

Note: The upper numerical values in the table are in inches. The downward numerical value is in mm.

## 一、UNC Thread Size

### External Thread Specification and Dimension Chart (Coarse Thread)

Nominal Size and Threads Per Inch	Thread Series Code	Maximum Major Diameter		Median Diameter Limit		Minor Diameter	Thread Major Diameter	
		Minimum	Maximum	minimum	Maximum		Minimum	Maximum
8-32 (0.16-32)	UNC	0.16	0.1631	0.14	0.14	0.13	3.58	3.61
		4	4.15	3.56	3.63	3.17		
10-24 (0.19-24)		0.18	0.19	0.16	0.17	0.13	4.07	4.1
		4.62	4.8	4.02	4.10	3.50		
12-24 (0.21-24)		0.20	0.21	0.18	0.18	0.16	4.72	4.75
		5.27	5.46	4.68	4.77	4.16		
1/4-20 (0.25-20)		0.24	0.25	0.21	0.21	0.19	5.45	5.48
		6.11	6.32	5.40	5.50	4.76		
5/16-18 (0.31-18)		0.30	0.31	0.26	0.27	0.24	6.94	6.98
		7.68	7.90	6.85	7.00	6.17		
3/8-16 (0.37-16)	0.36	0.37	0.33	0.33	0.29	8.40	8.44	
	9.25	9.49	8.35	8.46	7.54			
7/16-14 (0.43-14)	0.42	0.43	0.38	0.39	0.35	9.83	9.87	
	10.81	11.07	9.78	9.90	8.85			
1/2-13 (0.50-13)	0.48	0.49	0.44	0.44	0.40	11.34	11.38	
	12.38	12.66	11.26	11.40	10.26			
9/16-12 (0.56-12)	0.55	0.56	0.50	0.50	0.45	12.80	12.84	
	13.96	14.24	12.74	12.87	11.65			



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5/8-11 (0.62-11)		0.61 15.52	0.62 15.83	0.56 14.19	0.56 14.33	0.51 13.00	14.27	14.32
3/4-10 (0.75-10)		0.73 18.67	0.74 19.00	0.67 17.20	0.68 17.35	0.62 15.88	17.28	17.33
7/8-9 (0.87-9)		0.86 21.82	0.87 22.17	0.79 20.18	0.80 20.34	0.73 18.71	20.27	20.32
1"-8 (1.00-8)		0.98 24.96	0.99 25.34	0.91 23.11	0.91 23.28	0.84 21.45	23.22	23.27

Nominal Size and Threads Per Inch	Thread Series Code	Maximum Major Diameter		Median Diameter Limit		Minor Diameter	Thread Major Diameter	
		Minimum	Maximum	Minimum	Maximum		Minimum	Maximum
8-32 (0.16-32)	UNC	0.13 3.30	0.14 3.53	0.14 3.65	0.14 3.74	0.16 4.16	3.40	3.50
10-24 (0.19-24)		0.14 3.68	0.15 3.96	0.16 4.13	0.16 4.24	0.19 4.82	3.75	3.90
12-24 (0.21-24)		0.17 4.34	0.18 4.59	0.19 4.80	0.19 4.91	0.21 5.48	4.40	4.55
1/4-20 (0.25-20)		0.19 4.98	0.20 5.25	0.21 5.52	0.22 5.65	0.25 6.35	5.05	5.20
5/16-18 (0.31-18)		0.25 6.40	0.26 6.73	0.27 7.02	0.28 7.15	0.31 7.93	5.45	6.60
3/8-16 (0.37-16)		0.30 7.79	0.32 8.15	0.33 8.49	0.34 8.63	0.37 9.52	7.85	8.0



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7/16-14 (0.43-14)		0.36 9.14	0.37 9.55	0.39 9.93	0.39 10.10	0.43 11.11	9.2	9.40
1/2-13 (0.50-13)		0.41 10.59	0.43 11.02	0.45 11.43	0.45 11.59	0.50 12.70	10.6	10.9
9/16-12 (0.56-12)		0.47 11.99	0.49 12.44	0.50 12.91	0.50 12.91	0.56 14.28	12.05	12.3
5/8-11 (0.62-11)		0.52 13.38	0.54 13.86	0.56 14.37	0.57 14.56	0.62 15.87	13.45	13.7
3/4-10 (0.75-10)		0.64 16.30	0.66 16.84	0.68 17.39	0.69 17.59	0.75 19.05	16.4	16.7
7/8-9 (0.87-9)		0.75 19.17	0.77 19.76	0.80 20.39	0.81 20.59	0.87 22.22	19.3	19.6
1"-8 (1.00-8)		0.86 21.97	0.89 22.60	0.92 23.33	0.92 23.56	125.4	22.1	22.4

