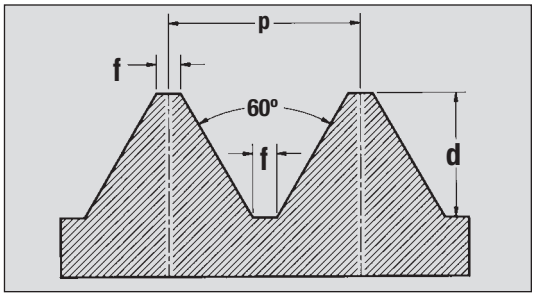
American National and Unified Coarse and Fine Thread Dimensions and Tap Drill Sizes

$p = \text{pitch} = \frac{1}{\text{No. thread per inch}}$

$d = \text{depth} = p \times .649519$

$f = \text{flat} = \frac{p}{8}$

$\text{pitch diameter} = D - \frac{.6495}{N}$



Size	Threads per inch NC UNC	Threads per inch NF UNF	Outside Diameter Inches	Pitch Diameter Inches	Root Diameter Inches	Tap Drill Approx. 75% Full Thread	Decimal Equiv. of Tap Drill
0	–	80	.0600	.0519	.0438	3/64″	.0469
1	64	–	.0730	.0629	.0527	53	.0595
1	–	72	.0730	.0640	.0550	53	.0595
2	56	–	.0860	.0744	.0628	50	.0700
2	–	64	.0860	.0759	.0657	50	.0700
3	48	–	.0990	.0855	.0719	47	.0785
3	–	56	.0990	.0874	.0758	46	.0810
4	40	–	.1120	.0958	.0795	43	.0890
4	–	48	.1120	.0985	.0849	42	.0935
5	40	–	.1250	.1088	.0925	38	.1015
5	–	44	.1250	.1102	.0955	37	.1040
6	32	–	.1380	.1177	.0974	36	.1065
6	–	40	.1380	.1218	.1055	33	.1130
8	32	–	.1640	.1437	.1234	29	.1360
8	–	36	.1640	.1460	.1279	29	.1360
10	24	–	.1900	.1629	.1359	26	.1470
10	–	32	.1900	.1697	.1494	21	.1590
12	24	–	.2160	.1889	.1619	16	.1770
12	–	28	.2160	.1928	.1696	15	.1800
1/4″	20	–	.2500	.2175	.1850	7	.2010
1/4″	–	28	.2500	.2268	.2036	3	.2130
5/16″	18	–	.3125	.2764	.2403	F	.2570
5/16″	–	24	.3125	.2854	.2584	I	.2720
3/8″	16	–	.3750	.3344	.2938	5/16″	.3125
3/8″	–	24	.3750	.3479	.3209	Q	.3320
7/16″	14	–	.4375	.3911	.3447	U	.3680
7/16″	–	20	.4375	.4050	.3726	25/64″	.3906
1/2″	13	–	.5000	.4500	.4001	27/64″	.4219
1/2″	–	20	.5000	.4675	.4351	29/64″	.4531
9/16″	12	–	.5625	.5084	.4542	31/64″	.4844
9/16″	–	18	.5625	.5264	.4903	33/64″	.5156
5/8″	11	–	.6250	.5660	.5069	17/32″	.5312
5/8″	–	18	.6250	.5889	.5528	37/64″	.5781
3/4″	10	–	.7500	.6850	.6201	21/32″	.6562
3/4″	–	16	.7500	.7094	.6688	11/16″	.6875
7/8″	9	–	.8750	.8028	.7307	49/64″	.7656
7/8″	–	14	.8750	.8286	.7822	13/16″	.8125

(Continued on next page.)

American National and Unified Coarse and Fine Thread Dimensions and Tap Drill Sizes (continued)

Size	Threads per inch		Outside Diameter Inches	Pitch Diameter Inches	Root Diameter Inches	Tap Drill Approx. 75% Full Thread	Decimal Equiv. of Tap Drill
	NC UNC	NF UNF					
1″	8	–	1.0000	.9188	.8376	7/8″	.8750
1″	–	12	1.0000	.9459	.8917	59/64″	.9219
1 1/8″	7	–	1.1250	1.0322	.9394	63/64″	.9844
1 1/8″	–	12	1.1250	1.0709	1.0168	1 3/64″	1.0469
1 1/4″	7	–	1.2500	1.1572	1.0644	1 7/64″	1.1094
1 1/4″	–	12	1.2500	1.1959	1.1418	1 11/64″	1.1719
1 3/8″	6	–	1.3750	1.2667	1.1585	1 7/32″	1.2187
1 3/8″	–	12	1.3750	1.3209	1.2668	1 19/64″	1.2969
1 1/2″	6	–	1.5000	1.3917	1.2835	1 11/32″	1.3437
1 1/2″	–	12	1.5000	1.4459	1.3918	1 27/64″	1.4219
1 3/4″	5	–	1.7500	1.6201	1.4902	1 9/16″	1.5625
2″	4 1/2	–	2.0000	1.8557	1.7113	1 25/32″	1.7812
2 1/4″	4 1/2	–	2.2500	2.1057	1.9613	2 1/32″	2.0313
2 1/2″	4 1/2	–	2.5000	2.3376	2.1752	2 1/4″	2.2500
2 3/4″	4	–	2.7500	2.5876	2.4252	2 1/2″	2.5000
3″	4	–	3.0000	2.8376	2.6752	2 3/4″	2.7500
3 1/4″	4	–	3.2500	3.0876	2.9252	3″	3.0000
3 1/2″	4	–	3.5000	3.3376	3.1752	3 1/4″	3.2500
3 3/4″	4	–	3.7500	3.5876	3.4252	3 1/2″	3.5000
4″	4	–	4.0000	3.3786	3.6752	3 3/4″	3.7500