

LCM
 LCR
 LCG
 LCW
 LCX
 STM
 STG
 STS/STL
 STR2
 UCA2
 ULK*
 JSK/M2
 JSG
 JSC3/JSC4
 USSD
 UFCD
 USC
 UB
 JSB3
 LMB
 LML
 HCM
 HCA
 LBC
 CAC4
 UCAC2
 CAC-N
 UCAC-N
 RCS2
 RCC2
 PCC
 SHC
 MCP
 GLC
 MFC
 BBS
 RRC
 GRC
 RV3*
 NHS
 HRL
 LN
 Hand
Chuk
 MecHnd/Chuk
 ShkAbs
 FJ
 FK
 SpdContr
 Ending



Powerful chuck with rubber cover

CKLG2 Series

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

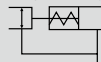
Double acting



Single acting (normally open)



Single acting (normally closed)



Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item	CKLG2							
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 (≈101 psi, 7 bar)							
Min. working pressure MPa	0.3 (≈44 psi, 3 bar)							
Ambient temperature °C	5 (41°F) to 60 (140°F)							
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	Standard	0.14	0.21	0.27	0.40	0.60	1.13	3.38
	O: Single acting normally open	0.17	0.25	0.33	0.52	0.71	1.30	4.00
	C: Single acting normally closed	0.17	0.25	0.33	0.52	0.71	1.39	4.10
Lubrication	Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication)							

Switch specifications

Item	Proximity 2-wire	Proximity 3-wire
	T2H/V	T3H/V
Applications	Dedicated for programmable controller	For programmable controller, relay
Output method	-	NPN output
Power supply voltage	-	10 to 28 VDC
Load voltage/current	10 to 30 VDC, 5 to 20 mA (*1)	30 VDC or less, 100 mA or less
Display lamp	LED (Lit when ON)	
Leakage current	1 mA or less	10 µA or less
Weight	1 m: 18 g 3 m: 49 g 5 m: 80 g	

*1 : The above max. load current is 20 mA at 25°C.

The current is lower than 20 mA if the operating ambient temperature around the switch is higher than 25°C. (5 to 10 mA at 60°C)

*2 : Refer to Ending Page 1 for detailed switch specifications and dimensions.

How to order

Without switch (built-in magnet for switch)

CKLG2 - **20CS** - **O**

With switch (built-in magnet for switch)

CKLG2 - **20CS** - **O** - **T2H** - **R**

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 Straight	Lead wire Radial	Contact Proximity	Voltage		Display	Lead wire
			AC	DC		
T2H*	T2V*			●	1-color	2-wire
T3H*	T3V*			●	display	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: Attachment is commonly used for internal and external diameter chuck.

*2: Refer to pages 1868 and 1869 for the dimensions and compatible models of the attachment.

When ordered as an option, three are included at shipment.

[Example of model No.]

CKLG2-20CS-O-T2H-R

Model: Powerful chuck

- A** Size : 20CS
- B** Option : Single acting, normally open
- C** Switch model No. : Proximity T2H switch, lead wire 1 m
- D** Switch quantity : One on open side

How to order switch

SW - **T2H**

Switch model No.
(Item **C** above)

