


Pivot Pins

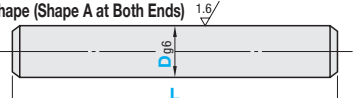
End Shape Selectable - Dimension Selectable



RoHS

Type	Material	Surface Treatment	Hardness
FCL	1045 Carbon Steel	Black Oxide	-
FCLH		Electroless Nickel Plating	40~45HRC
PFCL		Hard Chrome Plating Plating Thickness 3um or more	40~45HRC
FCLSH	304 Stainless Steel	-	45~50HRC
GFCLSH	440C Stainless Steel	Hard Chrome Plating Plating Thickness 3um or more	45~50HRC

Base Shape (Shape A at Both Ends)



Select from Left End Shape Select from Right End Shape

When machining is needed at one end only, select Shape A for the other end.
 There are identification grooves on the side of FCL and PFCL to be distinguished from Hardened Type.
 FCLSH and GFCLSH (440C Stainless Steel equivalent) may be discolored by hardening.
 When selecting shapes B and G or BG and GB for both ends, hole and flat positions are as shown in the catalog. The angle tolerance is ±5°.

When L < the depth of tap's pilot hole, the pilot hole might go through.
 Shape D: Relief dimension under the shoulder is for reference.
 Selecting Shape D (FCLDD) for both ends is not available.

Shape C: e, m Dimensions for Selection

D	Ref. Dim.	Tolerance	m+0.14	0
3	2	+0.06	0.5	
4	3	0		
5	4	+0.075	0.7	
6	5	0		
7	6	0		
8	7	+0.09	0.9	
9	8	0		
10	9.6	-0.09		
11	10.5			
12	11.5			
13	12.4			
14	13.4			
15	14.3	0		
16	15.2	-0.11		
17	16.2			
18	17			
19	18			
20	19	0		
		-0.21		

Shape D: u, (n) Dimensions for Selection

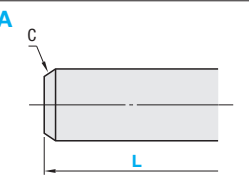
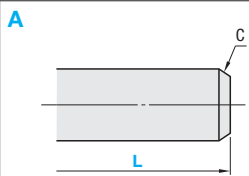
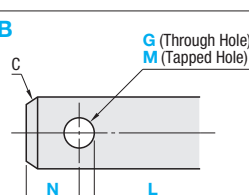
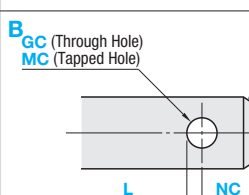
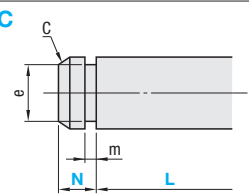
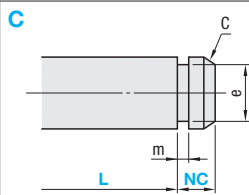
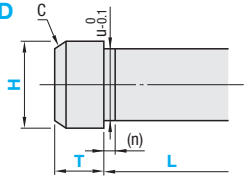
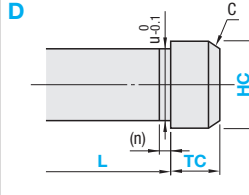
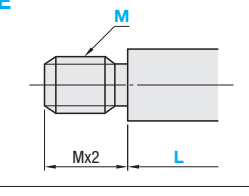
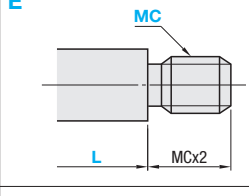
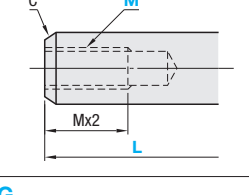
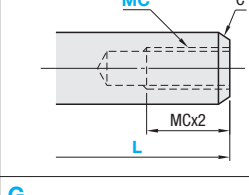
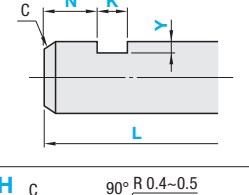
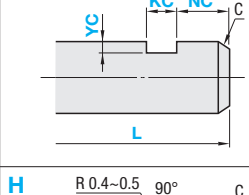
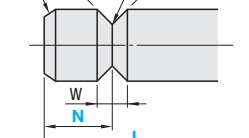
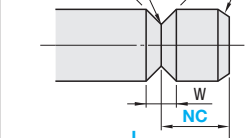
D	u	(n)
3	2.9	
4	3.9	
5	4.9	
6	5.8	
7	6.8	
8	7.8	
9	8.8	
10	9.8	
11	10.8	
12	11.8	
13	12.8	
14	13.8	
15	14.8	
16	15.8	
17	16.8	
18	17.8	
19	18.8	
20	19.8	

