



Pneumatic Cylinders II
Catalog No. CB-030SA

Powerful chuck

CKL2 Series

● Operating Stroke: 5, 6, 8, 10, 12, 16, 20, 23 mm

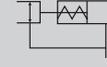
Double acting



Single acting (Normally Open)



Single acting (Normally Closed)



Specifications

Item	CKL2							
Size	20CS	25CS	32CS	40CS	50CS	63CS	80CS	100CS
Bore size mm	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100
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 mm	5	6	8	10	12	16	20	23
Rod diameter mm	ø6	ø8	ø10	ø12	ø14	ø16		ø20
Capacity of reciprocation cm ³	1.8	3.3	7.7	15.6	28.3	60.3	118.2	215.5
Repeatability mm	±0.01							
Product weight kg	0.12	0.19	0.26	0.38	0.59	1.02	2.02	3.45
Lubrication	Not available							

How to order

Without switch



With switch



A Size

B Option
*1, *2

C Switch model
No.

D Switch quantity

Compatibility table by variation

Applicable bore size		Double acting	Single acting Normally Open	Single acting Normally Closed
			O	C
ø20/25/32/ 40/50/63/ 80/100	P4	●	●	●
	P40	●	●	●

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

Precautions for model No. selection

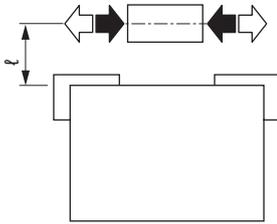
- *1: Attachment is commonly used for internal and external diameter chuck.
- *2: For option Y1 and Y2 attachments, three are included on delivery.

Code	Description
A Size	
20CS	
25CS	
32CS	
40CS	
50CS	
63CS	
80CS	
100CS	
B Option	
Blank	Standard (double acting)
O	Single acting (Normally Open)
C	Single acting (Normally Closed)
Y1	With attachment (S50C)
Y2	With attachment (MC nylon)
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.

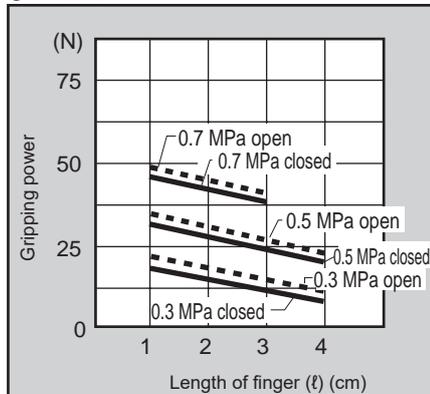
- Open direction (←) - - - - (shown with broken line)
- Close direction (→) ———— (shown with continuous line)



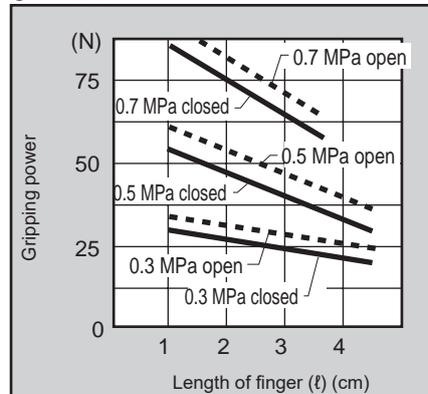
(Note) O type gripping force decreases approximately 20 to 30% in the closed direction compared to double acting.

C type gripping force decreases approximately 10 to 20% in the open direction compared to the double acting type.

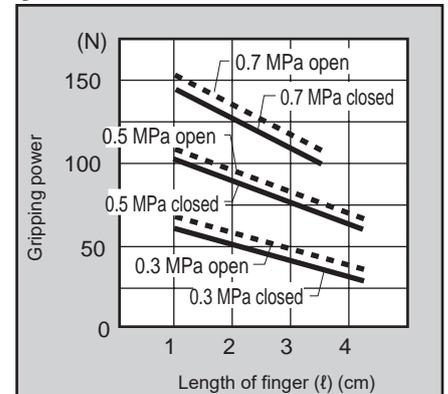
● CKL2-20CS



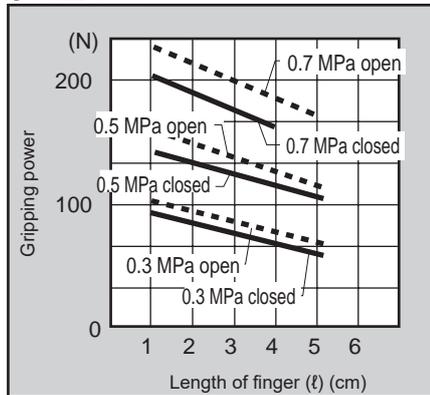
● CKL2-25CS



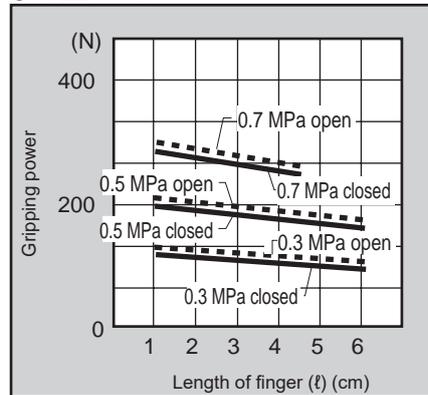
● CKL2-32CS



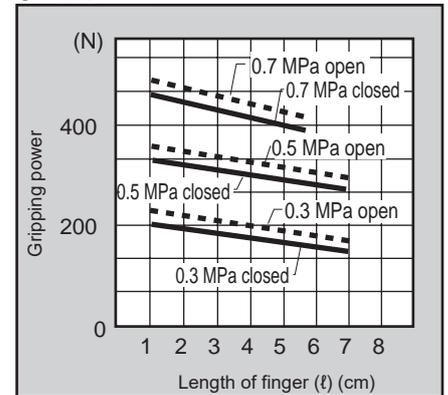
● CKL2-40CS



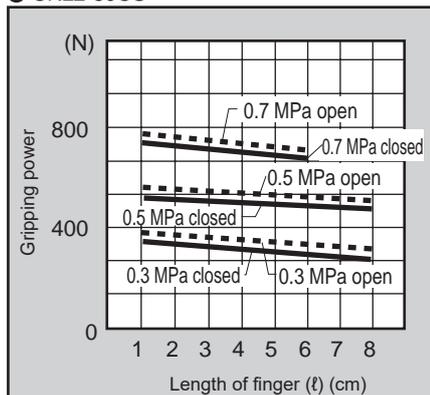
● CKL2-50CS



● CKL2-63CS



● CKL2-80CS



● CKL2-100CS

