



Pneumatic Cylinders II
Catalog No. CB-030SA

Powerful chuck

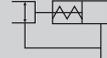
CKL2-FP1 Series

● Operational stroke length: 5, 6, 8, 10, 12, 16, 20, 23mm

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 length mm	5	6	8	10	12	16	20	23
Rod diameter mm	ø6	ø8	ø10	ø12	ø14	ø16		ø20
Volumetric capacity (reciprocating) cm ³	1.8	3.3	7.7	15.6	28.3	60.3	118.2	215.5
Repeatability mm	±0.01							
Weight kg	0.12	0.19	0.26	0.38	0.59	1.02	2.02	3.45
Lubrication	Not required							

How to order

Without switch (built-in magnet for switch)

CKL2 - 20CS - O - FP1

With switch (built-in magnet for switch)

CKL2 - 20CS - O - T2H - R - FP1

A Size

B Option
*1, *2

C Switch model No.

D Switch quantity

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.						
Lead wire	Lead wire	Contact	Voltage		Display	Lead wire
			AC	DC		
Straight	L-shaped	Proximity		●	1-color	2-wire
T2H*	T2V*			●	display	3-wire
T3H*	T3V*					

* Lead wire length	
Blank	1 m (standard)
3	3 m (option)
5	5 m (option)

D Switch quantity	
R	1 on open side
H	1 on closed side
D	2

⚠ Precautions for model No. selection

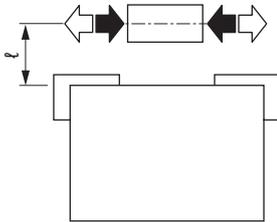
*1: Attachment is commonly used for internal and external chuck.

*2: Refer to Pneumatic Cylinders II (CB-030SA) for the dimensions and compatible model of the attachment. When ordered as an option, three are attached at shipment.

Gripping power performance data

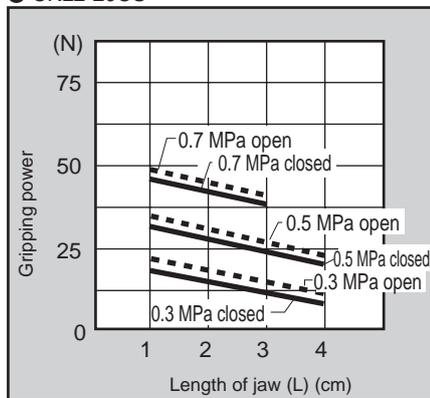
The gripping power in the opening/closing directions with a finger length l of the hand with a supply pressure of 0.3, 0.5, and 0.7 MPa is shown.

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

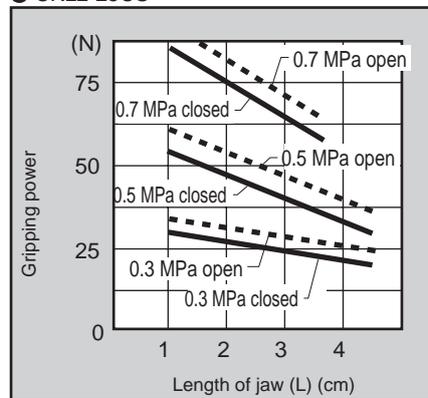


(Note) O type gripping power decreases approximately 20 to 30% in the closing direction compared to double acting. C type gripping power decreases approximately 10 to 20% in the opening direction compared to the double acting type. When making a selection, read the precautions for design and selection in Pneumatic Cylinders II (CB-030SA).