Shape E: Details of Thread Relief Machining

M (Coarse Thread)	MxPitch	g	r	f
3	M3x0.5			
4	M4x0.7	1.2	0.3	0.9
5	M5x0.8			
6	M6x1.0			
9	M9x1.25	2.5	0.6	1.7
10	M10x1.5			
12	M12x1.75	3	1.0	2.2
16	M16x2.0			

Shape H: W Dimension for Selection

D	W
6	
7	
8	1.5
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	2
19	
20	

	Left End Shape	Right End Shape
A		
B		
C		
D		
E		
F		
G		
H		

Part Number	1mm Increment		0.1mm Increment				0.5mm Increment	Selection			
	Left End Shape	Right End Shape	D	L	T (TC)	N (NC)	G (GC)	K (KC)	Y (YC)	H (HC)	M (MC) (Coarse Thread)
FCL FCLH PFCL PFCLH GFCL FCLSH GFCLSH	A B C D E F G H	A B C D E F G H	3~20 4≤D (Shaft End Shape E) 6≤D (Shaft End Shape B, F, H)	5~200 (L≤Dx20)	0.5≤T(TC)≤L/4	2≤N(NC)≤L/4 (Shaft End Shape C) G(GC), M(MC)/2+1 ≤N(NC)≤L/4 (Shaft End Shape B) 0≤N(NC)≤L/4 (Shaft End Shape G) 2≤N(NC)≤L/4 (Shaft End Shape H)	D/5≤G(GC)≤D/2 2≤K(KC)≤30 Y(YC)≤D/2	D+1≤H(HC)≤D+10	3 4 5 6 8 10 12 16 M(MC)≤D/2 (Shaft End Shape B) M(MC)<D (Shaft End Shape E) M(MC)≤D-3 (Shaft End Shape F)	0.5 or Less	

Ordering Example

Part Number: **FCL D G - D10 - L100 - T2 - N - G - K - Y - H - M - TC - NC - GC - KC - YC - HC - MC**

Example: **FCL D G - D10 - L100 - T2 - N - G - K - Y - H - M - TC - NC - GC - KC - YC - HC - MC**

Days to Ship [Configure Online](#)

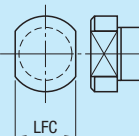
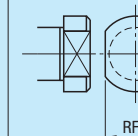
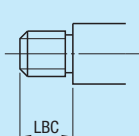
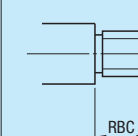
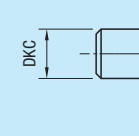
Price [Configure Online](#)

Type	D	Material Unit Price				Unit Price of Shaft End Machining									
		L5.0~50.0	L50.1~100.0	L100.1~150.0	L150.1~200.0	B	C	D	E	F	G	H			
FCL	3-5														
FCL	6-10														
FCL	11-15														
FCL	16-20														
FCLH	3-5														
FCLH	6-10														
FCLH	11-15														
FCLH	16-20														
PFCL	3-5														
PFCL	6-10														
PFCL	11-15														
PFCL	16-20														
PFCLH	3-5														
PFCLH	6-10														
PFCLH	11-15														
PFCLH	16-20														
GFCL	3-5														
GFCL	6-10														
GFCL	11-15														
GFCL	16-20														
FCLS	3-5														
FCLS	6-10														
FCLS	11-15														
FCLS	16-20														
FCLSH	3-5														
FCLSH	6-10														
FCLSH	11-15														
FCLSH	16-20														
GFCLSH	3-5														
GFCLSH	6-10														
GFCLSH	11-15														
GFCLSH	16-20														

Alterations

Part Number: **FCL D G - D10 - L100 - T2 - N - G - K - Y - H - M - TC - NC - GC - KC - YC - HC - MC**

Example: **FCL D G - D10 - L100 - T2 - N - G - K - Y - H - M - TC - NC - GC - KC - YC - HC - MC**

Alterations	Shape D: T (TC) Dimension, Wrench Flats		Shape E: M (MC) Length Change		O.D. Tolerance
	Left End Shape	Right End Shape	Left End Shape	Right End Shape	
					
Code	LFC	RFC	LBC	RBC	DKC
Spec.	[Ordering Code] LFC (RFC) 10 LFC (RFC) = 0.5mm Increment D ≤ LFC (RFC) < H (HC)		[Ordering Code] LBC (RBC) 20 LBC (RBC) = 0.5mm Increment D ≤ LBC (RBC) ≤ M (MC) x 3		Changes O.D. tolerance to h6. [Ordering Code] DKC
Price Adder					

1-807

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