

Shaft Diameter / Key Combinations Per ANSI B17.1

Dimensions in inches

Nom. Shaft Dia.		Rectangular Key (width x height)	Square Key (width & height)
over	to		
5/16	7/16	- - -	3/32
7/16	9/16	1/8 x 3/32	1/8
9/16	7/8	3/16 x 1/8	3/16
7/8	1-1/4	1/4 x 3/16	1/4
1-1/4	1-3/8	5/16 x 1/4	5/16
1-3/8	1-3/4	3/8 x 1/4	3/8
1-3/4	2-1/4	1/2 x 3/8	1/2
2-1/4	2-3/4	5/8 x 7/16	5/8
2-3/4	3-1/4	3/4 x 1/2	3/4
3-1/4	3-3/4	7/8 x 5/8	7/8
3-3/4	4-1/2	1 x 3/4	1
4-1/2	5-1/2	1-1/4 x 7/8	1-1/4
5-1/2	6-1/2	1-1/2 x 1	1-1/2
6-1/2	7-1/2	1-3/4 x 1-1/2	1-3/4
7-1/2	9	2 x 1-1/2	2
9	11	2-1/2 x 1-3/4	2-1/2
11	13	3 x 2	3
13	15	3-1/2 x 2-1/2	3-1/2
15	18	4 x 3	4

Please Note:

1. For depth of keyways in the hub and shaft refer to “Depth Control Formulas” or Table 3 in the ANSI B17.1 Standard.
2. A minimum headroom clearance of .005 inch is recommended.
3. Recommended tolerance on keyway width is +0 / -.002 inch.
4. Recommended tolerance on key width is +.002 / -0 inch.
5. A tight side to side fit is required between the keys and the shaft and hub keyways. Hand fitting at assembly is usually required.
6. Key sizes listed in this table are per the ANSI B17.1 standard, maximum allowable key size for the hub is per Table A1.