

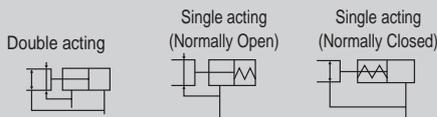
Compact cross roller parallel hand Double acting/single acting

BHA Series

● Operating Stroke: 5, 9, 11, 15 mm



Pneumatic Cylinders II
Catalog No. CB-030SA



Specifications

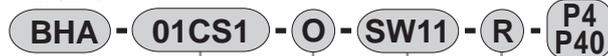
Item	BHA			
	01CS1	03CS1	04CS1	05CS1
Size	01CS1	03CS1	04CS1	05CS1
Bore size mm	ø12	ø16	ø20	ø25
Actuation	Double acting/single acting			
Working fluid	Compressed air			
Max. working pressure MPa	0.7			
Min. working pressure MPa	Double acting	0.1		
	Normally Open	0.3		
	Normally Closed			
Ambient temperature °C	5 to 60			
Port size	M3	M5		
Operating Stroke mm	5	9	11	15
Rod diameter mm	ø6	ø8	ø10	ø12
Capacity of reciprocation cm ³	0.32	1.58	2.89	6.32
Repeatability mm	±0.01			
Product weight kg	0.100	0.145	0.253	0.420
Lubrication	Not available			

How to order

Without switch



With switch



A Size

B Option
*1

C Switch model No.

D Switch quantity

Code	Description
A Size	
01CS1	
03CS1	
04CS1	
05CS1	
B Option	
Blank	Standard (double acting)
O	Single acting (Normally Open)
C	Single acting (Normally Closed)
Y1	With attachment (S50C)
Y2	With attachment (MC nylon)
C Switch model No.	
Refer to the compatibility table on Intro Pages 23 to 26 for switch model No.	
D Switch quantity	
R	1 on open side
H	1 on closed side
D	2

Compatibility table by variation

Applicable bore size	P4 P40	Double acting	Single acting Normally Open	Single acting Normally Closed
		O	C	
ø12/16	P4	●	●	●
20/25	P40	●	●	●

●: Applicable models ○: Semi-applicable models
▲: Contact CKD for details. □: Not applicable

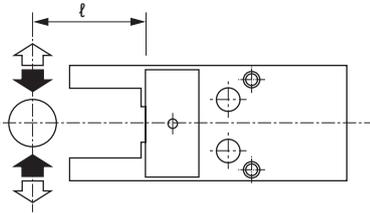
Precautions for model No. selection

*1: For option Y1 and Y2 attachments, two are included on delivery.

Gripping power performance data

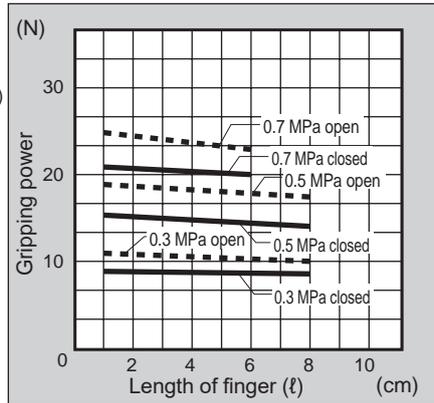
The gripping force in the opening/closing directions with a finger length l of the hand with a supply pressure of 0.3, 0.5, and 0.7 MPa is shown.

- Open direction (↔) ----- (Broken line)
- Close direction (→) ——— (shown with continuous line)

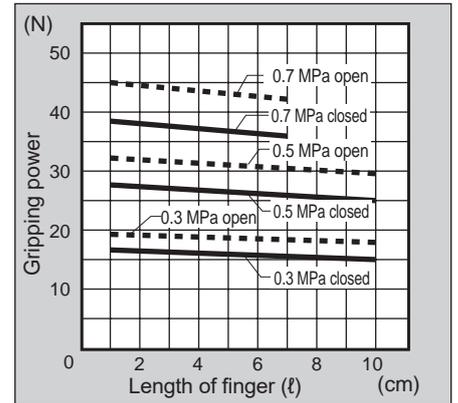


(Note) O type gripping force decreases approximately 20 to 30% in the closed direction compared to double acting. C type gripping force decreases approximately 10 to 20% in the open direction compared to the double acting type.

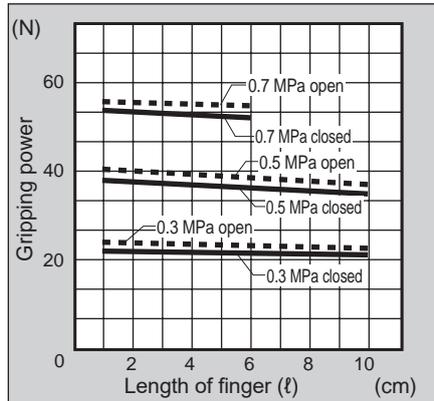
● BHA-01CS1



● BHA-03CS1



● BHA-04CS1



● BHA-05CS1

