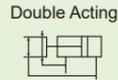




Ultra Long Stroke Chuck Double Acting (Standard/Short Stroke)

# CKJ Series

● Operating stroke: Standard 80, 130 mm  
Short Stroke 40, 65 mm

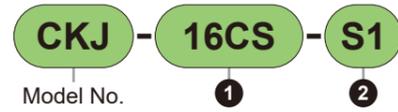


## Specifications

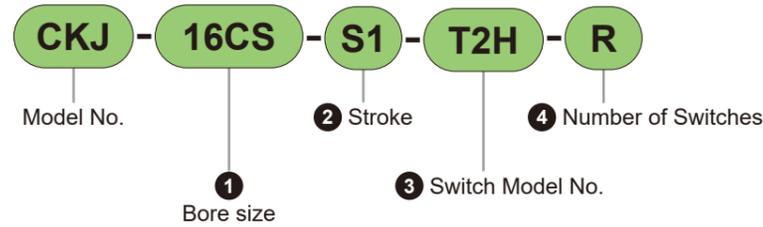
Item	CKJ					
	16CS		40CS		63CS	
Size	Standard	S1	Standard	S1	Standard	S1
Bore size	ø12 x 6		ø32 x 6		ø50 x 6	
Operating Fluid	Compressed Air					
Max. Working Pressure	MPa 0.7					
Min. Operating Pressure	MPa 0.3					
Ambient Temperature	°C 5 to 60					
Port Size	M5				Rc1/8	
Operating stroke	mm 80	40	80	40	130	65
Rod diameter	mm ø6		ø12		ø14	
Internal volume (reciprocating)	cm <sup>3</sup> 47.4	24.0	358.8	179.4	1471.2	735.6
Repeatability	mm ±0.1					
Weight	kg 2.38	1.35	5.6	4.2	18.5	13
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
16CS	ø12
40CS	ø32
63CS	ø50

### 2 Stroke

Code	Content
Blank	Standard
S1	Short stroke

### 3 Switch model Nos.

Refer to P. 573 for switch details. 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 Note 2	T2H□	T2V□
		3-wire (NPN)	-	30 or less	-	100 or less	T3H□	T3V□
Solid State	1-Color Flexible Lead Wire Type	2-wire	-	10 to 30	-	5 to 20 Note 2	T2HR3	T2VR3

### \*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

\*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.)

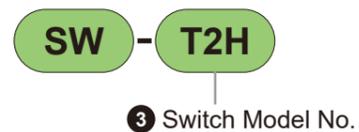
\*3: Switches other than the switch model numbers are also available. (Custom Product) For details, see P. 573.

