

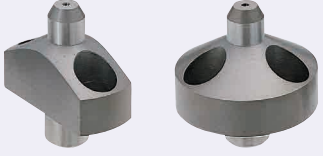
Flanged Locating Pins / Height Adjusting Blocks

Flange Mounted

Locating Pins for Grippers / Plate Centering Pins

"Tapered Plunging Locating Pins" (pins can be compressed) are now available. See P.1759.

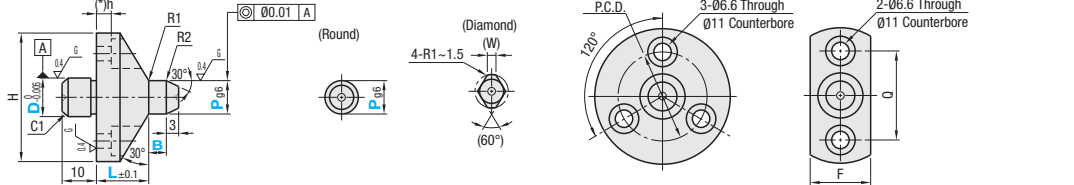
Flange - Mounted



Material SCM415
Hardness Carburized Hardness 55HRC~ (Depth: 0.7 ~ 0.8)

Flange Shape	Pin Shape	Standard	Compact Flange
Round	Diamond	FLPDC	-
Compact	Round	FLPAQ	FSPAQ
	Diamond	FLPDQ	FSPDQ

*The head of mounting screw may project out of the flange surface depending on dimensions.
 (*)When L=13 ~ 18, h=4
 When L=19 ~ 23, h=7



RoHS 10

Standard


Part Number	L	P	B	H	(W)	P.C.D.	Q	F	Unit Price		
Type	D	1mm Increment	0.01mm Increment	1mm Increment					FLPDC	FLPAQ	FLPDQ
FLPDC (Round)	10	15~23	6.00~13.00	3~7	44	2.5	30	30	21		
	12		13.00~16.00		48	4	33	33	24		
FLPAQ (Compact)	16	15~23	16.00~20.00	3~7	56	5	41	41	28		

Compact Flanged

Part Number	L	P	B	H	(W)	P.C.D.	Q	F	Unit Price		
Type	D	1mm Increment	0.01mm Increment	1mm Increment					FSPAQ	FSPDQ	
FSPAQ (Compact)	12	13~23	6.00~13.00	3~7	38	2.5	25	25	17		
	16		13.00~16.00		42	4	29	29	21		
FSPDQ (Compact)	20	13~23	16.00~20.00	3~7	46	5	33	33	25		

Ordering Example Part Number - L - P - B
 FLPC12 - L18 - P14.25 - B7

Alterations Part Number - L - P - B - (K)
 FLPDQ12 - L18 - P14.5 - B7 - KC

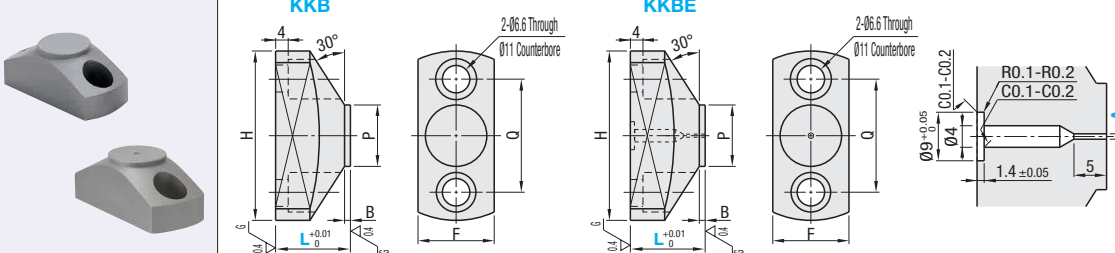
Alteration Code	Compact Flanged Type	Diamond Direction
KC		
Spec.	 Changes the diamond angle to 90° from the standard position 0°. *Applicable to Compact Flange with Diamond Shape only.	

Seating Sensor Hole Type for confirming workpiece seating is now available.

Height Adjusting Blocks

Standard KKB

Seating Sensor Hole KKBE



Material: SKS3 Equivalent
 Hardness: 60~63HRC

RoHS 10

Standard

Part Number	L	P	B	H	Q	F	Unit Price
KKB	15	20	2	50	36	22	KKB
	20						
	25						

Seating Sensor Hole

Part Number	L	A Selection	P	B	H	Q	F	Unit Price
KKBE	15	1	20	2	50	36	22	KKBE
	20	1.5						
	25	2						

Ordering Example Part Number - A
 KKB15 - A

Features: Can be used for attaching Gripper.

