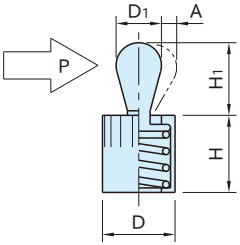
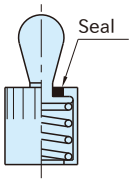
BJ765,BJ766 SPRING LOCATING PINS

BJ765-****1
(Steel Pin)

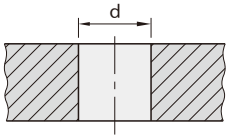


BJ765-****1 BJ766-****1
(Without Seal)



BJ765-****2 BJ766-****2
(With Seal)

BJ766-****2
(Plastic Pin)



Installation Hole

Type	Body	Pin	Spring	Seal
BJ765-****1	Aluminum (AC3A) Natural	Steel (SUM22L) Case hardened Zinc plated finish	Steel (SWB)	–
BJ765-****2				Nitrile rubber (NBR)
BJ766-****1		Polyacetal plastic	Steel (SWA)	–
BJ766-****2				Nitrile rubber (NBR)

BJ765-****1 BJ766-****1 (Without Seal)

Steel Pin			Plastic Pin			D	H ($^{0}_{-1}$)	D_1	H_1	A Travel	d ($^{+0.1}_{0}$)
Part Number	P (N)	Weight (g)	Part Number	P (N)	Weight (g)						
BJ765-03001	20	2	BJ766-03001	10	1	6	7	3	4	0.5	6
BJ765-05001	50	3	BJ766-05001	20	2	10	11	5	6.7	0.8	10
BJ765-06001	75	4	BJ766-06001	40				6	10.7	1	
BJ765-08001	100	8	BJ766-08001	50	3	12	13	8	13.9	1.3	12
BJ765-10001	150	16	BJ766-10001	100	7	16	17	10	16.7	1.6	16

BJ765-****2 BJ766-****2 (With Seal)

Steel Pin			Plastic Pin			D	H ($^{0}_{-1}$)	D_1	H_1	A Travel	d ($^{+0.1}_{0}$)
Part Number	P (N)	Weight (g)	Part Number	P (N)	Weight (g)						
BJ765-03002	20	2	BJ766-03002	10	1	6	7	3	4	0.5	6
BJ765-05002	50	3	BJ766-05002	20	2	10	11.5	5	6	0.8	10
BJ765-06002	75	4	BJ766-06002	40				6	10	1	
BJ765-08002	100	8	BJ766-08002	50	3	12	14	8	13	1.3	12
BJ765-10002	150	16	BJ766-10002	100	7	16	18	10	16	1.6	16

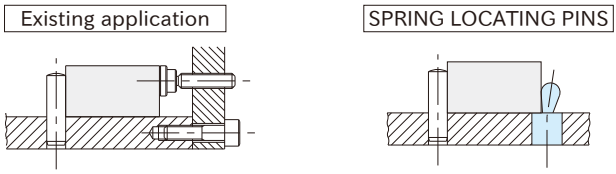
Features:

- Ideal for temporary clamping of low-profile workpieces.
- The seal provided for BJ765****2 and BJ766****2 keeps dust out of the body.

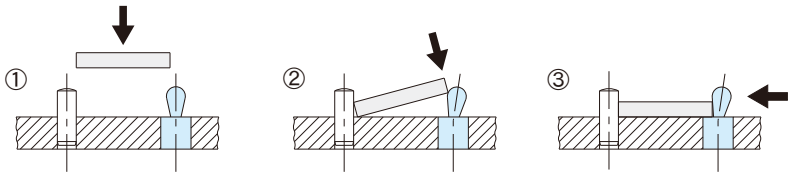
Note

- The stated value "P" denotes the minimum force needed to move the pin.
- Heat resistance : 90℃

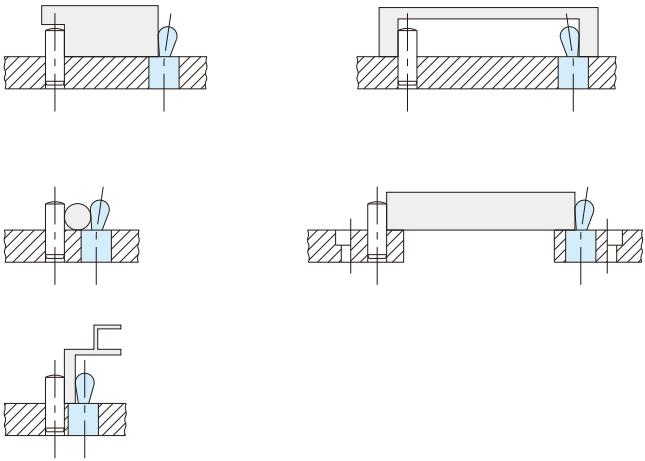
How To Use



Simpler workholding method for cost reduction.



