

3-way jaw bearing chuck Double acting/single acting

CKG Series

Operating stroke length: 6, 8, 11, 16 mm

Double acting Single acting (normally open) Single acting (normally closed)









Specifications

ULK* JSK/M2 JSG JSC3/JSC4 USSD **UFCD** USC UB JSB3 LMB I MI 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 FΚ SpdContr Ending CKL2 CKLG2

CKL2-HC

CKH2

CKLB2

CKG CK CKA CKS CKS-F CKF CKJ

CHC

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Item	CKG						
Size	16CS	25CS	32CS	40CS	50CS		
Bore size mm	ø16	ø25	ø32	ø40	ø50		
Actuation	Double acting/single acting						
Working fluid	Compressed air						
Max. working pressure MPa	0.7 (≈100 psi, 7 bar)						
Double acting	0.1 (≈15 psi, 1 bar)						
Min. working Normally open	0.3 (≈44 psi, 3 bar)						
pressure * MPa Normally closed							
Ambient temperature °C	5 (41°F) to 60 (140°F)						
Port size	M5						
Operating stroke length mm	6		8	11	16		
Rod diameter mm	ø9	ø10	ø14	ø18	ø20		
Volumetric capacity (reciprocating) cm ³	1.0	2.2	5.1	10.1	36.1		
Repeatability mm	±0.01						
Weight kg	0.24	0.47	0.80	1.4	2.3		
Lubrication	Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication)						

^{*:} When a rubber cover (option) is attached, the min. working pressure is 0.2 MPa for 16CS and 0.15 MPa for 25CS to 50CS.

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			
Indicator 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)

Specifications for rechargeable battery (Catalog No. CC-1226A)

CKG - ... - G -P4* Design compatible with rechargeable battery manufacturing process.

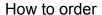
 $^{^{*}2\,}$: The weight of switch mounting bracket is 1.5 g.

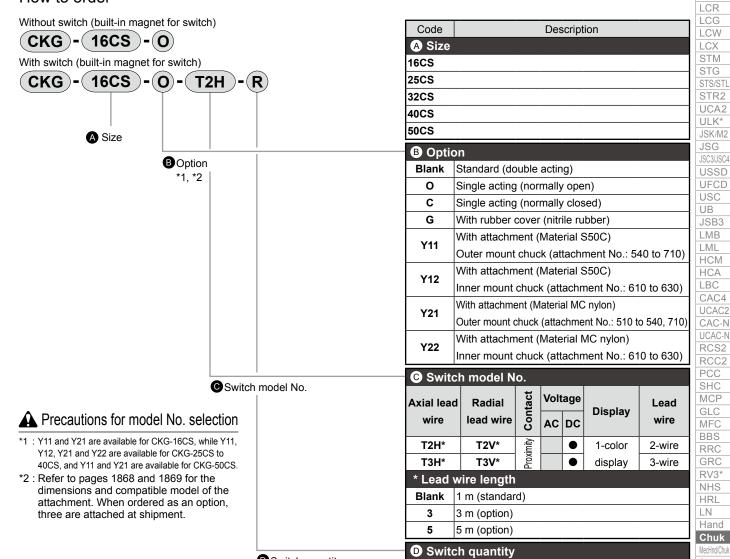
^{*3 :} Refer to Ending Page 1 for detailed switch specifications and dimensions.

^{*} Contact CKD for details.

How to order

LCM





[Example of model No.]

CKG-16CS-O-T2H-R

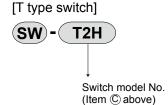
Model: Bearing chuck

A Size : 16CS

Option : Single acting, normally open type
 Switch model No.: Proximity T2H switch, lead wire 1 m

D Switch quantity : 1 on open side

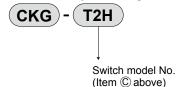
How to order switch



CKG-50CS only

● For switch T*H*

 \cdot Switch body + mounting bracket set



Switch quantity

For switch T*V*

· Switch body + mounting bracket set

(Item © above)

CKG-50CS only

·Mounting bracket set

1 on open side

1 on closed side

Н

D

CKG - 1

·Mounting bracket set

CKG - TV - (*

(Select either R (open side) or H (closed side) for sections marked with an asterisk (*).)