## 一、UNF Thread Size

### External Thread Specification and Size Chart (Fine Thread)

Nominal Size and Threads Per Inch	Thread Series Code	Maximum Major Diameter		Median Diameter Limit		Minor Diameter	Thread Major Diameter	
		Minimum	Maximum	Minimum	Maximum		Minimum	Maximum
8-36 (0.	UNF	0.15 4.00	0.16 24.14	0.14 3.61	0.14 3.68	0.13 3.28	3.65	3.67



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16-36)							
10-32 (0.19-32 )	0.18 4.65	0.19 4.80	0.16 4.21	0.16 4.28	0.15 3.83	4.24	4.27
12-28 (0. 21-28)	0.20 5.29	0.21 5.46	0.18 4.79	0.19 4.87	0.17 4.34	4.82	4.85
1/4-28 (0. 25-28)	0.24 6.16	0.25 6.32	0.22 5.65	0.22 5.73	0.20 5.21	5.69	5.71
5/16-24 (0.31-24 )	0.30 7.72	0.31 7.91	0.28 7.12	0.28 7.22	0.26 6.61	7.17	7.20
3/8-24 (0.37-24 )	0.36 9.31	0.37 9.49	0.34 8.71	0.34 8.80	0.32 8.19	8.75	8.78
7/16-20 (0.43-20 )	0.42 10.87	0.43 11.08	0.40 10.14	0.40 10.25	0.37 9.52	10.19	10.23
1/2-20 (0.50-20 )	0.49 12.46	0.49 12.66	0.46 11.73	0.46 11.84	0.43 11.11	11.78	11.82
9/16-18 (0.56-18 )	0.55 14.03	0.56 14.25	0.520513. 2207	0.52 13.33	0.49 12.52	13.27	13.31



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5/8-18 (0.62-18)		0.61 15.61	0.62 15.83	0.582814.803 1	0.58 14.92	0.55 14.10	14.85	14.89
3/4-16 (0.75-16)		0.73 18.77	0.74 19.01	0.70 17.85	0.70 17.98	0.67 17.06	17.91	17.95
7/8-14 (0.87-14)		0.86 21.92	0.87 22.18	0.82 20.86	0.82 21.00	0.78 19.96	20.93	20.97
1"-12 (1.00-12)		0.98 25.06	0.99 25.35	0.93 23.83	0.94 23.98	0.89 22.75	23.9	23.95

**Internal Thread Specification and Dimension Table (Fine Thread)**

Nominal Size and Threads Per Inch	Thread Series Code	Maximum Major Diameter		Median Diameter Limit		Minor Diameter	Thread Major Diameter	
		Minimum	Maximum	Minimum	Maximum		Minimum	Maximum
8-36 (0.16-36)	UNF	0.13 3.40	0.14 3.60	0.14 3.70	0.15 3.80	0.16 4.16	3.45	3.67
10-32 (0.19-32)		0.15 3.96	0.16 4.16	0.17 4.31	0.17 4.41	0.19 4.82	4.00	4.27
12-28 (0.21-28)		0.17 4.49	0.18 4.72	0.19 4.89	0.19 5.00	0.21 5.48	4.55	4.85



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1/4-28 (0.25-28)	0.21 5.35	0.22 5.58	0.22 5.76	0.23 5.87	0.25 6.35	5.40	5.71
5/16-24 (0.31-24)	0.26 6.78	0.27 7.03	0.28 7.25	0.29 7.37	0.31 7.93	6.85	7.20
3/8-24 (0.37-24)	0.33 8.38	0.34 8.63	0.34 8.83	0.35 8.96	0.37 9.52	8.45	8.78
7/16-20 (0.43-20)	0.38 9.72	0.39 10.03	0.40 10.28	0.41 10.42	0.43 11.11	9.85	10.23
1/2-20 (0.50-20)	0.44 11.32	0.45 11.60	0.46 11.87	0.47 12.01	0.50 12.70	11.4	11.82
9/16-18 (0.56-18)	0.50 12.75	0.51 13.08	0.52 13.37	0.53 13.52	0.56 14.28	12.85	13.31
5/8-18 (0.62-18)	0.56 14.35	0.57 14.68	0.59 14.95	0.59 15.11	0.62 15.87	14.45	14.89
3/4-16 (0.75-16)	0.68 17.32	0.69 17.67	0.70 18.01	0.71 18.18	0.75 19.05	17.4	17.95
7/8-14 (0.87-14)	0.79 20.26	0.81 20.67	0.82 21.04	0.83 21.22	0.87 22.22	20.35	20.97
1"-12 (1.00-12)	0.910023. 1140	0.92 23.57	0.94 24.02	0.95 24.21	1.00 25.40	23.9	23.95