

Compact wide parallel hand (standard/long stroke)

HMF Series

- Operating Stroke: Standard 30, 40, 50, 70, 100 mm
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 pressureMPa	0.7																
Min. working pressureMPa	0.3																
Ambient temperature°C	5 to 60																
Port size	M5										Rc1/8						
Operating Strokemm	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 reciprocationcm 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 available																

Compatibility table by variation

Applicable bore size		Double acting			
		Standard	Long stroke 1		Long stroke 2
			L1	L2	
ø12 x 2 to ø40x2	P4	●	●	●	
	P40	●	●	●	

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

How to order

HMF - 32CS - L1 - SW11 - R - P4 P40

A Size

B Option
*1

C Switch model No.

D 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.	
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

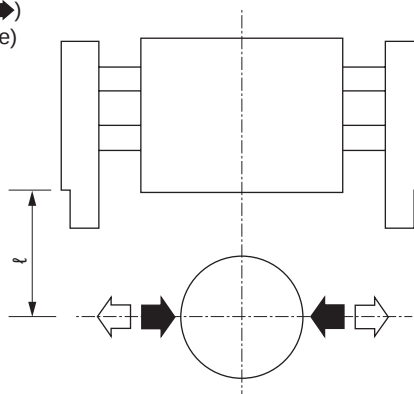
⚠ Precautions for model No. selection

*1: For 12CS, long stroke "L1" and "L2" is not available.

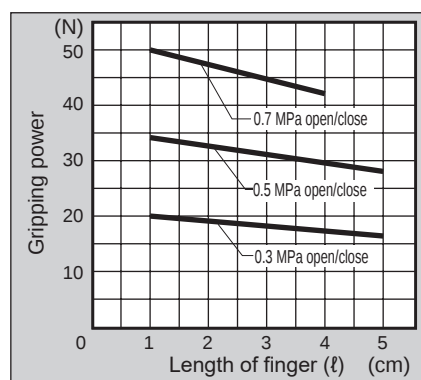
Gripping power performance data

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

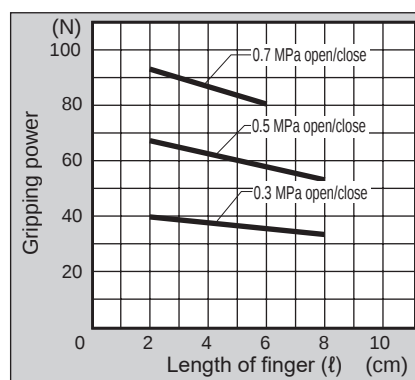
- Both open direction (↔) and closed direction (➡) (shown with continuous line)



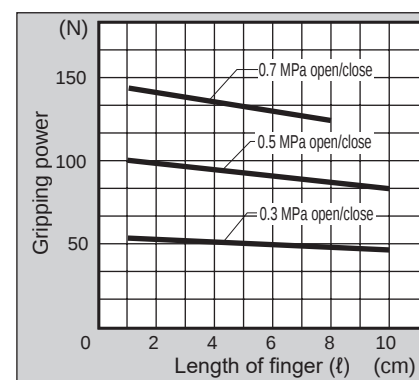
● HMF-12CS



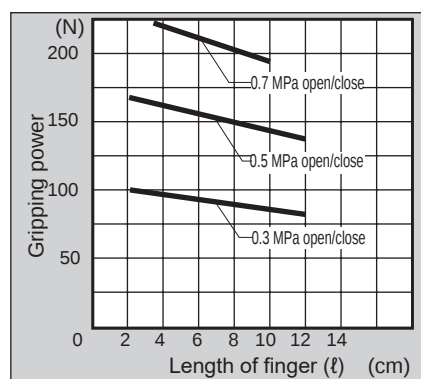
● HMF-16CS



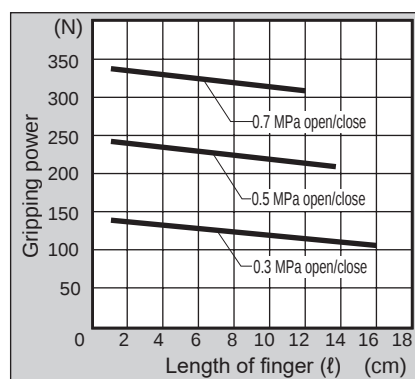
● HMF-20CS



● HMF-25CS



● HMF-32CS



● HMF-40CS

