



Pneumatic Cylinders II
Catalog No. CB-030SA

Thin parallel hand (bearing guide) Double acting

HLB Series

● Operating Stroke: 13, 18, 23mm

Double acting



Specifications

Item	HLB			
	12CS	15CS	20CS	
Size	12CS	15CS	20CS	
Bore size	mm	ø12	ø15	ø20
Actuation	Double acting			
Working fluid	Compressed air			
Max. working pressure	MPa	0.7		
Min. working pressure	MPa	0.1		
Ambient temperature	°C	5 to 60		
Port size	M5			
Operating Stroke	mm	13	18	23
Volumetric capacity (reciprocating)	cm ³	1.47	3.18	7.22
Repeatability	mm	±0.01		
Weight	kg	0.214	0.402	0.678
Lubrication	Not available			

Compatibility table by variation

Applicable bore size	Double acting	
	P4	P40
ø12/15/20	▲	▲

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

How to order

Without switch (built-in magnet for switch)



With switch (built-in magnet for switch)



A Size

B Switch model No.

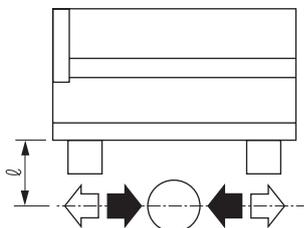
C Switch quantity

Code	Description
A	Size
	12CS
	15CS
	20CS
B	Switch model No.
	Refer to the compatibility table on Intro Pages 23 to 26 for switch model No.
C	Switch quantity
R	1 on open side
H	1 on closed side
D	2

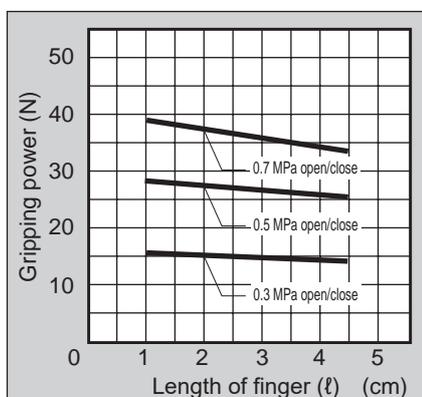
*1: Made-to-order product. Contact CKD Sales for details.

Gripping power performance data

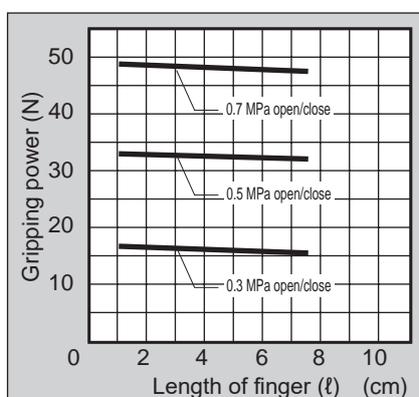
- Gripping power represents the thrust (per finger) in the arrow direction shown in the figure.
- The gripping force in the opening/closing directions with a finger length l of the hand with a supply pressure of 0.3, 0.5, and 0.7 MPa is shown.
 - Both open direction (⇐) and close direction (⇒) — (shown with continuous line)



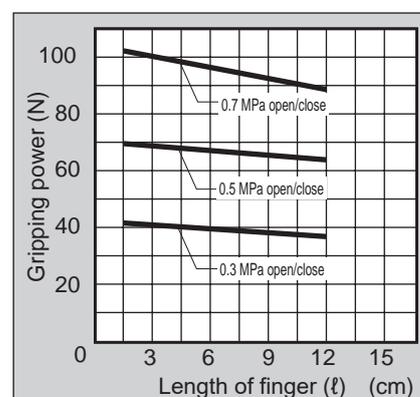
● HLB-12CS



● HLB-15CS



● HLB-20CS





Pneumatic Cylinders II
Catalog No. CB-030SA

Thin parallel hand with rubber cover (bearing guide) Double acting

HLBG Series

● Operating Stroke: 13, 18, 23 mm

Double acting



Specifications

Item	HLBG-12CS	HLBG-15CS	HLBG-20CS
Bore size mm	ø12	ø15	ø20
Actuation	Double acting		
Working fluid	Compressed air		
Max. working pressure MPa	0.7		
Min. working pressure MPa	0.2		
Ambient temperature °C	5 to 60		
Port size	M5		
Operating Stroke mm	13	18	23
Capacity of reciprocation cm ³	1.47	3.18	7.22
Repeatability mm	±0.01		
Product weight kg	0.24	0.42	0.75
Lubrication	Not available		

