

IMPERIAL METRIC TABLE

METRIC - APPROX	METRIC - PRECISE	SCREW GAUGE	STANDARD WIRE GAUGE	SHEET GAUGE	RIVET NO. (DIAMETER)	INCH - DECIMAL	INCH - FRACTION	DRILLS USED FOR RIVETS
1	0.996			20		0.039		
1.2	1.22		18			0.048		
1.2	1.257			18		0.050		
1.6	1.587			16		0.0625	1/16	
1.6	1.63		16			0.064		
1.8	1.83		15			0.072		
2	1.994			14		0.079		
2	2.03		14			0.080		
2.4	2.381				3	0.0938	3/32	
2.5	2.517			12		0.099		
2.7	2.743	4				0.108		
3	3.099	5				0.122		
3.2	3.175			10	4	0.125	1/8	
	3.264					0.129		30
3.5	3.454	6				0.136		
3.8	3.81	7				0.150		
4	3.968				5	0.156	5/32	
	4.089					0.161		20
4.2	4.166	8				0.164		
	4.521	9				0.178		
4.8	4.762				6	0.187	3/16	
4.8	4.826	10				0.190		
	4.851					0.191		11
5.6	5.588	12				0.220		
6.3	6.299	14				0.248		
6.4	6.35				8	0.250	1/4	
	6.807	16				0.268		
	7.722	18				0.304		
8	7.937				10	0.312	5/16	
9.5	9.525				12	0.375	3/8	
11	11.11					0.4375	7/16	
12 or 13	12.7					0.500	1/2	
14	14.29					0.562	9/16	
16	15.88					0.625	5/8	
19 or 20	19.05					0.750	3/4	
22	22.23					0.875	7/8	
25	25.4					1.000	1"	
28	28.575					1.125	1 - 1/8	
32	31.75					1.250	1 - 1/4	
38	38.1					1.500	1 - 1/2	
45	44.45					1.750	1 - 3/4	
50	50.8					2.0	2"	
63	63.5					2.5	2 - 1/2	
75	76.2					3.0	3"	
100	101.6					4.0	4"	
115	114.3					4.5	4 - 1/2	
125	127.0					5.0	5"	
150	152.4					6.0	6"	

Notes on gauges:

There are different gauge series for Screws, for sheet-metal, for Wire, for Rivets and for Drill Bits. There is no correlation between them. For Screws, the gauge is the major diameter of the thread. For Washers, it is the thickness of the metal (sheet gauge). For Nails, Brads, and Staples, it is the wire size (SWG) from which the item was formed.

A/F	THREAD DIAMETER AND PITCH TABLE												
	METRIC	METRIC THREADS						IMPERIAL THREADS - PITCH IN THREADS PER INCH (TPI)					
		COARSE	PITCH IN mm PER THREAD			MAJOR DIAMETER		UNIFIED (AMERICAN)			BRITISH		
BOLT HEADS	SIZE	ISO COARSE	FINE	EXTRA FINE	mm	INCH	SIZE	UNC	UNF	UNS	UN8	BSW	BSF
					1.524	0.060	# 0		80				
	3.2	M1.6	0.35	0.2	1.600	0.063							
					1.854	0.073	# 1		72				
	4	M2	0.4	0.25	2.000	0.079							
					2.184	0.086	# 2	56	64				
	5	M2.5	0.45		2.500	0.098							
					2.515	0.099	# 3	48	56				
					2.845	0.112	# 4	40	48				
	5.5	M3	0.5	0.35	3.000	0.118							
					3.175	0.125	1/8" = # 5	40	44			40	
	6	M3.5	0.6	0.35	3.500	0.138	# 6	32	40				
					3.969	0.156	5/32"					32	
	7	M4	0.7	0.5	4.000	0.157							
					4.166	0.164	# 8	32	36				
					4.762	0.188	3/16"					24	32
					4.826	0.190	# 10	24	32				
	8	M5	0.8	0.5	5.000	0.197							
	10	M6	1	0.75	6.000	0.236							
					6.350	0.250	1/4"	20	28			20	26
	11	M7	1		7.000	0.276							
					7.938	0.313	5/16"	18	24			18	22
	13	M8	1.25	1	0.75	8.000	0.315						
		M9	1.25		9.000	0.354							
					9.525	0.375	3/8"	16	24			16	20
	16	M10	1.5	1.25	1	10.000	0.394						
					11.112	0.438	7/16"	14	20			14	18
	18	M12	1.75	1.5	1.25	12.000	0.472						
					12.700	0.500	1/2"	13	20			12	16
	21	M14	2	1.5	1.25	14.000	0.551						
					14.288	0.563	9/16"	12	18				
					15.875	0.625	5/8"	11	18			11	14
	24	M16	2	1.5	1	16.000	0.630						
	27	M18	2.5	2	1.5	18.000	0.709						
					19.050	0.750	3/4"	10	16			10	12
	30	M20	2.5	2	1.5	20.000	0.787						
	33	M22	2.5	2	1.5	22.000	0.866						
					22.225	0.875	7/8"	9	14			9	11
	36	M24	3	2	1.5	24.000	0.945						
					25.400	1.000	1"	8	12	14		8	10
	41	M27	3	2	1.5	27.000	1.063						
					28.575	1.125	1-1/8"	7	12		8	7	9
	46	M30	3.5	3	2	30.000	1.181						
					31.750	1.125	1-1/4"	7	12		8	7	9
	50	M33	3.5	3	2	33.000	1.299						
					34.925	1.375	1-3/8"	6	12		8	6	
	55	M36	4	3	2	36.000	1.417						
					38.100	1.500	1-1/2"	6	12		8	6	8
	60	M39	4			39.000	1.535						
					41.275	1.625	1-5/8"	5-1/2	12		8		
	65	M42	4.5	4	3	42.000	1.653						
					44.450	1.750	1-3/4"	5	12		8	5	7
					47.625	1.875	1-7/8"				8		
	75	M48	5	4	3	48.000	1.890						
					50.800	2.000	2"	4-1/2	12		8	4-1/2	
	85	M56	5.5			56.000	2.205						
					63.500	2.500	2-1/2"				8		
	95	M64	6			64.000	2.520						
					69.850	2.750	2-3/4"				8		
	105	M72	6			72.000	2.835						
					76.200	3.000	3"				8		
					82.550	3.250	3-1/4"				8		
					88.900	3.500	3-1/2"				8		
					101.600	4.000	4"				8		

Other A/F sizes may be used for JIS/Automotive, DIN, Metric Fine, and HSF6 bolts.

Note: Other threads not on this table are BSP, NPT, BA, BSB, CONDUIT, ACME.