



Powerful Chuck with Rubber Cover

CKLG2 Series

- Operating stroke: 5, 6, 8, 10, 12, 16, 20, 23 mm

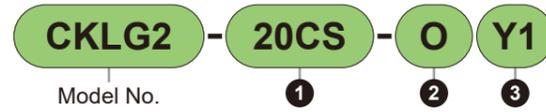


Specifications

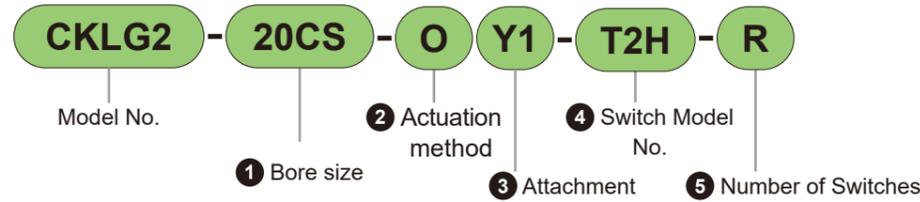
Item	CKLG2								
	20CS	25CS	32CS	40CS	50CS	63CS	80CS	100CS	
Size	20CS	25CS	32CS	40CS	50CS	63CS	80CS	100CS	
Bore size	mm	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100
Operating Fluid	Compressed Air								
Max. Working Pressure	MPa	0.7							
Min. Operating Pressure	MPa	0.3							
Ambient Temperature	°C	5 to 60							
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
Internal volume (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	Standard	0.14	0.21	0.27	0.40	0.60	1.13	2.02	3.38
	O: Single acting normally open	0.17	0.25	0.33	0.52	0.71	1.30	2.59	4.00
	C: Single acting normally closed	0.17	0.25	0.33	0.52	0.71	1.39	2.71	4.10
Lubrication	Not required (When lubricating, use turbine oil Class 1 ISO VG32)								

Model No. Notation Method

Without Switch
(Built-in magnet for switch)



With Switch
(Built-in magnet for switch)



1 Bore Size (mm)

Code	Content
20CS	ø20
25CS	ø25
32CS	ø32
40CS	ø40
50CS	ø50
63CS	ø63
80CS	ø80
100CS	ø100

2 Actuation method

Code	Content
Blank	Standard (Double Acting)
O	Single acting type (Normally open:)
C	Single acting type (Normally closed:)

3 Attachment

Code	Content
Blank	Without attachments
Y1	With attachments Material (S50C)
Y2	With attachments Material (MC Nylon)

*1, *2
*1: Attachment is commonly used for internal and external diameter chuck.
*2: Refer to P. 486 for the Dimensions and compatible model of the attachment. When ordered as an option, it will be shipped included with a quantity of 3.

4 Switch Model No.

For switch details, please refer to P. 573. Switches are included to the product and shipped.

Contact	Indicator LED Special Function	Wiring (Output)	Load Voltage (V)		Load Current (mA)		Lead wire *1	
			AC	DC	AC	DC	Straight	L-shape
Solid State	1-Color	2-wire	-	10 to 30	-	5 to 20 *2	T2H□	T2V□
		3-wire (NPN)	-	30 or less	-	100 or less	T3H□	T3V□
	1-Color Flexible Lead Wire Type	2-wire	-	10 to 30	-	5 to 20 *2	T2HR3	T2VR3

*1: For "□" in the switch model number, enter the code selected from the "Lead wire length" table.
*2: Maximum load current value above: 20 mA, is at 25°C. If the switch operating ambient temperature is higher than 25°C, it will be lower than 20 mA. (At 60°C, it will be 5 to 10 mA.)
*3: Switches other than the switch model numbers are also available. (Custom Product) For details, see P. 573.

*Lead wire length

Code	Content
Blank	1 m (Standard)
3	3 m (Option)
5	5 m (Option)

Example) Lead wire length
1 m T2H
3 m T2H³
5 m T2H⁵

5 Number of Switches

Code	Content
R	With 1 pc. on Open Side
H	With 1 pc. on Close Side
D	With 2 pcs

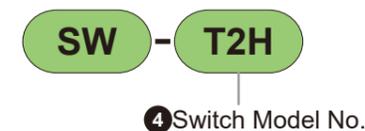
* When 2 switches are included, for models with a short operating stroke, both switches may turn ON depending on the size of the workpiece. Please be careful.

