Hollow chuck Double acting/single acting

CKF Series

Operating stroke length: 5, 7, 8, 16 mm

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









Specifications

LCW LCR LCG

LCX

LCM

STM STG STS/STL STR2

UCA2 ULK* JSK/M2 JSG JSC3/JSC4 USSD UFCD USC JSB3 LMB LML НСМ **HCA** LBC CAC4 UCAC2 CAC-N UCAC-N RCC2 RCS PCC SHC MCP GLC MFC

BBS
RRC
GRC
RV3*
NHS
HR
LN
Hand
Chuk
MecHnd(Chuk
ShkAbs
FJ
FK
SpdContr

Ending

CKG
CKA
CKS
CKF
CKJ
CKL2
CKL2*+HC
CKH2
CKLB2
CKLB2

CKF							
15CS	20CS	25CS	30CS	40CS			
φ30	φ	40	φ50	φ80			
Double acting/single acting							
Compressed air							
0.7 (≈100 psi, 7 bar)							
0.3 (≈44 psi, 3 bar)							
5 (41°F) to 60 (140°F)							
M5							
5		7	8	16			
φ16	φ24		φ28	φ34			
2.5	5.2	7.3	13.3	73.2			
φ5.5	φ8.4	φ10.4	φ12	φ16			
±0.03							
0.29	0.43	0.63	1.2	2.3			
Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication)							
	φ30 φ30 φ16 2.5 φ5.5 φ5.5	φ30 φ Do Do Do Do Do Do Do Do Do D	15CS	15CS 20CS 25CS 30CS φ30 φ40 φ50 Double acting/single acting Compressed air 0.7 (≈100 psi, 7 bar) 0.3 (≈44 psi, 3 bar) 5 (41°F) to 60 (140°F) M5 5 7 8 φ16 φ24 φ28 3 2.5 5.2 7.3 13.3 φ5.5 φ8.4 φ10.4 φ12 ±0.03 0.29 0.43 0.63 1.2			

Switch specifications

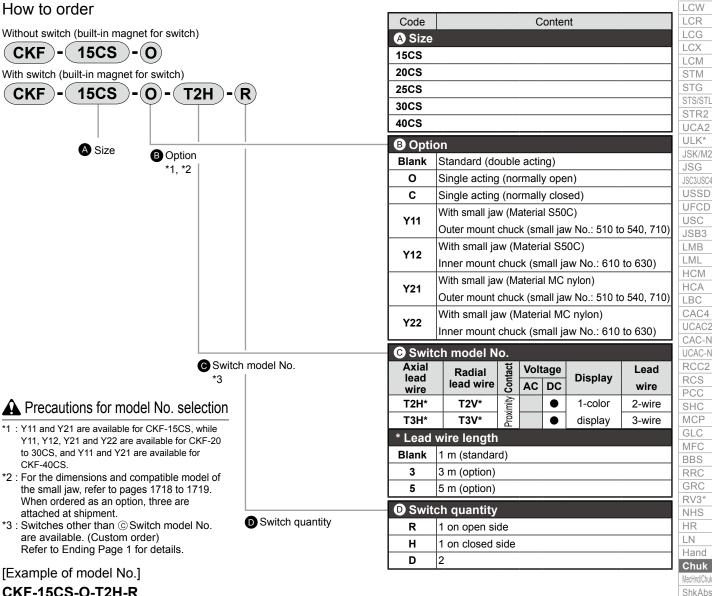
Descriptions	Proximity 2-wire	Proximity 3-wire			
Descriptions	T2H/V	T3H/V			
Applications	Dedicated for programmable controller	For programmable controller, relay			
Output method	-	NPN output			
Power supply voltage	-	10 to 28 VDC			
Load voltage/current	10 to 30 VDC, 5 to 20 mA (*1)	30 VDC or less, 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 the value at 25°C, 5 to 10 mA at 60°C for T2 type, with 5 to 15 mA at 60°C for S2 type.

 $^{^{\}ast}2$: Refer to Ending Page 1 for other switch specifications.

^{*3 :} The weight of switch mounting bracket is 1.5 g.