### 4 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.

## 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

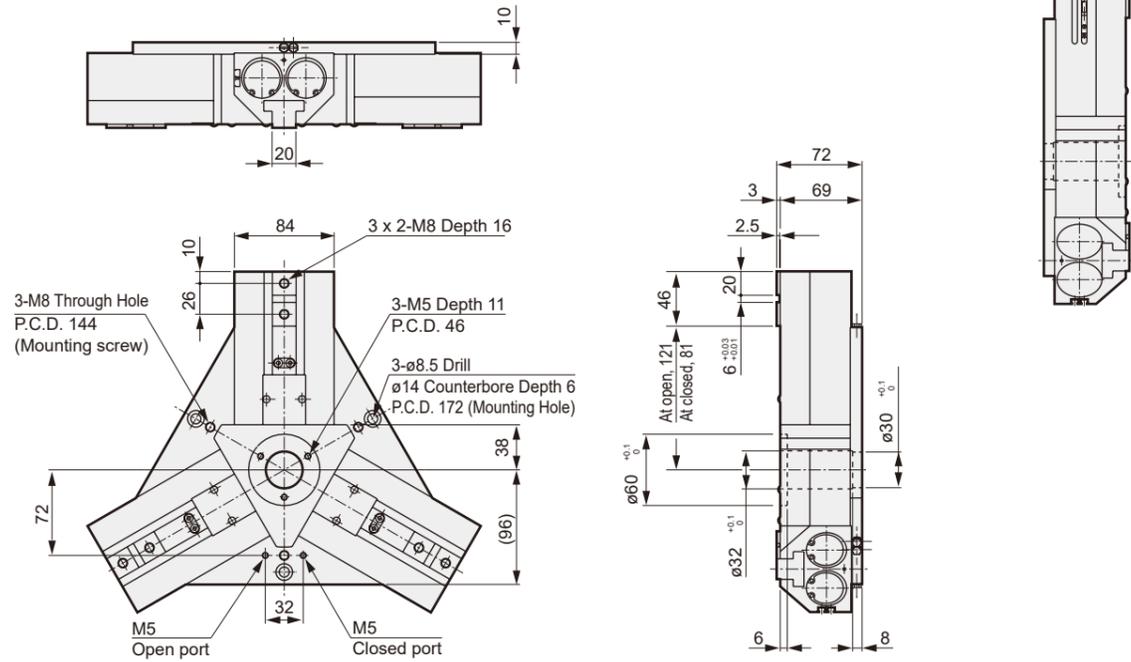
Cylinder Switch  
Ending