Food Manufacturing Process Compatible Specification (Catalog No. CC-1271AA)

- Uses food grade grease that can be used in food manufacturing processes



Switch Single Unit Model No. Notation Method



Check Valve

CKW-HP

CKL2

CKLG2

CKL2 -□-HC

CKH2

CKLB2

CKG

CK

CKA

CKS

CKS-F

CKF

CKJ

Check Valve

CKW-HP

CKL2

CKLG2

CKL2 -□-HC

CKH2

CKLB2

CKG

CK

CKA

CKS

CKS-F

CKF

CKJ

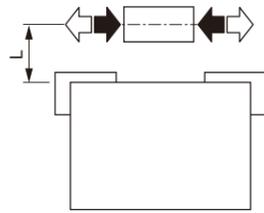
Cylinder Switch

Ending

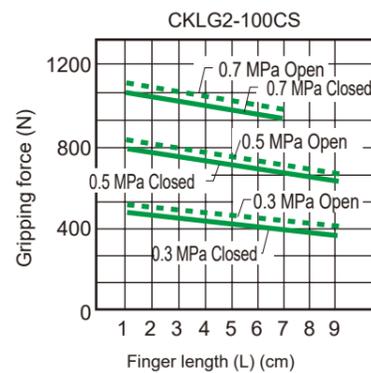
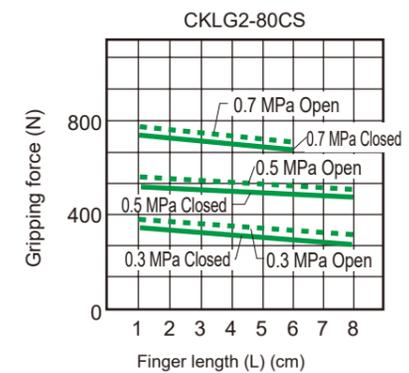
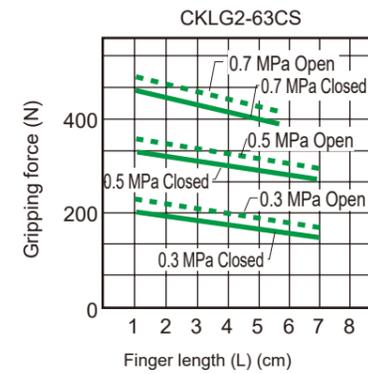
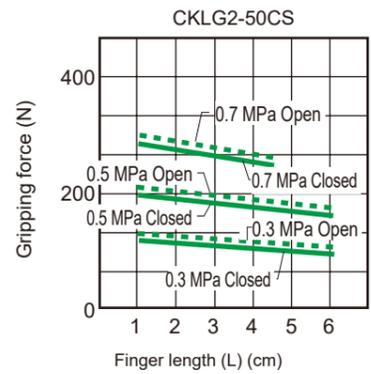
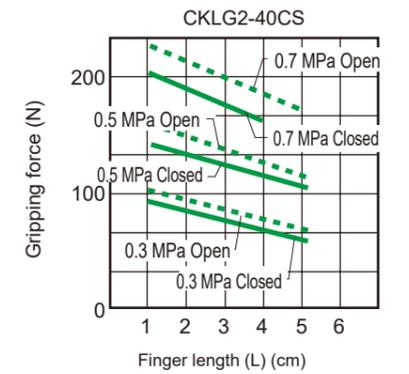
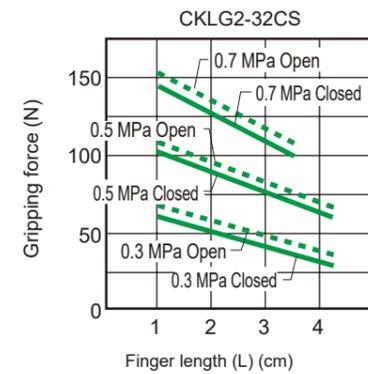
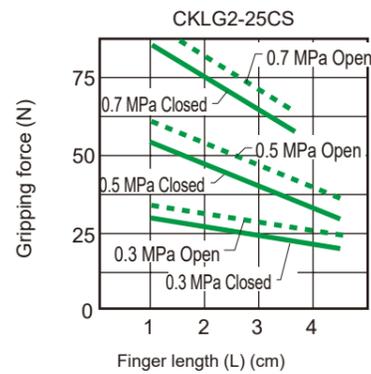
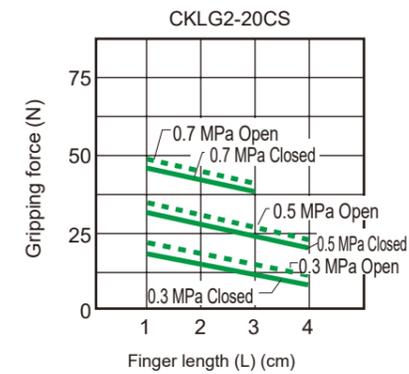
Gripping Force Performance Data

