

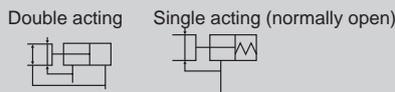


Pneumatic Cylinders II
Catalog No. CB-030SA

Feather hand (mini-parallel hand) Double acting/single acting

FH100-FP1 Series

● Operational stroke length: 8, 11, 14, 18, 20mm



Specifications

Item	FH100									
	FH110-D	FH112-D	FH116-D	FH120-D	FH125-D	FH110-0	FH112-0	FH116-0	FH120-0	FH125-0
Actuation	Double acting					Single acting				
Working fluid	Compressed air									
Max. working pressure MPa	0.7									
Min. working pressure MPa	0.15					0.25				
Proof pressure MPa	1.05									
Ambient temperature °C	5 to 60									
Port size	M 3 x 0.5		M 5 x 0.8			M 3 x 0.5		M 5 x 0.8		
Operating stroke length mm	8	11	15	18	20	8	11	15	18	20
Body weight g	51	71	124	176	284	51	71	124	177	286
Repeatability (initial value) mm	±0.03									
Max. operating frequency cycles/second	3									
Cushion	Open side rubber cushion									
Lubrication	Not required									
Option	Proximity switch (2-wire/3-wire) * Closed side speed controller									

* Integrated speed controller is available only for double acting.

How to order

Without switch



With switch



A Bore size

B Option

C Attachment
*1

D Switch model No.
*2

* indicates the lead wire length.

E Switch quantity

F End mount
*3

Code	Description
A Bore size	
10	ø10
12	ø12
16	ø16
20	ø20
25	ø25

B Option	
D	Standard (double acting)
O	Single acting (normally open)
Z	Double acting integrated speed controller

C Attachment	
Blank	Without attachment and
Y1	With attachment (S50C)
Y2	With attachment (MC nylon)

D Switch model No.						
Lead wire	Lead wire- shaped	Contact	Voltage		Display	Lead wire
			AC	DC		
T2H*	T2V*	Proximity	•		1-color display	2-wire
T3H*	T3V*		•			3-wire

* Lead wire length	
Blank	1 m (standard)
3	3 m (option)
5	5 m (option)

E Switch quantity	
R	1 on right (port) side open position
D	2

F End mount	
Blank	Without end mount
B	With end mount

⚠ Precautions for model No. selection

*1: Refer to Pneumatic Cylinders II (CB-030SA) for the dimensions and compatible model of the attachment. When ordered as an option, two are attached at shipment.

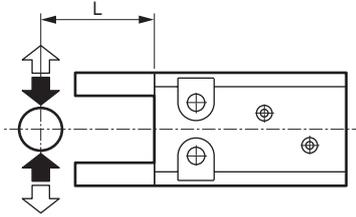
*2: Switches other than Ⓓ Switch model No. are also available. (Made to order) For details, refer to Pneumatic Cylinders II (CB-030SA).

*3: For the type with end mount (model No. B), select the radial lead wire type (model No. T*V) for switch. The end mount is attached at delivery.

Gripping power performance data

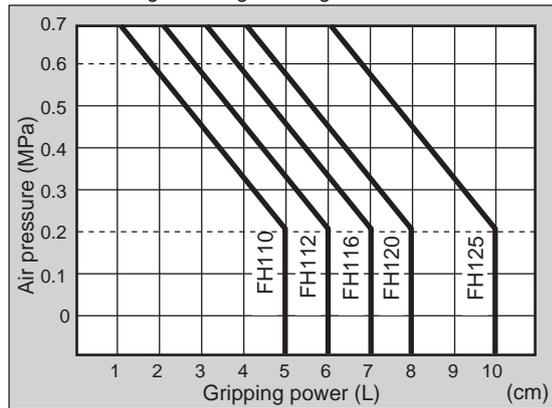
At supply pressure of 0.15 to 0.7MPa Open/ close direction with jaw length L of vertical handthe gripping power working in the direction.

- Open direction (↔) (Broken line)
- Closed direction (↔) (shown with continuous line)

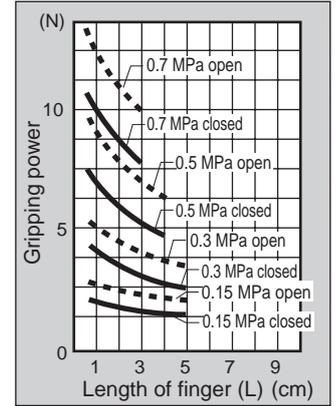


(Note) Single acting closed side gripping power is decreased by 25 to 30% compared to the double acting type.

Restriction range for length of finger L

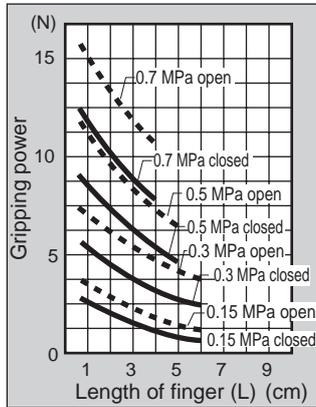


● FH110

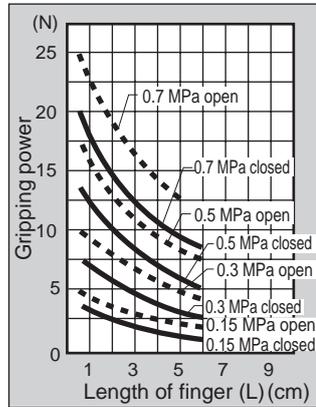


When making a selection Pneumatic Cylinders II (CB-030SA) for design and selection precautions.

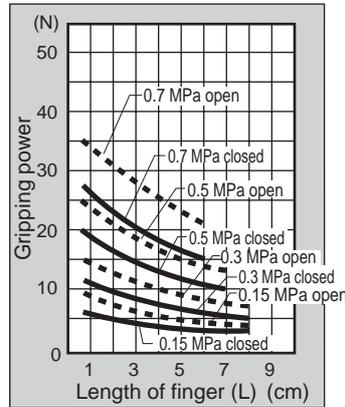
● FH112



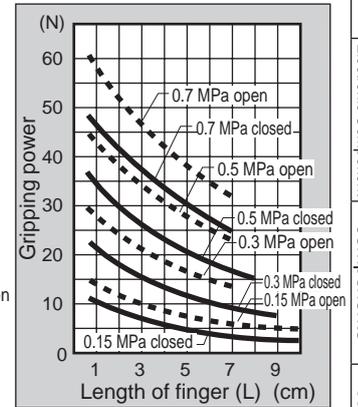
● FH116



● FH120



● FH125



Refer to the FH100 Series in "Pneumatic Cylinders II (CB-030SA)" for dimensions.

Electric actuator	Pneumatic cylinders	Assistive device	Pneumatic valves	FRL/Auxiliary Components	Electronic Component	Vacuum components	Main line components	Fluid control valves	Main line components	Anti-bacterial/bacteria-removing filter	Vacuum components	Fluid control valves