What is an NPT Size Chart?

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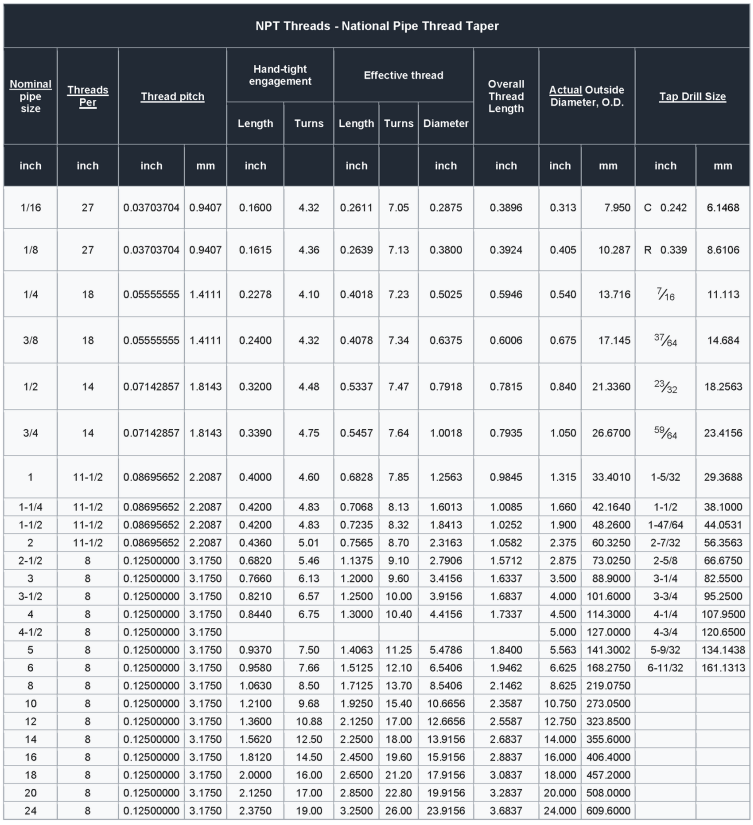

NPT Threads - National Pipe Thread Taper

Nominal pipe size	Threads Per	Thread pitch		Hand-tight engagement		Effective thread			Overall Thread Length	Actual Outside Diameter, O.D.		Tap Drill Size	
				Length	Turns	Length	Turns	Diameter					
inch	inch	inch	mm	inch		inch		inch	inch	inch	mm	inch	mm
1/16	27	0.03703704	0.9407	0.1600	4.32	0.2611	7.05	0.2875	0.3896	0.313	7.950	C 0.242	6.1468
1/8	27	0.03703704	0.9407	0.1615	4.36	0.2639	7.13	0.3800	0.3924	0.405	10.287	R 0.339	8.6106
1/4	18	0.05555555	1.4111	0.2278	4.10	0.4018	7.23	0.5025	0.5946	0.540	13.716	7/16	11.113
3/8	18	0.05555555	1.4111	0.2400	4.32	0.4078	7.34	0.6375	0.6006	0.675	17.145	37/64	14.684
1/2	14	0.07142857	1.8143	0.3200	4.48	0.5337	7.47	0.7918	0.7815	0.840	21.3360	23/32	18.2563
3/4	14	0.07142857	1.8143	0.3390	4.75	0.5457	7.64	1.0018	0.7935	1.050	26.6700	59/64	23.4156
1	11-1/2	0.08695652	2.2087	0.4000	4.60	0.6828	7.85	1.2563	0.9845	1.315	33.4010	1-5/32	29.3688
1-1/4	11-1/2	0.08695652	2.2087	0.4200	4.83	0.7068	8.13	1.6013	1.0085	1.660	42.1640	1-1/2	38.1000
1-1/2	11-1/2	0.08695652	2.2087	0.4200	4.83	0.7235	8.32	1.8413	1.0252	1.900	48.2600	1-47/64	44.0531
2	11-1/2	0.08695652	2.2087	0.4360	5.01	0.7565	8.70	2.3163	1.0582	2.375	60.3250	2-7/32	56.3563
2-1/2	8	0.12500000	3.1750	0.6820	5.46	1.1375	9.10	2.7906	1.5712	2.875	73.0250	2-5/8	66.6750
3	8	0.12500000	3.1750	0.7660	6.13	1.2000	9.60	3.4156	1.6337	3.500	88.9000	3-1/4	82.5500
3-1/2	8	0.12500000	3.1750	0.8210	6.57	1.2500	10.00	3.9156	1.6837	4.000	101.6000	3-3/4	95.2500
4	8	0.12500000	3.1750	0.8440	6.75	1.3000	10.40	4.4156	1.7337	4.500	114.3000	4-1/4	107.9500
4-1/2	8	0.12500000	3.1750							5.000	127.0000	4-3/4	120.6500
5	8	0.12500000	3.1750	0.9370	7.50	1.4063	11.25	5.4786	1.8400	5.563	141.3002	5-9/32	134.1438
6	8	0.12500000	3.1750	0.9580	7.66	1.5125	12.10	6.5406	1.9462	6.625	168.2750	6-11/32	161.1313
8	8	0.12500000	3.1750	1.0630	8.50	1.7125	13.70	8.5406	2.1462	8.625	219.0750		
10	8	0.12500000	3.1750	1.2100	9.68	1.9250	15.40	10.6656	2.3587	10.750	273.0500		
12	8	0.12500000	3.1750	1.3600	10.88	2.1250	17.00	12.6656	2.5587	12.750	323.8500		
14	8	0.12500000	3.1750	1.5620	12.50	2.2500	18.00	13.9156	2.6837	14.000	355.6000		
16	8	0.12500000	3.1750	1.8120	14.50	2.4500	19.60	15.9156	2.8837	16.000	406.4000		
18	8	0.12500000	3.1750	2.0000	16.00	2.6500	21.20	17.9156	3.0837	18.000	457.2000		
20	8	0.12500000	3.1750	2.1250	17.00	2.8500	22.80	19.9156	3.2837	20.000	508.0000		
24	8	0.12500000	3.1750	2.3750	19.00	3.2500	26.00	23.9156	3.6837	24.000	609.6000		

Printing & Usage Overview

An NPT size chart is a valuable resource for anyone working with pipe fittings and connections. This guide will provide you with an overview of what these charts entail and how they can be utilized effectively. The NPT size chart offers a standardized way to identify and select the right pipe threads and fittings. It covers various dimensions, including thread sizes, tapers, and other specifications, which can vary depending on the region and application. By referring to this chart, you can ensure accurate and compatible connections, a critical aspect of any plumbing or piping project. Understanding the NPT Size Chart The NPT size chart is a valuable reference tool for anyone working with National Pipe Thread (NPT) fittings and connections. It provides a clear overview of the standard sizes and dimensions, ensuring accurate selections and installations. Key Details and Categories This chart outlines the

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