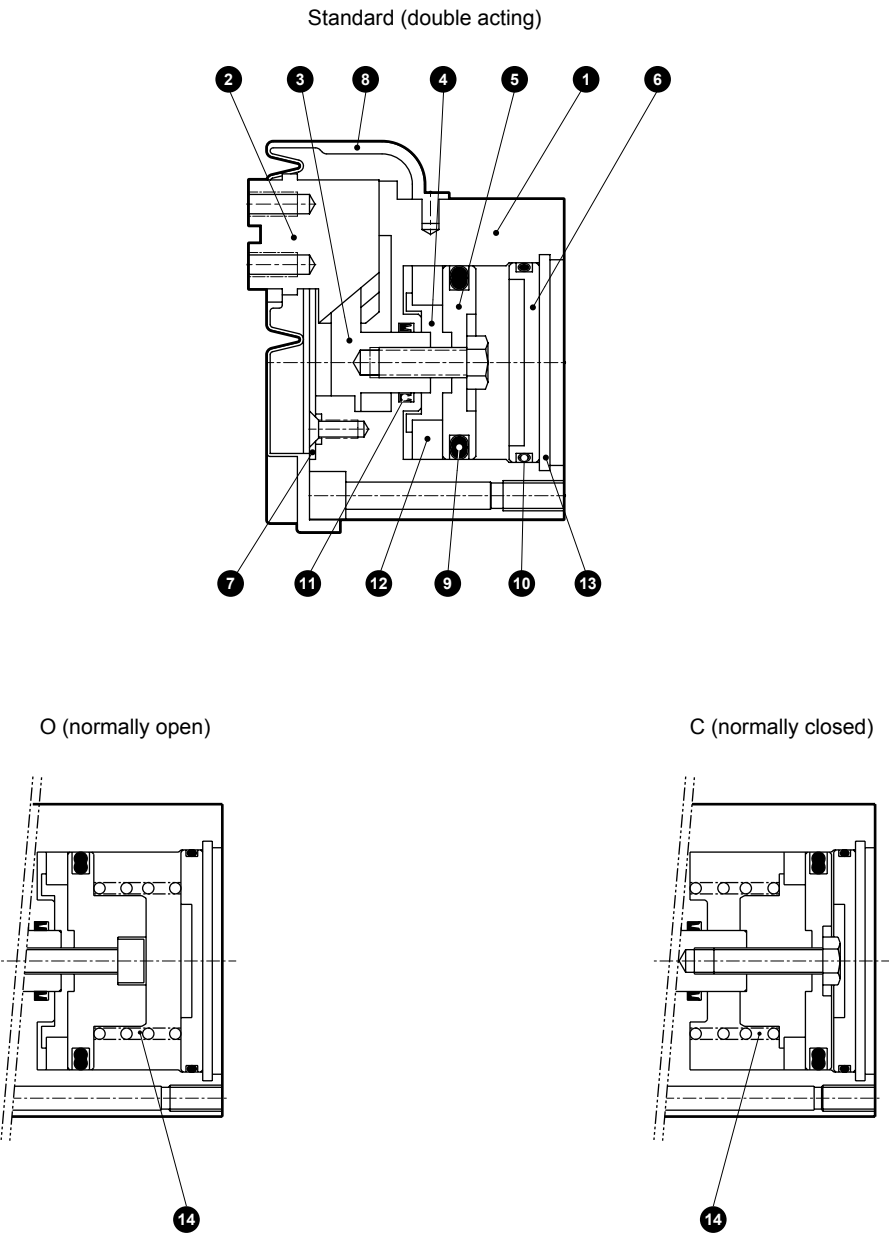
Note) When the type with two switches is selected, if the model has a short operational stroke length, both switches may turn ON depending on the workpiece size.

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USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
RCC2
PCC
SHC
MCP
GLC
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CKS-F
CKF
CKJ
CHC

LCM
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LCG
LCW
LCX
STM
STG
STS/STL
STR2
UCA2
ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
RCC2
PCC
SHC
MCP
GLC
MFC
BBS
RRC
GRC
RV3*
NHS
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Hand
Chuk
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ShkAbs
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CKL2
CKLG2
CKL2-HC
CKH2
CKLB2
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CKA
CKS
CKS-F
CKF
CKJ
CHC

Internal structure and parts list

● CKLG2-20CS to 100CS



Cannot be disassembled

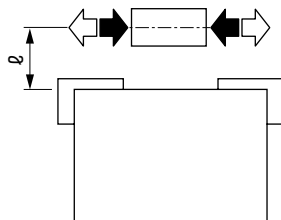
Parts list

No.	Part name	Material	Remarks	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	Stainless steel (20CS to 32CS), Steel (40CS to 100CS)		10	Cylinder gasket	Nitrile rubber	
4	Piston B	Aluminum alloy		11	Rod packing	Nitrile rubber	
5	Piston C	Aluminum alloy		12	Magnet		
6	Cylinder guard	Aluminum alloy		13	C-snap ring	Stainless steel (20CS to 63CS) Steel (80CS, 100CS)	
7	Center guard	Stainless steel		14	Spring	Stainless steel	

