0.184
1 11/16	1.6875	12	UN	42.862	2.117	2B	40.564	41.021	41.489	41.686	0.197
1 11/16	1.6875	12	UN	42.862	2.117	3B	40.564	40.825	41.489	41.635	0.146
1 11/16	1.6875	16	UN	42.862	1.588	2B	41.148	41.503	41.832	42.006	0.174
1 11/16	1.6875	16	UN	42.862	1.588	3B	41.148	41.358	41.832	41.963	0.131
1 11/16	1.6875	18	UNEF	42.862	1.411	2B	41.326	41.656	41.946	42.113	0.167
1 11/16	1.6875	18	UNEF	42.862	1.411	3B	41.326	41.541	41.946	42.070	0.124
1 11/16	1.6875	20	UN	42.862	1.270	2B	41.479	41.783	42.037	42.197	0.160
1 11/16	1.6875	20	UN	42.862	1.270	3B	41.479	41.686	42.037	42.156	0.119
1 3/4	1.750	5	UNC	44.450	5.080	1B	38.964	39.827	41.151	41.592	0.441
1 3/4	1.750	5	UNC	44.450	5.080	2B	38.964	39.827	41.151	41.445	0.294
1 3/4	1.750	5	UNC	44.450	5.080	3B	38.964	39.560	41.151	41.371	0.220
1 3/4	1.750	6	UN	44.450	4.233	2B	39.878	40.640	41.700	41.973	0.273
1 3/4	1.750	6	UN	44.450	4.233	3B	39.878	40.375	41.700	41.904	0.204
1 3/4	1.750	8	UN	44.450	3.175	2B	41.021	41.656	42.388	42.636	0.248
1 3/4	1.750	8	UN	44.450	3.175	3B	41.021	41.394	42.388	42.575	0.187
1 3/4	1.750	12	UN	44.450	2.117	2B	42.164	42.621	43.076	43.273	0.197

Size	Major dia (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
1 3/4	1.750	12	UN	44.450	2.117	3B	42.164	42.412	43.076	43.223	0.147
1 3/4	1.750	16	UN	44.450	1.588	2B	42.723	43.078	43.419	43.594	0.175
1 3/4	1.750	16	UN	44.450	1.588	3B	42.723	42.946	43.419	43.550	0.131
1 3/4	1.750	20	UN	44.450	1.270	2B	43.079	43.357	43.625	43.784	0.159
1 3/4	1.750	20	UN	44.450	1.270	3B	43.079	43.273	43.625	43.743	0.118
1 13/16	1.8125	6	UN	46.037	4.233	2B	41.453	42.240	43.287	43.563	0.276
1 13/16	1.8125	6	UN	46.037	4.233	3B	41.453	41.963	43.287	43.494	0.207
1 13/16	1.8125	8	UN	46.037	3.175	2B	42.596	43.230	43.976	44.226	0.250
1 13/16	1.8125	8	UN	46.037	3.175	3B	42.596	42.981	43.976	44.162	0.186
1 13/16	1.8125	12	UN	46.037	2.117	2B	43.739	44.196	44.664	44.861	0.197
1 13/16	1.8125	12	UN	46.037	2.117	3B	43.739	44.000	44.664	44.810	0.146
1 13/16	1.8125	16	UN	46.037	1.588	2B	44.323	44.678	45.007	45.181	0.174
1 13/16	1.8125	16	UN	46.037	1.588	3B	44.323	44.533	45.007	45.138	0.131
1 13/16	1.8125	20	UN	46.037	1.270	2B	44.654	44.958	45.212	45.372	0.160
1 13/16	1.8125	20	UN	46.037	1.270	3B	44.654	44.861	45.212	45.331	0.119
1 7/8	1.875	6	UN	47.625	4.233	2B	43.053	43.815	44.875	45.153	0.278
1 7/8	1.875	6	UN	47.625	4.233	3B	43.053	43.550	44.875	45.082	0.207
1 7/8	1.875	8	UN	47.625	3.175	2B	44.196	44.831	45.563	45.816	0.253
1 7/8	1.875	8	UN	47.625	3.175	3B	44.196	44.569	45.563	45.753	0.190
1 7/8	1.875	12	UN	47.625	2.117	2B	45.339	45.796	46.251	46.448	0.197
1 7/8	1.875	12	UN	47.625	2.117	3B	45.339	45.587	46.251	46.398	0.147
1 7/8	1.875	16	UN	47.625	1.588	2B	45.898	46.253	46.594	46.769	0.175
1 7/8	1.875	16	UN	47.625	1.588	3B	45.898	46.121	46.594	46.725	0.131
1 7/8	1.875	20	UN	47.625	1.270	2B	46.254	46.532	46.800	46.959	0.159
1 7/8	1.875	20	UN	47.625	1.270	3B	46.254	46.448	46.800	46.918	0.118
1 15/16	1.9375	6	UN	49.212	4.233	2B	44.628	45.415	46.462	46.743	0.281
1 15/16	1.9375	6	UN	49.212	4.233	3B	44.628	45.138	46.462	46.672	0.210
1 15/16	1.9375	8	UN	49.212	3.175	2B	45.771	46.405	47.151	47.404	0.253
1 15/16	1.9375	8	UN	49.212	3.175	3B	45.771	46.156	47.151	47.340	0.189
1 15/16	1.9375	12	UN	49.212	2.117	2B	46.914	47.371	47.839	48.039	0.200
1 15/16	1.9375	12	UN	49.212	2.117	3B	46.914	47.175	47.839	47.988	0.149
1 15/16	1.9375	16	UN	49.212	1.588	2B	47.498	47.853	48.182	48.359	0.177
1 15/16	1.9375	16	UN	49.212	1.588	3B	47.498	47.708	48.182	48.313	0.131
1 15/16	1.9375	20	UN	49.212	1.270	2B	47.829	48.133	48.387	48.549	0.162
1 15/16	1.9375	20	UN	49.212	1.270	3B	47.829	48.036	48.387	48.508	0.121
2	2.000	4.5	UNC	50.800	5.644	1B	44.679	45.593	47.135	47.607	0.472
2	2.000	4.5	UNC	50.800	5.644	2B	44.679	45.593	47.135	47.449	0.314
2	2.000	4.5	UNC	50.800	5.644	3B	44.679	45.366	47.135	47.371	0.236
2	2.000	6	UN	50.800	4.233	2B	46.228	46.990	48.050	48.331	0.281
2	2.000	6	UN	50.800	4.233	3B	46.228	46.725	48.050	48.260	0.210
