



Pneumatic Cylinders II  
Catalog No. CB-030SA

# Thin wide angle hand HMD Series

● Open/close degree: -4° to 184°

Double acting



## Specifications

Item	HMD	
Size	16CS	25CS
Bore size mm	ø16	ø25
Actuation	Double acting	
Working fluid	Compressed air	
Max. working pressure MPa	0.7	
Min. working pressure MPa	0.3	
Ambient temperature °C	5 to 60	
Port size	M3	M5
Open/close degree °	-4 to 184	
Rod diameter mm	ø6	ø8
Capacity of reciprocation cm <sup>3</sup>	5.8	19.4
Repeatability mm	±0.2	
Product weight kg	0.13	0.38
Lubrication	Not available	

## Compatibility table by variation

Applicable bore size		Double acting
		Standard
ø16/25	P4	●
	P40	●

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

## How to order

Without switch

**HMD - 16CS - P4 P40**

With switch

**HMD - 16CS - SW11 - R - P4 P40**

Model No.

**A** Size

**B** Switch model No.

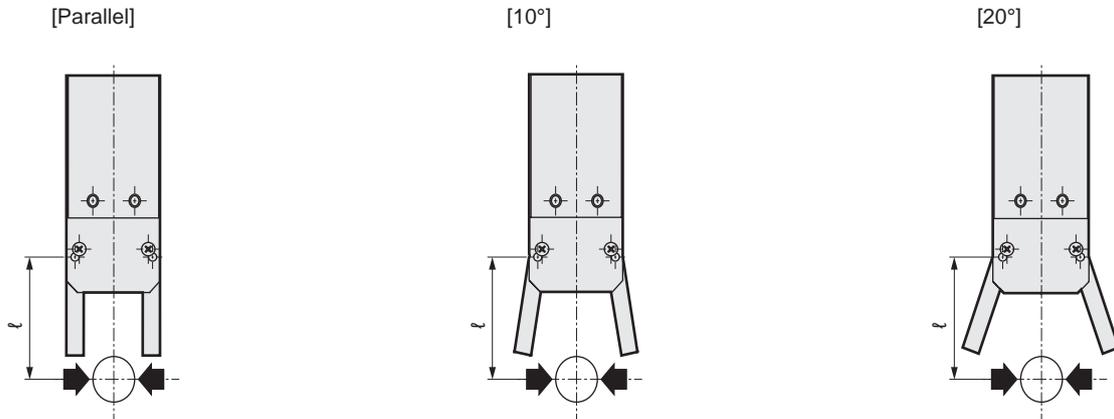
**C** Switch quantity

Code	Description
<b>A</b>	<b>Size</b>
	16CS
	25CS
<b>B</b>	<b>Switch model No.</b>
	Refer to the compatibility table on Intro Pages 23 to 26 for switch model No.
<b>C</b>	<b>Switch quantity</b>
R	1 on open side
H	1 on closed side
D	2

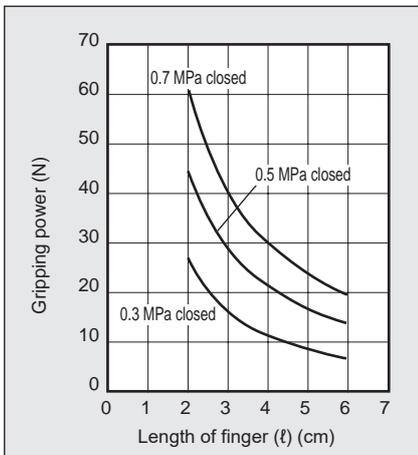
### Gripping power performance data

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

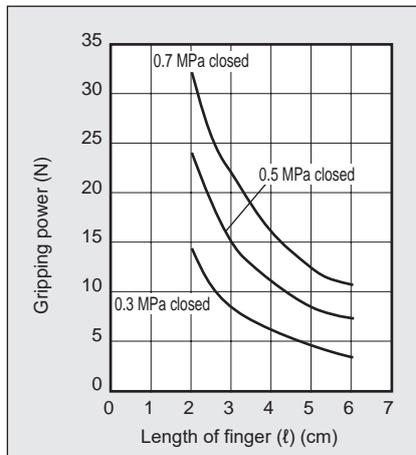
• Close direction (➡) (shown with continuous line)



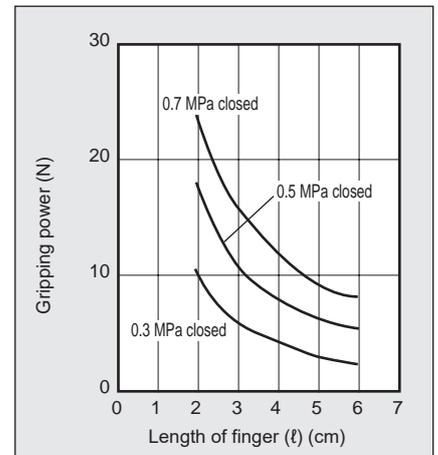
● HMD-16CS



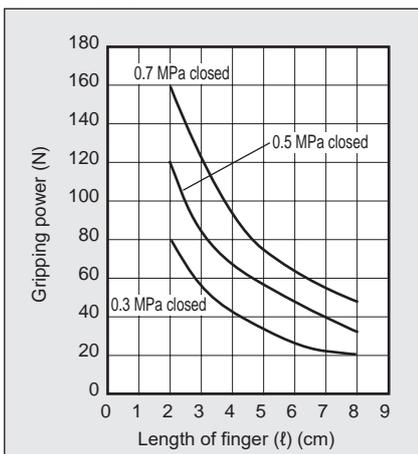
● HMD-16CS



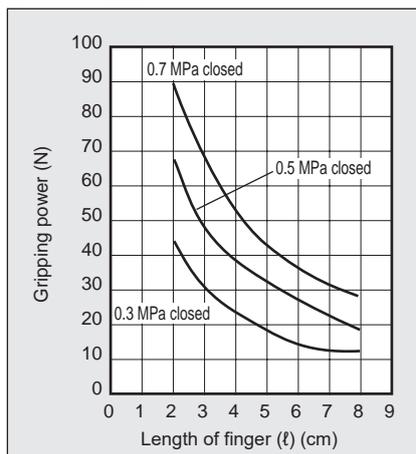
● HMD-16CS



● HMD-25CS



● HMD-25CS



● HMD-25CS