Gripping power performance data

- Gripping power represents the thrust (per one finger) in the arrow direction shown in the figure.
- The gripping power in the opening/closing directions with 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)
- Closed direction () ———— (shown with continuous line)

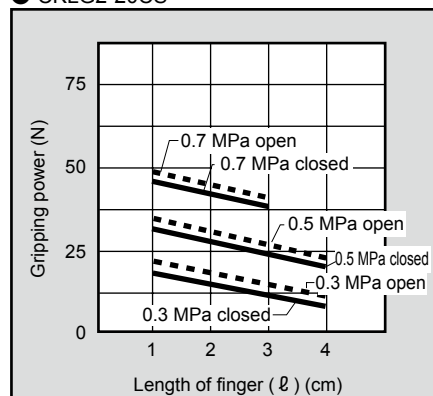


(Note) O type gripping power decreases approximately 20 to 30% in the closed direction compared to double acting.

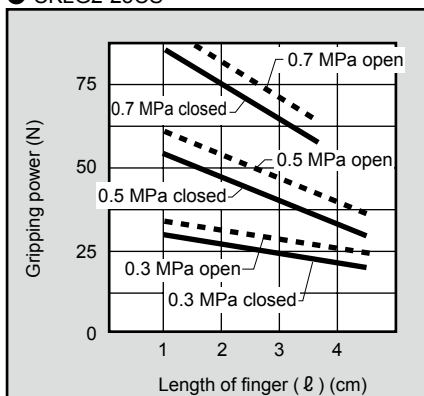
C type gripping power decreases approximately 10 to 20% in the open direction compared to double acting.

For selection, see page 1872 for design and selection precautions.