2	2.000	8	UN	50.800	3.175	2B	47.371	48.006	48.738	48.994	0.256
2	2.000	8	UN	50.800	3.175	3B	47.371	47.744	48.738	48.930	0.192
2	2.000	12	UN	50.800	2.117	2B	48.514	48.971	49.426	49.626	0.200
2	2.000	12	UN	50.800	2.117	3B	48.514	48.762	49.426	49.575	0.149
2	2.000	16	UN	50.800	1.588	2B	49.073	49.428	49.769	49.946	0.177
2	2.000	16	UN	50.800	1.588	3B	49.073	49.296	49.769	49.900	0.131
2	2.000	20	UN	50.800	1.270	2B	49.429	49.707	49.975	50.137	0.162
2	2.000	20	UN	50.800	1.270	3B	49.429	49.623	49.975	50.096	0.121
2 1/8	2.125	6	UN	53.975	4.233	2B	49.403	50.165	51.225	51.511	0.286
2 1/8	2.125	6	UN	53.975	4.233	3B	49.403	49.900	51.225	51.437	0.212
2 1/8	2.125	8	UN	53.975	3.175	2B	50.546	51.181	51.913	52.171	0.258
2 1/8	2.125	8	UN	53.975	3.175	3B	50.546	50.919	51.913	52.108	0.195
2 1/8	2.125	12	UN	53.975	2.117	2B	51.689	52.146	52.601	52.801	0.200
2 1/8	2.125	12	UN	53.975	2.117	3B	51.689	51.937	52.601	52.750	0.149
2 1/8	2.125	16	UN	53.975	1.588	2B	52.248	52.603	52.944	53.121	0.177
2 1/8	2.125	16	UN	53.975	1.588	3B	52.248	52.471	52.944	53.075	0.131
2 1/8	2.125	20	UN	53.975	1.270	2B	52.604	52.882	53.150	53.312	0.162
2 1/8	2.125	20	UN	53.975	1.270	3B	52.604	52.798	53.150	53.271	0.121
2 1/4	2.250	4.5	UNC	57.150	5.644	1B	51.029	51.943	53.485	53.967	0.482
2 1/4	2.250	4.5	UNC	57.150	5.644	2B	51.029	51.943	53.485	53.804	0.319
2 1/4	2.250	4.5	UNC	57.150	5.644	3B	51.029	51.716	53.485	53.726	0.241

Size	Major dia (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
2 1/4	2.250	6	UN	57.150	4.233	2B	52.578	53.340	54.400	54.688	0.288
2 1/4	2.250	6	UN	57.150	4.233	3B	52.578	53.075	54.400	54.615	0.215
2 1/4	2.250	8	UN	57.150	3.175	2B	53.721	54.356	55.088	55.351	0.263
2 1/4	2.250	8	UN	57.150	3.175	3B	53.721	54.094	55.088	55.285	0.197
2 1/4	2.250	12	UN	57.150	2.117	2B	54.864	55.321	55.776	55.976	0.200
2 1/4	2.250	12	UN	57.150	2.117	3B	54.864	55.112	55.776	55.925	0.149
2 1/4	2.250	16	UN	57.150	1.588	2B	55.423	55.778	56.119	56.296	0.177
2 1/4	2.250	16	UN	57.150	1.588	3B	55.423	55.646	56.119	56.250	0.131
2 1/4	1.270	20	UN	57.150	1.270	2B	55.779	56.057	56.325	56.487	0.162
2 1/4	1.270	20	UN	57.150	1.270	3B	55.779	55.973	56.325	56.446	0.121
2 3/8	2.375	6	UN	60.325	4.233	2B	55.753	56.540	57.575	57.866	0.291
2 3/8	2.375	6	UN	60.325	4.233	3B	55.753	56.250	57.575	57.792	0.217
2 3/8	2.375	8	UN	60.325	3.175	2B	56.896	57.531	58.263	58.529	0.266
2 3/8	2.375	8	UN	60.325	3.175	3B	56.896	57.269	58.263	58.463	0.200
2 3/8	2.375	12	UN	60.325	2.117	2B	58.039	58.496	58.951	59.156	0.205
2 3/8	2.375	12	UN	60.325	2.117	3B	58.039	58.287	58.951	59.103	0.152
2 3/8	2.375	16	UN	60.325	1.588	2B	58.598	58.953	59.294	59.476	0.182
2 3/8	2.375	16	UN	60.325	1.588	3B	58.598	58.821	59.294	59.430	0.136
2 3/8	2.375	20	UN	60.325	1.270	2B	58.954	59.232	59.500	59.667	0.167
2 3/8	2.375	20	UN	60.325	1.270	3B	58.954	59.148	59.500	59.626	0.126
2 1/2	2.500	4	UNC	63.500	6.350	1B	56.617	57.581	59.376	59.888	0.512
2 1/2	2.500	4	UNC	63.500	6.350	2B	56.617	57.581	59.376	59.717	0.341
2 1/2	2.500	4	UNC	63.500	6.350	3B	56.617	57.388	59.376	59.631	0.255
2 1/2	2.500	6	UN	63.500	4.233	2B	58.928	59.690	60.750	61.043	0.293
2 1/2	2.500	6	UN	63.500	4.233	3B	58.928	59.425	60.750	60.970	0.220
2 1/2	2.500	8	UN	63.500	3.175	2B	60.071	60.706	61.438	61.706	0.268
2 1/2	2.500	8	UN	63.500	3.175	3B	60.701	60.444	61.438	61.640	0.202
2 1/2	2.500	12	UN	63.500	2.117	2B	61.214	61.671	62.126	62.331	0.205
2 1/2	2.500	12	UN	63.500	2.117	3B	61.214	61.462	62.126	62.278	0.152
2 1/2	2.500	16	UN	63.500	1.588	2B	61.773	62.128	62.469	62.651	0.182
2 1/2	2.500	16	UN	63.500	1.588	3B	61.773	61.996	62.469	62.605	0.136
2 1/2	2.500	20	UN	63.500	1.270	2B	62.129	62.407	62.675	62.842	0.167
2 1/2	2.500	20	UN	63.500	1.270	3B	62.129	62.323	62.675	62.801	0.126
2 5/8	2.625	6	UN	66.675	4.233	2B	62.103	62.865	63.925	64.223	0.298
2 5/8	2.625	6	UN	66.675	4.233	3B	62.103	62.600	63.925	64.147	0.222
2 5/8	2.625	8	UN	66.675	3.175	2B	63.246	63.881	64.613	64.884	0.271
2 5/8	2.625	8	UN	66.675	3.175	3B	63.246	63.619	64.613	64.815	0.202
