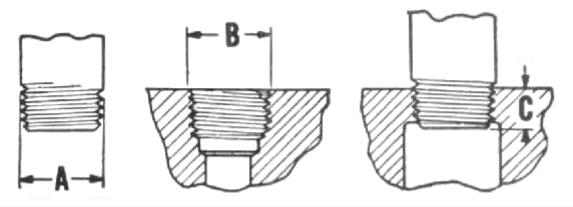
PIPE / PIPE THREAD DIMENSIONS

Nominal Pipe sizes do not match any of its actual physical dimensions.

The OD of pipe / fitting must be measured & compared to the table for identification.

For example; a 3/4" NPT pipe thread has an outside diameter of 1.050 inches and 14 threads per inch. Each thread size has a defined number of threads per inch (TPI), but several sizes have the same TPI; because of this, both the TPI and OD of the thread are required for positive identification of thread size.



Male threads:

Measure the outside diameter of the large portion of the thread at "A"; Find figure nearest this dimension in column 1 or 2 of chart. The dimension in column 3 will be your nominal pipe thread size.

Female Threads:

Measure top diameter of thread at "B"; Find figure nearest this dimension in column 1 or 2 of chart. The dimension in column 3 will be your nominal pipe thread size.

Column 1	Column 2	Column 3	Column 4	Column 5
OD	Actual	Pipe Size	TPI	Normal
Fraction Inch (only for quick reference)	Decimal Inch	Nominal	Threads per Inch	Engagement for a tight joint (dimension "C")
5/16"	0.3125"	1/16"	27	0.2611
13/32"	0.405"	1/8"	27	0.2639
35/64"	0.540"	1/4"	18	0.4018
43/64"	0.675"	3/8"	18	0.4078
27/32"	0.840"	1/2"	14	0.5337
1-3/64"	1.050"	3/4"	14	0.5457
1-5/16"	1.315"	1"	11-1/2	0.6828
1-21/32"	1.660"	1-1/4"	11-1/2	0.7068
1-29/32"	1.900"	1-1/2"	11-1/2	0.7235
2-3/8"	2.375"	2"	11-1/2	0.7565
2-7/8"	2.875"	2-1/2"	8	1.1375
3-1/2"	3.500"	3"	8	1.2000
4"	4.000"	3-1/2"	8	1.2500
4-1/2	4.500"	4"	8	1.3000

Two common pipe thread sizes exist, the tapered **National Pipe Thread** (NPT) and the straight **National Standard Free-Fitting Straight Mechanical Pipe Thread** (NPSM). The tapered threads are for joining and sealing, the straight threads are only for joining.

Dry-seal thread (NPTF) allows for joining without sealants.

Female NPT threads may be designated as "FPT"

Male NPT threads may be designated as "MPT."

The pipe size is often written such as this 1/8"-27, with a hyphen between size & thread per inch, and pronounced as "one eighth twenty-seven"

Three less common threads exist, the Garden Hose Thread (GHT), Fire Hose Coupling (NST) and British Standard Taper Pipe Thread (BSPT).

The NPT and NPTF threads are interchangeable with sealants such as PTFE tape. None of the other thread standards are interchangeable.

Definit	tion Of Pipe Thread Acronyms
NPT	National Pipe Thread
FPT	Female (National) Pipe Thread
MPT	Male (National) Pipe Thread
PTF	SAE short tape pipe thread
NPTF	American National taper pipe thread for Dryseal pressure-tight joints
NPSM	American National straight pipe thread for mechanical joints
NPSI	American National straight intermediate pipe thread