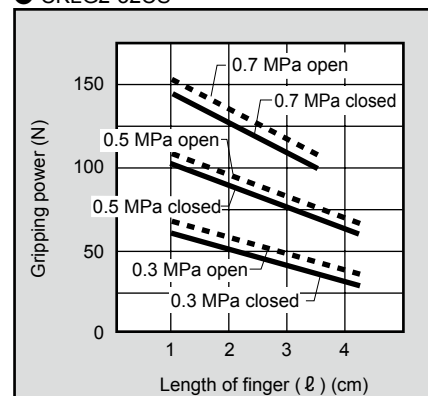
● CKLG2-20CS



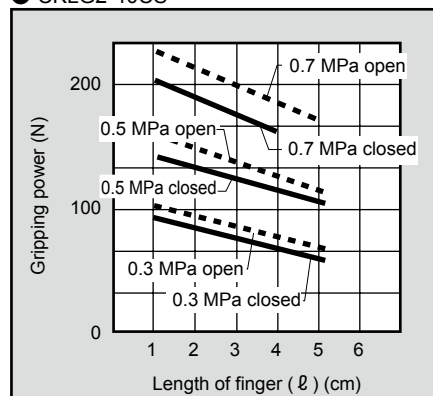
● CKLG2-25CS



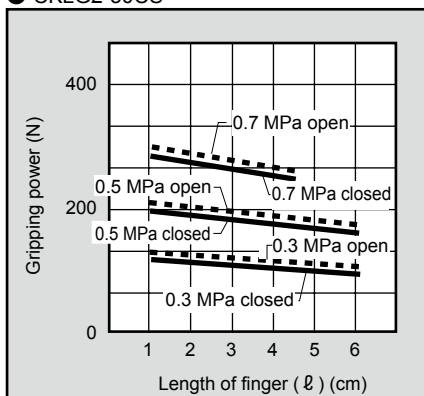
● CKLG2-32CS



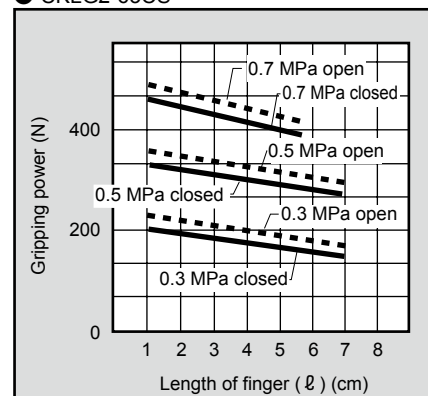
● CKLG2-40CS



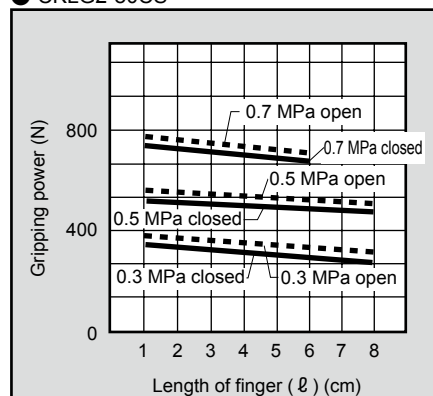
● CKLG2-50CS



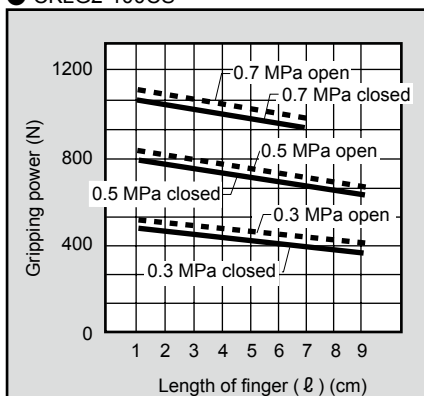
● CKLG2-63CS



● CKLG2-80CS



● CKLG2-100CS

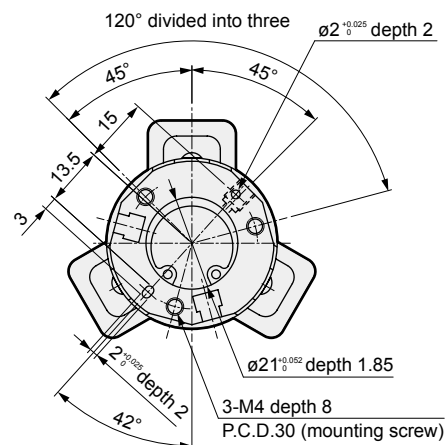
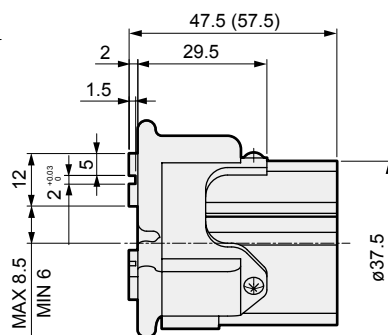
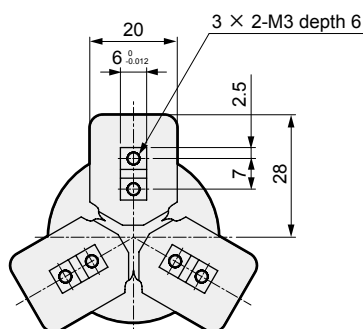
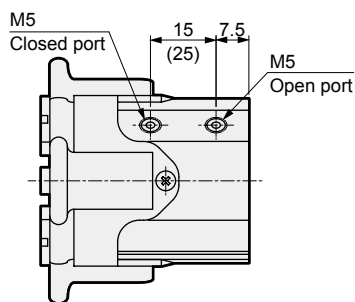


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CKH2
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CKF
CKJ
CHC

