

THREAD/SCREW - Drill & Tap Chart

Machine Screw Size		Threads Per Inch	Minor Dia	Tap Drills				Clearance Hole Drills			
				Alum, Brass, & Plastics		Stainless Steel, Steels & Iron		All Materials			
# or Dia	Major Dia			75% Thread		50% Thread		Close Fit		Free Fit	
				Drill Size	Decimal Equiv.	Drill Size	Decimal Equiv.	Drill Size	Decimal Equiv.	Drill Size	Decimal Equiv.
0	.0600	80	.0447	3/64	.0469	55	.0520	52	.0635	50	.0700
1	.0730	64	.0538	53	.0595	1/16	.0625	48	.0760	46	.0810
		72	.0560	53	.0595	52	.0635				
2	.0860	56	.0641	50	.0700	49	.0730	43	.0890	41	.0960
		64	.0668	50	.0700	48	.0760				
3	.0990	48	.0734	47	.0785	44	.0860	37	.1040	35	.1100
		56	.0771	45	.0820	43	.0890				
4	.1120	40	.0813	43	.0890	41	.0960	32	.1160	30	.1285
		48	.0864	42	.0935	40	.0980				
5	.125	40	.0943	38	.1015	7/64	.1094	30	.1285	29	.1360
		44	.0971	37	.1040	35	.1100				
6	.138	32	.0997	36	.1065	32	.1160	27	.1440	25	.1495
		40	.1073	33	.1130	31	.1200				
8	.1640	32	.1257	29	.1360	27	.1440	18	.1695	16	.1770
		36	.1299	29	.1360	26	.1470				
10	.1900	24	.1389	25	.1495	20	.1610	9	.1960	7	.2010
		32	.1517	21	.1590	18	.1695				
12	.2160	24	.1649	16	.1770	12	.1890	2	.2210	1	.2280
		28	.1722	14	.1820	10	.1935				
		32	.1777	13	.1850	9	.1960				
1/4	.2500	20	.1887	7	.2010	7/32	.2188	F	.2570	H	.2660
		28	.2062	3	.2130	1	.2280				
		32	.2117	7/32	.2188	1	.2280				
5/16	.3125	18	.2443	F	.2570	J	.2770	P	.3230	Q	.3320
		24	.2614	I	.2720	9/32	.2812				
		32	.2742	9/32	.2812	L	.2900				
3/8	.3750	16	.2983	5/16	.3125	Q	.3320	W	.3860	X	.3970
		24	.3239	Q	.3320	S	.3480				
		32	.3367	11/32	.3438	T	.3580				
7/16	.4375	14	.3499	U	.3680	25/64	.3906	29/64	.4531	15/32	.4687
		20	.3762	25/64	.3906	13/32	.4062				
		28	.3937	Y	.4040	Z	.4130				
1/2	.5000	13	.4056	27/64	.4219	29/64	.4531	33/64	.5156	17/32	.5312
		20	.4387	29/64	.4531	15/32	.4688				
		28	.4562	15/32	.4688	15/32	.4688				
9/16	.5625	12	.4603	31/64	.4844	33/64	.5156	37/64	.5781	19/32	.5938
		18	.4943	33/64	.5156	17/32	.5312				

		24	.5114	33/64	.5156	17/32	.5312				
5/8	.6250	11	.5135	17/32	.5312	9/16	.5625	41/64	.6406	21/32	.6562
		18	.5568	37/64	.5781	19/32	.5938				
		24	.5739	37/64	.5781	19/32	.5938				
11/16	.6875	24	.6364	41/64	.6406	21/32	.6562	45/64	.7031	23/32	.6562
3/4	.7500	10	.6273	21/32	.6562	11/16	.6875	49/64	.7656	25/32	.7812
		16	.6733	11/16	.6875	45/64	.7031				
		20	.6887	45/64	.7031	23/32	.7188				
13/16	.8125	20	.7512	49/64	.7656	25/32	.7812	53/64	.8281	27/32	.8438
7/8	.8750	9	.7387	49/64	.7656	51/64	.7969	57/64	.8906	29/32	.9062
		14	.7874	13/16	.8125	53/64	.8281				
		20	.8137	53/64	.8281	27/32	.8438				
15/16	.9375	20	.8762	57/64	.8906	29/32	.9062	61/64	.9531	31/32	.9688
1	1.000	8	.8466	7/8	.8750	59/64	.9219	1-1/64	1.0156	1-1/32	1.0313
		12	.8978	15/16	.9375	61/64	.9531				
		20	.9387	61/64	.9531	31/32	.9688				

Tap Chart - UNC/UNF Threads

Tap size	NF/NC UNF/UNC	Threads per inch	Basic major dia (inches)	Basic effective dia (inches)	Basic minor dia of ext. threads (inches)	Basic minor dia of int. threads (inches)	Drill size
0-80	UNF	80	.0600	.0519	.0447	.0465	3/64
1-64	UNC	64	.0730	.0629	.0538	.0561	#54
2-56	UNC	56	.0860	.0744	.0641	.0667	#50
2-64	UNF	64	.0860	.0759	.0668	.0691	#50
4-40	UNC	40	.1120	.0958	.0813	.0849	#43
4-48	UNF	48	.1120	.0985	.0864	.0894	#42
5-40	UNC	40	.1250	.1088	.0943	.0979	#38
5-44	UNF	44	.1250	.1102	.0971	.1004	#37
6-32	UNC	32	.1360	.1177	.0997	.1042	#36
6-40	UNF	40	.1360	.1218	.1073	.1109	#33
8-32	UNC	32	.1640	.1437	.1257	.1302	#29
8-36	UNF	36	.1640	.1460	.1299	.1339	#29
10-24	UNC	24	.1900	.1629	.1389	.1449	#25
10-32	UNF	32	.1900	.1697	.1517	.1562	#21
1/4-20	UNC	20	.2500	.2175	.1887	.1959	#7
1/4-28	UNF	28	.2500	.2268	.2062	.2113	#3
5/16-18	UNC	18	.3125	.2764	.2443	.2524	F
5/16-24	UNF	24	.3125	.2854	.2614	.2674	I
3/8-16	UNC	16	.3750	.3344	.2983	.3073	5/16
3/8-24	UNF	24	.3750	.3479	.3239	.3299	Q
7/16-14	UNC	14	.4375	.3911	.3499	.3602	U
7/16-20	UNF	20	.4375	.4050	.3762	.3834	25/64
1/2-13	UNC	13	.5000	.4500	.4056	.4167	27/64
1/2-20	UNF	20	.5000	.4675	.4387	.4459	29/64
9/16-12	UNC	12	.5625	.5084	.4603	.4723	31/64
9/16-18	UNF	18	.5625	.5264	.4943	.5024	33/64
5/8-11	UNC	11	.6250	.5660	.5135	.5266	17/32
5/8-18	UNF	18	.6250	.5869	.5568	.5649	37/64
3/4-10	UNC	10	.7500	.6650	.6273	.6417	21/32
3/4-16	UNF	16	.7500	.7094	.6733	.6823	11/16
7/8-9	UNC	9	.8750	.8028	.7387	.7547	49/64
7/8-14	UNF	14	.8750	.8286	.7874	.7977	13/16
1-8	UNC	8	1.000	.9188	.8466	.8647	7/8
1-14	UNF	14	1.000	.9459	.8978	.9098	15/16
1 1/8-7	UNC	7	1.1250	1.0322	.9497	.9704	63/64
1 1/8-12	UNF	12	1.1250	1.0709	1.0228	1.0348	1 3/64
1 1/4-7	UNC	7	1.2500	1.1572	1.0747	1.0954	1 7/64
1 3/8-6	UNC	6	1.3750	1.2667	1.1705	1.1946	1 13/64
1 1/2-6	UNC	6	1.5000	1.3917	1.2955	1.3196	1 11/32
1 3/4-5	UNC	5	1.7500	1.6201	1.5046	1.5335	1 35/64
2-4.5	UNC	4 1/2	2.0000	1.8557	1.7274	1.7594	1 25/32