2 5/8	2.625	12	UN	66.675	2.117	2B	64.389	64.846	65.301	65.506	0.205
2 5/8	2.625	12	UN	66.675	2.117	3B	64.389	64.637	65.301	65.453	0.152
2 5/8	2.625	16	UN	66.675	1.588	2B	64.948	65.303	65.644	65.826	0.182
2 5/8	2.625	16	UN	66.675	1.588	3B	64.948	65.171	65.644	65.780	0.136
2 5/8	2.625	20	UN	66.675	1.270	2B	65.304	65.582	65.850	66.017	0.167
2 5/8	2.625	20	UN	66.675	1.270	3B	65.304	65.498	65.850	65.976	0.126
2 3/4	2.750	4	UNC	69.850	6.350	1B	62.967	63.931	65.726	66.248	0.522
2 3/4	2.750	4	UNC	69.850	6.350	2B	62.967	63.931	65.726	66.073	0.347
2 3/4	2.750	4	UNC	69.850	6.350	3B	62.967	63.738	65.726	65.986	0.260
2 3/4	2.750	6	UN	69.850	4.233	2B	65.278	66.040	67.100	67.401	0.301
2 3/4	2.750	6	UN	69.850	4.233	3B	65.278	65.775	67.100	67.325	0.225
2 3/4	2.750	8	UN	69.850	3.175	2B	66.421	67.056	67.788	68.061	0.273
2 3/4	2.750	8	UN	69.850	3.175	3B	66.421	66.794	67.788	67.993	0.205
2 3/4	2.750	12	UN	69.850	2.117	2B	67.564	68.021	68.476	68.681	0.205
2 3/4	2.750	12	UN	69.850	2.117	3B	67.564	67.812	68.476	68.628	0.152
2 3/4	2.750	16	UN	69.850	1.588	2B	68.123	68.478	68.819	69.001	0.182
2 3/4	2.750	16	UN	69.850	1.588	3B	68.123	68.346	68.819	68.955	0.136
2 3/4	2.750	20	UN	69.850	1.270	2B	68.479	68.757	69.025	69.192	0.167
2 3/4	2.750	20	UN	69.850	1.270	3B	68.479	68.673	69.025	69.151	0.126
2 7/8	2.875	6	UN	73.025	4.233	2B	68.453	69.215	70.275	70.578	0.303
2 7/8	2.875	6	UN	73.025	4.233	3B	68.453	68.950	70.275	70.502	0.227
2 7/8	2.875	8	UN	73.025	3.175	2B	69.596	70.231	70.963	71.241	0.278
2 7/8	2.875	8	UN	73.025	3.175	3B	69.596	69.969	70.963	71.170	0.207
2 7/8	2.875	12	UN	73.025	2.117	2B	70.739	71.196	71.651	71.859	0.208

Size	Major dia (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
2 7/8	2.875	12	UN	73.025	2.117	3B	70.739	70.987	71.651	71.808	0.157
2 7/8	2.875	16	UN	73.025	1.588	2B	71.298	71.653	71.994	72.179	0.185
2 7/8	2.875	16	UN	73.025	1.588	3B	71.298	71.521	71.994	72.133	0.139
2 7/8	2.875	20	UN	73.025	1.270	2B	71.654	71.932	72.200	72.372	0.172
2 7/8	2.875	20	UN	73.025	1.270	3B	71.654	71.848	72.200	72.329	0.129
3	3.000	4	UNC	76.200	6.350	1B	69.317	70.281	72.076	72.605	0.529
3	3.000	4	UNC	76.200	6.350	2B	69.317	70.281	72.076	72.428	0.352
3	3.000	4	UNC	76.200	6.350	3B	69.317	70.088	72.076	72.339	0.263
3	3.000	6	UN	76.200	4.233	2B	71.628	72.390	73.450	73.756	0.306
3	3.000	6	UN	76.200	4.233	3B	71.628	72.125	73.450	73.680	0.230
3	3.000	8	UN	76.200	3.175	2B	72.771	73.406	74.138	74.419	0.281
3	3.000	8	UN	76.200	3.175	3B	72.771	73.144	74.138	74.348	0.210
3	3.000	12	UN	76.200	2.117	2B	73.914	74.371	74.826	75.034	0.208
3	3.000	12	UN	76.200	2.117	3B	73.914	74.162	74.826	74.983	0.157
3	3.000	16	UN	76.200	1.588	2B	74.473	74.828	75.169	75.354	0.185
3	3.000	16	UN	76.200	1.588	3B	74.473	74.696	75.169	75.308	0.139
3	3.000	20	UN	76.200	1.270	2B	74.829	75.107	75.375	75.547	0.172
3	3.000	20	UN	76.200	1.270	3B	74.829	75.023	75.375	75.504	0.129
3 1/8	3.125	6	UN	79.375	4.233	2B	74.803	75.565	76.625	76.934	0.309
3 1/8	3.125	6	UN	79.375	4.233	3B	74.803	75.300	76.625	76.857	0.232
3 1/8	3.125	8	UN	79.375	3.175	2B	75.946	76.581	77.313	77.597	0.284
3 1/8	3.125	8	UN	79.375	3.175	3B	75.946	76.319	77.313	77.525	0.212
3 1/8	3.125	12	UN	79.375	2.117	2B	77.089	77.546	78.001	78.209	0.208
3 1/8	3.125	12	UN	79.375	2.117	3B	77.089	77.337	78.001	78.158	0.157
3 1/8	3.125	16	UN	79.375	1.588	2B	77.648	78.003	78.344	78.529	0.185
3 1/8	3.125	16	UN	79.375	1.588	3B	77.648	77.871	78.344	78.483	0.139
3 1/4	3.250	4	UNC	82.550	6.350	1B	75.667	76.631	78.426	78.963	0.537
3 1/4	3.250	4	UNC	82.550	6.350	2B	75.667	76.631	78.426	78.783	0.357
3 1/4	3.250	4	UNC	82.550	6.350	3B	75.667	76.438	78.426	78.694	0.268
3 1/4	3.250	6	UN	82.550	4.233	2B	77.978	78.740	79.800	80.111	0.311
3 1/4	3.250	6	UN	82.550	4.233	3B	77.978	78.475	79.800	80.032	0.232
3 1/4	3.250	8	UN	82.550	3.175	2B	79.121	79.756	80.488	80.774	0.286
3 1/4	3.250	8	UN	82.550	3.175	3B	79.121	79.494	80.488	80.703	0.215
3 1/4	3.250	12	UN	82.550	2.117	2B	80.264	80.721	81.176	81.384	0.208
