



Pin Standards



SPIROL PIN HOLE TOLERANCE AND SHEAR STRENGTHS

Nominal Diameter	Decimal Diminution	Recommended Drilled Hole Tolerance		Minimum Double Shear lb. in.
		Plus	Minus	
1/32	.031	.001	.000	75
1/16	.062	.003	.001	300
3/32	.094	.004		700
1/8	.125			1250
5/32	.156	.005	.002	1925
3/16	.187			2800

GROOVE PIN HOLE TOLERANCES

Pin Diameter in.	Decimal Equivalent	Recommended Drill Size in.	Hole Tolerance ADD To Nominal Diameter in.
1/16	.0625	1/16	.002
5/64	.0781	5/64	
3/32	.0938	3/32	.003
7/64	.1094	7/64	
1/8	.1250	1/8	
5/32	.1563	5/32	
3/16	.1875	3/16	.004

Tolerances for drilled holes shown in table are based on depth to diameter ratio of approximately 5 to 1. Higher ratios may cause these figures to be exceeded, but in no case should they be exceeded by more than 10%. Specifications for holes having a depth to diameter ratio of 1 to 1 or less should be held extremely close; 60% of figures shown in table is recommended.

GROOVE PIN TORQUE RATINGS

Shaft Size	Pin Diameter	Torque lb. in.	Shaft Size	Pin Diameter	Torque lb. in.
3/16	1/16	4.6	7/8	1/4	347
7/32	5/64	8.4	15/16	5/16	580
1/4	3/32	13.7	1		618
5/16	7/64	23.6	1-1/16	3/8	657
3/8	1/8	37.2	1-1/8		1010
7/16	5/32	67.6	1-3/16	7/16	1065
1/2		77.2	1-1/4		1120
9/16	3/16	125.0	1-5/16	7/16	1590
5/8		139.0	1-3/8		1670
11/6	7/32	207.0	1-7/16		1740

This table is a guide in selecting the proper size Driv-Lok Grooved Pin to use in keying machine members to shafts of given sizes and for specific load requirements. Torque and horsepower ratings are based on pins made of cold finished, low carbon steel and a safety factor of 8 is assumed.