ShkAbs

SpdContr

Ending

CKL2 CKLG2

CKL2-HC

CKH2 CKLB2

CKG

CK

CKA

CKS

CKF CKJ

CHC

CKS-F

FJ

FΚ

LCM

LCR LCG

LCW

I CX STM STG STR2 UCA₂ ULK* JSK/M2 JSG JSC3/JSC4 USSD **UFCD** USC UB LMB

I MI HCM

HCA LBC CAC4 UCAC2 CAC-N UCAC-N RCS2 RCC2 PCC SHC MCP MFC BBS RRC **GRC**

RV3 NHS

HRL

Hand

Chuk

MecHnd/Chuk ShkAbs

CKL2 CKLG2

CKL2-HC

CKH2

CKLB2

CKG

CK

CKA

CKS

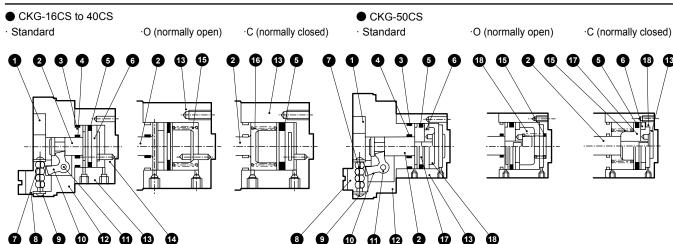
CHC

CKS-F CKF CKJ

FJ FΚ SpdContr Ending

LN

Internal structure and parts list



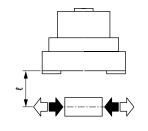
Cannot be disassembled

No.	Part name	Material	Remarks	No.	Part name	Material	Remarks
1	Bearing guide	Steel		10	Arm	Steel	
2	Piston A	Stainless steel		11	Fulcrum axis	Steel	
3	Cylinder gasket	Nitrile rubber		12	Body	Aluminum alloy	
4	Rod packing	Nitrile rubber		13	Cylinder	Aluminum alloy	
5	Piston packing	Nitrile rubber		14	Rotation-stop	Stainless steel	
6	Magnet			15	Spring	Stainless steel	O type
7	Cross roller	Alloy steel		16	Spring	Stainless steel	C type
8	Finger	Steel		17	Piston B	Stainless steel	
9	Bearing holder	Steel		18	Piston C	Stainless steel	

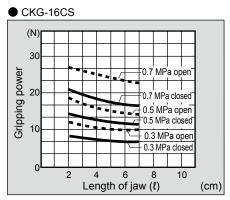
2

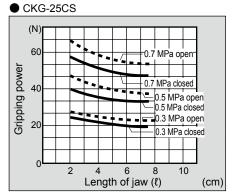
Gripping power performance data

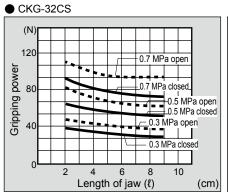
- Gripping power represents the thrust (per one finger) in the arrow direction shown in the figure.
- The gripping power in the opening/closing directions with jaw length L of hand with a supply pressure of 0.3, 0.5 and 0.7 MPa is shown.
 - Open direction (△) ---- (shown with broken line)
- Closed direction (▶) (shown with continuous line)

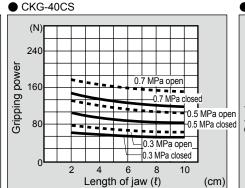


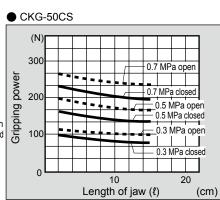
(Note) O type gripping power decreases approximately 20 to 30% in the closed direction compared to double acting. C type gripping power decreases approximately 10 to 20% $\,$ in the open direction compared to the double acting. When making a selection, read the precautions for design and selection on page 1872.











