

Clamp Cylinder

Series CK□1

- Clevis width **16.5 mm/19.5 mm**
- Built-in speed controller
- With air cushion
- Magnetic field resistant auto switches are mountable.

MK

CKQ
CLKQ

CK□1

CLK2

Variations

Series		Bore size (mm)	Stroke (mm)	Clevis width (mm)	Rod end bracket	Options
Basic type	Series CK1□	40	50	A: 16.5 mm B: 19.5 mm	Single knuckle joint	Limit switch mounting base
Built-in standard magnet type (applicable to magnetic field resistant auto switches)	Series CKG1□		75			Dog fitting
Built-in strong magnet type (applicable to magnetic field resistant auto switches)	Series CKP1□	50	100		Double knuckle joint	Foot
		63	125			Pedestal
			150			



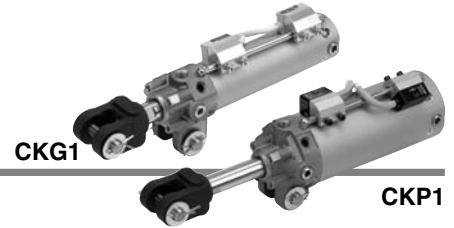
D-□

-X□

Individual
-X□

Clamp Cylinder with Magnetic Field Resistant Auto Switch (Rod Mounting Style)

Series **CKG1/CKP1** ø40, ø50, ø63



How to Order

Built-in standard magnet type
with magnetic field resistant
auto switch

Built-in strong magnet type
with magnetic field resistant
auto switch

CKG1 **A** **50** **-** **100** **Y** **-** **P4DWSC**

CKP1 **A** **50** **-** **100** **Y** **-** **P79WSE**

Clevis width

A	16.5 mm
B	19.5 mm

Thread type

Nil	Rc1/4
TN	NPT1/4

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Bore size

40	40 mm
50	50 mm
63	63 mm

Cylinder stroke (mm)

40	50, 75, 100, 125, 150
50	50, 75, 100, 125, 150
63	50, 75, 100, 125, 150

Auto switch

Nil	Without auto switch (built-in magnet) Without switch mounting rod
P	Without auto switch (built-in magnet) With switch mounting rod

* Select applicable auto switch models from the table below.

End bracket

Nil	None
I	Single knuckle joint (M6 without tap)
IA	Single knuckle joint (M6 with tap)
Y	Double knuckle joint (M6 without tap)
YA	Double knuckle joint (M6 with tap)

Note 1) IA and YA are equivalent to the conventional models.
Note 2) Knuckle pin, cotter pin and flat washer are provided as a standard for **Y** and **YA**.

Option

Nil	None
B	Limit switch mounting base
D	Dog fitting ^{Note 1)}
L	Foot
K ^{Note 2)}	Pedestal (for 75, 100, 150 strokes only)

Note 1) When the dog bracket is selected, choose the rod end bracket IA or YA (M6 with tap).

Note 2) Clevis width B (19.5 mm) is not available with mounting base K.

Built-in Standard (Strong) Magnet Cylinder Part No.

1) Built-in standard (strong) magnet type without auto switch and switch mounting rod

Symbol for the auto switch type is "Nil" as shown below.

CKG1: (Example) CKG1A50-50Y

CKP1: (Example) CKP1A50-50Y

2) Built-in standard (strong) magnet type without auto switch, with switch mounting rod

Symbol for the auto switch type is "P" as shown below.

CKG1: (Example) CKG1A50-50Y-P

CKP1: (Example) CKP1A50-50Y-P

Applicable Magnetic Field Resistant Auto Switches (Refer to pages 1719 to 1827 for detailed auto switch specifications.)