Outline Dimension Drawing

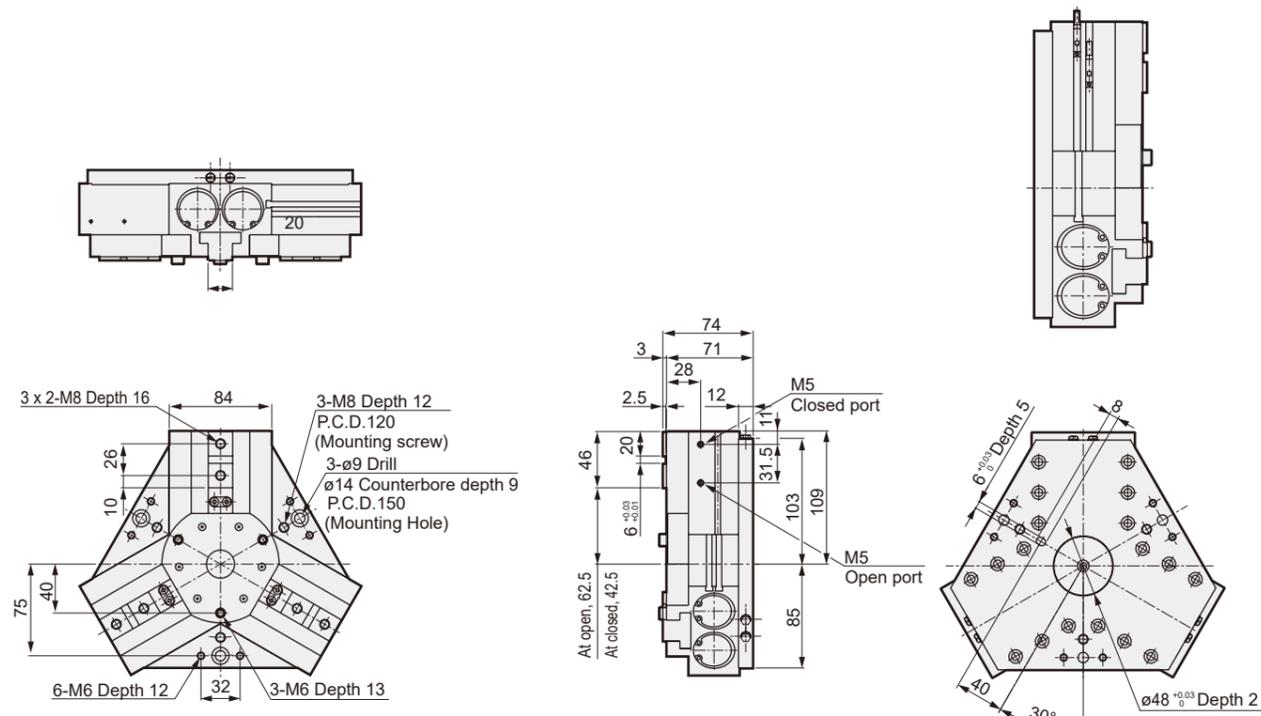
● CKJ-40CS Standard

● With Switch



● CKJ-40CS-S1

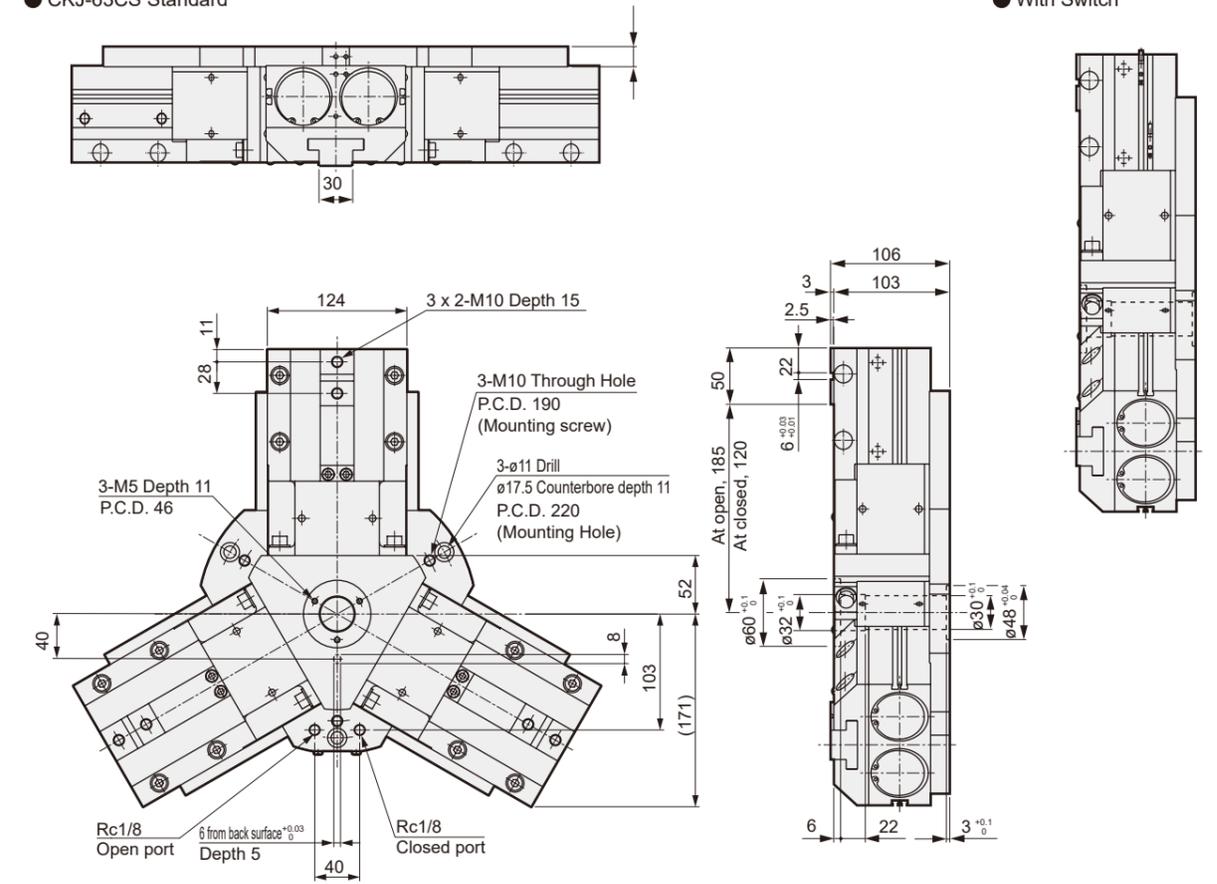
● With Switch



Outline Dimension Drawing