British Association Thread Chart

Thread Angle 47.5 Degrees

No	Decimal	TPI	Pitch	Core Dia	Thread Depth	Radius	Hex A/Flats	Tapping Size	MM	Letter or Number
0	0.2362	25.4	0.0394	0.1887	0.0236	0.0071	0.413	0.2008	5.1	9
1	0.2087	28.2	0.0354	0.1665	0.0213	0.0064	0.365	0.1772	4.5	16
2	0.1850	31.4	0.0319	0.1467	0.0191	0.0057	0.324	0.1575	4.0	22
3	0.1614	34.8	0.0287	0.1266	0.0173	0.0052	0.282	0.1339	3.4	29
4	0.1417	38.5	0.0260	0.1108	0.0156	0.0047	0.248	0.1181	3.0	31
5	0.1260	43.0	0.0232	0.0981	0.0140	0.0042	0.220	0.1043	2.65	37
6	0.1102	47.9	0.0209	0.0849	0.0126	0.0038	0.193	0.0906	2.3	42
7	0.0984	52.9	0.0189	0.0753	0.0114	0.0034	0.172	0.0807	2.05	46
8	0.0866	59.1	0.0169	0.0657	0.0102	0.0031	0.152	0.0709	1.8	50
9	0.0748	65.1	0.0154	0.0565	0.0093	0.0028	0.131	0.0610	1.55	1/16
10	0.0669	72.6	0.0138	0.0504	0.0083	0.0025	0.117	0.0551	1.40	54
11	0.0590	82.0	0.0122	0.0443	0.0073	0.0022		0.0472	1.2	56
12	0.0511	90.7	0.0110	0.0378	0.0067	0.0020		0.0413	1.05	60
13	0.0472	102.0	0.0098	0.0352	0.0059	0.0018		0.0386	0.98	62
14	0.0394	110.0	0.0091	0.0280	0.0055	0.0016		0.0315	0.80	1/32
15	0.0354	121.0	0.0083	0.0250	0.0049	0.0015		0.0276	0.70	70
16	0.0311	134.0	0.0075	0.0220	0.0045	0.0014		0.0236	0.60	73

British Standard Whitworth Thread Chart

Thread Angle 55 degrees

OD	Decimal	TPI	Pitch	Core Dia	Thread Depth	Radius	Hex A/Flats	Head Depth	Washer Face Dia	Standard Nut Depth	Lock Nut Depth	Tapping Size	MM	Letter or Number
1/16	0.0625	60	0.0167	0.0412	0.0107	0.0023						0.0465	1.1	56
3/32	0.0937	48	0.0283	0.0672	0.0133	0.0029						0.0700	1.8	50
1/8	0.125	40	0.025	0.093	0.016	0.0034	0.338					0.0984	2.5	40
5/32	0.1562	32	0.03125	0.1162	0.020	0.0043						0.1200	3.1	31
3/16	0.1875	24	0.0417	0.1341	0.0267	0.0057	0.445					0.1457	3.7	27
7/32	0.2187	24	0.04167	0.1653	0.0267	0.0057						0.1730	4.4	17
1/4	0.250	20	0.050	0.186	0.032	0.0069	0.525	0.176	0.428	0.200	0.185	0.2008	5.1	8
5/16	0.3125	18	0.0556	0.2414	0.0356	0.0075	0.600	0.218	0.508	0.250	0.210	0.2559	6.5	E
3/8	0.375	16	0.0625	0.295	0.040	0.0086	0.710	0.260	0.582	0.312	0.260	0.3125	8.0	5/16
7/16	0.4375	14	0.07143	0.346	0.0457	0.0098	0.820	0.302	0.690	0.375	0.275	0.3622	9.2	23/64
1/2	0.500	12	0.0833	0.3933	0.0534	0.0114	0.920	0.343	0.800	0.437	0.300	0.4134	10.5	Z
9/16	0.5625	12	0.0833	0.4558	0.0534	0.0114	1.010	0.375	0.900	0.500	0.333	0.4764	12.1	31/64
5/8	0.625	11	0.0909	0.5086	0.0582	0.0125	1.100	0.417	0.985	0.562	0.375	0.5315	13.5	17/32
11/16	0.6875	11	0.0909	0.5711	0.0582	0.0125	1.200					0.5938	15.0	19/32
3/4	0.750	10	0.100	0.6219	0.0640	0.0137	1.300	0.500	1.175	0.687	0.458	0.6406	16.3	41/64
13/16	0.8125	10	0.100	0.6844	0.0640	0.0137	1.390					0.7126	18.1	23/32
7/8	0.875	9	0.1111	0.7327	0.711	0.0153	1.480	0.583	1.273	0.750	0.500	0.750	19.3	3/4
15/16	0.9375	9	0.1111	0.7952	0.0711	0.0153	1.575					0.8281	21.0	53/64
1	1.000	8	0.125	0.8399	0.0800	0.0172	1.670	0.666	1.453	0.875	0.583	0.8661	22.0	55/64
1 - 1/8	1.125	7	0.1429	0.9420	0.0915	0.0196	1.860	0.750	1.620	1.000	0.666	0.9744	24.8	31/32
1 - 1/4	1.250	7	0.1429	1.0670	0.0915	0.0196	2.050	0.830	1.795	1.125	0.750	1.0938	27.5	1 - 3/32
1 - 3/8	1.375	6	0.1667	1.1616	0.1067	0.0229	2.220	0.920	1.985	1.250	0.833	1.1875	30	1 - 3/8
1 - 1/2	1.500	6	0.1667	1.2866	0.1067	0.0229	2.410	1.000	2.155	1.375	0.916	1.3189	33.5	1 - 5/16

