

Hollow chuck Double acting/single acting



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

Double acting 臣

Single acting (normally open) Single acting (normally closed) 1H-M





Specifications

ltem	CKF						
Size	15CS	20CS	25CS	30CS	40CS		
Bore size mm	ø30	ø40 ø50 ø80					
Actuation	Double acting/single acting						
Working fluid	Compressed air						
Max. working pressure MPa	0.7 (≈100 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						
Operating stroke length mm	5		7	8	16		
Rod diameter mm	ø16	ø24		ø28	ø34		
Volumetric capacity (reciprocating) cm ³	2.5	5.2	7.3	13.3	73.2		
Hollow diameter mm	ø5.5	ø8.4	ø10.4	ø12	ø16		
Repeatability mm	±0.03						
Weight kg	0.29	0.43	0.63	1.2	2.3		
Lubrication	Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication)						

Switch specifications

ltom	Proximity 2-wire	Proximity 3-wire			
item	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				

Ending *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)

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

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



5

R

н

5 m (option)

1 on open side

1 on closed side

D Switch quantity

CKF-40CS. *2 : For the dimensions and compatible model of the attachment, refer to pages 1868 and 1869. When ordered as an option, three are attached at shipment.

CKF)-(

D 2 [Example of model No.] 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 D Switch quantity : 1 on open side How to order switch CKF-30CS, 40CS **CKF-30CS**, 40CS For switch T*H* ·Mounting bracket set T2H (SW)-· Switch body + mounting bracket set CKF T2H CKF Switch model No. (Item (C) above) Switch model No. (Item [©] above) For switch T*V* Switch body + mounting bracket set ·Mounting bracket set CKF T2V CKF) - TV -

D Switch quantity

(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.

Switch model No. (Item [©] above)



1853

GRC

RV3

NHS

HRL

Hand

Chuk

MecHnd/Chuk

ShkAbs FJ

SpdContr

Ending

CKL2

CKLG2

CKL2-HC CKH2

CKLB2 CKG

СК

CKA

CKS

CKF

CKJ

CHC

CKS-F

FK

LN

LCM

LCR LCG

LCW I CX STM

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 GLC MFC BBS RRC

HRL

LN

FJ

FK

СК

CKF-15CS to 25CS



• 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	Finger	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



(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.



CKD 18

1855

CKF Series

CAD Dimensions

CKF-25CS standard/O/C

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

13

5 15

7



LCM

LCR LCG

LCW



CKL2-HC CKH2 CKLB2 CKG СК CKA CKS





0-0





• With switch

With switch





CKD 1856

CKF Series Hollow chuck CAD Dimensions LCM LCR LCG CKF-40CS standard/O/C LCW LCX \cdot Dimensions in () are for O [normally open] and C [normally closed] specifications. • With switch STM STG 18 STS/STL 26 8 5 STR2 (41) UCA2 ULK* JSK/M2 JSG JSC3/JSC4 M5 USSD Open port UFCD Closed port USC UB 105(120) JSB3 16 43 6-M6 40 3 3 LMB depth 8 2.5 ₽↓ (58) LML Ø16^{±0.2} Ø40 0.0052 80 HCM 3-M6 depth 16 P.C.D.90 לא HCA 4 +0.03 50 LBC ø104 ø101 ø103 È ++ CAC4 MAX 27 MIN 19 -UCAC2 ____ CAC-N 5 UCAC-N 47.5 RCS2 RCC2 PCC SHC

MCP GLC MFC BBS RRC GRC RV3 NHS HRL LN Hand Chuk MecHnd/Chuk ShkAbs FJ FK SpdContr Ending CKL2 CKLG2 CKL2-HC CKH2 CKLB2 CKG СК CKA CKS CKS-F CKF CKJ CHC