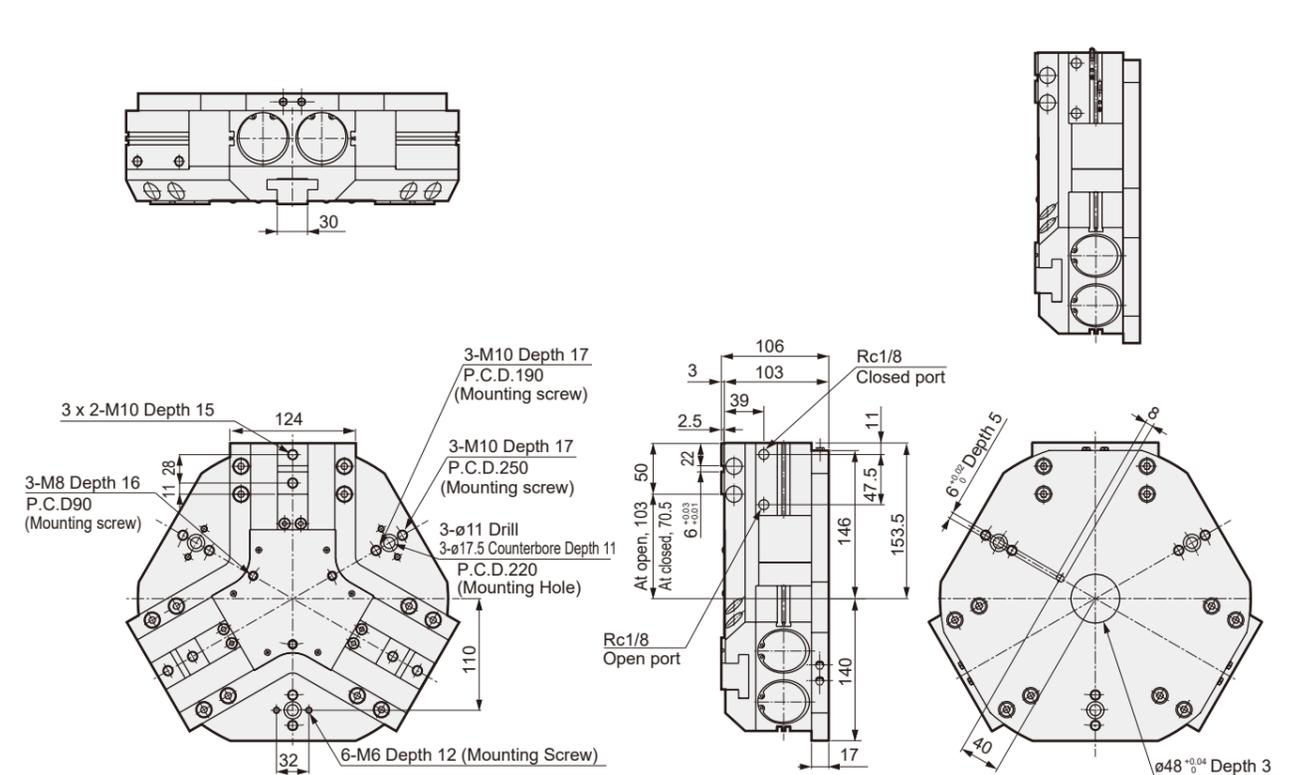
● CKJ-63CS Standard

● With Switch



● CKJ-63CS-S1

● With Switch



Outline Dimension Drawing

Check Valve

- CKW-HP
- CKL2
- CKLG2
- CKL2 -□-HC
- CKH2
