

Compact wide parallel hand (standard/long stroke)

# HMF Series

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

Double acting



## Specifications

Descriptions	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	ø12×2	ø16×2			ø20×2			ø25×2			ø32×2			ø40×2		
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 <sup>3</sup>	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															

Hand/  
chuck

## Compatibility table by variation

Applicable bore size		Double acting		
		Standard	Long stroke 1	Long stroke 2
			L1	L2
ø12×2 to ø40×2	P4	●	●	●
	P40	●	●	●

## How to order

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

Ⓐ Size

Ⓑ Option  
\*1

Ⓒ Switch model No.

Ⓓ Switch quantity

Code	Content
<b>Ⓐ Size</b>	
12CS	
16CS	
20CS	
25CS	
32CS	
40CS	
<b>Ⓑ Option</b>	
Blank	Standard
L1	Long stroke 1
L2	Long stroke 2
<b>Ⓒ Switch model No.</b>	
Refer to the compatibility table on Intro Pages 21 to 24 for switch model No.	
<b>Ⓓ Switch quantity</b>	
R	1 on open side
H	1 on closed side
D	2

## ⚠ Precautions for model No. selection

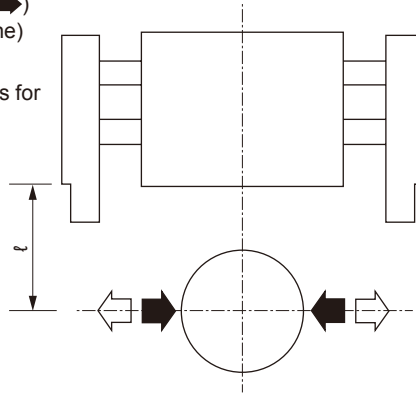
\*1: 12CS is not available for long stroke "L1", "L2".

## Gripping power performance data

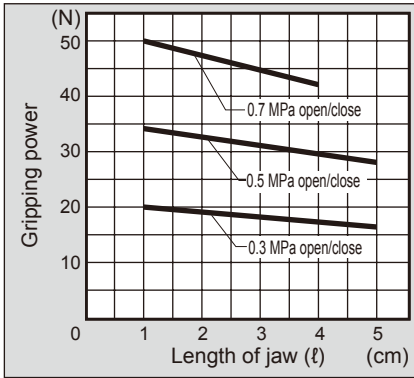
The gripping power with jaw length  $\ell$  of hand and a supply pressure of 0.3, 0.5 and 0.7 MPa is shown.

- Both open direction (◀) and closed direction (▶)
- (shown with continuous line)

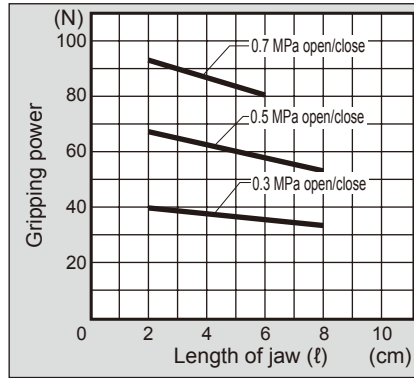
(Note) When making a selection, read the precautions for design and selection on page 107.



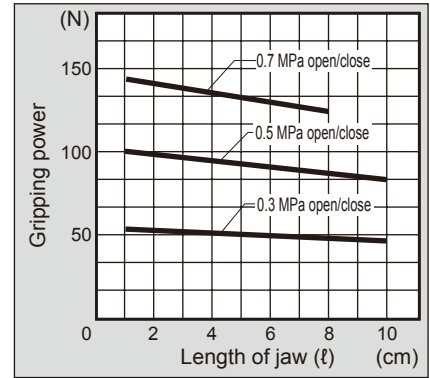
● HMF-12CS



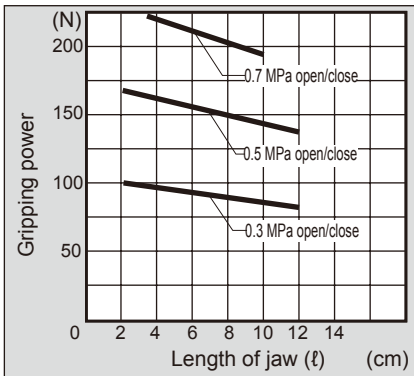
● HMF-16CS



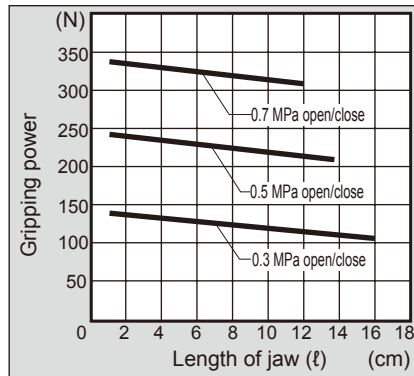
● HMF-20CS



● HMF-25CS



● HMF-32CS



● HMF-40CS