3 1/4	3.250	12	UN	82.550	2.117	3B	80.264	80.512	81.176	81.333	0.157
3 1/4	3.250	16	UN	82.550	1.588	2B	80.823	81.178	81.519	81.704	0.185
3 1/4	3.250	16	UN	82.550	1.588	3B	80.823	81.046	81.519	81.658	0.139
3 3/8	3.375	6	UN	85.725	4.233	2B	81.153	81.915	82.975	83.289	0.314
3 3/8	3.375	6	UN	85.725	4.233	3B	81.153	81.650	82.975	83.210	0.235
3 3/8	3.375	8	UN	85.725	3.175	2B	82.296	82.931	83.663	83.952	0.289
3 3/8	3.375	8	UN	85.725	3.175	3B	82.296	82.669	83.663	83.878	0.215
3 3/8	3.375	12	UN	85.725	2.117	2B	83.439	83.896	84.351	84.564	0.213
3 3/8	3.375	12	UN	85.725	2.117	3B	83.439	83.687	84.351	84.510	0.159
3 3/8	3.375	16	UN	85.725	1.588	2B	83.998	84.353	84.694	84.884	0.190
3 3/8	3.375	16	UN	85.725	1.588	3B	83.998	84.221	84.694	84.836	0.142
3 1/2	3.500	4	UNC	88.900	6.350	1B	82.017	82.981	84.776	85.321	0.545
3 1/2	3.500	4	UNC	88.900	6.350	2B	82.017	82.981	84.776	85.138	0.362
3 1/2	3.500	4	UNC	88.900	6.350	3B	82.017	82.788	84.776	85.049	0.273
3 1/2	3.500	6	UN	88.900	4.233	2B	84.328	85.090	86.150	86.466	0.316
3 1/2	3.500	6	UN	88.900	4.233	3B	84.328	84.825	86.150	86.387	0.237
3 1/2	3.500	8	UN	88.900	3.175	2B	85.471	86.106	86.838	87.129	0.291
3 1/2	3.500	8	UN	88.900	3.175	3B	85.471	85.844	86.838	87.055	0.217
3 1/2	3.500	12	UN	88.900	2.117	2B	86.614	87.071	87.526	87.739	0.213
3 1/2	3.500	12	UN	88.900	2.117	3B	86.614	86.862	87.526	87.685	0.159
3 1/2	3.500	16	UN	88.900	1.588	2B	87.173	87.528	87.869	88.059	0.190
3 1/2	3.500	16	UN	88.900	1.588	3B	87.173	87.396	87.869	88.011	0.142
3 5/8	3.625	6	UN	92.075	4.233	2B	87.503	88.265	89.325	89.644	0.319
3 5/8	3.625	6	UN	92.075	4.233	3B	87.503	88.000	89.325	89.565	0.240
3 5/8	3.625	8	UN	92.075	3.175	2B	88.646	89.281	90.013	90.307	0.294
3 5/8	3.625	8	UN	92.075	3.175	3B	88.646	89.019	90.013	90.233	0.220
3 5/8	3.625	12	UN	92.075	2.117	2B	89.789	90.246	90.701	90.914	0.213

Size	Major dia (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
3 5/8	3.625	12	UN	92.075	2.117	3B	89.789	90.037	90.701	90.860	0.159
3 5/8	3.625	16	UN	92.075	1.588	2B	90.348	90.703	91.044	91.234	0.190
3 5/8	3.625	16	UN	92.075	1.588	3B	90.348	90.571	91.044	91.186	0.142
3 3/4	3.750	4	UNC	95.250	6.350	1B	88.367	89.331	91.126	91.678	0.552
3 3/4	3.750	4	UNC	95.250	6.350	2B	88.367	89.331	91.126	91.493	0.367
3 3/4	3.750	4	UNC	95.250	6.350	3B	88.367	89.138	91.126	91.401	0.275
3 3/4	3.750	6	UN	95.250	4.233	2B	90.678	91.440	92.500	92.821	0.321
3 3/4	3.750	6	UN	95.250	4.233	3B	90.678	91.175	92.500	92.740	0.240
3 3/4	3.750	8	UN	92.250	3.175	2B	91.821	92.456	93.188	93.484	0.296
3 3/4	3.750	8	UN	92.250	3.175	3B	91.821	92.194	93.188	93.411	0.223
3 3/4	3.750	12	UN	95.250	2.117	2B	92.964	93.421	93.876	94.089	0.213
3 3/4	3.750	12	UN	95.250	2.117	3B	92.964	93.212	93.876	94.035	0.159
3 3/4	3.750	16	UN	95.250	1.588	2B	93.523	93.878	94.219	94.409	0.190
3 3/4	3.750	16	UN	95.250	1.588	3B	93.523	93.746	94.219	94.361	0.142
3 7/8	3.875	6	UN	98.425	4.233	2B	93.853	94.615	95.675	95.999	0.324
3 7/8	3.875	6	UN	98.425	4.233	3B	93.853	94.350	95.675	95.918	0.243
3 7/8	3.875	8	UN	98.425	3.175	2B	94.996	95.631	96.363	96.662	0.299
3 7/8	3.875	8	UN	98.425	3.175	3B	94.996	96.369	96.363	96.586	0.223
3 7/8	3.875	12	UN	98.425	2.117	2B	96.139	96.596	97.051	97.266	0.215
3 7/8	3.875	12	UN	98.425	2.117	3B	96.139	96.387	97.051	97.213	0.162
3 7/8	3.875	16	UN	98.425	1.588	2B	96.698	97.053	97.394	97.586	0.192
3 7/8	3.875	16	UN	98.425	1.588	3B	96.698	96.521	97.394	97.538	0.144
4	4.000	4	UNC	101.600	6.350	1B	94.717	95.681	97.476	98.036	0.560
4	4.000	4	UNC	101.600	6.350	2B	94.717	95.681	97.476	97.848	0.372
4	4.000	4	UNC	101.600	6.350	3B	94.717	95.488	97.476	97.756	0.280
4	4.000	6	UN	101.600	4.233	2B	97.028	97.790	98.850	99.176	0.326
4	4.000	6	UN	101.600	4.233	3B	97.028	97.525	98.850	99.095	0.245
4	4.000	8	UN	101.600	3.175	2B	98.171	98.806	99.538	99.839	0.301
4	4.000	8	UN	101.600	3.175	3B	98.171	98.544	99.538	99.763	0.225
4	4.000	12	UN	101.600	2.117	2B	98.314	99.771	100.226	100.441	0.215