- Gripping force represents the thrust (for one finger) in the direction of the arrow shown in the figure.
- The gripping force in the opening/closing directions with finger length L of hand with a supply pressure of 0.3, 0.5 and 0.7 MPa is shown.

- Opening direction (←→) --- (Dashed line)
- Closing direction (→) — (Solid line)



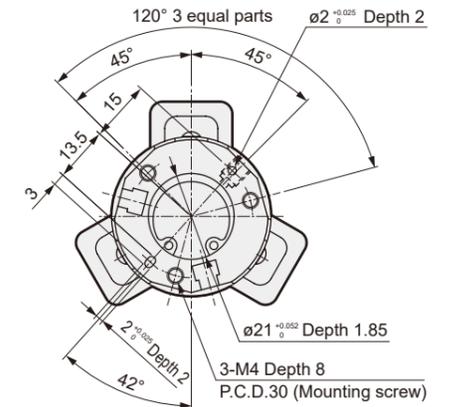
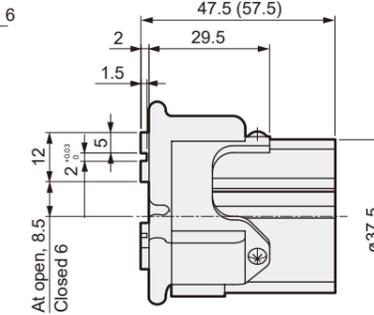
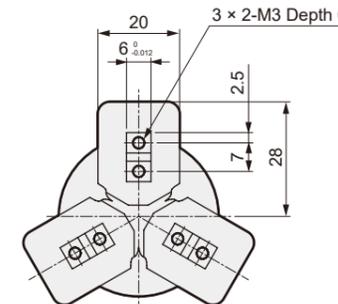
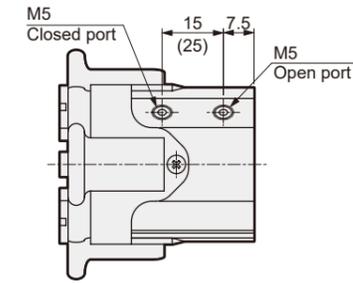
Note) O type gripping force is approx. 20 to 30% lower in the closing direction compared to the double acting type. C type gripping force is approx. 10 to 20 % lower in the opening direction compared to the double acting type.
When selecting, check the design and selection precautions on P. 490.



