



Pneumatic Cylinders II
Catalog No. CB-030SA

Cross roller parallel hand Double acting/single acting

HKP Series

● Operating Stroke: 24, 30, 36, 40, 60 mm

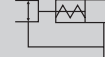
Double acting



Single acting
(Normally Open)



Single acting
(Normally Closed)



Specifications

Descriptions		HKP				
Size		32CS	40CS	50CS	63CS	80CS
Bore size mm		ø32	ø40	ø50	ø63	ø80
Actuation		Double acting/single acting				Double acting
Working fluid		Compressed air				
Max. working pressure MPa		0.7				
Min. working pressure ^{Note} MPa	Double acting	0.1				0.3
	Normally Open	0.3				-
	Normally Closed					
Ambient temperature °C		5 to 60				
Port size		M5	Rc1/8			Rc1/4
Operating Stroke mm		24	30	36	40	60
Rod diameter mm		ø16	ø20	ø28	ø32	ø16
Capacity of reciprocation cm ³		25.3	49.5	89.4	162.9	354.5
Repeatability mm		±0.01				
Product weight kg		1.36	1.95	4.2	5.4	10.6
Lubrication		Not available				

Note: When a rubber cover (option) is attached, the min. working pressure is 0.15MPa for double acting and 0.35MPa for Normally Open/Normally Closed.

Compatibility table by variation

Applicable bore size		Double acting	Single acting Normally Open	Single acting Normally Closed	Rubber cover (Nitrile rubber)
			O	C	G
ø32 to 80	P4	●	●	●	●
	P40	●	●	●	●

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

How to order

Without switch



With switch



A Size

B Option

C Switch model No.

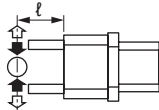
D Switch quantity

Code	Item					
A Size						
32CS						
40CS						
50CS						
63CS						
80CS						
B Option						
Size		32CS	40CS	50CS	63CS	80CS
Blank	Standard (double acting)	●	●	●	●	●
O	Single acting (Normally Open)	●	●	●	●	□
C	Single acting (Normally Closed)	●	●	●	●	□
G	With rubber cover (nitrile rubber)	●	●	●	●	□
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					

Gripping power performance data

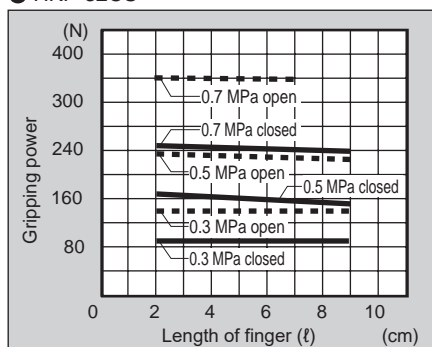
The gripping force in the opening/closing directions with a finger length l of the hand with a supply pressure of 0.3, 0.5, and 0.7 MPa is shown.

- Open direction (←) (shown with broken line)
- Close direction (→) ——— (shown with continuous line)

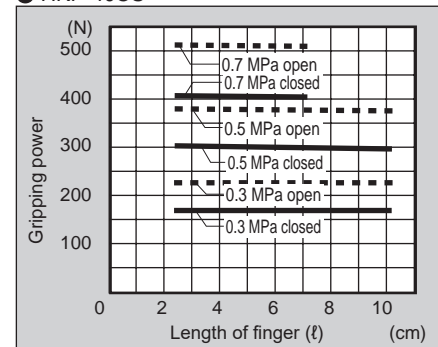


(Note) O type gripping force decreases approximately 20 to 30% in the closed direction compared to double acting. C type gripping force decreases approximately 10 to 20% in the open direction compared to the double acting type.

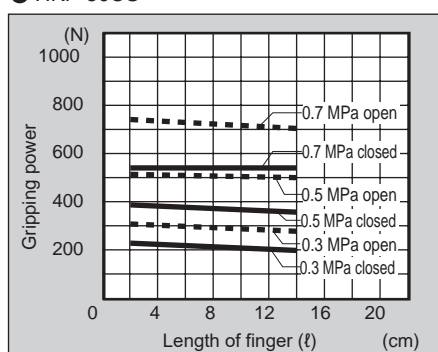
● HKP-32CS



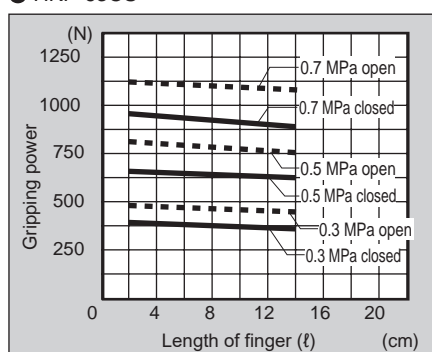
● HKP-40CS



● HKP-50CS



● HKP-63CS



● HKP-80CS

