



## Thread Identification

Thread Form	Step 1: <i>Determine if Tapered or Parallel</i>	Step 2: <i>Determine Pitch</i>	Step 3: <i>Determine Size (O.D.)</i> <i>(25.4mm=1 inch)</i>	Step 4: <i>Define Thread with Standard Threads Chart</i> <i>(Below)</i>
UN/UNF (SAE)	Parallel	12, 14, 16, 18, 20, 24	Measure with Caliper (mm&in.) Double-check w/ Thread Profile	Size-Pitch, Type EX: ¾ - 16 UNF
NPT/NPTF (American)	Tapered	11 ½, 14, 18, 27	Nominal Size-use Thread Profile Double-check w/ Caliper (mm&in.)	Size-Pitch, Type EX: ¾ - 18 NPT(P)
BSPP (British Pipe)	Parallel	11, 14, 19, 28	Nominal Size-use Thread Profile Double-check w/ Caliper (mm&in.)	G, Size-Pitch EX: G1/8 - 28
BSPT (British Pipe)	Tapered	11, 14, 19, 28	Nominal Size-use Thread Profile Double-check w/ Caliper (mm&in.)	R, Size-Pitch EX: R1/2 - 14
Metric	Parallel	1.0, 1.5, 2.0	Measure with Caliper (use mm)	M, Size x Pitch EX: M14 x 1.5
Metric	Tapered	1.0, 1.5, 2.0	Measure with Caliper (use mm)	M, Size x Pitch, tapered EX: M10 x 1 tapered



**Pipe & Tube Fittings - STANDARD THREADS CHART**

Dash Size	Tube OD	NPT Pipe Thread		BSPT-BSPP Pipe Thread		SAE O-Ring (ORB)/UNF or JIC 37 Flare	Thread/UNF (ORFS)	45 SAE Flare	Inverted Flare	Brass Compression
		Nom - TPI	OD (in)	Nom - TPI	OD (in)	OD - TPI	OD - TPI	OD - TPI	OD - TPI	OD - TPI
-02	1/8	1/8-27	0.405	1/8-28	0.400	5/16-24	-	5/16-24	5/16-28	5/16-24
-03	3/16	-	-	-	-	3/8-24	-	3/8-24	3/8-24	3/8-24
-04	1/4	1/4-18	0.540	1/4-19	0.538	7/16-20	9/16-18	7/16-20	7/16-24	7/16-24
-05	5/16	-	-	-	-	1/2-20	-	1/2-20	1/2-24	1/2-24
-06	3/8	3/8-18	0.675	3/8-19	0.676	9/16-18	11/16-16	5/8-18	9/16-24	9/16-24
-07	7/16	-	-	-	-	-	-	11/16-16	5/8-24	5/8-24
-08	1/2	1/2-14	0.840	1/2-14	0.847	3/4-16	13/16-16	3/4-16	11/16-20	11/16-20
-10	5/8	-	-	-	-	7/8-14	1-14	7/8-14	13/16-18	13/16-18
-12	3/4	3/4-14	1.050	3/4-14	1.063	1.1/16-12	1.3/16-12	1.1/16-14	1-18	1-18
-14	7/8	-	-	-	-	1.3/16-12	-	-	-	-
-16	1	1-11.1/2	1.315	1-11	1.336	1.5/16-12	1.7/16-12	-	-	-
-20	1.1/4	1.1/4-11.1/2	1.660	1.1/4-11	1.677	1.5/8-12	1.11/16-12	-	-	-
-24	1.1/2	1.1/2-11.1/2	1.900	1.1/2-11	1.909	1.7/8-12	2-12	-	-	-
-32	2	2-11.1/2	2.375	2-11	2.381	2.1/2-12	-	-	-	-
		For NPT, Dash -02, size 1/8". 1/8-27 means 1/8" nominal size and 27 TPI (threads per inch). The actual OD of 1/8" NPT thread is 0.405".	Actual OD of the thread in inches. 25.4mm=1inch.		Actual OD of the thread in inches. 25.4mm=1inch.	For SAE O-Ring: Dash -02, size 1/8". 5/16-24 means thread OD is 5/16 and has 24TPI. Also called O-Ring Boss and is a type of UNF Thread. SAE O-Ring=(CAST ex. 1009, 1063, 2005, etc.) JIC Flare = CAST 2000 series.	Flat Face Thread (ORFS) = CAST 4000 series. Also UNF.			