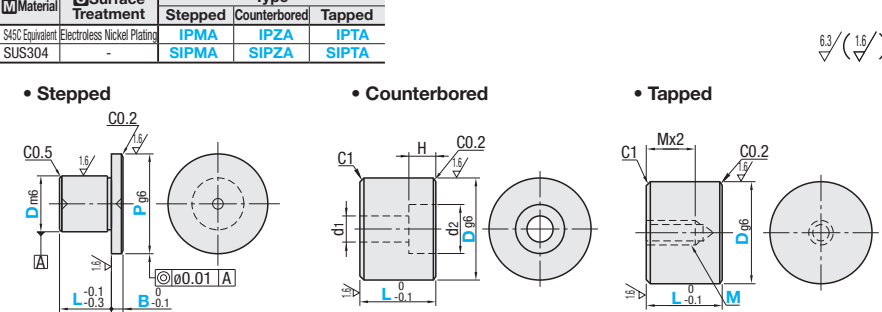
For Grippers Locating Pins

Material	Surface Treatment	Type		
S45C Equivalent	Electroless Nickel Plating	Stepped	Counterbored	Tapped
SUS304		IPMA SIPMA	IPZA SIPZA	IPTA SIPTA

• Stepped

• Counterbored

• Tapped



Center holes may disappear depending dimension B. SUS304 may not be polished and may have no centering hole.

Stepped							Counterbored							Tapped							
Part Number	Type	D	P	L	B	Unit Price	Part Number	Type	No.	D	L	d1	d2	H	Unit Price	Part Number	Type	M	D	L	Unit Price
IPMA SIPMA	5	6.0~15.0	5.0~10.0	1.0~10.0			IPZA SIPZA	3	10.0~15.0	5.0~30.0	3.5	6.5	3.5		IPTA SIPTA	3	10.0~20.0	3.0~30.0			
	6	7.0~20.0						4	10.0~32.0	6.0~30.0	4.5	9.5	4.5								
	8	10.0~20.0						5	12.0~32.0	7.0~30.0	5.5	9.5	5.5								
	10	12.0~25.0																			
	12	16.0~32.0																			

*When L is less than Mx4, the tapped hole or pilot hole for tapping may go through.

Ordering Example

Stepped Part Number - P - L - B
 IPMA8 - P13.0 - L9.0 - B1.5

Counterbored, Tapped Part Number - D - L
 IPZA4 - D17.0 - L7.0

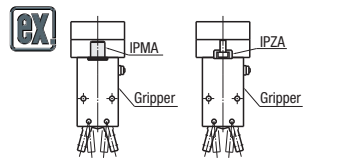
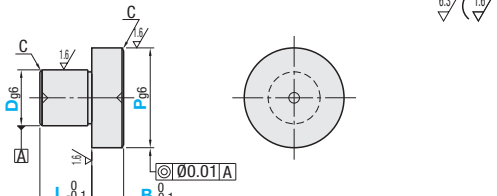


Plate Centering Pins

Material	Surface Treatment	Part Number
S45C Equivalent	Electroless Nickel Plating	CMPA
S45C Equivalent	Black Oxide	BCMPA
SUS304		SCMPA



SUS304 may not be polished and may have no centering hole.
 Center holes may disappear depending dimension B.

Part Number	0.1mm Increment					Unit Price		
	D	P	L	B	C	CMPA	BCMPA	SCMPA
CMPA BCMPA SCMPA	2.0~9.0	3.0~10.0	5.0~20.0	1.0~20.0	0.2			
	9.0~24.0	10.1~25.0		1.5~20.0	0.5			
	15.0~39.0	25.1~40.0		2.0~20.0	1			

D≤P-1 L≤Dx5 B≤Px5

Ordering Example Part Number - D - P - L - B
 CMPA - D5.0 - P7.0 - L9.0 - B1.5

Alterations Part Number - D - P - L - B - (NTP)
 CMPA - D6.0 - P7.0 - L9.0 - B1.5 - NTP

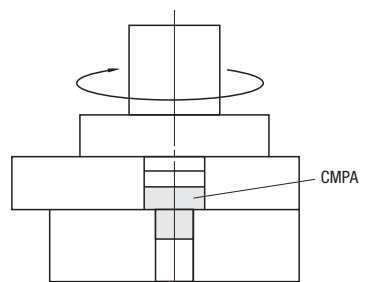
Removal Tap NTP

Adds a tap on P dimension part.

D	M (Coarse)
6.0~10.0	M3
10.1~15.0	M4
15.1~20.0	M5
20.1~28.0	M6
28.1~39.0	M8

Applicable when D≥6.0.
 When L+B≤Mx5, the pilot hole of tapped may go through.

Example



Applicable to center alignment of thin objects.