

THREAD IDENTIFICATION CHART

To Be Used For Identification Of The Three Most Common Thread Systems

M = Coarse & Fine Thread
 ● ISO Standard (1st Choice)
 ●● ISO Standard (2nd Choice)
 ●●● ISO Standard (3rd Choice)
 PG = Metric Conduit

METRIC = 60° Angel
 x DIN (German Standard)
 ●● ISO Standard (2nd Choice)
 M Taper = Metric Pipe Tapered

AMERICAN = 60° Angle
 UNC = Unified National Coarse
 UNF = Unified National Fine
 UNEF = Unified National Extra Fine
 UNM = Unified National Miniature
 NPT = National Pipe Tapered

BRITISH - BSW/BSF/BSP/BSPT = 55° Angle BA = 47 1/2° Angle
 BA = British Association
 BSW = British Standard Whitworth
 BSF = British Standard Fine
 BSP = British Standard Pipe
 BSPT = British Standard Pipe Tapered

BASIC MAJOR DIAMETER	
Inch	mm
0.118	0.3
0.118	0.3
0.138	0.35
0.146	0.37
0.157	0.4
0.165	0.42
0.177	0.45
0.189	0.48
0.197	0.5
0.209	0.53
0.213	0.54
0.217	0.55
0.236	0.6
0.244	0.62
0.276	0.7
0.311	0.79
0.315	0.8
0.340	0.86
0.354	0.9
0.394	1
0.433	1.1
0.470	1.19
0.472	1.2
0.512	1.3
0.551	1.4
0.591	1.5
0.600	1.52
0.629	1.6
0.669	1.7
0.709	1.8
0.730	1.85
0.748	1.9
0.787	2
0.860	2.18
0.866	2.2
0.906	2.35
0.984	2.5
0.990	2.51
1.024	2.6
1.102	2.8
1.120	2.84
1.181	3
1.250	3.18
1.260	3.20
1.380	3.5
1.417	3.60
1.575	4
1.614	4.10
1.640	4.17
1.772	4.5
1.850	4.70
1.875	4.76
1.900	4.83
1.969	5
2.087	5.30
2.160	5.49
2.165	5.5
2.188	5.56
2.362	6
2.500	6.35
2.756	7
2.812	7.14
3.125	7.94
3.150	8
3.543	9
3.750	9.53
3.830	9.73
3.937	10

NOM. DIA. mm	STANDARD	METRIC PITCH mm		
		Coarse	Fine	M Taper
0.3	x	0.075		
0.3	●	0.08		
0.35	●●	0.09		
0.4	x●	0.1		
0.45	●●	0.1		
0.5	x●	0.125		
0.55	●●	0.125		
0.6	x●	0.15		
0.7	x●●	0.175		
0.8	x●	.2		
0.9	x●●	0.225		
1	x●	0.25	0.2	
1.1	●●	0.25	0.2	
1.2	x●	0.25	0.2	
1.4	x●●	0.3	0.2	
1.5	●●●	0.3		
1.6	●	0.35	0.2	
1.7	x	0.35	0.2/0.25	
1.8	●●	0.35	0.2	
2	x●	0.4	0.25/0.35	
2.2	●●	0.45	0.25	
2.3	x	0.4	0.25/0.35	
2.5	●	0.45	0.35	
2.6	x	0.45	0.25/0.35	
3	x●	0.5	0.35/0.6	
3.5	x●●	0.6	0.35/0.5	
4	x●	0.7	0.5/0.75	
4.5	x●	0.75	0.5	
5	x●	0.8	0.5/0.75/0.9	
5.5	●●●	0.9	0.5	
6	x●	1	0.5/0.75	
7	x●●●	1	0.5/0.75	
8	x●	1.25	0.5/0.75/1	1
9	x●●●	1.25	0.75/1	
10	x●	1.5	0.75/1/1.25	1

NOM. DIA.	AMERICAN THREADS PER Inch				
	UNC	UNF	UNEF	UNM	NPT
.30 mm				318	
.35 mm				282	
.40 mm				254	
.45 mm				254	
.50 mm				203	
.0000		160			
.55 mm				203	
.60 mm				169	
.70 mm				145	
.80 mm				127	
.000		120			
.90 mm				113	
1.00 mm				102	
1.10 mm				102	
.00		90	96		
1.20 mm				102	
1.40 mm				85	
0		80			
1	64	72			
2	56	64			
3	48	56			
4	40	48			
5	40	44			
6	32	40			
8	32	36			
10	24	32			
12	24	28	32		
1/4	20	28	32		
5/16	18	24	32		
3/8	16	24	32		

NOM. DIA.	BRITISH THREADS PER Inch				
	BA	BSW	BSF	BSP	BSPT
22	254				
21	231				
20	211 3/4				
19	181 1/2				
18	169 1/4				
17	149 1/2				
16	133 3/4				
15	121				
14	110 1/2				
13	101 1/2				
12	90 3/4				
11	82				
10	72 1/2				
9	65				
8	59				
7	53				
6	48				
1/8		40			
5	43				
4	38 1/2				
3	34 3/4				
2	31 3/4				
3/16		24	32		
1	28 1/4				
7/32			28		
0	25 1/2				
1/4		20	26		
9/32			26		
5/16		18	22		
3/8		16	20		
1/8			28	28	