Outline Dimension Drawing

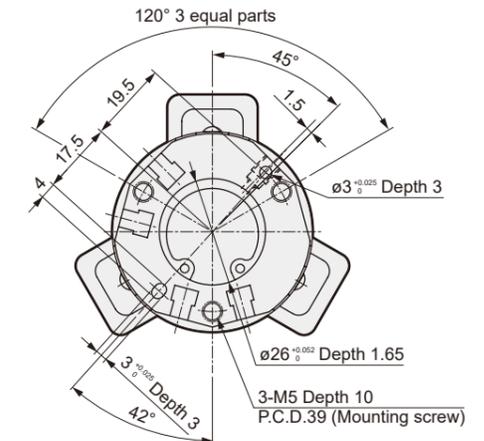
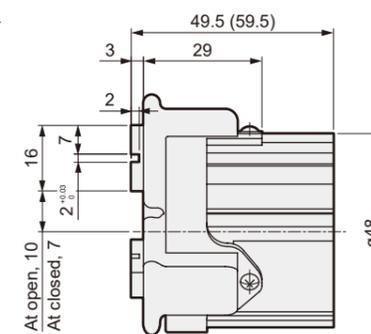
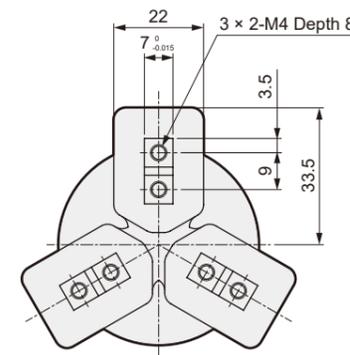
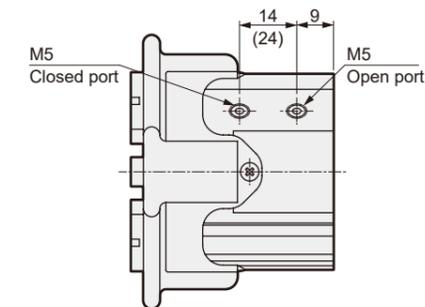
● CKLG2-20CS

• Dimensions in () for O [normally open] and C [normally closed] specifications



● CKLG2-25CS

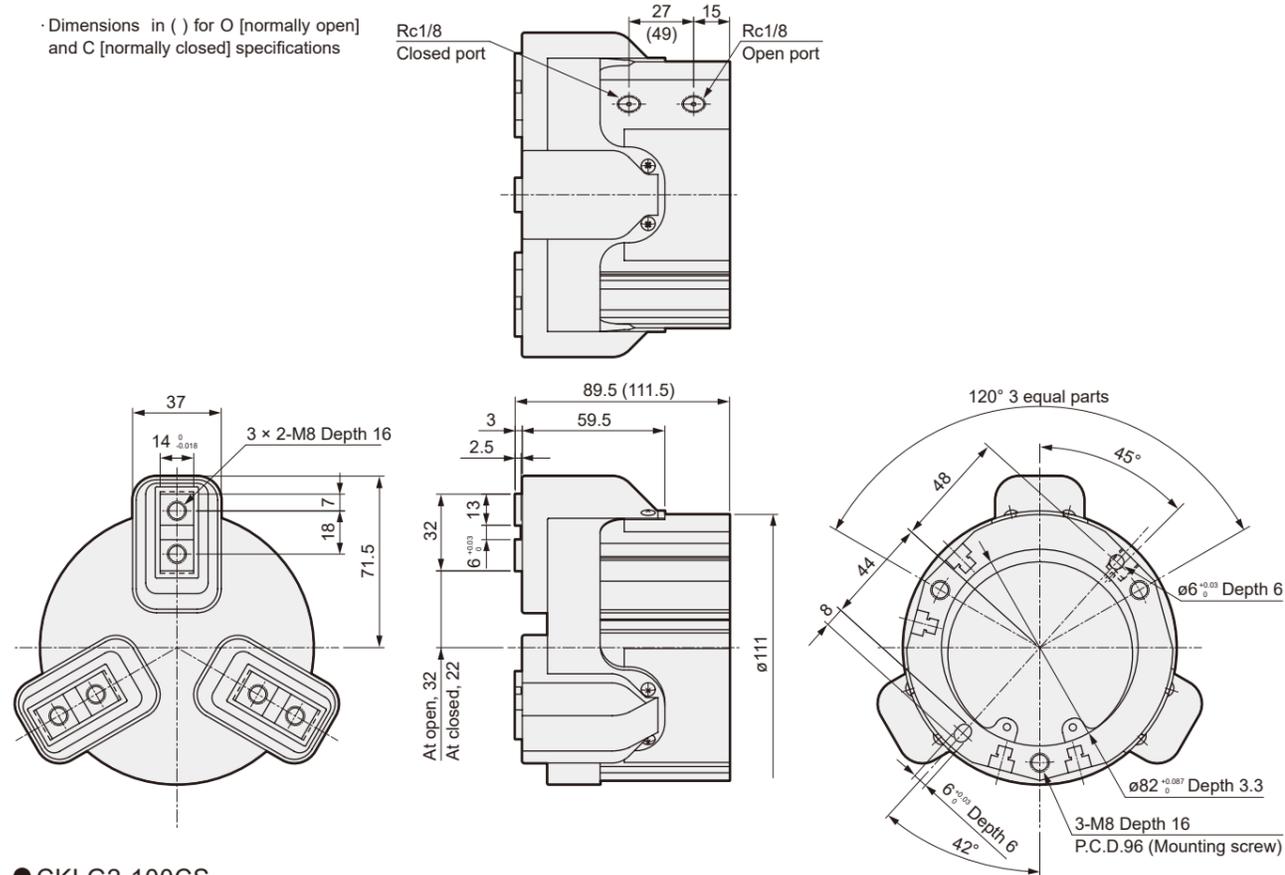
• Dimensions in () for O [normally open] and C [normally closed] specifications