4	4.000	12	UN	101.600	2.117	3B	99.314	99.562	100.226	100.388	0.162
4	4.000	16	UN	101.600	1.588	2B	99.873	100.228	100.569	100.761	0.192
4	4.000	16	UN	101.600	1.588	3B	99.873	100.096	100.569	100.713	0.144
4 1/8	4.125	6	UN	104.775	4.233	2B	100.203	100.965	102.025	102.354	0.329
4 1/8	4.125	6	UN	104.775	4.233	3B	100.203	100.700	102.025	102.270	0.245
4 1/8	4.125	12	UN	104.775	2.117	2B	102.489	102.946	103.401	103.616	0.215
4 1/8	4.125	12	UN	104.775	2.117	3B	102.489	102.737	103.401	103.563	0.162
4 1/8	4.125	16	UN	104.775	1.588	2B	103.048	103.403	103.744	103.936	0.192
4 1/8	4.125	16	UN	104.775	1.588	3B	103.048	103.271	103.744	103.888	0.144
4 1/4	4.250	4	UN	107.950	6.350	2B	101.067	102.031	103.826	104.203	0.377
4 1/4	4.250	4	UN	107.950	6.350	3B	101.067	101.838	103.826	104.109	0.283
4 1/4	4.250	6	UN	107.950	4.233	2B	103.378	104.140	105.200	105.531	0.331
4 1/4	4.250	6	UN	107.950	4.233	3B	103.378	103.875	105.200	105.448	0.248
4 1/4	4.250	12	UN	107.950	2.117	2B	105.664	106.121	106.576	106.791	0.215
4 1/4	4.250	12	UN	107.950	2.117	3B	105.664	105.912	106.576	106.738	0.162
4 1/4	4.250	16	UN	107.950	1.588	2B	106.223	106.578	106.919	107.111	0.192
4 1/4	4.250	16	UN	107.950	1.588	3B	106.223	106.446	106.919	107.063	0.144
4 3/8	4.375	6	UN	111.125	4.233	2B	106.553	107.315	108.375	108.709	0.334
4 3/8	4.375	6	UN	111.125	4.233	3B	106.553	107.050	108.375	108.625	0.250
4 3/8	4.375	12	UN	111.125	2.117	2B	108.339	109.296	109.751	109.966	0.215
4 3/8	4.375	12	UN	111.125	2.117	3B	108.339	109.087	109.751	109.913	0.162
4 3/8	4.375	16	UN	111.125	1.588	2B	109.398	109.753	110.094	110.286	0.192
4 3/8	4.375	16	UN	111.125	1.588	3B	109.398	109.621	110.094	110.238	0.144
4 1/2	4.500	4	UN	114.300	6.350	2B	107.417	108.381	110.176	110.558	0.382
4 1/2	4.500	4	UN	114.300	6.350	3B	107.417	108.188	110.176	110.462	0.286
4 1/2	4.500	6	UN	114.300	4.233	2B	109.728	110.490	111.550	111.887	0.337
4 1/2	4.500	6	UN	114.300	4.233	3B	109.728	110.225	111.550	111.800	0.250
4 1/2	4.500	12	UN	114.300	2.117	2B	112.014	112.471	112.926	113.141	0.215
4 1/2	4.500	12	UN	114.300	2.117	3B	112.014	112.262	112.926	113.088	0.162
4 1/2	4.500	16	UN	114.300	1.588	2B	112.573	112.928	113.269	113.461	0.192
4 1/2	4.500	16	UN	114.300	1.588	3B	112.573	112.796	113.269	113.413	0.144

Size	Major dia (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
4 5/8	4.625	6	UN	117.475	4.233	2B	112.903	113.665	114.725	115.062	0.337
4 5/8	4.625	6	UN	117.475	4.233	3B	112.903	113.400	114.725	114.978	0.253
4 5/8	4.625	12	UN	117.475	2.117	2B	115.189	115.646	116.101	116.321	0.220
4 5/8	4.625	12	UN	117.475	2.117	3B	115.189	115.437	116.101	116.268	0.167
4 5/8	4.625	16	UN	117.475	1.588	2B	115.748	116.103	116.444	116.644	0.200
4 5/8	4.625	16	UN	117.475	1.588	3B	115.748	115.971	116.444	116.593	0.149
4 3/4	4.750	4	UN	120.650	6.350	2B	113.767	114.731	116.526	116.913	0.387
4 3/4	4.750	4	UN	120.650	6.350	3B	113.767	114.538	116.526	116.814	0.288
4 3/4	4.750	6	UN	120.650	4.233	2B	116.078	116.840	117.900	118.239	0.339
4 3/4	4.750	6	UN	120.650	4.233	3B	116.078	116.575	117.900	118.155	0.255
4 3/4	4.750	12	UN	120.650	2.117	2B	118.364	118.821	119.276	119.496	0.220
4 3/4	4.750	12	UN	120.650	2.117	3B	118.364	118.612	119.276	119.443	0.167
4 3/4	4.750	16	UN	120.650	1.588	2B	118.923	119.278	119.619	119.819	0.200
4 3/4	4.750	16	UN	120.650	1.588	3B	118.923	119.146	119.619	119.768	0.149
4 7/8	4.875	6	UN	123.825	4.233	2B	119.253	120.015	121.075	121.417	0.342
4 7/8	4.875	6	UN	123.825	4.233	3B	119.253	119.750	121.075	121.330	0.255
4 7/8	4.875	12	UN	123.825	2.117	2B	121.539	121.996	122.451	122.671	0.220
4 7/8	4.875	12	UN	123.825	2.117	3B	121.539	121.787	122.451	122.618	0.167
4 7/8	4.875	16	UN	123.825	1.588	2B	122.098	122.453	122.794	122.994	0.200
4 7/8	4.875	16	UN	123.825	1.588	3B	122.098	122.321	122.794	122.943	0.149
5	5.000	4	UN	127.000	6.350	2B	120.117	121.081	122.876	123.266	0.390
5	5.000	4	UN	127.000	6.350	3B	120.117	120.888	122.876	123.169	0.293
5	5.000	6	UN	127.000	4.233	2B	122.428	123.190	124.250	124.594	0.344
