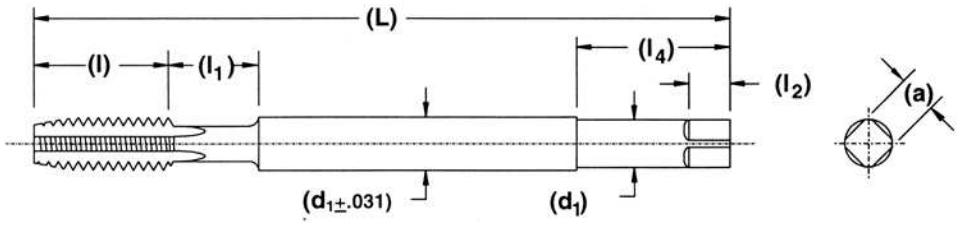
PULLEY TAP DIMENSIONS

Tap Dimensions, Ground Thread
(Ref. USCTI Table 310)



Nominal Fractional Diameter Inches	Tap Dimensions - Inches						
	Overall Length L	Thread Length l	Neck Length l_1	Square Length l_2	Length of Shank Close Tol. Section l_4	Shank Dia. d_1	Size of Square a
1/4 (.2500)	6,8	1.00	0.38	0.31	1.50	0.2550	0.1910
5/16 (.3125)	6,8	1.13	0.38	0.38	1.56	0.3180	0.2380
3/8 (.3750)	6, 8, 10	1.25	0.38	0.44	1.63	0.3810	0.2860
7/16 (.4375)	6,8	1.44	0.44	0.50	1.69	0.4440	0.3330
1/2 (.5000)	6, 8, 10, 12	1.66	0.50	0.56	1.69	0.5070	0.3800
5/8 (.6250)	6, 8, 10, 12	1.81	0.63	0.69	2.00	0.6330	0.4750
3/4 (.7500)	10, 12	2.00	0.75	0.75	2.25	0.7590	0.5690

Tolerances

Element	Size Range	Direction	Tolerance
Overall Length - L	1/4 to 3/4 inc.	Plus or Minus	0.063
Thread Length - l	1/4 to 3/4 inc.	Plus or Minus	0.063
Neck Length - l_1	1/4 to 3/4 inc.	See Note - 1	See Note - 1
Square Length - l_2	1/4 to 3/4 inc.	Plus or Minus	0.031
Length of Shank (close tol.) - l_4	1/4 to 3/4 inc.	See Note - 2	See Note - 2
Shank Diameter - d_1	1/4 to 3/4 inc.	Minus	0.005
Size of Square - a	1/4 to 1/2 inc.	Minus	0.004
	5/8 to 3/4 inc.	Minus	0.006

NOTES

1. l_1, (Neck Length); neck and its length is optional with manufacturer.
2. l_4, (Length of Close Tolerance Shank) is minimum length which is held to eccentricity tolerances per Table 317.

GENERAL NOTES

a. These taps have an internal center in the thread end.
b. These taps are made to the H3 limits shown in Table 327.
c. For eccentricity tolerances of taps elements see Table 317.
d. d_1, (Shank diameter) is approximately the same as the maximum major diameter for that size.
e. a, (Size of Square) is equal to .75 X d_1 to the nearest .001 inch.