CKF Series



CKF-15CS-O-T2H-R

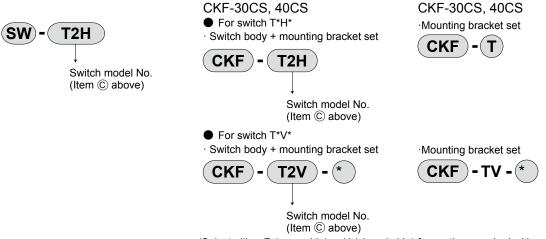
Model: Hollow chuck

A Size : 15CS

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

 Switch quantity : 1 on open side

How to order switch



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

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.

FJ

FK

SpdConti

Ending

CKG CK

CKA CKS

CKF

CKJ

CKL2 CKL2-*-HC

CKH₂

CKLB2

CHC

Internal structure and parts list

CKF-15CS to 25CS

LCW

LCR LCG

LCX LCM STM STG

STR2 UCA2 UIK* JSK/M2 JSG JSC3/JSC4 UFCD USC JSB3 LMB LML **HCM**

HCA LBC CAC4 UCAC2 CAC-N UCAC-N RCC2 **RCS** PCC SHC MCP GLC MFC BBS

RRC GRC

RV3

NHS

HR

LN

Hand

Chuk

ShkAbs

SpdContr

Ending

CKG CK

CKA

CKS CKF

CKJ

CKL2 CKL2-*-HC

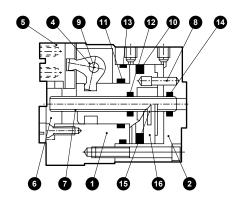
CKH2

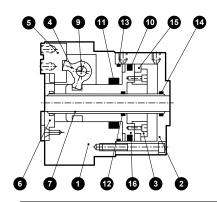
CKLB2

CHC

FK

CKF-30CS to 40CS





Cannot be disassembled

No.	Part name	Material	Remarks	No.	Part name	Material	Remarks
1	Body	Aluminum alloy		9	Fulcrum axis	Steel	
2	Cylinder	Aluminum alloy		10	Piston packing	Nitrile rubber	
3	Piston B	Stainless steel		11	Rod packing	Nitrile rubber	
4	Arm	Steel		12	Guide rod packing seal	Nitrile rubber	
5	Master key	Steel		13	Cylinder gasket	Nitrile rubber	
6	Center guard	Aluminum alloy		14	Pipe fixing gasket	Nitrile rubber	
7	Guide pipe	Stainless steel		15	Magnet		
8	Rotation-stop pin	Stainless steel		16	Piston A	Stainless steel	

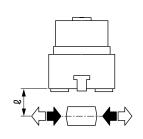
Gripping power performance data

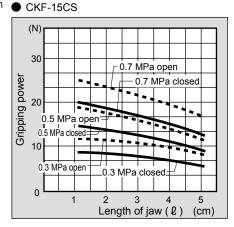
The gripping power in the opening/closing directions with jaw length L of hand with a supply pressure of 0.3, 0.5 and 0.7 MPa is shown.

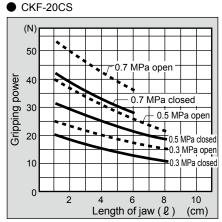
Open direction

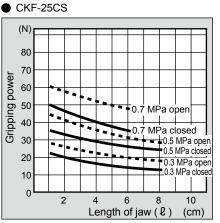
(⟨¬) (shown with broken line)

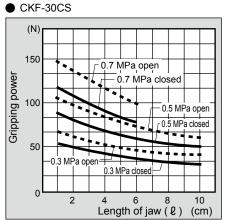
Closed direction (→) ---- (shown with continuous line)

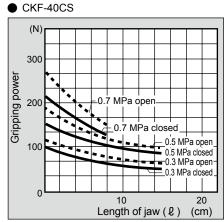












(Note) O type gripping power decreases approximately 20 to 30% in the closed direction compared to double acting. C type gripping power decreases approximately 10 to 20% in the open direction compared to the double acting. When making a selection, read the precautions for design and selection on page 1722.