5	5.000	6	UN	127.000	4.233	3B	122.428	122.925	124.250	124.508	0.258
5	5.000	12	UN	127.000	2.117	2B	124.714	125.171	125.626	125.846	0.220
5	5.000	12	UN	127.000	2.117	3B	124.714	124.962	125.626	125.793	0.167
5	5.000	16	UN	127.000	1.588	2B	125.273	125.628	125.969	126.169	0.200
5	5.000	16	UN	127.000	1.588	3B	125.273	125.496	125.969	126.118	0.149
5 1/8	5.125	12	UN	130.175	2.117	2B	127.889	128.346	128.801	129.021	0.220
5 1/8	5.125	12	UN	130.175	2.117	3B	127.889	128.137	128.801	128.968	0.167
5 1/8	5.125	16	UN	130.175	1.588	2B	128.448	128.803	129.144	129.344	0.200
5 1/8	5.125	16	UN	130.175	1.588	3B	128.448	128.671	129.144	129.293	0.149
5 1/4	5.250	4	UN	133.350	6.350	2B	126.467	127.431	129.226	129.621	0.395
5 1/4	5.250	4	UN	133.350	6.350	3B	126.467	127.238	129.226	129.522	0.296
5 1/4	5.250	12	UN	133.350	2.117	2B	131.064	131.521	131.976	132.196	0.220
5 1/4	5.250	12	UN	133.350	2.117	3B	131.064	131.312	131.976	132.143	0.167
5 1/4	5.250	16	UN	133.350	1.588	2B	131.623	131.978	132.319	132.519	0.200
5 1/4	5.250	16	UN	133.350	1.588	3B	131.623	131.846	132.319	132.468	0.149
5 3/8	5.375	12	UN	136.525	2.117	2B	134.239	134.696	135.151	135.371	0.220
5 3/8	5.375	12	UN	136.525	2.117	3B	134.239	134.487	135.151	135.318	0.167
5 3/8	5.375	16	UN	136.525	1.588	2B	134.798	135.153	135.494	135.694	0.200
5 3/8	5.375	16	UN	136.525	1.588	3B	134.798	135.021	135.494	135.643	0.149
5 1/2	5.500	4	UN	139.700	6.350	2B	132.817	133.781	135.576	135.976	0.400
5 1/2	5.500	4	UN	139.700	6.350	3B	132.817	133.588	135.576	135.874	0.298
5 1/2	5.500	12	UN	139.700	2.117	2B	137.414	137.871	138.326	138.546	0.220
5 1/2	5.500	12	UN	139.700	2.117	3B	137.414	137.662	138.326	138.493	0.167
5 1/2	5.500	16	UN	139.700	1.588	2B	137.973	138.328	138.669	138.869	0.200
5 1/2	5.500	16	UN	139.700	1.588	3B	137.973	138.196	138.669	138.818	0.149
5 5/8	5.625	12	UN	142.875	2.117	2B	140.589	141.046	141.501	141.729	0.228
5 5/8	5.625	12	UN	142.875	2.117	3B	140.589	140.837	141.501	141.671	0.170
5 5/8	5.625	16	UN	142.875	1.588	2B	141.148	141.503	141.844	142.049	0.205
5 5/8	5.625	16	UN	142.875	1.588	3B	141.148	141.371	141.844	141.998	0.154
5 3/4	5.750	4	UN	146.050	6.350	2B	139.167	140.131	141.926	142.328	0.402
5 3/4	5.750	4	UN	146.050	6.350	3B	139.167	139.938	141.926	142.227	0.301
5 3/4	5.750	12	UN	146.050	2.117	2B	143.764	144.221	144.676	144.904	0.228
5 3/4	5.750	12	UN	146.050	2.117	3B	143.764	144.012	144.676	144.846	0.170
5 3/4	5.750	16	UN	146.050	1.588	2B	144.323	144.678	145.019	145.224	0.205
5 3/4	5.750	16	UN	146.050	1.588	3B	144.323	144.546	145.019	145.173	0.154
5 7/8	5.875	12	UN	149.225	2.117	2B	146.939	147.396	147.851	148.079	0.228
5 7/8	5.875	12	UN	149.225	2.117	3B	146.939	147.187	147.851	148.021	0.170
5 7/8	5.875	16	UN	149.225	1.588	2B	147.498	147.853	148.194	148.399	0.205

Size	Major dia (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
5 7/8	5.875	16	UN	149.225	1.588	3B	147.498	147.721	148.194	148.348	0.154
6	6.000	4	UN	152.400	6.350	2B	145.517	146.481	148.276	148.683	0.407
6	6.000	4	UN	152.400	6.350	3B	145.517	146.288	148.276	148.579	0.303
6	6.000	12	UN	152.400	2.117	2B	150.114	150.571	151.026	151.254	0.228
6	6.000	12	UN	152.400	2.117	3B	150.114	150.362	151.026	151.196	0.170
6	6.000	16	UN	152.400	1.588	2B	150.673	151.028	151.369	151.574	0.205
6	6.000	16	UN	152.400	1.588	3B	150.673	150.896	151.369	151.523	0.154
No.10	0.190	28	UNS	4.826	0.907	2B	3.836	4.064	4.237	4.345	0.108
No.10	0.190	36	UNS	4.826	0.706	2B	4.064	4.216	4.369	4.467	0.098
No.10	0.190	40	UNS	4.826	0.635	2B	4.141	4.292	4.415	4.508	0.093
No.10	0.190	48	UNS	4.826	0.529	2B	4.242	4.368	4.484	4.569	0.085
No.10	0.190	56	UNS	4.826	0.454	2B	4.344	4.445	4.532	4.612	0.080
No.12	0.216	36	UNS	5.486	0.706	2B	4.725	4.876	5.030	5.128	0.098
No.12	0.216	40	UNS	5.486	0.635	2B	4.801	4.953	5.075	5.168	0.093
No.12	0.216	48	UNS	5.486	0.529	2B	4.903	5.029	5.144	5.229	0.085
No.12	0.216	56	UNS	5.486	0.454	2B	5.004	5.105	5.192	5.273	0.081
1/4	0.250	24	UNS	6.350	1.058	2B	5.207	5.461	5.662	5.783	0.121