Dimensions

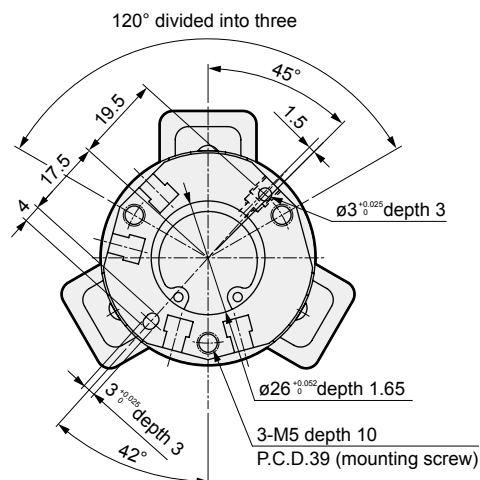
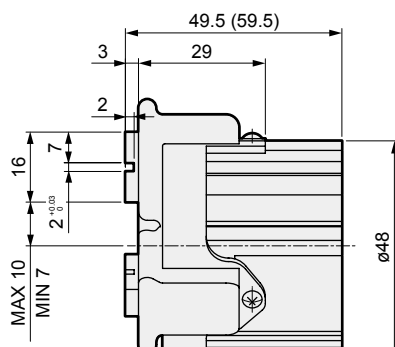
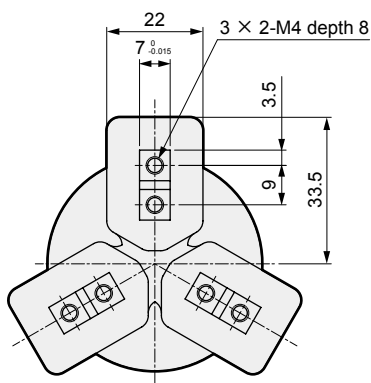
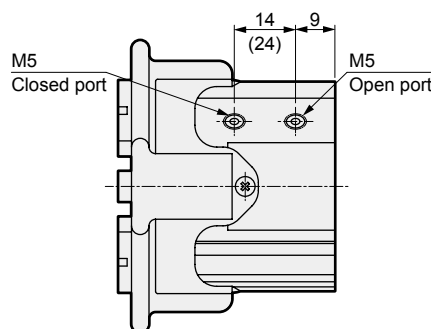
● CKLG2-20CS