OD	Decimal	TPI	Pitch	Core Dia	Thread Depth	Radius	Hex A/Flats	Head Depth	Washer Face Dia	Standard Nut Depth	Lock Nut Depth	Tapping Size	MM	Letter or Number
1 - 3/4	1.750	5	0.200	1.4939	0.1281	0.0275	2.760	1.170	2.495	1.625	1.083	1.5354	39.0	1 - 17/32
1 - 7/8	1.875	4.5	0.2222	1.5904	0.1423	0.0305						1.625	41	1 - 5/8
2	2.000	4.5	0.222	1.7154	0.1423	0.0305	3.150	1.330	2.675	1.750	1.166	1.7520	44.5	1 - 3/4

Model Engineers Thread Chart Thread Angle 55 degrees

OD	Decimal	TPI	Pitch	Core Dia	Thread Depth	Tapping Size	MM	Letter or Number
1/8	0.1250	40	0.02500	0.0930	0.016	0.0938	2.4	3/32
5/32	0.1562	40	0.02500	0.1252	0.016	0.1285	3.25	30
3/16	0.1875	40	0.02500	0.1555	0.016	0.1570	4.0	22
7/32	0.2188	40	0.02500	0.1868	0.016	0.1890	4.8	12
1/4	0.2500	40	0.02500	0.2180	0.016	0.2210	5.6	2
1/4	0.2500	32	0.03125	0.2100	0.020	0.2130	5.5	3
9/32	0.2812	40	0.02500	0.2492	0.016	0.2570	6.6	F
9/32	0.2812	32	0.03125	0.2412	0.020	0.2460	6.3	D
5/16	0.3125	40	0.02500	0.2805	0.016	0.2900	7.4	L
5/16	0.3125	32	0.03125	0.2725	0.020	0.2770	7.1	J
3/8	0.3750	40	0.02500	0.3430	0.016	0.3480	8.9	S
3/8	0.3750	32	0.03125	0.3350	0.020	0.3390	8.6	R
7/16	0.4375	40	0.02500	0.4055	0.016	0.4130	10.5	Z
7/16	0.4375	32	0.03125	0.3975	0.020	0.4040	10.3	Y
1/2	0.5000	40	0.02500	0.4680	0.016	0.4688	12.1	15/32
1/2	0.5000	32	0.03125	0.4600	0.020	0.4688	11.9	15/32

Metric Threads - Coarse Thread Pitches

¹: For metric threads pitch is the distance between threads.

- *1 mm ≈ 0.03937 inches*

Size - Nominal Diameter (mm)	Pitch ¹ (mm)	Clearance Drill (mm)	Tap Drill (mm)
M 1.60	0.35	1.8	1.25
M 2.00	0.40	2.4	1.60
M 2.50	0.45	2.90	2.00
M 3.00	0.50	3.40	2.50
M 3.50	0.60	3.90	2.90
M 4.00	0.70	4.50	3.30
M 5.00	0.80	5.50	4.20
M 6.00	1.00	6.60	5.00
M 8.00	1.25	9.00	6.80
M 10.00	1.50	12.00	8.50
M 12.00	1.75	14.00	10.20
M 14.00	2.00	16.00	12.00
M 16.00	2.00	18.00	14.00
M 20.00	2.50	22.00	17.50
M 22.00	2.50	25.00	19.50
M 24.00	3.00	27.00	21.00
M 27.00	3.00	30.00	24.00
M 30.00	3.50	33.00	26.50
M 36.00	4.00	40.00	32.00
M 42.00	4.50	46.00	37.50
M 48.00	5.00	53.00	43.00
M 56.00	5.50	62.00	50.50
M 64.00	6.00	70.00	58.00
M 68.00	6.00	74.00	62.00

Metric Threads - Fine Thread Pitches

Size - Nominal Diameter (mm)	Pitch ¹⁾ (mm)	Tap Drill (mm)
M 1.0x0.2	0.20	0.80
M 1.1x0.2	0.20	0.90
M 1.2x0.2	0.20	1.00
M 1.4x0.2	0.20	1.20
M 1.6x0.2	0.20	1.40
M 1.8x0.2	0.20	1.60
M 2x0.25	0.25	1.75
M 2.2x0.25	0.25	1.95
M 2.5x0.35	0.35	2.10
M 3x0.35	0.35	2.60
M 3.5x0.35	0.35	3.10
M 4x0.5	0.50	3.50
M 4.5x0.5	0.50	4.00
M 5x0.5	0.50	4.50
M 5.5x0.5	0.50	5.00
M 6x0.75	0.75	5.20
M 7x0.75	0.75	6.20
M 8x0.75	0.75	7.20
M 8x1.0	1.00	7.00
M 9x0.75	0.75	8.20
M 9x 1	1.00	8.00
M 10x0.75	0.75	9.20
M 10x1	1.00	9.00
M 10x1.25	1.25	8.80
M 11x0.75	0.75	10.20
M 11x1	1.00	10.00
M 12x1	1.00	11.00
M 12x1.25	1.25	10.80
M 12x1.5	1.50	10.50
M 14x1.0	1.00	13.00
M 14x1.25	1.25	12.80
M 14x1.5	1.50	12.50
M 15x1	1.00	14.00
M 15x1.5	1.50	13.50
M 16x1	1.00	15.00
M 16x1.5	1.50	14.50
M 17x1.0	1.00	16.00
M 17x1.5	1.50	15.50

Size - Nominal Diameter (mm)	Pitch¹⁾ (mm)	Tap Drill (mm)
M 18x1.0	1.00	17.00
M 18x1.5	1.50	16.50
M 18x2.0	2.00	16.00
M 20x1.0	1.00	19.00
M 20x1.5	1.50	18.50
M 20x2.0	2.00	18.00
M 22x1.0	1.00	21.00
M 22x1.5	1.50	20.50
M 22x2.0	2.00	20.00
M 24x1.0	1.00	23.00
M 24x1.5	1.50	22.50
M 24x2.0	2.00	22.00
M 25x1.0	1.00	24.00
M 25x1.5	1.50	23.50
M 25x2.0	2.00	23.00
M 27x1.0	1.00	26.00
M 27x1.5	1.50	25.50
M 27x2.0	2.00	25.00
M 28x1.0	1.00	27.00
M 28x1.5	1.50	26.50
M 28x2.0	2.00	26.00
M 30x1.0	1.00	29.00
M 30x1.5	1.50	28.50
M 30x2.0	2.00	28.00
M 30x3.0	3.00	27.00
M 32x1.5	1.50	30.50
M 32x2.0	2.00	30.00
M 33x1.5	1.50	31.50
M 33x2.0	2.00	31.00
M 33x3.0	3.00	30.00
M 35x1.5	1.50	33.50
M 35x2.0	2.00	33.00
M 36x1.5	1.50	34.50
M 36x2.0	2.00	34.00
M 36x3.0	3.00	33.00
M 39x1.5	1.50	37.50
M 39x2.0	2.00	37.00
M 39x3.0	3.00	36.00
M 40x1.5	1.50	38.50

