3/4 NPT Tap Drill Chart

National Pipe Taper (NPT) · 14 threads per inch · ASME B1.20.1

TAP DRILL (NO REAMING)

59/64" = 0.9219 in = 23.42 mm

Drills near the tap drill

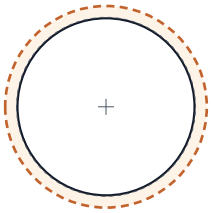
DRILL	INCH	MM	NOTE
61/64"	0.9531	24.21	larger
15/16"	0.9375	23.81	larger
59/64"	0.9219	23.42	Recommended
29/32"	0.9063	23.02	smaller
57/64"	0.8906	22.62	smaller

Pipe thread dimensions (ASME B1.20.1)

DIMENSION	INCH	MM
Pipe outside diameter (D)	1.0500	26.67
Threads per inch (pitch in mm)	14	1.81
Pitch diameter at pipe end (E0)	0.9677	24.58
Pitch diameter at gauge plane (E1)	0.9889	25.12
Hand-tight engagement (L1)	0.3390	8.61
Effective thread length (L2)	0.5457	13.86
Thread height (h = 0.8p)	0.0571	1.45
Minor diameter at gauge plane (E1 – h)	0.9317	23.67

Actual size

Print at 100% scale ("Actual size", not "Fit to page"). Check with the rulers below.



Dashed copper circle: pipe OD; solid: tap drill hole; dotted: minor diameter at the gauge plane.

Tap drill, actual size (23.42 mm):







Pipe tap drill charts vary by up to 1/32 in for sizes over 1 in. Reaming the drilled hole with a taper pipe reamer before tapping lowers tapping torque.

Scan for the interactive version:

whatsizeis.com/tap-drill/3-4-npt/

Values from the ASME B1.1, ISO 261/68-1 and ASME B1.20.1 thread formulas; drill sizes per ASME B94.11M; clearance holes per ISO 273. Method: whatsizeis.com/how-we-calculate/