

PIPE THREAD SPECIFICATIONS

National Pipe Thread: NPT & NPTF

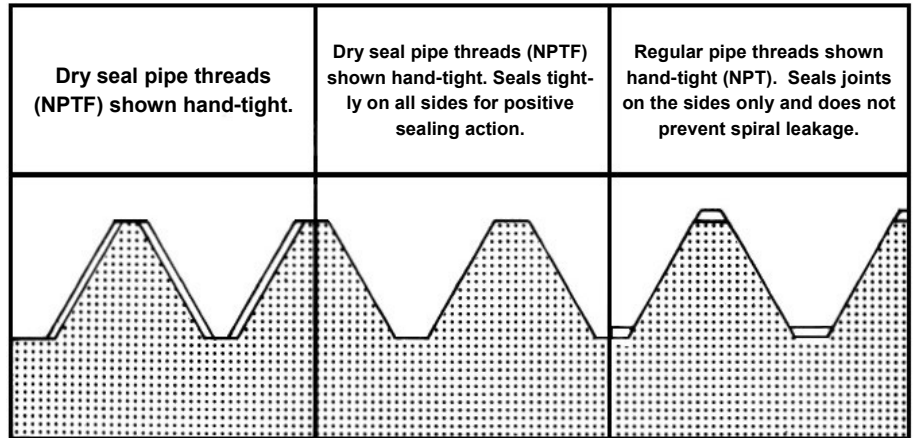
NPTF (Dry Seal Pipe Threads)

Dry seal pipe threads are made to the American National Standards Institute (ANSI) B1.20.3 specification and are designed to seal pressure tight joints. NPTF threads are commonly used in fluid power applications.

NPTF thread roots are wider than their crests. When the threads are wrenched together, the roots crush the sharper crest of the mating threads. This thread deformation forms a metal to metal seat, ensuring a leak free connection. To determine the nominal pipe size, measure the thread diameter and subtract 1/4". Use of thread sealant is still recommended to ensure a leak free connection.

NPT (Tapered Pipe Threads)

Non-dry seal pipe threads are made to the American National Standards Institute (ANSI) B1.20.1 specification. NPT threads seal at their respective flanks, leaving the possibility of having clearance between the roots and crests. NPT threads cannot ensure the prevention spiral leakage, and require the use of pipe sealant for all applications. To determine the nominal pipe size, measure the thread diameter and subtract 1/4".



Thread Type	1/8	1/4	3/8	1/2	3/4	1
NPTF	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11-1/2

The first two full threads ($\pm 1/2$ THD.) should remain free of pipe sealant to allow for thread engagement when wrenching an assembly.



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