Size - Nominal Diameter (mm)	Pitch¹⁾ (mm)	Tap Drill (mm)
M 40x2.0	2.00	38.00
M 40x3.0	3.00	37.00
M 42x1.5	1.50	40.50
M 42x2.0	2.00	40.00
M 42x3.0	3.00	39.00
M 42x4.0	4.00	38.00
M 45x1.5	1.50	43.50
M 45x2.0	2.00	43.00
M 45x3.0	3.00	42.00
M 45x4.0	4.00	41.00
M 48x1.5	1.50	46.50
M 48x2.0	2.00	46.00
M 48x3.0	3.00	45.00
M 48x4.0	4.00	44.00
M 50x1.5	1.50	48.50
M 50x2.0	2.00	48.00
M 50x3.0	3.00	47.00
M 52x1.5	1.50	50.50
M 52x2.0	2.00	50.00
M 52x3.0	3.00	49.00
M 52x4.0	4.00	48.00
M 55x1.5	1.50	53.50
M 55x2.0	2.00	53.00
M 55x3.0	3.00	52.00
M 55x4.0	4.00	51.00
M 56x1.5	1.50	54.50
M 56x2.0	2.00	54.00
M 56x3.0	3.00	53.00
M 56x4.0	4.00	52.00
M 58x1.5	1.50	56.50
M 58x2.0	2.00	56.00
M 58x3.0	3.00	55.00
M 58x4.0	4.00	54.00
M 60x1.5	1.50	58.50
M 60x2.0	2.00	58.00
M 60x3.0	3.00	57.00
M 60x4.0	4.00	56.00
M 62x1.5	1.50	60.50
M 62x2.0	2.00	60.00

Size - Nominal Diameter (mm)	Pitch¹⁾ (mm)	Tap Drill (mm)
M 62x3.0	3.00	59.00
M 62x4.0	4.00	58.00
M 64x1.5	1.50	62.50
M 64x2.0	2.00	62.00
M 64x3.0	3.00	61.00
M 64x4.0	4.00	60.00
M 65x1.5	1.50	63.50
M 65x2.0	2.00	63.00
M 65x3.0	3.00	62.00
M 65x4.0	4.00	61.00
M 68x1.5	1.50	66.50
M 68x2.0	2.00	66.00
M 68x3.0	3.00	65.00
M 68x4.0	4.00	64.00
M 70x1.5	1.50	68.50
M 70x2.0	2.00	68.00
M 70x3.0	3.00	67.00
M 70x4.0	4.00	66.00
M 70x6.0	6.00	64.00
M 72x1.5	1.50	70.50
M 72x2.0	2.00	70.00
M 72x3.0	3.00	69.00
M 72x4.0	4.00	68.00
M 72x6.0	6.00	66.00
M 75x1.5	1.50	73.50
M 75x2.0	2.00	73.00
M 75x3.0	3.00	72.00
M 75x4.0	4.00	71.00
M 75x6.0	6.00	69.00
M 76x1.5	1.50	74.50
M 76x2.0	2.00	74.00
M 76x3.0	3.00	73.00
M 76x4.0	4.00	72.00
M 76x6.0	6.00	70.00
M 80x1.5	1.50	78.50
M 80x2.0	2.00	78.00
M 80x3.0	3.00	77.00
M 80x4.0	4.00	76.00
M 80x6.0	6.00	74.00

Size - Nominal Diameter (mm)	Pitch' (mm)	Tap Drill (mm)
M 85x2.0	2.00	83.00
M 85x3.0	3.00	82.00
M 85x4.0	4.00	81.00
M 85x6.0	6.00	79.00
M 90x2.0	2.00	88.00
M 90x3.0	3.00	87.00
M 90x4.0	4.00	86.00
M 90x6.0	6.00	84.00
M 95x2.0	2.00	93.00
M 95x3.0	3.00	92.00
M 95x4.0	4.00	91.00
M 95x6.0	6.00	89.00
M 100x2.0	2.00	98.00
M 100x3.0	3.00	97.00
M 100x4.0	4.00	96.00
M 100x6.0	6.00	94.00

BSF Thread Sizes

Diameter	O.Diameter	Core	Pitch	Depth	Radius	Effective	T.P.I.
3/16	0.1875	0.1475	0.0312	0.0200	0.0046	0.1675	32
7/32	0.2188	0.1730	0.0357	0.0229	0.0049	0.1958	28
1/4	0.2500	0.2008	0.0385	0.0246	0.0053	0.2254	26
5/16	0.3125	0.2543	0.0454	0.0291	0.0062	0.2834	22
3/8	0.3750	0.3110	0.0500	0.0320	0.0069	0.3430	20
7/16	0.4375	0.3663	0.0555	0.0356	0.0076	0.4019	18
1/2	0.5000	0.4200	0.0625	0.0400	0.0086	0.4600	16
9/16	0.5625	0.4825	0.0625	0.0400	0.0086	0.5225	16
5/8	0.6250	0.5336	0.0714	0.0457	0.0098	0.5793	14
3/4	0.7500	0.6432	0.0833	0.0534	0.0114	0.6966	12
7/8	0.8750	0.7586	0.0909	0.0582	0.0125	0.8168	11
1	1.0000	0.8720	0.1000	0.0640	0.0137	0.9360	10
1 1/8	1.1250	0.9828	0.1111	0.0711	0.0153	1.0539	9
1 1/4	1.2500	1.1078	0.1111	0.0711	0.0153	1.1789	9
1 3/8	1.3750	1.2150	0.1250	0.0800	0.0172	1.2950	8
1 1/2	1.5000	1.3400	0.1250	0.0800	0.0172	1.4200	8
1 5/8	1.6250	1.4649	0.1250	0.0800	0.0172	1.5450	8
1 3/4	1.7500	1.5670	0.1429	0.0915	0.0196	1.6585	7
2	2.0000	1.8170	0.1429	0.0915	0.0196	1.9085	7
2 1/4	2.2500	2.0366	0.1666	0.1067	0.0229	2.1433	6
2 1/2	2.5000	2.2866	0.1666	0.1067	0.0229	2.3933	6
2 3/4	2.7500	2.5366	0.1666	0.1067	0.0229	2.6433	6
3	3.0000	2.7439	0.2000	0.1280	0.0275	2.8719	5