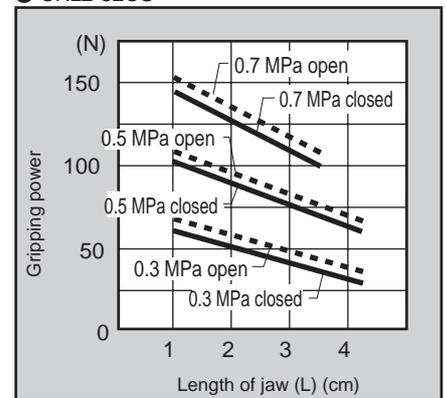
● CKL2-20CS



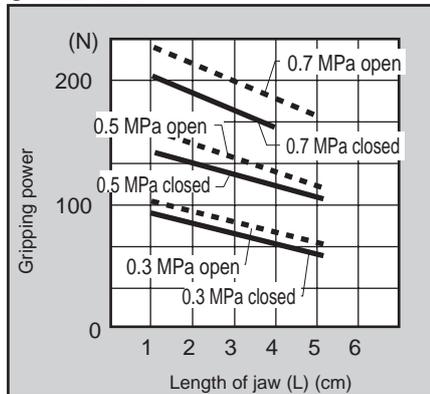
● CKL2-25CS



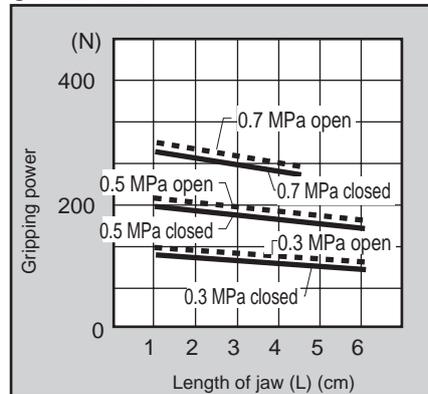
● CKL2-32CS



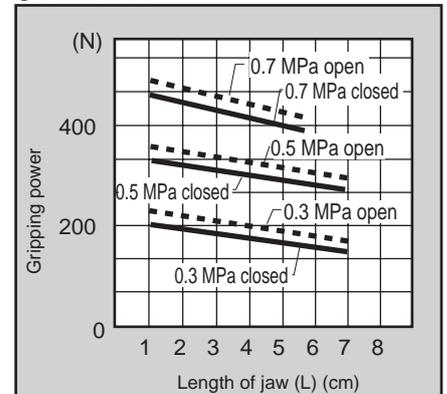
● CKL2-40CS



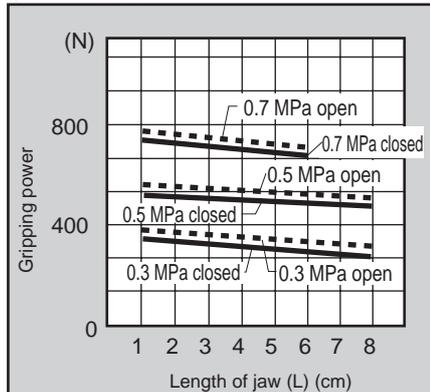
● CKL2-50CS



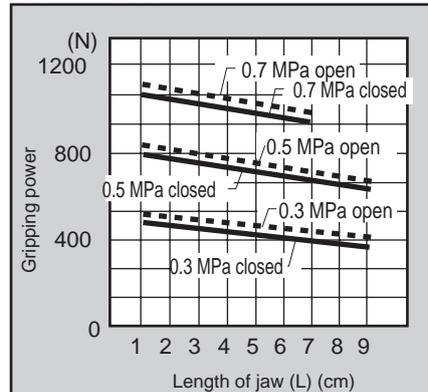
● CKL2-63CS



● CKL2-80CS



● CKL2-100CS



Refer to the CKL2 Series in "Pneumatic Cylinders II (CB-030SA)" for dimensions.