- CKLB2
- CKG
- CK
- CKA
- CKS
- CKS-F
- CKF
- CKJ

Check Valve

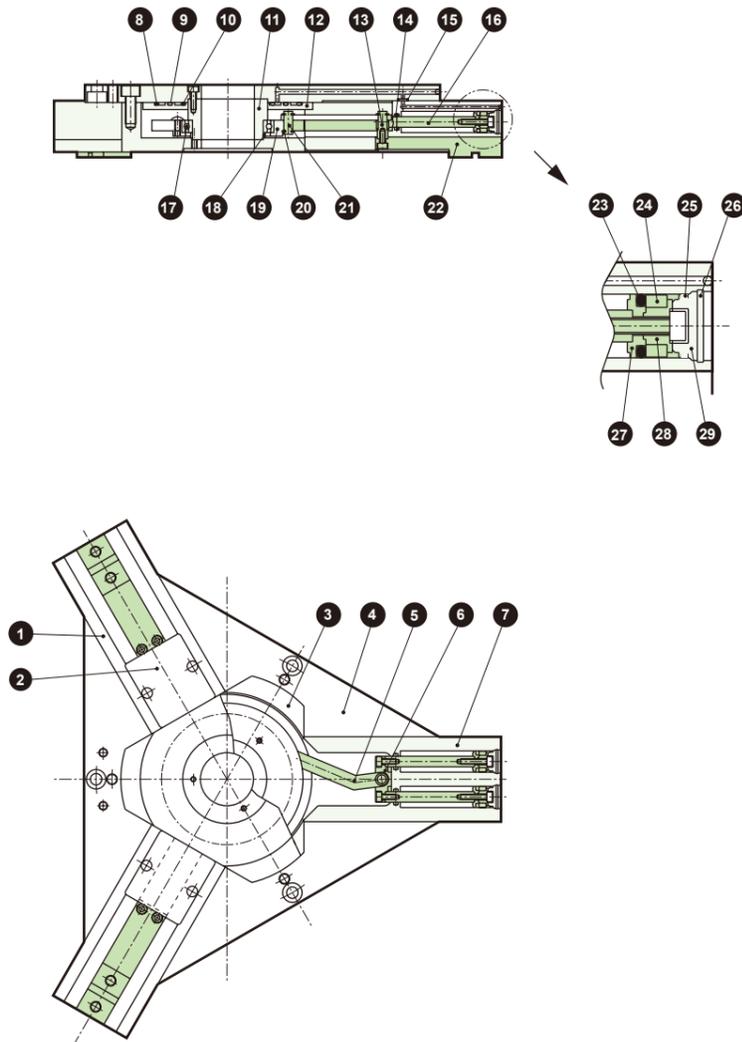
- CKW-HP
- CKL2
- CKLG2
- CKL2 -□-HC
- CKH2
- CKLB2
- CKG
- CK
- CKA
- CKS
- CKS-F
- CKF
- CKJ