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



● CKLG2-25CS

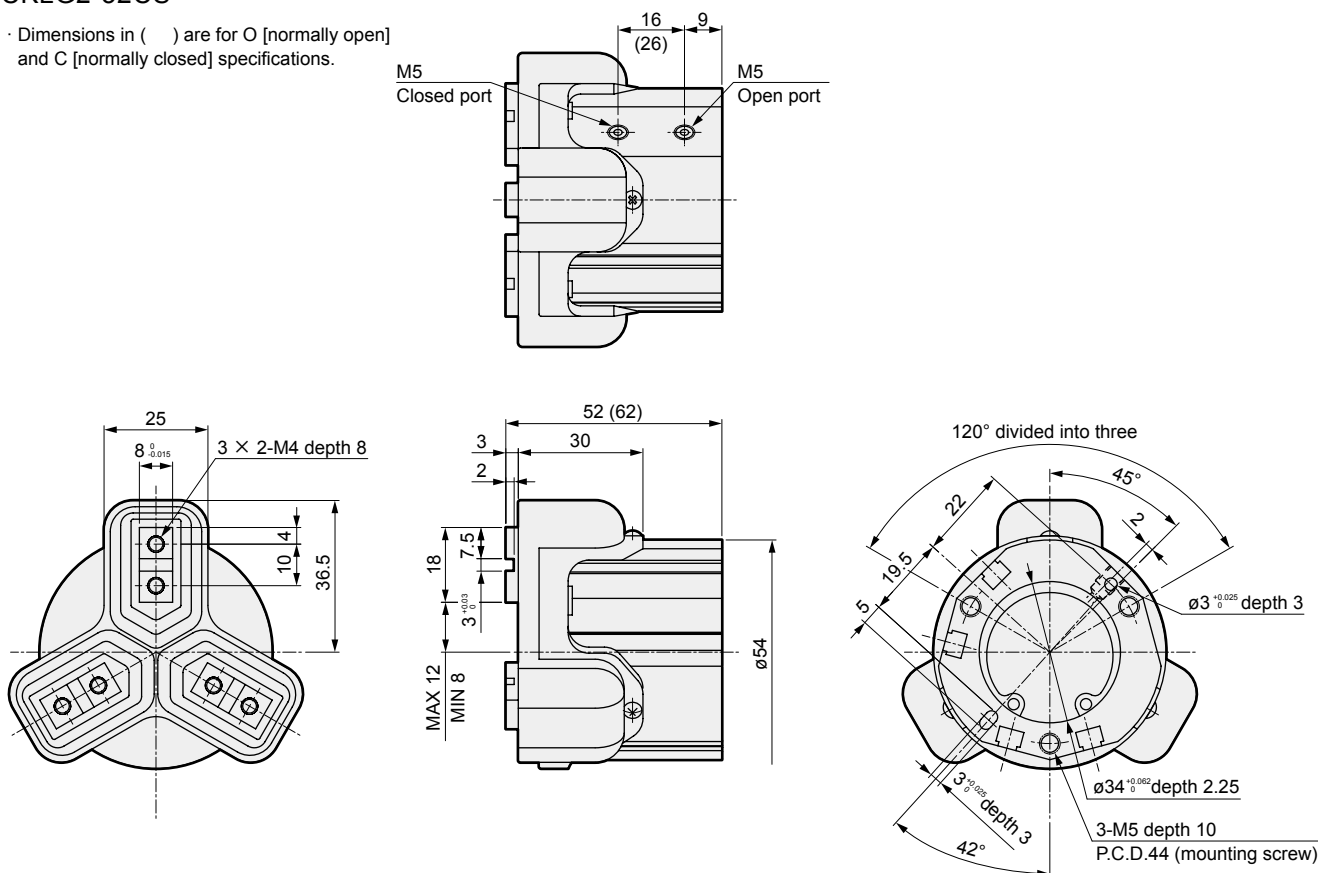
· Dimensions in () are for O [normally open] and C [normally closed] specifications.