Electric actuator	Pneumatic cylinders	Assistive device	Pneumatic valves	FL/Auxiliary Components Electronic Component	Vacuum components	Main line components	Fluid control valves	Main line components	Anti-bacterial/bacteria-removing filter	Vacuum components	Fluid control valves
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Pneumatic Cylinders II
Catalog No. CB-030SA

Powerful chuck with rubber cover

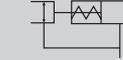
CKLG2-FP1 Series

● Operational stroke length: 5, 6, 8, 10, 12, 16, 20, 23mm

Double acting

Single acting (normally open)

Single acting (normally closed)



Specifications

Item	CKLG2							
	20CS	25CS	32CS	40CS	50CS	63CS	80CS	100CS
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 length mm	5	6	8	10	12	16	20	23
Rod diameter mm	ø6	ø8	ø10	ø12	ø14	ø16		ø20
Volumetric capacity (reciprocating) cm ³	1.8	3.3	7.7	15.6	28.3	60.3	118.2	215.5
Repeatability mm	±0.01							
Weight (*1) kg	0.14 (0.17)	0.21 (0.25)	0.27 (0.33)	0.40 (0.52)	0.60 (0.71)	1.13 (1.30)	2.02 (2.59)	3.38 (4.00)
Lubrication	Not required							

How to order

Without switch (built-in magnet for switch)

CKLG2 - 20CS - O - FP1

With switch (built-in magnet for switch)

CKLG2 - 20CS - O - T2H - R - FP1

A Size

B Option
*2, *3

C Switch model No.

D Switch quantity

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.						
Lead wire	Lead wire	Contact	Voltage		Display	Lead wire
Straight	L-shaped		AC	DC		
T2H*	T2V*	Proximity	●	1-color	display	2-wire
T3H*	T3V*		●	3-wire		
* Lead wire length						
Blank	1 m (standard)					
3	3 m (option)					
5	5 m (option)					
D Switch quantity						
R	1 on open side					
H	1 on closed side					
D	2					

⚠ Precautions for model No. selection

*1 : () is the weight of single acting.

*2 : Attachment is commonly used for internal and external diameter chuck.

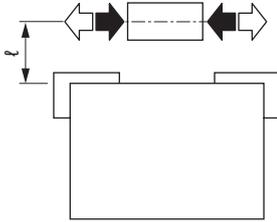
*3 : Refer to CKL2 in Pneumatic Cylinders II (CB-030SA) for the dimensions and compatible model of the attachment. When ordered as an option, three are attached at shipment.

Refer to the CKLG2 Series in "Pneumatic Cylinders II (CB-030SA)" for dimensions.

Gripping power performance data

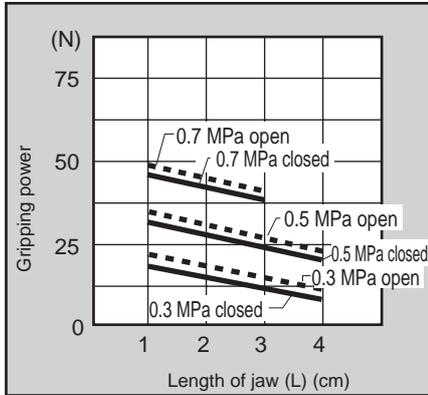
The gripping power in the opening/closing directions with a finger length l of the hand with a supply pressure of 0.3, 0.5, and 0.7 MPa is shown.

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

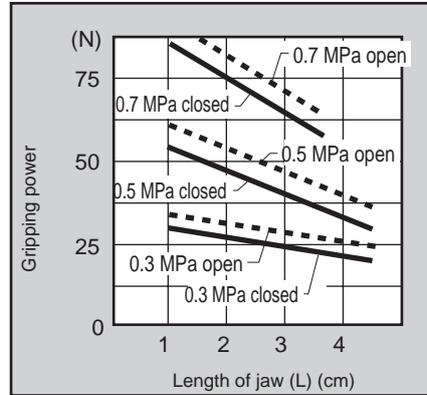


(Note) O type gripping power decreases approximately 20 to 30% in the closing direction compared to double acting. C type gripping power decreases approximately 10 to 20% in the opening direction compared to the double acting type. When making a selection, read the precautions for design and selection in Pneumatic Cylinders II (CB-030SA).

