

Garden Hose Thread vs Pipe Thread

GHT (3/4-11.5 NH) and NPT pipe thread, with the adapters that join them.

THREAD	ACROSS (OD)	TPI	SEALS WITH
1/4" pipe thread (NPT)	0.540"	18	tape or pipe dope
3/8" pipe thread (NPT)	0.675"	18	tape or pipe dope
1/2" pipe thread (NPT)	0.840"	14	tape or pipe dope
3/4" pipe thread (NPT)	1.050"	14	tape or pipe dope
Garden hose thread (GHT)	1.0625" (1-1/16")	11.5	washer in female end
1" pipe thread (NPT)	1.315"	11.5	tape or pipe dope

YOU HAVE	JOINING IT TO	ADAPTER
Female hose end	Male pipe thread	3/4" MHT x FIP
Female hose end	Female pipe thread	3/4" MHT x MIP
Male hose thread	Male pipe thread	3/4" FHT x FIP
Male hose thread	Female pipe thread	3/4" FHT x MIP

F = female (threads inside), M = male (threads outside), HT = hose thread, IP = pipe thread.

3/4" hose thread and 3/4" pipe thread measure almost the same. Count threads: 11.5 per inch is hose, 14 is pipe.

Tape or sealant on pipe threads only. Hose threads seal with the washer.

Sources: NBS Handbook H28 (NPT and NH thread tables), Dixon Valve, Swagelok.