BSC-CEI Threads

OD	Decimal	TPI	Pitch	Core Dia	Thread Depth	Radius	Hex A/Flats	Head Depth	Washer Face Dia	Standard Nut Depth	Lock Nut Depth	Tapping Size	MM	Letter or Number
17 swg RH	0.056	56	0.0179	0.0370	0.0095	0.0030						0.039	1	61
		or	-	-	-							-	-	
		62	0.0161	0.0388	0.0086							0.042	1.1	57
16 swg RH	0.064	56	0.0179	0.0388	0.0095	0.0030						0.0390	1	61
		or	-	-	-							-	-	
		62	0.0161	0.0468	0.0086							0.0469	1.2	3/64
15 swg RH	0.072	56	0.0179	0.0545	0.0095	0.0030						0.0550	1.4	54
		or	-	-	-							-	-	
		62	0.0161	0.0598	0.0086							0.0625	1.6	1/16
14 swg RH	0.080	56	0.0179	0.061	0.0095	0.0030						0.0630	1.6	1/16
		or	-	-	-							-	-	
		62	0.0161	0.0628	0.0086							0.0630	1.6	52
13 swg RH	0.092	56	0.0179	0.0730	0.0095	0.0030						0.0748	1.9	48
12 swg RH	0.104	44	0.0227	0.0798	0.0095	0.0030						0.081	2.1	46
11 swg RH	0.116	44	0.0227	0.0945	0.0121	0.0030						0.096	2.5	41
1/8 RH	0.125	40	0.0250	0.0984	0.0133	0.0041						0.0995	2.5	39
10 swg RH	0.1280	44	0.0227	0.1039	0.0121	0.0038						0.1063	2.7	36
9 swg RH	0.144	40	0.0250	0.1147	0.0133	0.0041						0.1160	3.0	32
5/32 RH	0.1562	32	0.0312	0.1231	0.0166	0.0052						0.1285	3.2	30
8 swg RH	0.160	40	0.0250	0.1334	0.0133	0.0041						0.1360	3.5	29
7 swg RH	0.1766	32	0.0312	0.1434	0.0166	0.0052						0.1440	3.7	27

OD	Decimal	TPI	Pitch	Core Dia	Thread Depth	Radius	Hex A/Flats	Head Depth	Washer Face Dia	Standard Nut Depth	Lock Nut Depth	Tapping Size	MM	Letter or Number
3/16 RH	0.1875	32	0.0312	0.1543	0.0166	0.0052	0.338					0.1562	4.0	5/32
7/32 RH	0.2188	26	0.0385	0.1778	0.0205	0.0064						0.1800	4.6	15
1/4 RH	0.250	26	0.0385	0.2091	0.0205	0.0064	0.445	0.176	0.428	0.200	0.185	0.213	5.4	3
17/64 RH	0.2656	26	0.0385	0.2246	0.0205	0.0064						0.2280	5.8	1
9/32 RH	0.2813	26	0.0385	0.2403	0.0205	0.0064						0.2420	6.2	C
5/16 RH	0.3125	26	0.0385	0.2715	0.0205	0.0064	0.525	0.218	0.508	0.250	0.210	0.275	7	J
3/8 RH	0.375	26	0.0385	0.3340	0.0205	0.0064	0.600	0.260	0.582	0.312	0.260	0.3390	8.6	R
7/16 RH	0.4375	26	0.0385	0.3965	0.0205	0.0064	0.710	0.302	0.690	0.375	0.275	0.3970	10.1	X
7/16 RH	0.4375	20	0.0500	0.3843	0.0266	0.0083	0.710	0.302	0.690	0.375	0.275	0.386	9.8	W
1/2 RH	0.500	26	0.0385	0.4590	0.0205	0.0064	0.820	0.343	0.800	0.437	0.300	0.4688	11.7	15/32
1/2 RH	0.500	20	0.0500	0.4468	0.0266	0.0083	0.820	0.343	0.800	0.437	0.300	0.4528	11.5	29/64
9/16 RH	0.5625	26	0.0385	0.5215	0.0205	0.0064	0.900	0.375	0.900	0.500	0.333	0.5313	13.3	17/32
9/16 RH	0.5625	20	0.0500	0.5093	0.0266	0.0083	0.900	0.375	0.900	0.500	0.333	0.5118	13.0	33/64
5/8 RH	0.625	26	0.0385	0.5840	0.0205	0.0064	1.010	0.417	0.985	0.562	0.375	0.5905	15.0	19/32
5/8 RH	0.625	20	0.0500	0.5718	0.0266	0.0083	1.010	0.417	0.985	0.562	0.375	0.578	14.6	37/64
11/16 RH	0.6875	26	0.0385	0.6465	0.0205	0.0064						0.6496	16.5	21/32
11/16 RH	0.6875	20	0.0500	0.6343	0.0266	0.0083						0.6406	16.2	41/64
3/4 RH	0.750	26	0.0385	0.7091	0.0205	0.0064	1.200	0.500	1.175	0.687	0.458	0.712	18.1	23/32
3/4 RH	0.750	20	0.0500	0.6968	0.0266	0.0083	1.200	0.500	1.175	0.687	0.458	0.7031	17.7	45/64
7/8 RH	0.875	24	0.0417	0.8306	0.0222	0.0070	1.300	0.583	1.273	0.750	0.500	0.8370	21.1	27/32
31/32 RH	0.9688	30	0.0333	0.9332	0.0178	0.0055						0.937	23.8	15/16
1 inch RH	1.000	24 - 26	0.0417 - 0.0385	0.9556 - 0.9590	0.0222 - 0.0205	0.0070 - 0.0064	1.480	0.666 - 0.666	1.453	0.875	0.583	0.9688	24.3 - 24.4	31/32
1 - 1/8 RH	1.125	26	0.0385	1.0840	0.0205	0.0064	1.670	0.750	1.620	1.000	0.666	1.0937	27.6	1 - 3/32

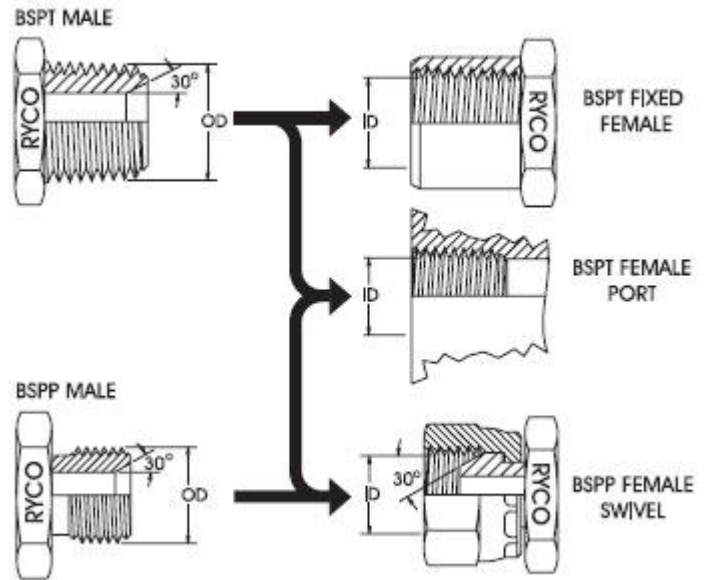
OD	Decimal	TPI	Pitch	Core Dia	Thread Depth	Radius	Hex A/Flats	Head Depth	Washer Face Dia	Standard Nut Depth	Lock Nut Depth	Tapping Size	MM	Letter or Number
1.29 LH	1.290	24	0.0417	1.2456	0.0222	0.0070						1.250	31.7	1 - 1/4
1 - 3/8 RH	1.370	24	0.0417	1.3256	0.0222	0.0070	2.050	0.920	1.985	1.250	0.833	1.3281	33.7	1 - 21/64
1 - 3/8 LH	1.370	24	0.0417	1.3256	0.0222	0.0070	2.050	0.920	1.985	1.250	0.833	1.3281	33.7	1 - 21.64
1.45 RH	1.450	26	0.0385	1.4090	0.0205	0.0064	2.220	1.000	2.155	1.375	0.916	1.4218	35.8	1 - 27/64
1.45 LH	1.450	26	0.0385	1.4090	0.0205	0.0064	2.220	1.000	2.155	1.375	0.916	1.4218	35.8	1 - 27/64
1 - 9/16 LH	1.562	24	0.0417	1.5176	0.0222	0.0070						1.5312	38.6	1 - 17/32
1 - 5/8 RH	1.625	24	0.0417	1.5806	0.0222	0.0070						1.5937	38.4	1 - 19/32

