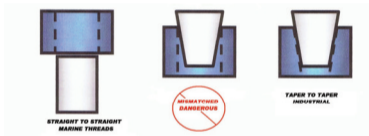




KNOW YOUR THREAD FORMS

MARINE thru-hulls, tailpipes, valves and seacocks have parallel threads known as “American Standard Straight Mechanical” pipe threads or “NPSM”. These require thread compound or Teflon tape to seal.



INDUSTRIAL or household fittings are tapered. These are known as “National Pipe Tapered” or “NPT” threads.

Mating MARINE and INDUSTRIAL thread forms can cause cross threading, leaking and failure of the connection and is not recommended or approved by the ABYC.

UNDERSTANDING THREADFORMS

Marelon[®] thru-hulls all have parallel threads. They are “NPT” style threads but are not tapered. No thru-hulls, regardless of material have tapered threads. The technical abbreviation for this parallel thread form is PSM” (American Standard Straight Mechanical Pipe Thread) or, depending on which “expert” you talk to; “NPSC” (American Standard Straight Coupling Pipe Thread). The two are basically the same. Plastic injection moulded thread forms are manufactured to ANSI B2.1 and SAE J476 standards.

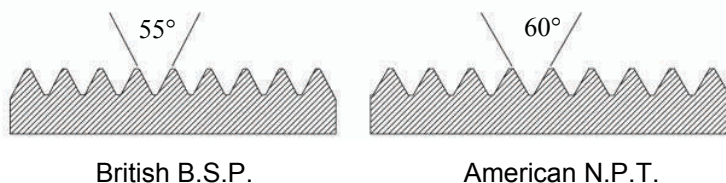
“NPT” (American Standard Pipe Taper Thread) is the “Standard” for industrial and household pipes and fittings. It is important to note that the end threads are “imperfect threads” designed to act as a seal/tightener as a female NPT threaded part is mated. These threads are found on all “fittings” you buy from your local builders supply and the large discount “Home Depots” of the world.

Marelon[®] valves elbows and tailpipes* have the parallel threads consistent with the thru-hulls. None of these thread forms are “self-sealing”; pipe dope, thread seal compounds or Teflon tape must be used on all Marelon plumbing fittings.

When mating other materials (bronze, stainless steel, PVC or other nylon fittings) to Marelon[®] one must be conscious of the potential difference in thread forms. A tapered male thread will screw into a Marelon[®] female thread but you may have a weak connection due to the male taper. This will make thread sealing more difficult due to the greater gap between the threads. A male threaded Marelon[®] fitting will not work in a female tapered thread. A male metal fitting would have the same problem.

Knowing what threads you have on the fittings to be mated is very important for proper sealing and strength. Cross threading or mismatched threads can cause leaks and possibly failure of the connection.

We do offer NPT tapered male threaded tailpipes (model “HC” series numbers 910146 thru 910168) in some sizes. These can be found on page 8 of the Marelon[®] Plumbing Systems Catalog. BSP threads are also available on some fittings. Contact Forespar[®] for a list of parts with BSP threads if needed.



UNDERSTANDING THREADFORMS Cont.

BSP- British Standard Pipe

PART #	DESCRIPTION	BSP
901008	HECF 16 ELBOW,1" FEMALE	901017
901009	HECF 20 EL.1-1/4" FEMALE	901018
901010	HECF 24 EL.1-1/2" FEMALE	901019
901011	HECF 32 ELBOW,2" FEMALE	901020
901002	HECM 16 ELBOW,1" MALE	901021
901003	HECM 20 ELBOW,1-1/4" MALE	901022
901004	HECM 24 ELBOW,1-1/2" MALE	901023
901005	HECM 32 ELBOW,2" MALE	901024
906004	CF 250 1" THRU-HULL	901025
906008	CF 250 1-1/2" THRU-HULL	901026
906014	CF 251 1" THRU-HULL	901027
906016	CF 251 1-1/4" THRU-HULL	901028
906018	CF 251 1-1/2" THRU-HULL	901029
906020	CF 251 2" THRU-HULL	901030
905008	CF 252 1" TAILPIPE	901032
905009	CF 252 1-1/4" TAILPIPE	901033
905010	CF 252 1-1/2" TAILPIPE	901034
905011	CF 252 2" TAILPIPE	901035
905102	MF 850 1" PTFE BALL VALVE	901036
905103	MF 850 S 1-1/4" PTFE B.V.	901037
905104	MF 850 1-1/2" PTFE B.V.	901038
905105	MF 850 2" PTFE BALL VALVE	901039
906066	MF 810 WATER STRAINER	906068
910063	RB 24-12	910180
907009	CF 249 1" NUT,T-HULL	920380
907010	CF 249 1-1/4" NUT,T-HULL	920381
907011	CF 249 1-1/2" NUT,T-HULL	920382
907012	CF 249 2" NUT,T-HULL	920383