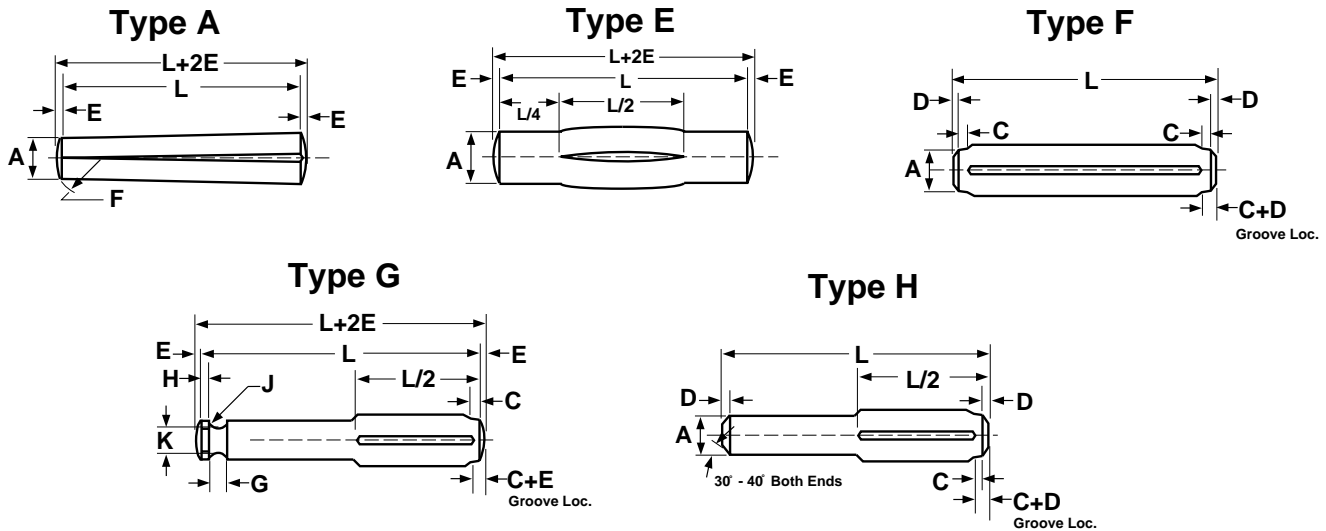


# Pins

## Grooved Pins

Low Carbon,  
Alloy Steel,  
Stainless Steel



GROOVED PINS																ASME B18.8.2-2000		
Nominal Size or Basic Pin Diameter	A		C	D	E	F		G		H		J	K		Double Shear Load, Min., lb.			
	Pin Diameter		Pilot Length	Chamfer Length	Crown Height	Crown Radius		Neck Width		Shoulder Length		Neck Radius	Neck Diameter		Material			
	Max	Min	Ref	Min	Nom	Max	Min	Max	Min	Max	Min	Ref	Max	Min	Low Carbon Steel	Alloy Steel	Stainless Steel	
1/32	0.0312	0.0312	0.0297	0.015	....	....	....	....	....	....	....	....	....	....	100	180	140	
3/64	0.0469	0.0469	0.0454	0.031	....	....	....	....	....	....	....	....	....	....	220	400	300	
1/16	0.0625	0.0625	0.0610	0.031	0.005	0.0065	0.088	0.068	....	....	....	....	....	....	410	720	540	
5/64	0.0781	0.0781	0.0766	0.031	0.005	0.0087	0.104	0.084	....	....	....	....	....	....	620	1120	860	
3/32	0.0938	0.0938	0.0923	0.031	0.005	0.0091	0.135	0.115	0.038	0.028	0.041	0.031	0.016	0.067	0.057	890	1600	1240
7/64	0.1094	0.1094	0.1074	0.031	0.005	0.0110	0.150	0.130	0.038	0.028	0.041	0.031	0.016	0.082	0.072	1220	2180	1680
1/8	0.1250	0.1250	0.1230	0.031	0.005	0.0130	0.166	0.146	0.069	0.059	0.041	0.031	0.031	0.088	0.078	1600	2820	2200
5/32	0.1563	0.1563	0.1543	0.062	0.005	0.0170	0.198	0.178	0.069	0.059	0.057	0.047	0.031	0.109	0.099	2300	4520	3310
3/16	0.1875	0.1875	0.1855	0.062	0.016	0.0180	0.260	0.240	0.069	0.059	0.057	0.047	0.031	0.130	0.120	3310	6440	4760
7/32	0.2188	0.2188	0.2168	0.062	0.016	0.0220	0.291	0.271	0.101	0.091	0.072	0.062	0.047	0.151	0.141	4510	8770	6480
1/4	0.2500	0.2500	0.2480	0.062	0.016	0.0260	0.322	0.302	0.101	0.091	0.072	0.062	0.047	0.172	0.162	5880	11,500	8460
5/16	0.3125	0.3125	0.3105	0.094	0.031	0.0340	0.385	0.365	0.132	0.122	0.104	0.094	0.062	0.214	0.204	7660	17,900	12,700
3/8	0.3750	0.3750	0.3730	0.094	0.031	0.0390	0.479	0.459	0.132	0.122	0.135	0.125	0.062	0.255	0.245	11,000	26,000	18,200
7/16	0.4375	0.4375	0.4355	0.094	0.031	0.0470	0.541	0.521	0.195	0.185	0.135	0.125	0.094	0.298	0.288	15,000	35,200	24,800
1/2	0.5000	0.5000	0.4980	0.094	0.031	0.0520	0.635	0.615	0.195	0.185	0.135	0.125	0.094	0.317	0.307	19,600	46,000	32,400
Tolerance on Length										±0.010								

<b>Description</b>	A solid, headless pin of fixed diameter and length, with crowned ends and longitudinal channels rolled or pressed into the body causing displacement of the pin material.
<b>Applications/Advantages</b>	For temporary fastenings achieved by inserting the pin into a specifically sized hole, causing the pin stock to compress and become constrained against the hole wall. Can be preferable to a threaded fastener because hole need only be drilled, not tapped.
<b>Material</b>	Low Carbon Steel: AISI 1006-1018; Alloy Steel: AISI 4037, 4130, 8630; Stainless Steel: 18-8 Stainless
<b>Shear Load</b>	Groove pins shall be capable of withstanding minimum double shear loads as listed in the above table.
<b>Plating</b>	See Appendix-A for plating information.