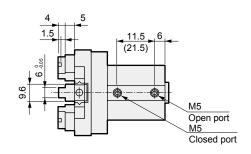
3-way jaw bearing chuck

Dimensions

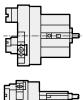


CKG-16CS standard/O/C

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



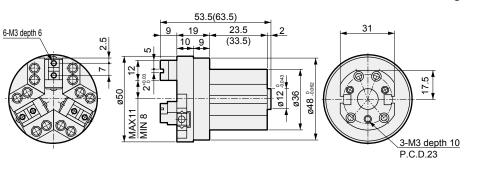
With switch

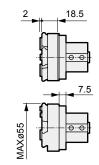




Note: When using $T \square H$ or $T \square V$, the switches of both project from the end face of body head side.

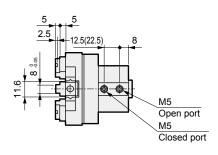
With rubber cover





● CKG-25CS standard/O/C

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

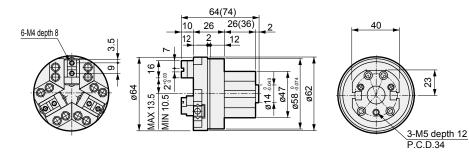


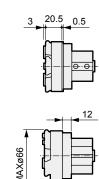
With switch





With rubber cover





LCG LCW LCX STM STG STS/STI STR2 UCA2 ULK* JSK/M2 JSG JSC3/JSC4 USSD UFCD USC UB JSB3 LMB LML HCM НСА 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 FΚ CKL2

LCM LCR

SpdContr

Ending

CKLG2 CKL2-HC CKH2 CKLB2 CKG CK

CKA CKS CKS-F CKF CKJ CHC

Dimensions

LCM

LCR LCG

LCX LCX

STM STG STS/STL STR2 UCA2

ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD

USC

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

CKL2

CKLG2

CKL2-HC

CKH2

CKLB2 CKG CK

CKA

CKS

CKS-F CKF CKJ CHC 6-M4 depth 8

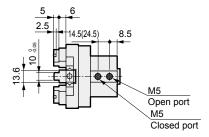
UB



CKG-32CS standard/O/C

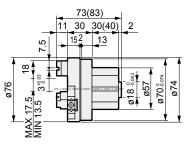
· Dimensions in () are for O [normally open] and C [normally closed] specifications.

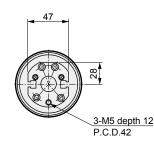


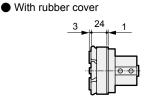












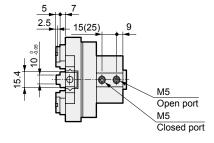


CKG-40CS standard/O/C

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

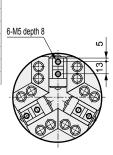


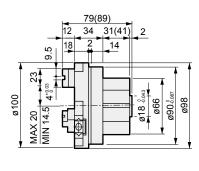


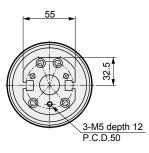


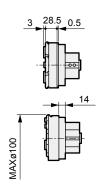


With rubber cover









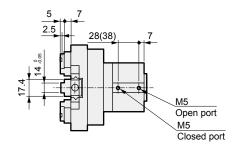
3-way jaw bearing chuck

Dimensions



● CKG-50CS standard/O/C

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



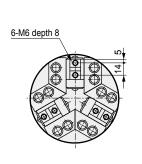
With switch

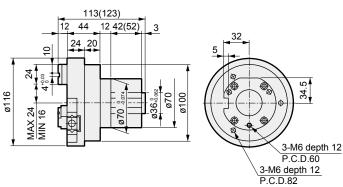


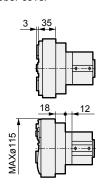




With rubber cover







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 ShkAbs

Hand Chuk MecHnd/Chuk

FJ FK SpdContr

Ending

CKL2 CKLG2 CKL2-HC CKH2 CKLB2 CKG CK CKA CKS CKS-F CKF

CKJ CHC