BASIC MAJOR DIAMETER	
Inch	mm
.4050	10.29
.4331	11
.4375	11.11
.4724	12
.4921	12.5
.5000	12.70
.5180	13.16
.5400	13.72
.5512	14
.5625	14.29
.5984	15.2
.6250	15.88
.6299	16
.6560	16.66
.6750	17.15
.6875	17.46
.7087	18
.7323	18.6
.7500	19.05
.7874	20
.8031	20.4
.8125	20.64
.8250	20.96
.8400	21.34
.8661	22
.8750	22.23
.8858	22.5
.9020	22.91
.9375	23.81
.9449	24
1.0000	25.40
1.0236	26
1.0410	26.44
1.0500	26.67
1.0625	26.99
1.0630	27
1.1142	28.3
1.1250	28.58
1.1811	30
1.1875	30.16
1.1890	30.20
1.2500	31.75
1.2598	32
1.2992	33
1.3090	33.25
1.3125	33.34
1.3150	33.40
1.3750	34.93
1.3780	35
1.4173	36
1.4375	36.51
1.4567	37
1.4920	37.90
1.4961	38
1.5000	38.10
1.5354	39
1.5625	39.69
1.5748	40
1.6250	41.28
1.6500	41.91
1.6535	42
1.6600	42.16
1.6875	42.86
1.7450	44.32
1.7500	44.45
1.7717	45
1.8504	47
1.8820	47.80
1.8898	48
1.9000	48.26
1.9685	50
2.0000	50.80
2.0472	52
2.1580	54
2.2047	56
2.2500	57.15
2.3346	59.3
2.3470	59.61
2.36200	60
2.3750	60.33
2.5000	63.50
2.5197	64

NOM. DIA. mm	STANDARD	METRIC PITCH mm		
		Coarse*	Fine	M Taper
11	x●●●	1.5	0.75/1/1.25	
12	x● PG7	1.75	1/1.25/1.5	1.5
	PG	20 (TPI)		
14	x●●	2	1/1.25/1.5	
16	x● PG9	18 (TPI)		1.5
18	x●● PG11	2.5	1/1.5/2	1.5
	PG	18 (TPI)		
20	x● PG13.5	2.5	1/1.5/2	1.5
	PG	18 (TPI)		
22	x●● PG16	2.5	1/1.5/2	1.5
	PG	18 (TPI)		
24	x●	3	1/1.5/2	
26	x●●●	1.5		1.5
27	x●● PG21	3	1/1.5/2	
	PG	16 (TPI)		
30	x●	3.5	1/1.5/2/3	
32	x●●●	3.5	1.5/2	
33	x●●		1.5/2/3	
35	x●●●	4	1.5	
36	x●		1.5/2/3	
38	x●●● PG36	16 (TPI)		
39	x●●	4	1.5/2/3	
40	x●●●		1.5/2/3	
42	x●	4.5	1.5/2/3/4	
45	x●● PG38	16 (TPI)	1.5/2/3/4	
	PG			
48	x●	5	1.5/2/3/4	
50	x●●●		1.5/2/3	
52	x●● PG42	5	1.5/2/3/4	
	PG	16 (TPI)		
56	x●	5.5	1.5/2/3/4	
60	x●● PG48	16 (TPI)		
	PG			
64	x●	6	1.5/2/3/4	

NOM. DIA.	AMERICAN THREADS PER Inch				
	UNC	UNF	UNEF	UNM	NPT
1/8					27
7/16	14	20	28		
1/2	13	20	28		
1/4					18
9/16	12	18	24		
5/8	11	18	24		
3/8					18
11/16			24		
3/4	10	16	20		
13/16			20		
1/2					14
7/8	9	14	20		
15/16			20		
1	8	12	20		
3/4					14
1 1/16			18		
1 1/8	7	12	18		
1 3/16			18		
1 1/4	7	12	18		
1 5/16			18		
1 3/8	6	12	18		11 1/2
1 7/16			18		
1 1/2	6	12	18		
1 9/16			18		
1 5/8			18		
1 1/4					11 1/2
1 11/16			18		
1 3/4	5				
1 1/2					11 1/2
2	4 1/2				
2 1/4	4 1/2				
2					11 1/2
2 1/2	4				

NOM. DIA.	BRITISH THREADS PER Inch				
	BA	BSW	BSF	BSP	BSPT
7/16		14	18		
1/2		12	16		
1/4				19	19
9/16		12	16		
5/8		11	14		
3/8				19	19
11/16		11	14		
3/4		10	12		
13/16			12		
1/2				14	14
7/8		9	11		
5/8				14	14
1		8	10		
3/4				14	14
1 1/8		7	9		
7/8				14	14
1 1/4		7	9		
1				11	11
1 3/8			8		
1 1/8				11	
1 1/2		6	8		
1 5/8			8		
1 1/4				11	11
1 3/8		5	7	</	