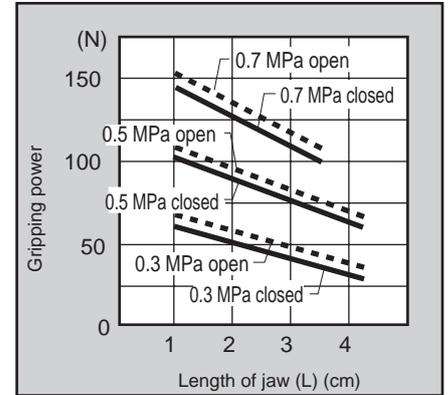
● CKLG2-20CS



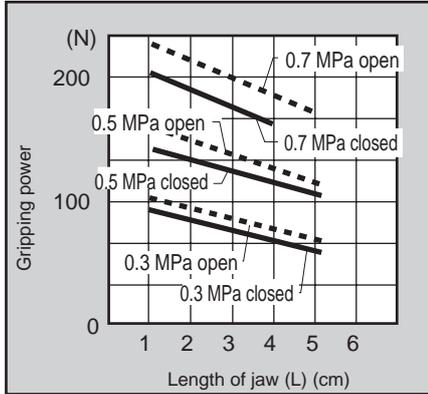
● CKLG2-25CS



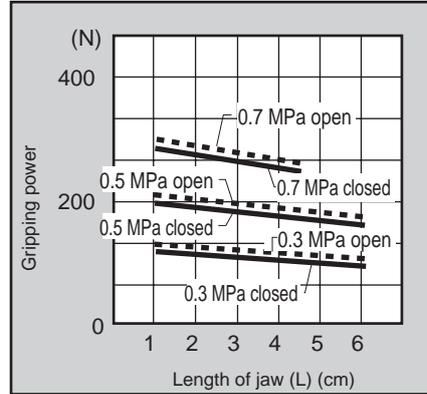
● CKLG2-32CS



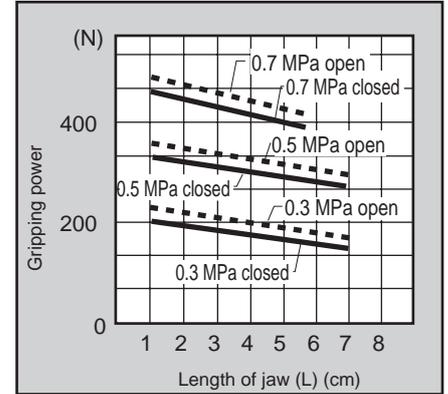
● CKLG2-40CS



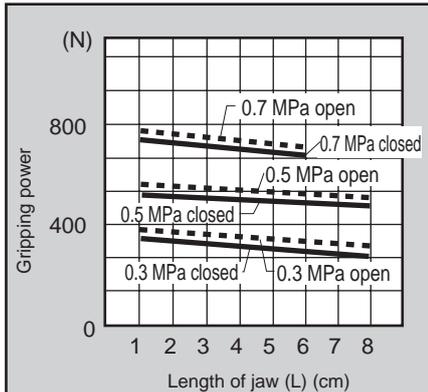
● CKLG2-50CS



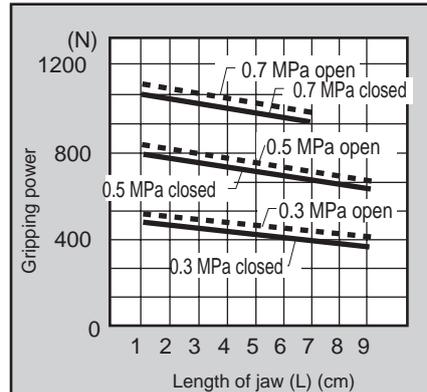
● CKLG2-63CS



● CKLG2-80CS



● CKLG2-100CS



Electric actuator
Pneumatic cylinders
Assistive device
Pneumatic valves
FRL/Auxiliary Components
Electronic Component
Vacuum components
Main line components
Fluid control valves
Main line components
Anti-bacterial/bacteria-removing filter
Vacuum components
Fluid control valves

FP1

FP2