BSPT & BSPP threads

BSP is BRITISH STANDARD PIPE
 BSPT is BRITISH STANDARD PIPE TAPER
 BSPP is BRITISH STANDARD PIPE PARALLEL

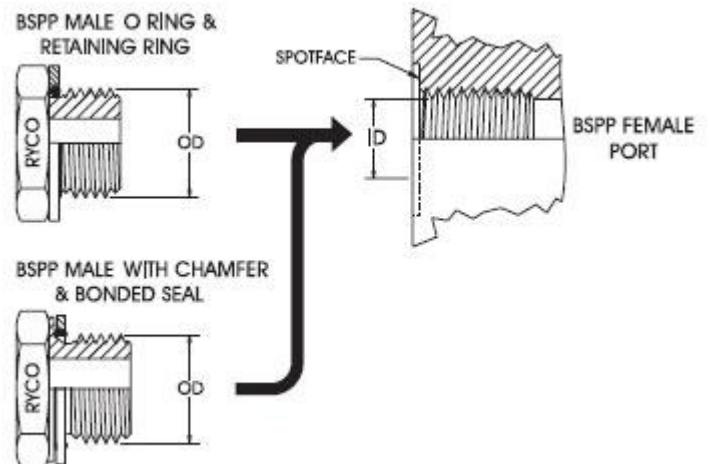
Also known as Whitworth 55° Thread Form
 Thread form per AS 1722.1, BS 21, ISO 7
 Thread form per AS 1722.2, ISO 228

BSPT male threads seal against threads of fixed BSPT female.
 Contact is made on the flanks of the threads.
 Use of a thread sealant is recommended for BSPT male to BSPT female connections.
 Measure the BSPT male thread OD and female thread ID at the first full thread near the end of the fitting.



BSPT male and BSPP male with conical 30° seat (60° included angle) seal against matching conical 30° seat of BSPP female swivel.

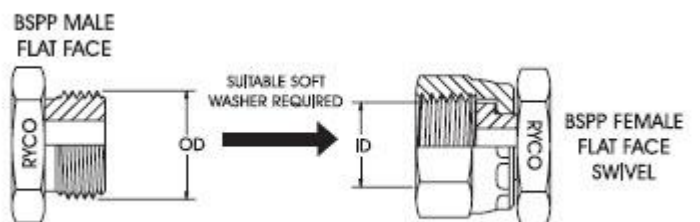
BSPP O Ring male connector has straight threads and O Ring with metal Retaining Ring. It seals against flat external surface of BSPP female port.



BSPP male, with chamfer to locate Bonded Seal also seals against flat external surface of BSPP female port.

Surface irregularities require a Spot Face to ensure effective sealing. Elbows and tees have Lock Nut to allow orientation of fitting to required direction.

BSPP male and BSPP female flat face swivel require a suitable soft washer between faces to seal.



For low working pressure.

Thread Charts

Trade Size	Threads per inch	Pitch		Major Diameter		Minor Diameter		Gage Length	
		Inch	mm	Inch	mm	Inch	Mm	Inch	mm
1/8	28	0.0357	0.907	0.3830	9.728	0.3372	8.565	0.1563	3.97
1/4	19	0.0526	1.337	0.5180	13.157	0.4506	11.445	0.2367	6.012
3/8	19	0.0526	1.337	0.6560	16.662	0.5886	14.95	0.25	6.35
1/2	14	0.0714	1.814	0.8250	20.955	0.7336	18.633	0.3214	8.164
3/4	14	0.0714	1.814	1.0410	26.441	0.9496	24.12	0.3750	9.525
1	11	0.0909	2.309	1.3090	33.249	1.1926	30.292	0.4091	10.391
1 ¼	11	0.0909	2.309	1.65	41.91	1.5336	38.953	0.5	12.7
1 ½	11	0.0909	2.309	1.8820	47.803	1.7656	44.846	0.5	12.7
2	11	0.0909	2.309	2.347	59.614	2.2306	56.657	0.6250	15.875
2 ½	11	0.0909	2.309	2.96	75.184	2.8436	72.227	0.6875	17.463
3	11	0.0909	2.309	3.46	87.884	3.3436	84.927	0.8125	20.638
4	11	0.0909	2.309	4.45	113.03	4.3336	110.073		

NPT

NPT stands for National Pipe Thread and is an American standard thread. It may also be referred to as MPT, MNPT or NPT (M) for male external threads and FPT, FNPT or NPT(F) for female internal threads. A thread sealant must always be used to achieve a leak free seal (except for NPTF). It is also based on Trade Size rather than actual diameter (similar to BSP in this regard).

Both threads have the same pitch, angle (60 degrees) and shape (flat peaks and valleys).

Trade Size	Threads per inch	Pitch		Major Diameter (O.D)	
		Inch	mm	Inch	mm
1/8	27	0.03704	0.94082	0.405	10.29
1/4	18	0.05556	1.41122	0.540	13.72
3/8	18	0.05556	1.41122	0.675	17.15
1/2	14	0.07143	1.81432	0.840	21.34
3/4	14	0.07143	1.81432	1.050	26.67
1	11 ½	0.08696	2.20878	1.315	33.40
1 ¼	11 ½	0.08696	2.20878	1.660	42.16
1 ½	11 ½	0.08696	2.20878	1.900	48.26
2	11 ½	0.08696	2.20878	2.375	60.33
2 ½	8	0.12500	3.17500	2.875	73.03
3	8	0.12500	3.17500	3.500	88.90
4	8	0.12500	3.17500	4.500	114.30

BSP vs NPT

NPT threads are common in the United States and a few other countries, BSP threads are widely used in many other countries.