Cylinder Switch  
Ending

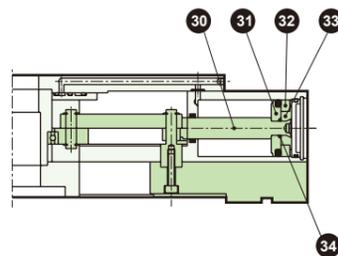
Cylinder Switch  
Ending

Internal Structure Diagram/Material

● CKJ-16CS



● CKJ-40CS

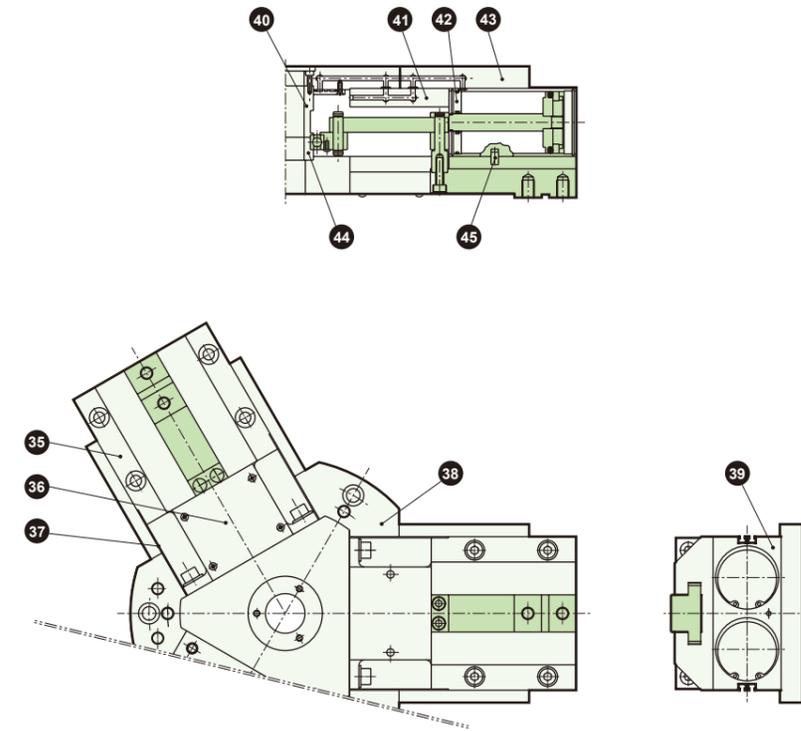


**Do not disassemble**

Internal Structure Diagram/Material

Internal Structure Diagram/Material

● CKJ-63CS



**Do not disassemble**

Part No.	Part Name	Material	Remarks	Part No.	Part Name	Material	Remarks
1	Adapter B	Aluminum Alloy		24	Magnet		
2	Cover	Stainless Steel		25	Cylinder seal	Nitrile Rubber	
3	Center Block	Aluminum Alloy		26	C-type retaining ring	Steel	
4	Base	Aluminum Alloy		27	Piston A	Aluminum Alloy	
5	Link	16CS, 40CS: Stainless Steel 63CS: Steel		28	Piston B	16CS, 40CS: Aluminum Alloy 63CS: Stainless Steel	
6	Connection Block	16CS, 40CS: Stainless Steel 63CS: Steel		29	Cover	16CS, 40CS: Polyacetal 63CS: Aluminum Alloy	
7	Adapter A	Aluminum Alloy		30	Piston Rod	Stainless Steel	
8	O-ring	Nitrile Rubber		31	Piston A	Aluminum Alloy	
9	O-ring	Nitrile Rubber		32	Magnet		
10	O-ring	Nitrile Rubber		33	Piston B	Aluminum Alloy	
11	Hollow Ring	Aluminum Alloy		34	O-ring	Nitrile Rubber	
12	Piping Plate	Aluminum Alloy		35	Body	Aluminum Alloy	
13	Actuating Pin	16CS, 40CS: Stainless Steel 63CS: Steel		36	Front Cover	Stainless Steel	
14	Rod seal	Nitrile Rubber		37	Side cover	Stainless Steel	
15	O-ring	Nitrile Rubber		38	Base 1	Aluminum Alloy	
16	Piston Rod	Stainless Steel		39	Body	Aluminum Alloy	
17	Bearing			40	Hollow Ring 1	Aluminum Alloy	
18	Collar	Steel		41	Base 3	Aluminum Alloy	
19	Link Ring	Aluminum Alloy		42	Rod Cover	Aluminum Alloy	
20	E-type Retaining Ring	Steel		43	Base 2	Aluminum Alloy	
21	Pivot Shaft	16CS, 40CS: Stainless Steel 63CS: Steel		44	Hollow Ring 2	Aluminum Alloy	
22	Finger	Steel		45	Parallel Pin	Stainless Steel	
23	Piston seal	Nitrile Rubber					