Compatibility table by variation

Applicable bore size	Double acting				
ø12/15/20	<table border="1"> <tr> <td>P4</td> <td>●</td> </tr> <tr> <td>P40</td> <td>●</td> </tr> </table>	P4	●	P40	●
P4	●				
P40	●				

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

How to order

With switch



Model No.

A Size

B Switch model No.

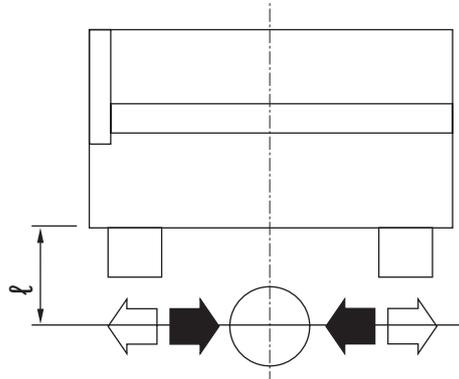
C Switch quantity

Code	Description
A	Size
	12CS
	15CS
	20CS
B	Switch model No.
	Refer to the compatibility table on Intro Pages 23 to 26 for switch model No.
C	Switch quantity
R	1 on open side
H	1 on closed side
D	2

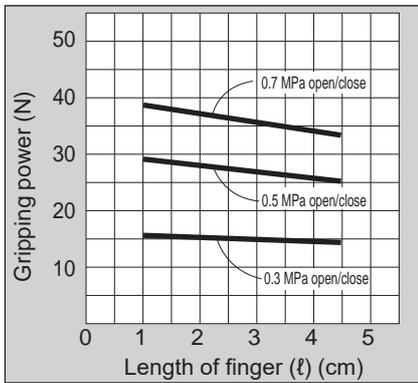
Gripping power performance data

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.

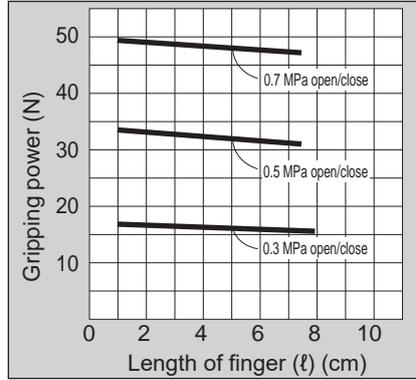
- Both open direction (↔) and close direction (←)
- (shown with continuous line)



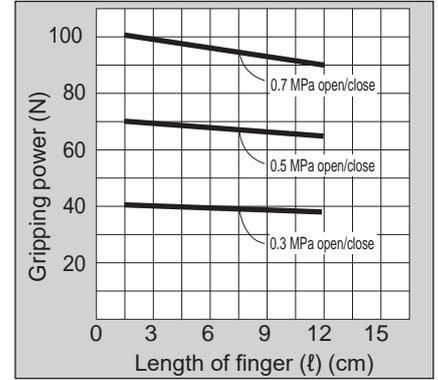
● HLBG-12CS



● HLBG-15CS



● HLBG-20CS



P4 Series

Pneumatic actuators
Hand/Chuck
Related products
Cylinder
Switch

Vacuum components

Pneumatic valves

Clean air components
controller

Pneumatic auxiliary components
Fitting
Auxiliary valve
Silencer
Tube

Gas generator

Fluid control components

Electric actuator
Motor specification
Motorless specifications