- BSPT -British Standard Pipe Taper
- BSPP -British Standard Pipe Parallel
- NPT -National Pipe Taper
- NPS -National Pipe Straight

While the actual specified outside diameters of American National Pipe differ slightly from those of British Standard Pipe, either thread may reliably be cut onto a pipe of its respective trade size. BSPT equivalent is NPT and BSPP's equivalent is NPS.

Never swap threads if it is a high pressure application.

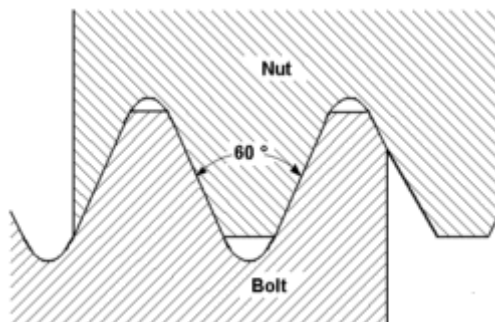
NPT/NPS and BSP threads are not compatible due to the differences in their thread forms, and not just the fact that most sizes have a different pitch. NPT/NPS threads have a 60° angle and have flattened peaks and valleys (Sellers thread form) where as BSP threads have a 55° angle and have rounded peaks and valleys (Whitworth thread form).

NPT and BSP thread pitches (threads per inch) are listed below. To determine pitch, use a thread gauge or count the number of threads that fall into a 1" span.

Trade Size	Pitch (Threads per Inch)	
	NPT/NPS	BSP
1/8	27	28
1/4	18	19
3/8	18	19
1/2	14	14
3/4	14	14
1	11 1/2	11
1 1/4	11 1/2	11
1 1/2	11 1/2	11
2	11 1/2	11
2 1/2	8	11
3	8	11
3 1/2	8	11
4	8	11
5	8	11
6	8	11

SCREW THREAD DATA CHARTS

UNEF Screw Threads per ANSI B1.1



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UNEF Screw Threads per ANSI B1.1

UNEF = Unified National Extra Fine.

This is one of three graded series: UNC (Unified National Coarse); UNF (Unified National Fine); and UNEF (Unified National Extra Fine). The Nominal Major Diameter and Threads-per-inch (Pitch) are defined by ANSI/ASME B1.1 and are the choices for the customary Unified screws and nuts.

Nominal Diameter	Major Diameter Inch	Major Diameter mm	Tapping Drill Size mm	TPI	Pitch mm
#12 - 32 UNEF	0.2160	5.486	4.80	32	0.794
1/4" - 32 UNEF	0.2500	6.350	5.70	32	0.794
5/16" - 32 UNEF	0.3125	7.938	7.25	32	0.794
3/8" - 32 UNEF	0.3750	9.525	8.85	32	0.794
7/16" - 28 UNEF	0.4375	11.112	10.35	28	0.907
1/2" - 28 UNEF	0.5000	12.700	11.80	28	0.907
9/16" - 24 UNEF	0.5625	14.288	13.40	24	1.058
5/8" - 24 UNEF	0.6250	15.875	15.00	24	1.058
11/16" - 24 UNEF	0.6875	17.462	16.60	24	1.058
3/4" - 20 UNEF	0.7500	19.050	18.00	20	1.270
13/16" - 20 UNEF	0.8125	20.638	19.60	20	1.270
7/8" - 20 UNEF	0.8750	22.225	21.15	20	1.270
15/16" - 20 UNEF	0.9375	23.812	22.70	20	1.270

1" - 20 UNEF	1.0000	25.400	24.30	20	1.270
1-1/16" - 18 UNEF	1.0625	26.988	25.80	18	1.411
1-1/8" - 18 UNEF	1.1250	28.575	27.35	18	1.411
1-1/4" - 18 UNEF	1.2500	31.750	30.55	18	1.411
1-5/16" - 18 UNEF	1.3125	33.338	32.10	18	1.411
1-3/8" - 18 UNEF	1.3750	34.925	33.70	18	1.411
1-7/16" - 18 UNEF	1.4375	36.512	35.30	18	1.411
1-1/2" - 18 UNEF	1.5000	38.100	36.90	18	1.411
1-9/16" - 18 UNEF	1.5625	39.688	38.55	18	1.411
1-5/8" - 18 UNEF	1.6250	41.275	40.10	18	1.411
1-11/16" - 18 UNEF	1.6875	42.862	41.60	18	1.411
UNEF Screw Thread					

UNS - Unified Special Thread Series, which is used for special purposes.
Thread angle is 60°.

Nominal Diameter	Major Diameter Inch	Major Diameter mm	Tapping Drill Size mm	TPI	Pitch mm
10 - 28 UNS	0.1900	4.826	3.95	28	0.907
10 - 36 UNS	0.1900	4.826	4.15	36	0.706
10 - 40 UNS	0.1900	4.826	4.20	40	0.635
10 - 48 UNS	0.1900	4.826	4.35	48	0.529
10 - 56 UNS	0.1900	4.826	4.39	56	0.454
12 - 36 UNS	0.2160	5.486	4.80	36	0.706
12 - 40 UNS	0.2160	5.486	4.90	40	0.635
12 - 48 UNS	0.2160	5.486	4.98	48	0.529
12 - 56 UNS	0.2160	5.486	5.05	56	0.454
1/4" - 24 UNS	0.2500	6.350	5.35	24	1.058
1/4" - 27 UNS	0.2500	6.350	5.45	27	0.941
1/4" - 36 UNS	0.2500	6.350	5.70	36	0.706
1/4" - 40 UNS	0.2500	6.350	5.75	40	0.635
1/4" - 48 UNS	0.2500	6.350	5.85	48	0.529
1/4" - 56 UNS	0.2500	6.350	5.95	56	0.454
5/16" - 27 UNS	0.3125	7.938	7.10	27	0.941
5/16" - 36 UNS	0.3125	7.938	7.25	36	0.706
5/16" - 40 UNS	0.3125	7.938	7.40	40	0.635
5/16" - 48 UNS	0.3125	7.938	7.50	48	0.529
3/8" - 18 UNS	0.3750	9.525	8.20	18	1.411
3/8" - 27 UNS	0.3750	9.525	8.70	27	0.941