Check Valve

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

Cylinder  
Switch  
Ending

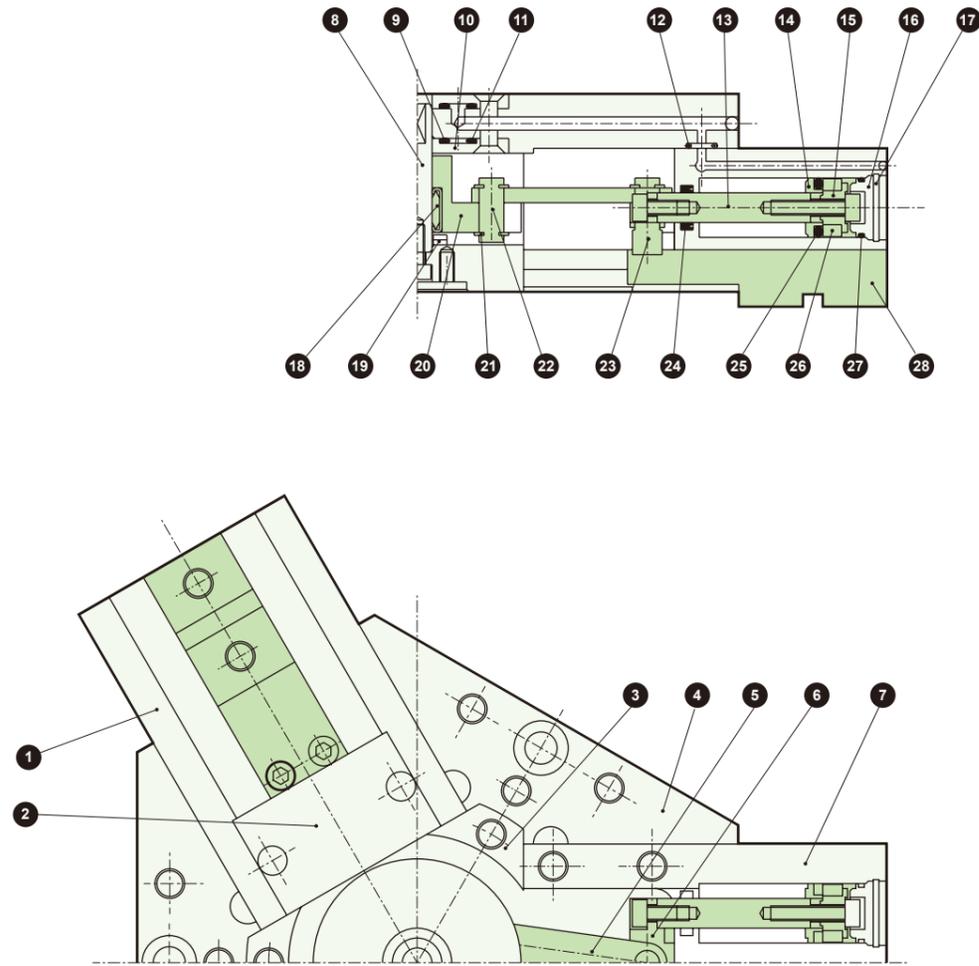
Check Valve

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

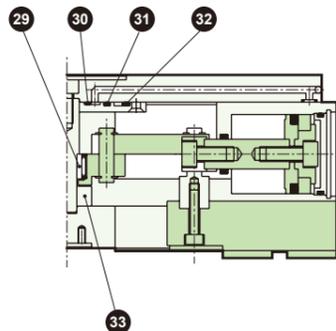
Cylinder  
Switch  
Ending

Internal Structure Diagram/Material

● CKJ-16CS-S1



● CKJ-40CS-S1

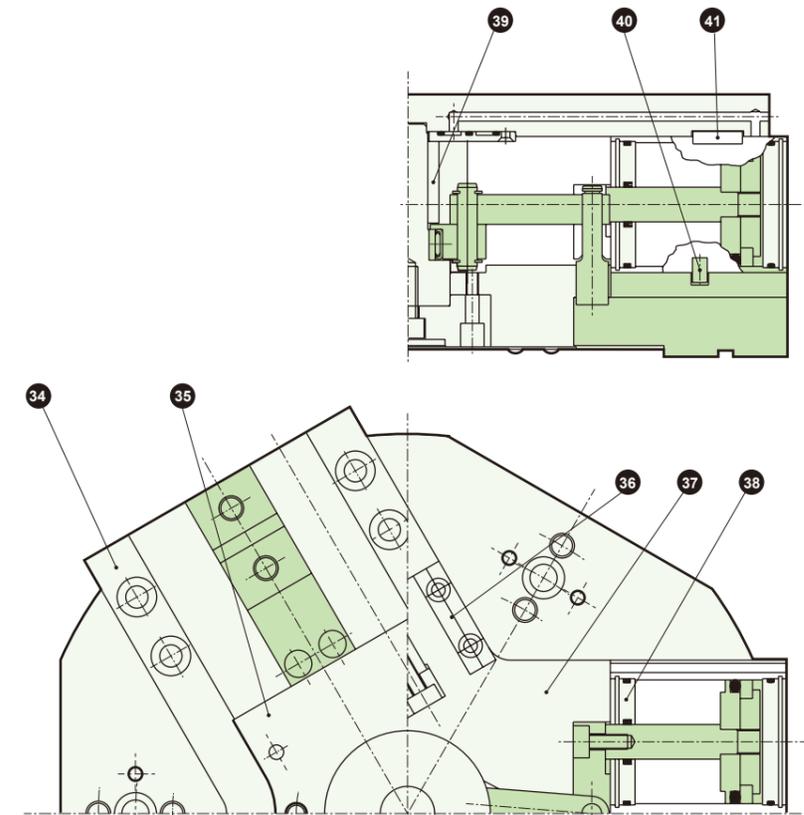


**Do not disassemble**

Internal Structure Diagram/Material

Internal Structure Diagram/Material

● CKJ-63CS-S1



**Do not disassemble**

Part No.	Part Name	Material	Remarks	Part No.	Part Name	Material	Remarks
1	Finger Cover B	Aluminum Alloy		19	Washer		
2	Cover	Stainless Steel		20	Link Ring	Aluminum Alloy	
3	Center Block	16CS, 40CS: Aluminum Alloy 63CS: Steel		21	E-type Retaining Ring	Steel	
4	Base	Aluminum Alloy		22	Pivot Shaft	16CS, 40CS: Stainless Steel 63CS: Carbon steel	
5	Link	16CS, 40CS: Stainless Steel 63CS: Steel		23	Actuating Pin	16CS, 40CS: Stainless Steel 63CS: Carbon steel	