Dimensions

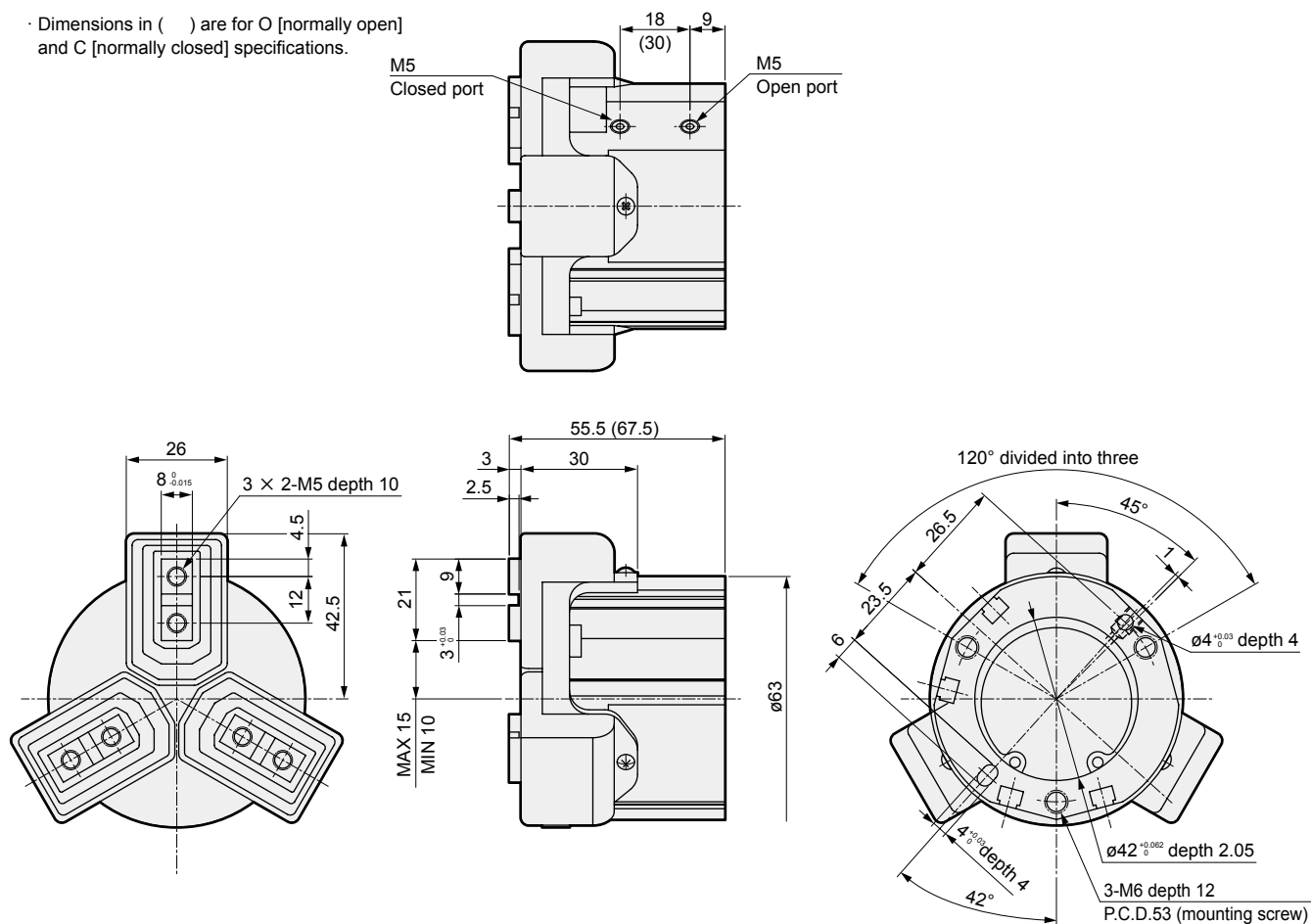
● CKLG2-32CS

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



● CKLG2-40CS

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



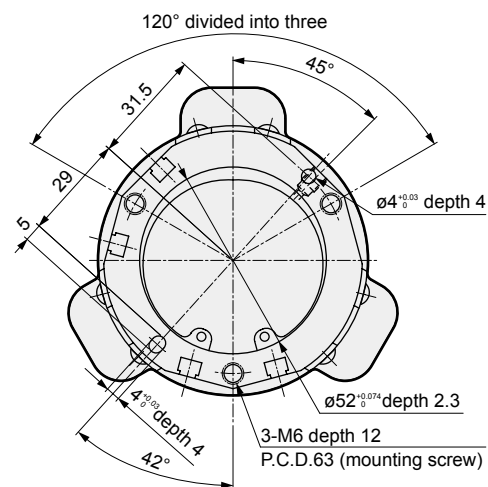
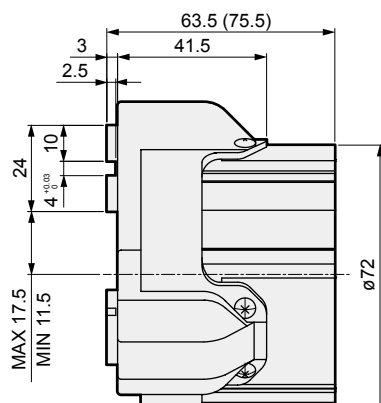
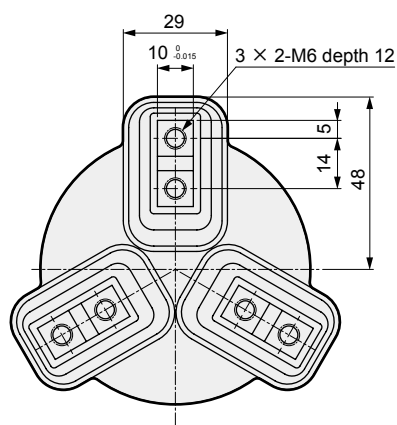
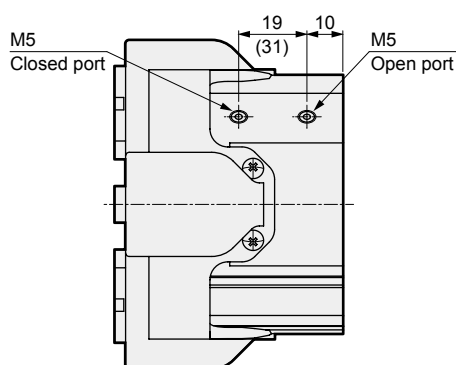