3/8" - 36 UNS	0.3750	9.525	8.90	36	0.706
3/8" - 40 UNS	0.3750	9.525	9.00	40	0.635
0,390" - 27 UNS	0.3900	9.906	9.00	27	0.941
7/16" - 18 UNS	0.4375	11.112	9.75	18	1.411
7/16" - 24 UNS	0.4375	11.112	10.10	24	1.058
7/16" - 27 UNS	0.4375	11.112	10.20	27	0.941
1/2" - 12 UNS	0.5000	12.700	10.75	12	2.117
1/2" - 14 UNS	0.5000	12.700	11.00	14	1.814
1/2" - 18 UNS	0.5000	12.700	11.40	18	1.411
1/2" - 24 UNS	0.5000	12.700	11.70	24	1.058
1/2" - 27 UNS	0.5000	12.700	11.85	27	0.941
9/16" - 14 UNS	0.5625	14.288	12.60	14	1.814
9/16" - 27 UNS	0.5625	14.288	13.40	27	0.941
5/8" - 14 UNS	0.6250	15.875	14.20	14	1.814
5/8" - 27 UNS	0.6250	15.875	15.00	27	0.941
3/4" - 14 UNS	0.7500	19.050	17.40	14	1.814
3/4" - 18 UNS	0.7500	19.050	17.75	18	1.411
3/4" - 24 UNS	0.7500	19.050	18.10	24	1.058
3/4" - 27 UNS	0.7500	19.050	18.20	27	0.941
7/8" - 10 UNS	0.8750	22.225	19.75	10	2.540
7/8" - 18 UNS	0.8750	22.225	21.00	18	1.411
7/8" - 24 UNS	0.8750	22.225	21.20	24	1.058
7/8" - 27 UNS	0.8750	22.225	21.40	27	0.941
1" - 10 UNS	1.0000	25.400	23.00	10	2.540
1" - 14 UNS	1.0000	25.400	23.75	14	1.814
1" - 18 UNS	1.0000	25.400	24.25	18	1.411
1" - 24 UNS	1.0000	25.400	24.50	24	1.058
1" - 27 UNS	1.0000	25.400	24.50	27	0.941
1 1/8" - 10 UNS	1.1250	28.575	26.25	10	2.540
1 1/8" - 14 UNS	1.1250	28.575	27.00	14	1.814
1 1/8" - 24 UNS	1.1250	28.575	27.75	24	1.058
1 1/4" - 10 UNS	1.2500	31.750	29.50	10	2.540
1 1/4" - 14 UNS	1.2500	31.750	30.00	14	1.814
1 1/4" - 24 UNS	1.2500	31.750	30.75	24	1.058
1 3/8" - 10 UNS	1.3750	34.925	32.60	10	2.540
1 3/8" - 14 UNS	1.3750	34.925	33.30	14	1.814
1 1/2" - 10 UNS	1.5000	38.100	35.70	10	2.540
1 1/2" - 14 UNS	1.5000	38.100	36.50	14	1.814
1 1/2" - 24 UNS	1.5000	38.100	37.30	24	1.058
1 5/8" - 10 UNS	1.6250	41.275	39.00	10	2.540
1 5/8" - 14 UNS	1.6250	41.275	39.50	14	1.814
1 5/8" - 24 UNS	1.6250	41.275	40.35	24	1.058
1 3/4" - 10 UNS	1.7500	44.450	42.00	10	2.540
1 3/4" - 14 UNS	1.7500	44.450	42.85	14	1.814
1 3/4" - 18 UNS	1.7500	44.450	43.25	18	1.411
1 7/8" - 10 UNS	1.8750	47.625	45.30	10	2.540
1 7/8" - 14 UNS	1.8750	47.625	46.00	14	1.814
1 7/8" - 18 UNS	1.8750	47.625	46.35	18	1.411
2" - 10 UNS	2.0000	50.800	48.40	10	2.540
2" - 14 UNS	2.0000	50.800	49.25	14	1.814
2" - 18 UNS	2.0000	50.800	49.50	18	1.411
2 1/16" - 16 UNS	2.0625	52.387	51.00	16	1.587
2 3/16" - 16 UNS	2.1875	55.563	54.10	16	1.587
2 1/4" - 10 UNS	2.2500	57.150	54.75	10	2.540
2 1/4" - 14 UNS	2.2500	57.150	55.50	14	1.814
2 1/4" - 18 UNS	2.2500	57.150	55.75	18	1.411

2 5/16" - 16 UNS	2.3125	58.737	57.30	16	1.587
2 7/16" - 16 UNS	2.4375	61.912	60.50	16	1.587
2 1/2" - 10 UNS	2.5000	63.500	61.20	10	2.540
2 1/2" - 14 UNS	2.5000	63.500	61.75	14	1.814
2 1/2" - 18 UNS	2.5000	63.500	62.30	18	1.411
2 3/4" - 10 UNS	2.7500	69.850	67.50	10	2.540
2 3/4" - 14 UNS	2.7500	69.850	68.25	14	1.814
2 3/4" - 18 UNS	2.7500	69.850	68.50	18	1.411
3" - 10 UNS	3.0000	76.200	73.80	10	2.540
3" - 14 UNS	3.0000	76.200	74.50	14	1.814
3" - 18 UNS	3.0000	76.200	75.00	18	1.411
3 1/4" - 10 UNS	3.2500	82.550	80.25	10	2.540
3 1/4" - 14 UNS	3.2500	82.550	81.00	14	1.814
3 1/4" - 18 UNS	3.2500	82.550	81.25	18	1.411
3 1/2" - 10 UNS	3.5000	88.900	86.55	10	2.540
3 1/2" - 14 UNS	3.5000	88.900	87.25	14	1.814
3 1/2" - 18 UNS	3.5000	88.900	87.60	18	1.411
3 3/4" - 10 UNS	3.7500	95.250	93.00	10	2.540
3 3/4" - 14 UNS	3.7500	95.250	93.60	14	1.814
3 3/4" - 18 UNS	3.7500	95.250	94.00	18	1.411
4" - 10 UNS	4.0000	101.600	99.30	10	2.540
4" - 14 UNS	4.0000	101.600	100.00	14	1.814
4 1/4" - 10 UNS	3.2500	107.950	105.60	10	2.540
4 1/4" - 14 UNS	4.2500	107.950	106.30	14	1.814
4 1/2" - 10 UNS	4.5000	114.300	112.00	10	2.540
4 1/2" - 14 UNS	4.5000	114.300	112.65	14	1.814
4 3/4" - 10 UNS	4.7500	120.650	118.35	10	2.540
4 3/4" - 14 UNS	4.7500	120.650	119.00	14	1.814
5" - 10 UNS	5.0000	127.000	124.70	10	2.540
5" - 14 UNS	5.0000	127.000	125.35	14	1.814
5 1/4" - 10 UNS	5.2500	133.350	131.00	10	2.540
5 1/4" - 14 UNS	5.2500	133.350	131.70	14	1.814
5 1/2" - 10 UNS	5.5000	139.700	137.40	10	2.540
5 1/2" - 14 UNS	5.5000	139.700	138.00	14	1.814
5 3/4" - 10 UNS	5.7500	146.050	143.75	10	2.540
5 3/4" - 14 UNS	5.7500	146.050	144.40	14	1.814
6" - 10 UNS	6.0000	152.400	150.00	10	2.540
6" - 14 UNS	6.0000	152.400	150.75	14	1.814