

Pneumatic Cylinders II
Catalog No. CB-030SA

Compact wide parallel hand (standard/long stroke)

HMF-FP1 Series

- Operating stroke length: Standard 30, 40, 50, 70, 100mm
Long stroke: 60, 80, 100, 120, 160, 200 mm

Double acting



Specifications

Item	HMF-12CS	HMF-16CS			HMF-20CS			HMF-25CS			HMF-32CS			HMF-40CS			
		Standard	L1	L2	Standard	L1	L2	Standard	L1	L2	Standard	L1	L2	Standard	L1	L2	
Bore size mm	ø12 x 2	ø16 x 2			ø20 x 2			ø25 x 2			ø32 x 2			ø40x2			
Working fluid	Compressed air																
Max. working pressure MPa	0.7																
Min. working pressure MPa	0.3																
Ambient temperature °C	5 to 60																
Port size	M5										Rc1/8						
Operating stroke length mm	20	30	60	80	40	80	100	50	100	120	70	120	160	100	160	200	
Rod diameter mm	ø6	ø8			ø10			ø12			ø16			ø20			
Capacity of reciprocation cm ³	3.4	9.1	18.1	24.1	18.8	37.6	47.0	37.7	75.4	90.5	84.4	145	193	226	301	377	
Repeatability mm	±0.1																
Product weight kg	0.31	0.54	0.95	1.12	0.90	1.58	1.77	1.7	2.16	2.3	2.8	3.8	4.8	5.7	7.8	8.8	
Lubrication	Not required																

How to order

HMF - 32CS - L1 - T2H - R - FP1

Ⓐ Size

Ⓑ Option
*1

Ⓒ Switch model No.

Ⓓ Switch quantity

Code		Description				
A Size						
12CS						
16CS						
20CS						
25CS						
32CS						
40CS						
B Option						
Blank		Standard				
L1		Long stroke 1				
L2		Long stroke 2				
C Switch model No.						
Lead wire Straight	Lead wire L-shaped	Contact Proximity	Voltage		Display	Lead wire
			AC	DC		
T2H*	T2V*				●	1-color
T3H*	T3V*			●	display	3-wire
* Lead wire length						
Blank		1 m (standard)				
3		3 m (option)				
5		5 m (option)				
D Switch quantity						
R		1 on open side				
H		1 on closed side				
D		2				

⚠ Precautions for model No. selection

*1:12CS is not available for long stroke "L1"~"L2".

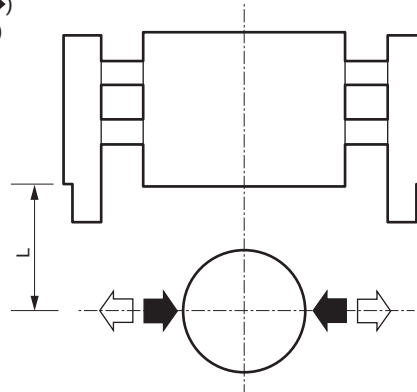
*2: Refer to Pneumatic Cylinders II (CB-030SA) for switches other than those listed here.

Gripping power performance data

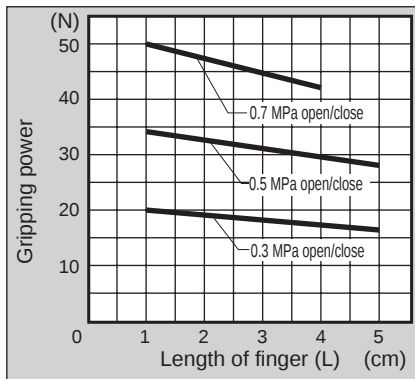
The gripping power with finger length L of hand and a supply pressure of 0.3, 0.5 and 0.7 MPa is shown.

- Both open direction (⇐) and close direction (⇒)
- (shown with continuous line)

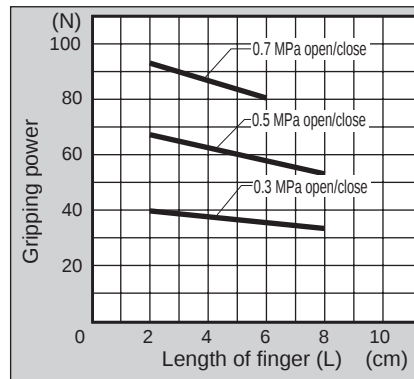
(Note) When making a selection, read the precautions for design and selection in Pneumatic Cylinders II (CB-030SA).



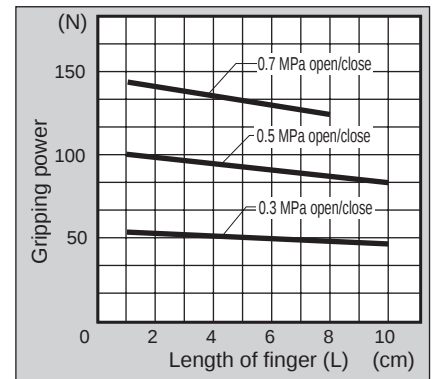
● HMF-12CS



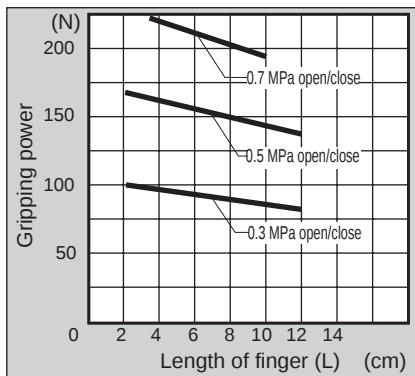
● HMF-16CS



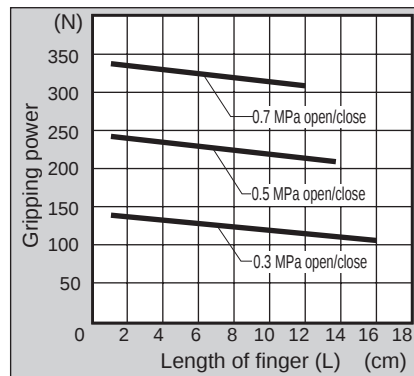
● HMF-20CS



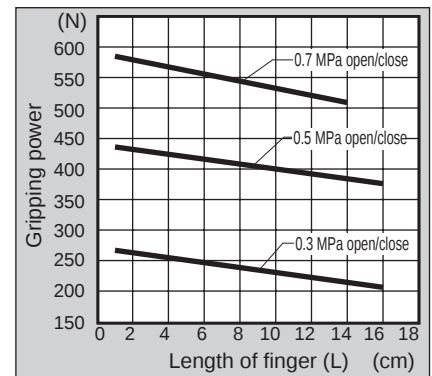
● HMF-25CS



● HMF-32CS



● HMF-40CS



For dimensions, refer to the HMF Series in "Pneumatic Cylinders II (CB-030SA)".