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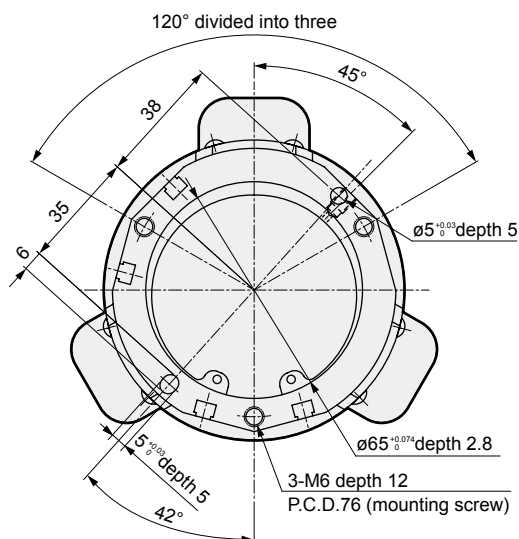
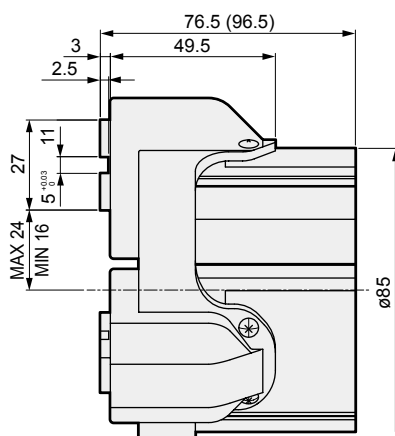
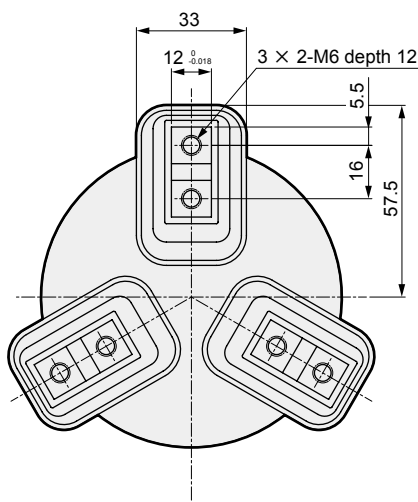
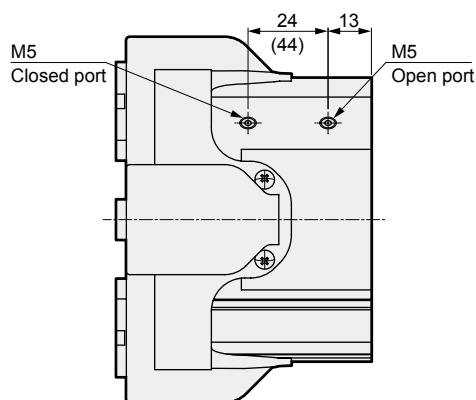
● CKLG2-50CS

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



● CKLG2-63CS

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



● CKLG2-80CS

