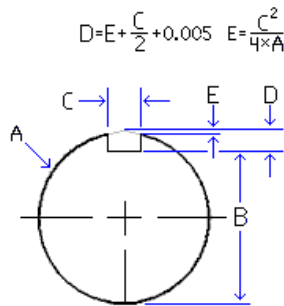
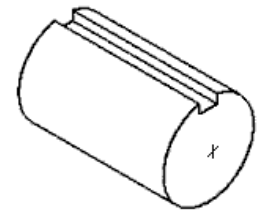


Keyseat Dimensions

A Keyseat is an axially located rectangular groove in a shaft, hub or bushing. In a bushing or hub it is sometimes called keyway. In order to lock a hub or bushing and shaft together, and prevent the shaft from rotating in the bore, a key is commonly inserted into the keyseat that is machined in both the bore and shaft. The key is responsible for preventing rotation between the shaft and the bore, and carries a portion of the torque load. Improperly fitted keys and keyseats, either too loose or too tight, can result in mechanical failures. To ensure the correct fitting the width and height dimensions of standard key and keyseats must be held to recommended tolerances. Industries standards for key sizes in various bores exist.

Key Dimensions: Detailed width tolerance information is best drawn from the manufacturer. Inch(ANSI/AGMA 9002-B4)



| Nominal Shaft Diameter (A) | | Bottom of Keyway to Bottom of Shaft (B) | Keyway Width [C] | | Reference Depth (D) |
|----------------------------|---------|---|------------------|---------|---------------------|
| fractional | decimal | | fractional | decimal | |
| 3/8 | 0.375 | 0.322 | 3/32 | 0.0938 | 0.053 |
| 7/16 | 0.4375 | 0.386 | 3/32 | 0.0938 | 0.052 |
| 1/2 | 0.5 | 0.43 | 1/8 | 0.125 | 0.066 |
| 9/16 | 0.5625 | 0.493 | 1/8 | 0.125 | 0.066 |
| 5/8 | 0.625 | 0.517 | 3/16 | 0.1875 | 0.108 |
| 11/16 | 0.6875 | 0.581 | 3/16 | 0.1875 | 0.107 |
| 3/4 | 0.75 | 0.644 | 3/16 | 0.1875 | 0.106 |
| 13/16 | 0.8125 | 0.708 | 3/16 | 0.1875 | 0.105 |
| 7/8 | 0.875 | 0.771 | 3/16 | 0.1875 | 0.104 |
| 15/16 | 0.9375 | 0.796 | 1/4 | 0.25 | 0.142 |
| 1 | 1 | 0.859 | 1/4 | 0.25 | 0.142 |
| 1-1/16 | 1.0625 | 0.923 | 1/4 | 0.25 | 0.142 |
| 1-1/8 | 1.125 | 0.986 | 1/4 | 0.25 | 0.139 |
| 1-3/16 | 1.1875 | 1.049 | 1/4 | 0.25 | 0.138 |
| 1-1/4 | 1.25 | 1.112 | 1/4 | 0.25 | 0.138 |
| 1-5/16 | 1.3125 | 1.136 | 5/16 | 0.3125 | 0.176 |
| 1-3/8 | 1.375 | 1.201 | 5/16 | 0.3125 | 0.175 |
| 1-7/16 | 1.4375 | 1.224 | 3/8 | 0.375 | 0.214 |
| 1-1/2 | 1.5 | 1.289 | 3/8 | 0.375 | 0.211 |
| 1-9/16 | 1.5625 | 1.351 | 3/8 | 0.375 | 0.211 |
| 1-5/8 | 1.625 | 1.416 | 3/8 | 0.375 | 0.209 |
| 1-11/16 | 1.6875 | 1.478 | 3/8 | 0.375 | 0.209 |
| 1-3/4 | 1.75 | 1.542 | 3/8 | 0.375 | 0.208 |
| 1-13/16 | 1.8125 | 1.526 | 1/2 | 0.5 | 0.287 |
| 1-7/8 | 1.875 | 1.591 | 1/2 | 0.5 | 0.284 |
| 1-15/16 | 1.9375 | 1.654 | 1/2 | 0.5 | 0.284 |
| 2 | 2 | 1.718 | 1/2 | 0.5 | 0.282 |
| 2-1/16 | 2.0625 | 1.781 | 1/2 | 0.5 | 0.282 |
| 2-1/8 | 2.125 | 1.845 | 1/2 | 0.5 | 0.28 |
| 2-3/16 | 2.1875 | 1.908 | 1/2 | 0.5 | 0.28 |
| 2-1/4 | 2.25 | 1.972 | 1/2 | 0.5 | 0.278 |
| 2-5/16 | 2.3125 | 1.956 | 5/8 | 0.625 | 0.357 |
| 2-3/8 | 2.375 | 2.021 | 5/8 | 0.625 | 0.354 |
| 2-7/16 | 2.4375 | 2.083 | 5/8 | 0.625 | 0.354 |
| 2-1/2 | 2.5 | 2.148 | 5/8 | 0.625 | 0.352 |

Note: Information was obtained from multiple sources and has been checked for suitability. However, a successful solution depends on individual accuracy, skill, and caution. For this reason, Electric Trading Company does not guarantee the result of procedure compliance or assume responsibility for personal injury or property damage to persons following these procedures.