Application Examples



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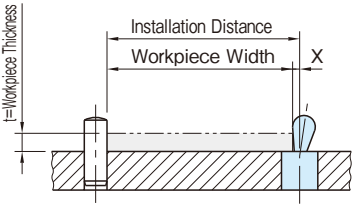
IMAO

《Installation Instructions》

How to determine installation-hole locations

Installation-hole Location = Workpiece Width x "X"

Note : "X" is the distance between the end of the workpiece and the installation-hole center.



How to determine X dimension

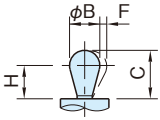
1) When the workpiece thickness is smaller than H dimension,
$X=B/2-F-[(C-B/2-t)\times 0.123]$

2) When the workpiece thickness is greater than H dimension,
$X=B/2-F$

When the workpiece thickness is greater than H dimension, X dimension is always the same regardless of workpiece thickness.

How to determine H dimension

$H = C - B/2$



〈X Dimensions By Typical Workpiece Thickness〉

	Part Number		H	Workpiece Thickness (mm)										
	Steel Pin	Plastic Pin		1	1.5	2	2.5	3	3.5	4	4.5	5	6
Type 1	BJ765-03001	BJ766-03001	2.5	0.8	0.9	0.9	1	→					
	BJ765-05001	BJ766-05001	4.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	→		
	BJ765-06001	BJ766-06001	7.7	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.8
	BJ765-08001	BJ766-08001	9.9	1.6	1.7	1.7	1.8	1.9	1.9	2	2	2.1	2.2
	BJ765-10001	BJ766-10001	11.7	2.1	2.1	2.2	2.3	2.3	2.4	2.5	2.5	2.6	2.7
Type 2	BJ765-03002	BJ766-03002	2.5	0.8	0.9	0.9	1	→					
	BJ765-05002	BJ766-05002	3.5	1.4	1.5	1.5	1.6	1.6	1.7	→			
	BJ765-06002	BJ766-06002	7	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9
	BJ765-08002	BJ766-08002	9	1.7	1.8	1.8	1.9	2	2	2.1	2.1	2.2	2.3
	BJ765-10002	BJ766-10002	11	2.2	2.2	2.3	2.4	2.4	2.5	2.5	2.6	2.7	2.8

	Part Number		H	Workpiece Thickness (mm)								
	Steel Pin	Plastic Pin		7	7.5	8	9	9.5	10	11	11.5	Over 11.5
Type 1	BJ765-03001	BJ766-03001	2.5	1	→							
	BJ765-05001	BJ766-05001	4.2	1.7	→							
	BJ765-06001	BJ766-06001	7.7	1.9	2	→						
	BJ765-08001	BJ766-08001	9.9	2.3	2.4	2.5	2.6	2.7	→			
	BJ765-10001	BJ766-10001	11.7	2.8	2.9	2.9	3.1	3.1	3.2	3.3	3.4	→
Type 2	BJ765-03002	BJ766-03002	2.5	1	→							
	BJ765-05002	BJ766-05002	3.5	1.7	→							
	BJ765-06002	BJ766-06002	7	2	→							
	BJ765-08002	BJ766-08002	9	2.5	2.5	2.6	2.7	→				
	BJ765-10002	BJ766-10002	11	2.9	3	3	3.2	3.2	3.3	3.4	→	

Examples of Determining Installation-Hole Locations

《Example 1》

Spring Locating Pin : BJ765-06002
Steel pin, Type 2
Workpiece Width : 100mm
Workpiece Thickness : 2.3mm

〈Determining H Dimension〉

H=C−B/2=10−6/2=7(㎜)

As the workpiece thickness is smaller than H dimension, X dimension will be determined by using the formula given under Case 1) on the previous page.

〈Determining X Dimension〉

X=B/2−F−[(C−B/2−t)×0.123]
=6/2−1−[(10−6/2−2.3)×0.123]
=3−1−[(4.7)×0.123]
=1.4(㎜)

〈Determining the installation-hole location〉

Installation-hole Location = Workpiece Width + X
=100+1.4
=101.4(㎜)

《Example 2》

Spring Locating Pin : BJ766-10001
Plastic pin, Type 1
Workpiece Width : 300mm
Workpiece Thickness : 40mm

〈Determining H Dimension〉

H=C−B/2=16.7−10/2=11.7(㎜)

As the workpiece thickness is greater than H dimension, X dimension will be determined by using the formula given under Case 2) on the previous page.

〈Determining X Dimension〉

X=B/2−F
=10/2−1.6
=3.4(㎜)

〈Determining the installation-hole location〉

Installation-hole Location = Workpiece Width + X
=300+3.4
=303.4(㎜)