LCW

LCR LCG

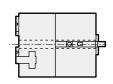
CAD **Dimensions**

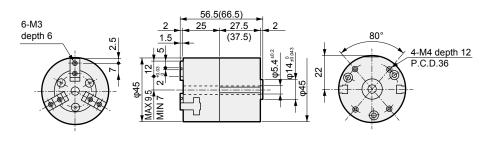
CKF-15CS standard/O/C

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

(22) Open port M5 Closed port







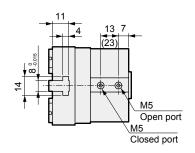


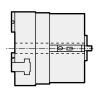


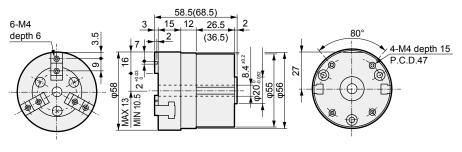
CKF-20CS standard/O/C

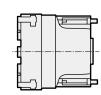
· Dimensions in () are for O [normally open] and C [normally closed] specifications.

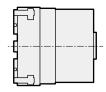
With switch











SpdContr Ending

CKG CK CKA CKS CKF CKJ CKL2

CKL2-*-HC

CKF Series

Dimensions

LCW

LCR LCG

LCX LCM

STM STG

JSG

USC

LMB

LML

HCA

LBC

RCS PCC

SHC MCP GLC MFC BBS RRC GRC RV3*

NHS HR

LN Hand Chuk MecHnd/Chuk ShkAbs

FJ

FK SpdContr Ending CKG

CK

CKA CKS

CKF

CKJ

CKL2

CKL2-*-HC

CKH2

CKLB2

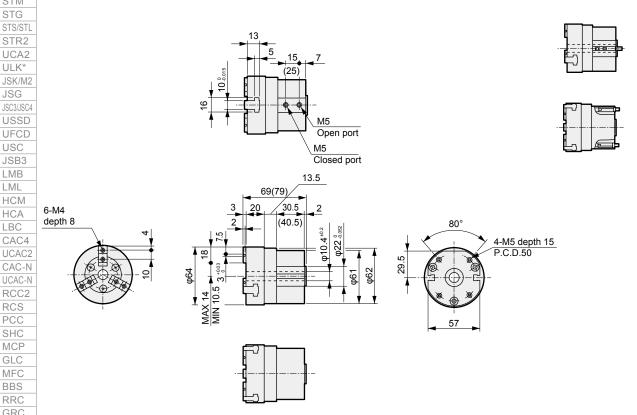
CHC



CKF-25CS standard/O/C

With switch

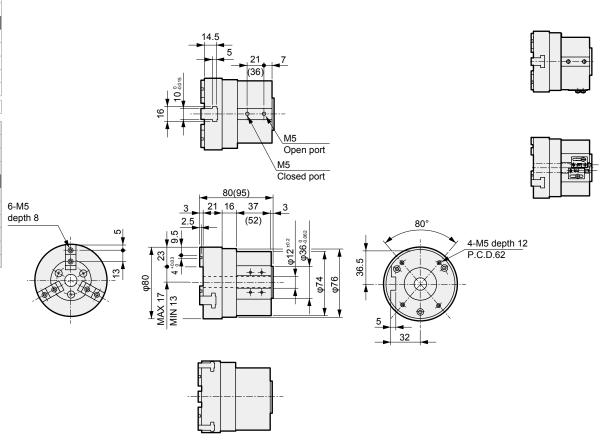
· Dimensions in () are for O [normally open] and C [normally closed] specifications.



CKF-30CS standard/O/C

With switch

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



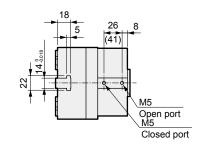




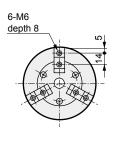
CAD CKF-40CS standard/O/C

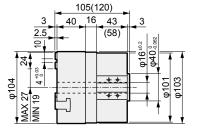
· Dimensions in () are for O [normally open] and C [normally closed] specifications.

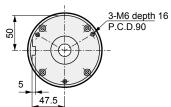
With switch

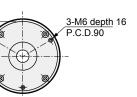














LCW LCR LCG LCX LCM STM STG STS/STL STR2 UCA2 ULK* JSK/M2 JSG JSC3/JSC4 USSD UFCD USC JSB3 LMB LML HCM HCA LBC CAC4 UCAC2 CAC-N UCAC-N RCC2 RCS PCC SHC MCP GLC MFC BBS RRC GRC RV3* NHS HR LN

Hand Chuk ShkAbs

FK SpdContr

Ending CKG

CK CKA CKS

CKF CKJ CKL2 CKL2-*-HC CKH2 CKLB2

CHC