

# Pivot Pins - Diameter Tolerance Selectable



RoHS10

Type	M Material	H Hardness	S Surface Treatment	A Accessory Shape C (Retaining Ring)	A Accessory Shape B (Nut)
KCL□□	S45C Equivalent	-	Black Oxide	Retaining Ring 1 pc.	M Spring Steel
KCLH□□		40~45HRC	-		M SUS304
PKCL□□		-	Electroless Nickel Plating		M SUS304
PKCLH□□	40~45HRC	-	-	M SUS304	
KCLS□□	SUS304	-	-	M SUS304	M SUS304
KCLSH□□	SUS440C Equivalent	45~50HRC	-	M SUS304	M SUS304

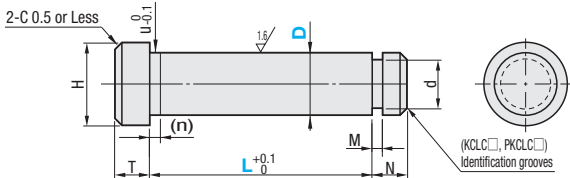
D	Tolerance Selection					*LF
	M	P	H	F	C	-
2, 3	+0.008 +0.002	+0.012 +0.006	0 -0.010	-0.006 -0.020	-0.060 -0.085	-0.025 -0.034
4, 5, 6	+0.012 +0.004	+0.020 +0.012	0 -0.012	-0.010 -0.028	-0.070 -0.100	-0.025 -0.037
8, 10	+0.015 +0.006	+0.024 +0.015	0 -0.015	-0.013 -0.035	-0.080 -0.116	-0.025 -0.040
12~18	+0.018 +0.007	+0.029 +0.018	0 -0.018	-0.016 -0.043	-0.095 -0.138	-0.025 -0.043
20~25	+0.021 +0.008	+0.035 +0.022	0 -0.021	-0.020 -0.053	-0.110 -0.162	-0.025 -0.046

\* LF tolerances are recommended values for Multi-Layer Oil Free Bushings LF Type (MDZB, MDZF).

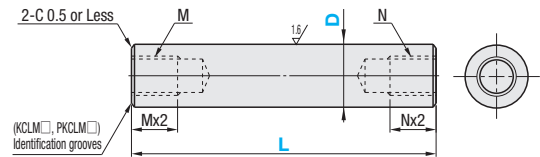
- ☑ KCLSH□□ may be discolored by hardening.
- ☑ Relief dimension under the shoulder is for reference.
- ☑ This type may have centering holes depending on dimensions.
- ☑ For L Dimension, Standard Machining Tolerances (Class: Medium) is used.
- ☑ KCL□□, PKCL□□ may have identification grooves on the side in order to distinguish them from Hardened Type.

2S / (1.5 / )

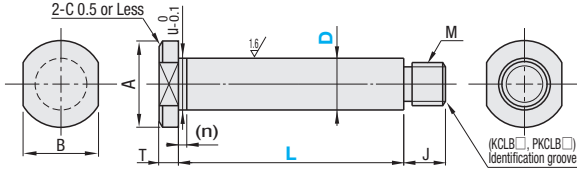
Shape C (Retaining Ring)



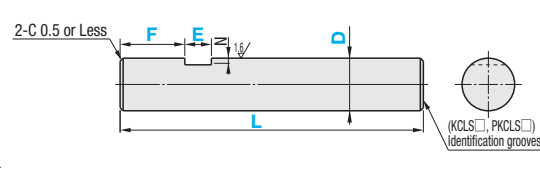
Shape M (Both Ends Tapped)



Shape B (Nut)



Shape S (Set Screw Flat)



Alterations



Part Number - L - (NC, TC...etc.)  
KCLCF15 - 120.3 - NC3.5 - TC3.5

Alterations	Retaining Ring Groove Position	Shoulder Thickness	Thread Part Length	Thread Diameter	Shoulder Thickness	L Dimension Tolerance
	Shape C NC	Shape C TC	Shape B FC	Shape B MC	Shape B TC	Shape B LKC
Code	NC	TC	FC	MC	TC	LKC
Spec.	Ordering Code] NC3.5 D NC 2-4 1.5-3 5 1.7-3 6 1.9-4 8 2.4-5 10-18 2.7-5 20-25 2.9-5 ☑ Overall Length is L+NC+T.	Ordering Code] TC3 ☑ TC=0.5mm Increment ☑ T<TC<5 ☑ Overall Length is L+N+TC.	Ordering Code] FC4 ☑ FC=1mm Increment ☑ M (MC) ≤ FC ≤ M (MC) x3	Ordering Code] MC3 D MC (Selection Range) 5 3 6 3 4 8 3 4 5 10 4 5 6 12 5 6 8 13-18 6 8 10 20, 22 8 10 12 25 10 12 ☑ When ordering MC5 for D12, also specify Alteration FC. ☒ Not applicable to D4.	Ordering Code] TC3 ☑ TC=0.5mm Increment ☑ 2≤TC<5	Ordering Code] LKC Changes L dimension tolerance to ±0.05.

Alterations	Thread Diameter	Tapping
	Shape M MC NC	Shape S MMC
Code	MC, NC	MMC
Spec.	Ordering Code] MC3 D MC, NC (Selection Range) 8 3 4 10, 12 4 5 13-15 5 6 16-18 6 8 20, 22 8 10 25 10 12 ☑ Not applicable to D6. ☑ L: MCx2+NCx2	Ordering Code] MMC D M (Coarse) ℓ 8 M3 6 8-14 M4 8 15-22 M6 12 25 M8 16 ☑ Not applicable to D3-5. ☑ (D-M)/2-N≤1, F>Mx2. ☑ L>Mx3