1/4	0.250	27	UNS	6.350	0.941	2B	5.334	5.562	5.738	5.852	0.114
1/4	0.250	36	UNS	6.350	0.706	2B	5.588	5.740	5.893	5.994	0.101
1/4	0.250	40	UNS	6.350	0.635	2B	5.665	5.816	5.939	6.035	0.096
1/4	0.250	48	UNS	6.350	0.529	2B	5.766	5.892	6.008	6.098	0.090
1/4	0.250	56	UNS	6.350	0.454	2B	5.868	5.969	6.056	6.139	0.083
5/16	0.3125	27	UNS	7.937	0.941	2B	6.909	7.137	7.326	7.439	0.113
5/16	0.3125	36	UNS	7.937	0.706	2B	7.163	7.340	7.481	7.581	0.100
5/16	0.3125	40	UNS	7.937	0.635	2B	7.239	7.391	7.527	7.622	0.095
5/16	0.3125	48	UNS	7.937	0.529	2B	7.366	7.493	7.595	7.686	0.091
3/8	0.375	18	UNS	9.525	1.411	2B	8.001	8.331	8.609	8.750	0.141
3/8	0.375	27	UNS	9.525	0.941	2B	8.509	8.737	8.913	9.032	0.119
3/8	0.375	36	UNS	9.525	0.706	2B	8.763	8.940	9.068	9.174	0.106
3/8	0.375	40	UNS	9.525	0.635	2B	8.840	8.991	9.114	9.215	0.101
0.390	0.390	27	UNS	9.906	0.941	2B	8.890	9.118	9.294	9.413	0.119
7/16	0.4375	18	UNS	11.112	1.411	2B	9.576	9.906	10.196	10.337	0.141
7/16	0.4375	24	UNS	11.112	1.058	2B	9.957	10.210	10.425	10.548	0.123
7/16	0.4375	27	UNS	11.112	0.941	2B	10.084	10.312	10.501	10.619	0.118
1/2	0.500	12	UNS	12.700	2.117	2B	10.414	10.871	11.326	11.503	0.177
1/2	0.500	12	UNS	12.700	2.117	3B	10.414	10.726	11.326	11.457	0.131
1/2	0.500	14	UNS	12.700	1.814	2B	10.745	11.125	11.522	11.686	0.164
1/2	0.500	18	UNS	12.700	1.411	2B	11.176	11.506	11.784	11.930	0.146
1/2	0.500	24	UNS	12.700	1.058	2B	11.557	11.811	12.012	12.141	0.129
1/2	0.500	27	UNS	12.700	0.941	2B	11.684	11.912	12.088	12.209	0.121
9/16	0.5625	14	UNS	14.287	1.814	2B	12.319	12.725	13.109	13.274	0.165
9/16	0.5625	27	UNS	14.287	0.941	2B	13.259	13.487	13.676	13.797	0.121
5/8	0.625	14	UNS	15.875	1.814	2B	13.920	14.325	14.697	14.864	0.167
5/8	0.625	27	UNS	15.875	0.941	2B	14.859	15.087	15.263	15.389	0.126
3/4	0.750	14	UNS	19.050	1.814	2B	17.095	17.475	17.872	18.041	0.169
3/4	0.750	18	UNS	19.050	1.411	2B	17.526	17.856	18.134	18.285	0.151
3/4	0.750	24	UNS	19.050	1.058	2B	17.907	18.161	18.362	18.496	0.134
3/4	0.750	27	UNS	19.050	0.941	2B	18.034	18.262	18.438	18.567	0.129
7/8	0.875	10	UNS	22.225	2.540	2B	19.482	20.015	20.574	20.772	0.198
7/8	0.875	18	UNS	22.225	1.411	2B	20.701	21.031	21.309	21.460	0.151
7/8	0.875	24	UNS	22.225	1.058	2B	21.082	21.336	21.537	21.671	0.134
7/8	0.875	27	UNS	22.225	0.941	2B	21.209	21.437	21.613	21.742	0.129
1	1.000	10	UNS	25.400	2.540	2B	22.657	23.190	23.749	23.952	0.203
1	1.000	14	UNS	25.400	1.814	1B	23.445	23.825	24.222	24.498	0.276
1	1.000	14	UNS	25.400	1.814	2B	23.445	23.825	24.222	24.406	0.184
1	1.000	14	UNS	25.400	1.814	3B	23.445	23.660	24.222	24.358	0.136
1	1.000	18	UNS	25.400	1.411	2B	23.876	24.206	24.484	24.640	0.156
1	1.000	24	UNS	25.400	1.058	2B	24.257	24.511	24.712	24.851	0.139
1	1.000	27	UNS	25.400	0.941	2B	24.384	24.612	24.788	24.919	0.131
1 1/8	1.125	10	UNS	28.575	2.540	2B	25.832	26.365	26.924	27.127	0.203
1 1/8	1.125	14	UNS	28.575	1.814	2B	26.620	27.025	27.397	27.571	0.174

Size	Major dia (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
1 1/8	1.125	24	UNS	28.575	1.058	2B	27.432	27.686	27.887	28.026	0.139
1 1/4	1.250	10	UNS	31.750	2.540	2B	29.007	29.540	30.099	30.307	0.208
1 1/4	1.250	14	UNS	31.750	1.814	2B	29.795	30.175	30.572	30.749	0.177
1 1/4	1.250	24	UNS	31.750	1.058	2B	30.607	30.861	31.062	31.203	0.141
1 3/8	1.375	10	UNS	34.925	2.540	2B	32.182	32.715	33.274	33.482	0.208
1 3/8	1.375	14	UNS	34.925	1.814	2B	32.970	33.375	33.747	33.924	0.177
1 3/8	1.375	24	UNS	34.925	1.058	2B	33.782	34.036	34.237	34.378	0.141
1 1/2	1.500	10	UNS	38.100	2.540	2B	35.357	35.890	36.449	36.659	0.210
1 1/2	1.500	14	UNS	38.100	1.814	2B	36.145	36.525	36.922	37.104	0.182
1 1/2	1.500	24	UNS	38.100	1.058	2B	36.957	37.211	37.412	37.558	0.146
1 5/8	1.625	10	UNS	41.275	2.540	2B	38.532	39.065	39.624	39.834	0.210
1 5/8	1.625	14	UNS	41.275	1.814	2B	39.320	39.725	40.097	40.279	0.182
1 5/8	1.625	24	UNS	41.275	1.058	2B	40.132	40.386	40.587	40.733	0.146
1 3/4	1.750	10	UNS	44.450	2.540	2B	41.707	42.240	42.799	43.012	0.213
1 3/4	1.750	14	UNS	44.450	1.814	2B	42.495	42.875	43.272	43.456	0.184