Outline Dimension Drawing

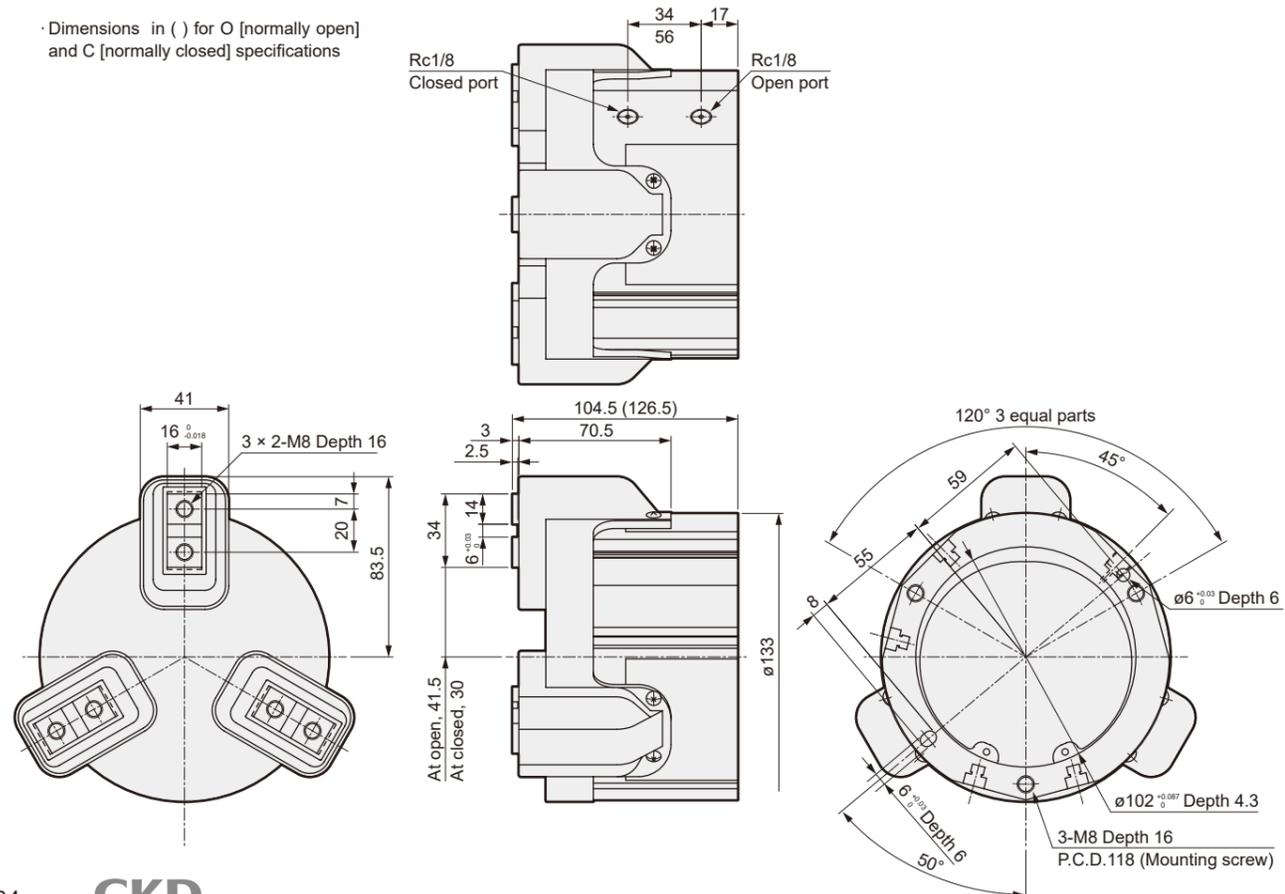
●CKLG2-80CS

Dimensions in () for O [normally open] and C [normally closed] specifications



●CKLG2-100CS

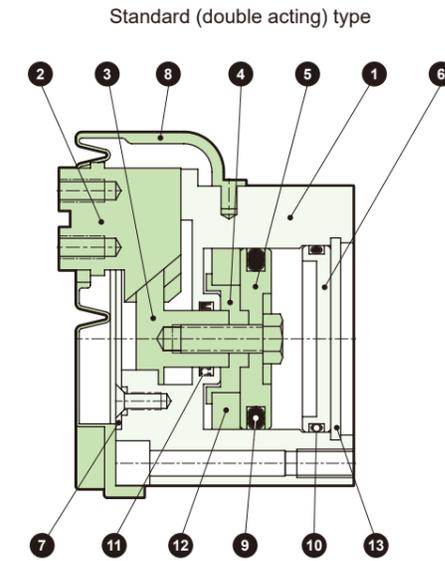
Dimensions in () for O [normally open] and C [normally closed] specifications



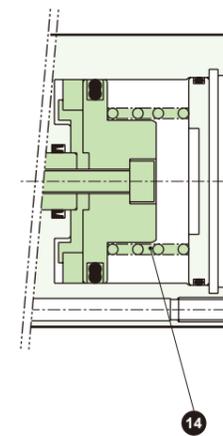
Internal Structure Diagram/Material

Internal Structure Diagram/Material

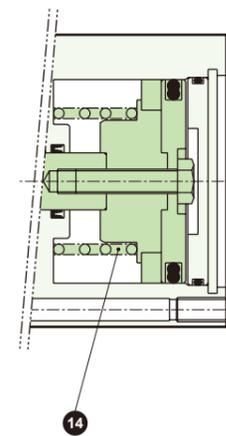
●CKLG2-20CS to 100CS



O (Normally Open) Type



C (Normally Closed) Type



Do not disassemble

Part No.	Part Name	Material	Remarks	Part No.	Part Name	Material	Remarks
1	Body	Aluminum Alloy		8	Rubber Cover	Nitrile Rubber	
2	Finger	Steel		9	Piston Packing	Nitrile Rubber	
3	Piston A	20CS to 32CS: Stainless Steel 40CS to 100CS: Steel		10	Gasket	Nitrile Rubber	
				11	Rod Packing	Nitrile Rubber	
4	Piston B	Aluminum Alloy		12	Magnet		
5	Piston C	Aluminum Alloy		13	C-type retaining ring	20CS to 63CS: Stainless Steel	
6	Cover	Aluminum Alloy	80CS to 100CS: Steel				
7	Center cover	Stainless Steel		14	Coil Spring	Stainless Steel	

Check Valve

- CKW-HP
- CKL2
- CKLG2**
- CKL2 -□-HC
- CKH2
- CKLB2
- CKG
- CK
- CKA
- CKS
- CKS-F
- CKF
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Cylinder Switch
Ending

Cylinder Switch
Ending