Applicable cylinder series	Type	Auto switch model	Applicable magnetic field	Electrical entry	Indicator light	Wiring (Pin no in use)	Load voltage	Lead wire length	Applicable load
Series CKG1	Solid state auto switch	P4DWSC	AC magnetic field (Single-phase AC welding magnetic field)	Pre-wired connector	2-color display	2-wire (3-4)	24 VDC	0.3 m	Relay, PLC Note 1)
		Grommet		2-wire (1-4)		3 m			
				2-wire		5 m			
						P4DWZ			
Series CKP1	Reed auto switch	P79WSE	DC / AC magnetic field	Pre-wired connector	2-color display	2-wire (1-4)	24 VDC	0.3 m	
		Grommet		1-color display	2-wire	24 VDC 100 VAC	3 m		
							P74Z	5 m	

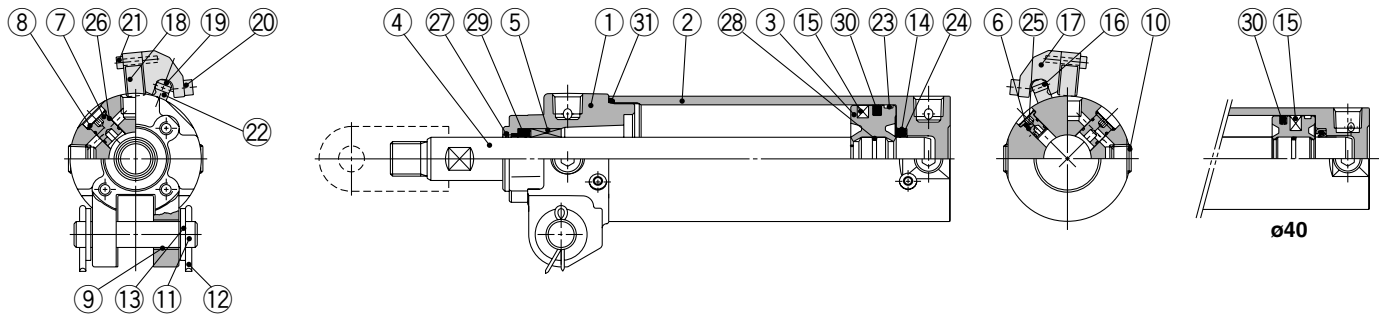
Note 1) PLC: Programmable Logic Controller

Note 2) There are other applicable auto switches other than the listed above. For details, refer to page 1329.

Note 3) Refer to page 1330 when ordering the auto switch mounting bracket assembly or switch mounting rod assembly.

Construction

CKG1□40, 50, 63 Built-in standard magnet type / With magnetic field resistant auto switch

