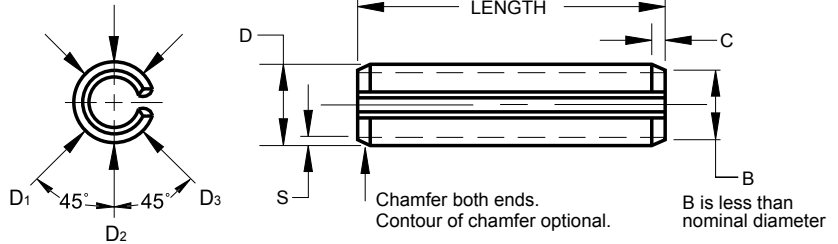


ASME B18.8.2



PIN MATERIALS AND HARDNESS

B	High Carbon Steel	HV 458-560
C	Martensitic Stainless Steel	HV 423-544
D	Austenitic Stainless Steel	Work Hardened

PIN FINISHES

K	Plain
P	Passivated
T	Mechanical Zinc Plated

INCH SPECIFICATIONS

Plain carbon steel pins have a protective oil finish.

NOMINAL PIN DIAMETER	PIN DIAMETER D		CHAMFER DIAMETER B	CHAMFER LENGTH C		WALL THICKNESS S	RECOMMENDED HOLE SIZE		MINIMUM DOUBLE SHEAR STRENGTH			
	MIN. ¹	MAX. ²	MAX.	MIN.	MAX.	NOMINAL	MIN.	MAX.	CARBON & MARTENSITIC SST		AUSTENITIC SST	
									LBS.	KN	LBS.	KN
.062 1/16	.066	.069	.059	.007	.028	.012	.062	.065	430	1.91	250	1.11
.078 5/64	.083	.086	.075	.008	.032	.018	.078	.081	800	3.56	460	2.05
.094 3/32	.099	.103	.091	.008	.038	.022	.094	.097	1,150	5.12	670	2.98
.125 1/8	.131	.135	.122	.008	.044	.028	.125	.129	1,875	8.34	1,090	4.85
.156 5/32	.162	.167	.151	.010	.048	.032	.156	.160	2,750	12.23	1,600	7.12
.187 3/16	.194	.199	.182	.011	.055	.040	.187	.192	4,150	18.46	2,425	10.79
.219 7/32	.226	.232	.214	.011	.065	.048	.219	.224	5,850	26.02	3,400	15.12
.250 1/4	.258	.264	.245	.012	.065	.048	.250	.256	7,050	31.36	4,100	18.24
.312 5/16	.321	.330	.306	.014	.080	.062	.312	.318	10,800	48.04	6,300	28.02
.375 3/8	.385	.395	.368	.016	.095	.077	.375	.382	16,300	72.51	9,500	42.26
.437 7/16	.448	.459	.430	.017	.095	.077	.437	.445	19,800	88.08	11,500	51.15
.500 1/2	.513	.524	.485	.025	.110	.094	.500	.510	27,100	120.55	15,800	70.28

¹ Minimum diameter is the average of D1, D2 and D3.

² Maximum diameter measured with go-ring gage.

STANDARD INCH SIZES

NOMINAL DIAMETER	.062 1/16	.078 5/64	.094 3/32	.125 1/8	.156 5/32	.187 3/16	.219 7/32	.250 1/4	.312 5/16	.375 3/8	.437 7/16	.500 1/2
.187 3/16	*	*	*									
.250 1/4	*	*	*	*								
.312 5/16	*	*	*	*								
.375 3/8	*	*	*	*								
.437 7/16	*	*	*	*	*							
.500 1/2	*	*	*	*	*	*		*				
.562 9/16	*	*	*	*	*	*	*					
.625 5/8	*	*	*	*	*	*	*	*				
.687 11/16	*	*	*	*	*	*	*	*				
.750 3/4	*	*	*	*	*	*	*	*	*			
.812 13/16			*	*	*	*	*	*	*	*		
.875 7/8	*	*	*	*	*	*	*	*	*	*		
.937 15/16			*	*	*	*	*	*	*	*		
1.000 1	*	*	*	*	*	*	*	*	*	*		
1.125 1-1/8			*	*	*	*	*	*	*	*		
1.250 1-1/4				*	*	*	*	*	*	*		*
1.375 1-3/8				*	*	*	*	*	*	*		*
1.500 1-1/2		*	*	*	*	*	*	*	*	*		*
1.625 1-5/8				*	*	*	*	*	*	*		*
1.750 1-3/4				*	*	*	*	*	*	*		*
1.875 1-7/8												
2.000 2				*	*	*	*	*	*	*		*
2.250 2-1/4								*	*	*		*
2.500 2-1/2						*	*	*	*	*		*
2.750 2-3/4						*	*	*	*	*		*
3.000 3									*	*		*
3.250 3-1/4												
3.500 3-1/2												
3.750 3-3/4												
4.000 4												

Nominal Pin Length **Length Tolerance**

Up to 1" incl. ±0.015

Over 1" to 2" incl. ±0.020

Over 2" to 3" incl. ±0.025

Over 3" to 4" incl. ±0.030

Over 4" ±0.035

Straightness Gauge Specifications³

Nominal Pin Length	Gage Length	Gage Hole Diameter = Maximum Pin Diameter Plus:
Up to 1"	1.000" ± .005"	.007"
1" - 2"	2.000" ± .005"	.010"
Over 2"	3.000" ± .005"	.013"

³ The straightness over the length of the pins shall be such that the pin will pass freely through a ring gage of the length and diameter specified.

* Generally stocked size. All other sizes available to order.

Note: All dimensions apply prior to plating.



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Please refer to www.SPIROL.com for current specifications and standard product offerings.

SPIROL Application Engineers will review your application needs and work with you to recommend the optimum solution. One way to start the process is to visit our **Optimal Application Engineering** portal at **SPIROL.com**.