1 3/4	1.750	18	UNS	44.450	1.411	2B	42.926	43.256	43.534	43.700	0.166
1 7/8	1.875	10	UNS	47.625	2.540	2B	44.882	45.415	45.974	46.187	0.213
1 7/8	1.875	14	UNS	47.625	1.814	2B	45.670	46.075	46.447	46.631	0.184
1 7/8	1.875	18	UNS	47.625	1.411	2B	46.101	46.431	46.709	46.875	0.166
2	2.000	10	UNS	50.800	2.540	2B	48.057	48.590	49.149	49.364	0.215
2	2.000	14	UNS	50.800	1.814	2B	48.845	49.225	49.622	49.809	0.187
2	2.000	18	UNS	50.800	1.411	2B	49.276	49.606	49.884	50.053	0.169
2 1/16	2.0625	16	UNS	52.387	1.588	2B	50.673	51.028	51.357	51.534	0.177
2 1/16	2.0625	16	UNS	52.387	1.588	3B	50.673	50.883	51.357	51.488	0.131
2 3/16	2.1875	16	UNS	55.562	1.588	2B	53.848	54.203	54.532	54.709	0.177
2 3/16	2.1875	16	UNS	55.562	1.588	3B	53.848	54.058	54.532	54.663	0.131
2 1/4	2.250	10	UNS	57.150	2.540	2B	54.407	54.940	55.499	55.714	0.215
2 1/4	2.250	14	UNS	57.150	1.814	2B	55.195	55.575	55.972	56.159	0.187
2 1/4	2.250	18	UNS	57.150	1.411	2B	55.626	55.956	56.234	56.403	0.169
2 5/16	2.3125	16	UNS	58.737	1.588	2B	57.023	57.378	57.707	57.889	0.182
2 5/16	2.3125	16	UNS	58.737	1.588	3B	57.023	57.233	57.707	57.843	0.136
2 7/16	2.4375	16	UNS	61.912	1.588	2B	60.198	60.553	60.882	61.064	0.182
2 7/16	2.4375	16	UNS	61.912	1.588	3B	60.198	60.408	60.882	61.018	0.136
2 1/2	2.500	10	UNS	63.500	2.540	2B	60.757	61.290	61.849	62.069	0.220
2 1/2	2.500	14	UNS	63.500	1.814	2B	61.545	61.925	62.322	62.514	0.192
2 1/2	2.500	18	UNS	63.500	1.411	2B	61.976	62.306	62.584	62.758	0.174
2 3/4	2.750	10	UNS	69.850	2.540	2B	67.107	67.640	68.199	68.419	0.220
2 3/4	2.750	14	UNS	69.850	1.814	2B	67.895	68.275	68.672	68.864	0.192
2 3/4	2.750	18	UNS	69.850	1.411	2B	68.326	68.656	68.934	69.108	0.174
3	3.000	10	UNS	76.200	2.540	2B	73.457	73.990	74.549	74.775	0.226
3	3.000	14	UNS	76.200	1.814	2B	74.245	74.625	75.022	75.217	0.195
3	3.000	18	UNS	76.200	1.411	2B	74.676	75.006	75.284	75.460	0.176
3 1/4	3.250	10	UNS	82.550	2.540	2B	79.807	80.340	80.899	81.125	0.226
3 1/4	3.250	14	UNS	82.550	1.814	2B	80.595	80.975	81.372	81.567	0.195
3 1/4	3.250	18	UNS	82.550	1.411	2B	81.026	81.356	81.634	81.810	0.176
3 1/2	3.500	10	UNS	88.900	2.540	2B	86.157	86.690	87.249	87.477	0.228
3 1/2	3.500	14	UNS	88.900	1.814	2B	86.945	87.325	87.722	87.922	0.200
3 1/2	3.500	18	UNS	88.900	1.411	2B	87.376	87.706	87.984	88.165	0.181
3 3/4	3.750	10	UNS	95.250	2.540	2B	92.507	93.040	93.599	93.827	0.228
3 3/4	3.750	14	UNS	95.250	1.814	2B	93.295	93.675	94.072	94.272	0.200
3 3/4	3.750	18	UNS	95.250	1.411	2B	93.726	94.056	94.334	94.515	0.181
4	4.000	10	UNS	101.600	2.540	2B	98.857	99.390	99.949	100.180	0.231
4	4.000	14	UNS	101.600	1.814	2B	99.645	100.025	100.422	100.624	0.202
4 1/4	4.250	10	UNS	107.950	2.540	2B	105.207	105.740	106.299	106.530	0.231
4 1/4	4.250	14	UNS	107.950	1.814	2B	105.995	106.375	106.772	106.974	0.202
4 1/2	4.500	10	UNS	114.300	2.540	2B	111.557	112.090	112.649	112.880	0.231
4 1/2	4.500	14	UNS	114.300	1.814	2B	112.345	112.725	113.122	113.324	0.202
4 3/4	4.750	10	UNS	120.650	2.540	2B	117.907	118.440	118.999	119.237	0.238
4 3/4	4.750	14	UNS	120.650	1.814	2B	118.695	119.075	119.472	119.682	0.210
5	5.000	10	UNS	127.000	2.540	2B	124.257	124.790	125.349	125.587	0.238
5	5.000	14	UNS	127.000	1.814	2B	125.045	125.425	125.822	126.032	0.210

Size	Major dia (inch)	Threads per inch		Major dia.	Pitch (mm)	Class	Minor dia. (mm)		Pitch dia. (mm)		
							Min	Max	Min	Max	Tolerance
5 1/4	5.250	10	UNS	133.350	2.540	2B	130.607	131.140	131.699	131.937	0.238
5 1/4	5.250	14	UNS	133.350	1.814	2B	131.395	131.775	132.172	132.382	0.210
5 1/2	5.500	10	UNS	139.700	2.540	2B	136.957	137.490	138.049	138.287	0.238
5 1/2	5.500	14	UNS	139.700	1.814	2B	137.745	138.125	138.522	138.732	0.210
5 3/4	5.750	10	UNS	146.050	2.540	2B	143.307	143.840	144.399	144.642	0.243
5 3/4	5.750	14	UNS	146.050	1.814	2B	144.095	144.475	144.872	145.087	0.215
6	6.000	10	UNS	152.400	2.540	2B	149.657	150.190	150.749	150.992	0.243
6	6.000	14	UNS	152.400	1.814	2B	150.445	150.825	151.222	151.437	0.215