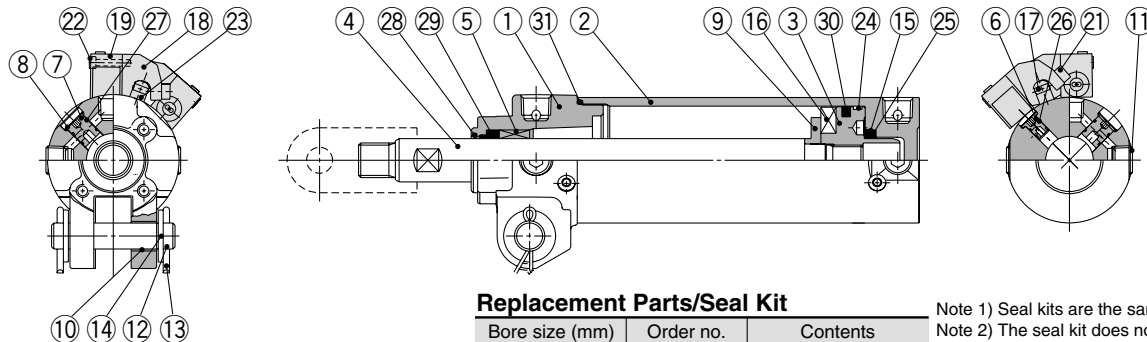


Component Parts

No.	Description	Material	Qty	Note
1	Rod cover	Aluminum alloy	1	Chromated
2	Tube cover	Aluminum alloy	1	Hard anodized
3	Piston	Aluminum alloy	1	Chromated
4	Piston rod	Carbon steel	1	Hard chrome plated
5	Bushing	Copper alloy	1	
6	Cushion valve	Aluminum alloy	1	
7	Speed controller valve	Aluminum alloy	2	
8	Retaining ring	Spring steel	3	
9	Clevis bushing	Oil-impregnated sintered alloy	2	
10	Hexagon socket head plug	Carbon steel	4	Rc 1/4
11	Pin	Carbon steel	1	
12	Cotter pin	Low carbon steel wire rod	2	
13	Flat washer	Rolled steel	2	
14	Cushion seal retainer	Rolled steel	1	Zinc chromated
15	Magnet	—	1	
16	Switch mounting rod	Carbon steel	1	Zinc chromated
17	Auto switch mounting bracket	Aluminum alloy	—	

No.	Description	Material	Qty	Note
18	Magnetic field resistant auto switch	—	—	
19	Hexagon socket head button screw	Steel wire	2	M4 x 0.7 x 12 L
20	Hexagon socket head cap screw	Steel wire	2 pcs. per switch	M4 x 0.7 x 8 L
21	Hexagon socket head cap screw	Steel wire	2 pcs. per switch	M3 x 0.5 x 14 L
22	Switch mounting spacer	Aluminum alloy	2	
23	Wear ring	Resin	1	
24	Cushion seal	Urethane	1	
25	Cushion valve seal	NBR	1	
26	Speed controller valve seal	NBR	2	
27	Coil scraper	Phosphor bronze	1	
28	Piston gasket	NBR	1	
29	Rod seal	NBR	1	
30	Piston seal	NBR	1	
31	Tube gasket	NBR	1	

CKP1□40, 50, 63 Built-in strong magnet type / With magnetic field resistant auto switch



Replacement Parts/Seal Kit

Bore size (mm)	Order no.	Contents
40	CK1A40-PS	Set of nos. above 29, 30, 31.
50	CK1A50-PS	
63	CK1A63-PS	

Note 1) Seal kits are the same as the CKG1□/CKP1□.
Note 2) The seal kit does not come with a grease pack, so please order it separately.

Grease pack part no.: GR-S-005 (compatible with all sizes)
Please order 2 pieces exceeding 100 strokes.

Component Parts

No.	Description	Material	Qty	Note
1	Rod cover	Aluminum alloy	1	Chromated
2	Tube cover	Aluminum alloy	1	Hard anodized
3	Piston	Aluminum alloy	1	Chromated
4	Piston rod	Carbon steel	1	Hard chrome plated
5	Bushing	Copper alloy	1	
6	Cushion valve	Aluminum alloy	1	
7	Speed controller valve	Aluminum alloy	2	
8	Retaining ring	Spring steel	3	
9	Magnet holder	Aluminum alloy	1	Chromated
10	Clevis bushing	Oil-impregnated sintered alloy	2	
11	Hexagon socket head plug	Carbon steel	4	Rc 1/4
12	Pin	Carbon steel	1	
13	Cotter pin	Low carbon steel wire rod	2	
14	Flat washer	Rolled steel	2	
15	Cushion seal retainer	Rolled steel	1	Zinc chromated
16	Magnet	—	1	
17	Switch mounting rod	Carbon steel	1	Zinc chromated

No.	Description	Material	Qty	Note
18	Auto switch mounting bracket	Aluminum alloy	—	
19	Magnetic field resistant auto switch	—	—	
20	Hexagon socket head button screw	Steel wire	2	M4 x 0.7 x 12 L
21	Hexagon socket head cap screw	Steel wire	2 pcs. per switch	M4 x 0.7 x 8 L
22	Hexagon socket head cap screw	Steel wire	2 pcs. per switch	M3 x 0.5 x 16 L
23	Switch mounting spacer	Aluminum alloy	2	
24	Wear ring	Resin	1	
25	Cushion seal	Urethane	1	
26	Cushion valve seal	NBR	1	
27	Speed controller valve seal	NBR	2	
28	Coil scraper	Phosphor bronze	1	
29	Rod seal	NBR	1	
30	Piston seal	NBR	1	
31	Tube gasket	NBR	1	