6	Connection Block	16CS, 40CS: Stainless Steel 63CS: Carbon steel		24	Rod seal	Nitrile Rubber	
7	Finger Cover A	Aluminum Alloy		25	Piston seal	Nitrile Rubber	
8	Shaft	16CS, 40CS: Steel 63CS: Aluminum Alloy		26	Magnet		
9	O-ring	Nitrile Rubber		27	Seal	Nitrile Rubber	
10	Piping Plate	Aluminum Alloy		28	Finger	Steel	
11	O-ring	Nitrile Rubber		29	Inner Ring		
12	O-ring	Nitrile Rubber		30	O-ring	Nitrile Rubber	
13	Piston Rod	Stainless Steel		31	O-ring	Nitrile Rubber	
14	Piston A	Aluminum Alloy		32	O-ring	Nitrile Rubber	
15	Piston B	16CS, 40CS: Aluminum Alloy 63CS: Stainless Steel		33	Collar	Polyacetal	
16	Cylinder cover	16CS, 40CS: Polyacetal 63CS: Aluminum Alloy		34	Body	Aluminum Alloy	
17	C-type retaining ring	Steel		35	Front Cover	Stainless Steel	
18	Needle Roller Bearing			36	Side cover	Aluminum Alloy	
				37	Body	Aluminum Alloy	
				38	Rod Cover	Aluminum Alloy	
				39	Metal Collar	Steel	
				40	Parallel Pin	Stainless Steel	
				41	Parallel Key	Steel	

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

Cylinder  
Switch  
Ending