
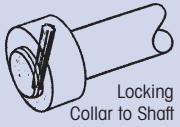
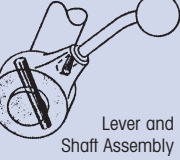

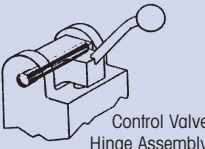

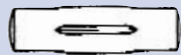
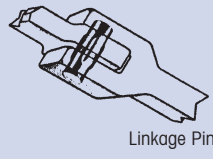


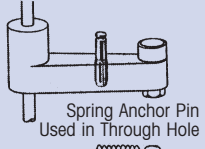
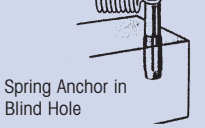

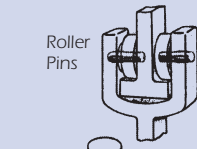
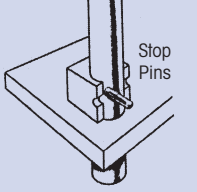

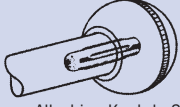
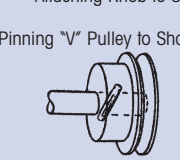


Standard Types

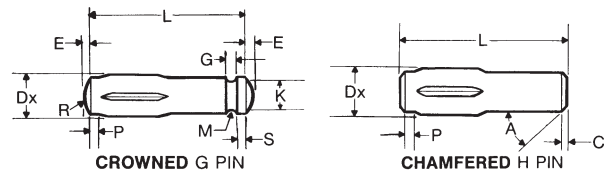
Standard grooved pins are manufactured to ASME B18.8.2. DRIV-LOK manufactures six standard types of grooved pins: Type A, Type C, Type E, Type G, Type H, and Type U. Standard grooved pins are manufactured from either high alloy or unhardened, low carbon steel with plain finish or commercial zinc plate. Stainless steel available on request. Groove and end configurations may vary depending upon diameter and length of the pin. These standard types are shown below with examples of typical applications.

A	C	E	G	H	U
 <p>The Type A Pin has three full-length tapered grooves. This popular type is used in applications requiring excellent locking effect and ease of assembly. It is widely used in place of taper pins, rivets, set screws and keys. Typical applications include keying sprockets, gears, collars, knobs, handles, levers and wheels to shafts.</p>   <p>Locking Collar to Shaft</p> <p>Lever and Shaft Assembly</p>	 <p>The Type C Pin has three parallel grooves extending one-quarter its overall length. It is ideally suited for linkage or pivot applications, especially where a relatively short locking section and longer free length are required. The long lead permits easy insertion.</p>   <p>Control Valve Hinge Assembly</p> <p>Linkage or Hinge Pin</p>	 <p>Type E has three parallel half-length grooves located equidistant from each end. Widely used as T handle on valves and tools. Also used as a cross pin, cotter pin, pivot pin, etc., where center locking is required.</p>   <p>Linkage Pin</p> <p>T Handle for Valve</p>	 <p>Type G has three parallel half-length grooves including pilot. It is a very versatile pin, suitable for use in both blind and through holes as a spring anchor pin. The annular groove opposite the locking end is used to anchor the end loop of a tension spring. If snap or retainer rings are to be used, special section annular grooves can be machined to order.</p>   <p>Spring Anchor Pin Used in Through Hole</p> <p>Spring Anchor in Blind Hole</p>	 <p>Type H grooved pin has three parallel grooves for half the length of the pin. This type of pin may be used as a pivot, stop or hinge pin. When pressed in place, the grooved portion locks in one part while the ungrooved section remains free to serve as the locator, hinge, etc.</p>   <p>Roller Pins</p> <p>Stop Pins</p>	 <p>Type U has three parallel grooves extending the full length of the pin. A short pilot at each end permits hopper or automatic feeding. Identical ends speed manual insertion as operator need not examine pin to determine proper end to start. Full length parallel grooves provide maximum locking effect. Typical applications include keying gears, collars, knobs, handles, etc., to shafts.</p>   <p>Attaching Knob to Shaft</p> <p>Pinning "V" Pulley to Shaft</p>

Standard Grooved Pin Dimensions

Dimension		Nominal Diameters										
		1/16	3/32	1/8	5/32	3/16	7/32	1/4	5/16	3/8	7/16	1/2
Nominal Diameter	Max.	.0625	.0938	.1250	.1563	.1875	.2188	.2500	.3125	.3750	.4375	.5000
	Min.	.0610	.0923	.1230	.1543	.1855	.2168	.2480	.3105	.3730	.4355	.4980
Crown Height "E"		.0065	.0091	.0130	.0170	.0180	.0220	.0260	.0340	.0390	.0470	.0520
Crown Radius "R" ±.010		5/64	1/8	3/32	3/16	1/4	3/32	5/16	3/8	15/32	17/32	5/8
Pilot Length "P" (Ref.)		1/32	1/32	1/32	1/16	1/16	1/16	1/16	3/32	3/32	3/32	3/32
Chamfer Length "C" min.		.005	.005	.005	.005	.016	.016	.016	.031	.031	.031	.031
Chamfer Angle "A" ±5°		35°	35°	35°	35°	35°	35°	35°	35°	35°	35°	35°
Neck Radius "M" (Ref.)		—	1/64	1/32	1/32	1/32	3/64	3/64	1/16	1/16	3/32	3/32
Neck Width "G" ±.005		—	.033	.064	.064	.064	.096	.096	.127	.127	.190	.190
Neck Diameter "K" ±.005		—	.062	.083	.104	.125	.146	.167	.209	.250	.293	.312
Shoulder Width "S" +.010/-000		—	1/32	1/32	3/64	3/64	1/16	1/16	3/32	1/8	1/8	1/8
Lengths* "L" ±.010		1/4	1/4	1/4	3/8	3/8	1/2	1/2	5/8	3/4	7/8	1
		to 1	to 1 1/4	to 1 1/2	to 2	to 2	to 2 1/4	to 2 1/4	to 2 3/4	to 3 1/2	to 3 1/2	to 3 1/2

* Length increments are by 1/8 inch up to 1 inch, and by 1/4 inch over 1 inch. Standard availability may vary depending upon groove type. The length of chamfered pins is measured overall from end to end. The overall length of crowned pins is measured at L + 2E. End configuration may vary depending upon pin length and groove type. All dimensions apply prior to plating.



PROSPECT FASTENERTM

CORPORATION

Wauconda, IL 60084

Toll free 1-800-822-6080 • Fax 1-847-526-2955

sales@prospectfastener.com

www.prospectfastener.com

