Clamp Cylinder

ø40. ø50. ø63

New





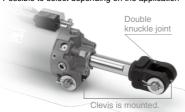


Clevis width

12.5 mm is now available.

16.5 mm/19.5 mm

Possible to select depending on the application



Made to Order With air cushion on both ends (-X1515) is added.

Series CK □1

Magnetic field resistant auto switches CKQ

Mountable in 3 directions

[Series CKG1/Built-in standard magnet type] D-P3DW, D-P4DW



[Series CKP1/Built-in strong magnet type] D-P79WSE. D-P74L/Z



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1268

Lube-JA

CA2

CJ2

CM₂ CG₁ MR

MXH

MXN

MGP

CK□1

C(L)K□

C(L)KU

CK72N

WRF

Total tube length reduced

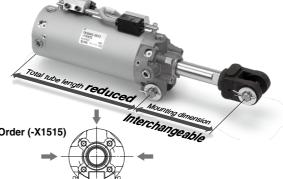
The total length has been reduced by modifying the internal design.

Series CKP1			(mm)
Bore size (mm)	№ ∞CKP1	Shortened dimensions	Existing model
40	58	7	65
50	56	2	58
63	56	2	58

Series CKG1			(mm)	
Bore size (mm)	№ CKG1	Shortened dimensions	Existing model	
40	53	2	55	
50	56	2	58	
63	56	2	58	

Mounting dimensions are the same as the existing product.

The dimension from the body to the work piece is the same as the existing product.



With air cushion

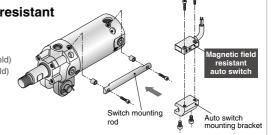
Unclamped side (Head end)...Standard
Air cushion on both ends.....Made to Order (-X1515)

Piping ports are located on three surfaces.

Possible to mount magnetic field resistant auto switch in 3 directions

[Series CKG1/Built-in standard magnet type]
D-P3DWSC, D-P3DWSE, D-P3DW/L/Z (AC magnetic field)
D-P4DWSC, D-P4DWSE, D-P4DWL/Z (AC magnetic field)

[Series CKP1/Built-in strong magnet type] **D-P79WSE. D-P74L/Z** (DC/AC magnetic field)



CK1 Series Variations

	Series			Bore size (mm)			Stroke	Clevis width	Domo	
	Series		25	32	40	50	63	(mm)	(mm)	Page
Clamp cylinder (Rod mounting style)	Built-in standard magnet type	CKG1			•	•	•	50 75		P.1270
	Built-in strong magnet type	СКР1			•	•	•	100	12.5 16.5	P.1270
Clamp cylinder (Band mounting style)	Without magnet	СК1			•	•	•	125 150	19.5	P.1275
	Built-in standard magnet type	CKG1			•	•	•	200* *Except ø40		F.1213
Clamp cylinder/ Slim style	Built-in standard magnet type	CKG□-X2095	•	•	•		+	50		
(Rod mounting style)	Built-in strong magnet type	CKP□-X2095	•	•	•	+	+	75	0.405	Information
Clamp cylinder with lock/Slim style (Rod mounting style)	Built-in standard magnet type	CLKG□-X2095		•	•	+	+	100 125	9, 12.5	09-E555
(Hod mounting style)	Built-in strong magnet type	CLKP□-X2095		•	•	+	+	150		
Clamp cylinder with lock	Built-in standard magnet type	CLK2G□		•	•	•	•	50, 75 100, 125	12, 16.5, 19.5	Best Pneumatics
	Built-in strong magnet type	CLK2P□			•	•	•	150	16.5, 19.5	P.1481

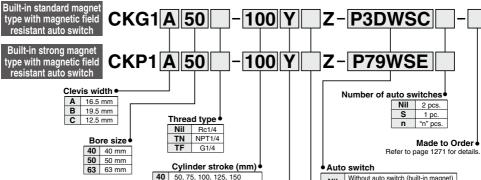
Clamp Cylinder with Magnetic Field **Resistant Auto Switch (Rod Mounting Style)**

Series CKG1/CKP1

Ø40, Ø50, Ø63



How to Order



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

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

Symbol for the auto switch type is "Nil" as shown helow

CKG1: (Example) CKG1A50-50YZ CKP1: (Example) CKP1A50-50YZ

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

Symbol for the auto switch type is "P" as shown helow

CKG1: (Example) CKG1A50-50YZ-P

CKP1: (Example) CKP1A50-50YZ-P

* The auto switch mounting bracket is not included.

End bracket

Nil	None				
- 1	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)				

50, 75, 100, 125, 150, 200

63 50, 75, 100, 125, 150, 200

Note 1) IA and YA are equivalent to the conventional models.

Note 2) A knuckle pin, cotter pins and flat washers are provided as a standard for Y and YA.

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

* Select applicable auto switch models from the table below.

Ontion

	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 fitting is selected, choose the rod end bracket IA or YA (M6 with tap).

Note 2) Only available for clevis width A (16.5 mm)

Applicable Magnetic Field Decistant Auto Switche

Applicable Magnetic Field Resistant Auto Switches (Refer to the WEB catalog or the Best Pneumatics No.3 for detailed auto switch specifications.)									
Applicable cylinder series	Туре	Auto switch model	Applicable magnetic field	Electrical entry	Indicator light	Wiring (Pin no in use)	Load voltage	Lead wire length	Applicable load
CKG1		D-P3DWSC				2-wire (3-4)		0.3 m	
	Solid state auto switch D-P3DV D-P3DV D-P3D D-P4DV D-P3DV D-P3DV	D-P3DWSE		Pre-wired connector		2-wire (1-4)			
		D-P4DWSE	AC magnetic field (Single-phase AC welding magnetic field)			2-Wile (1-4)	24 VDC	0.5	
CKGI		D-P3DWL		Grommet	2-color indication	2-wire	24 VDC	0.5 m	Relay,
		D-P4DWL						3 m	PLC Note 1)
		D-P3DWZ D-P4DWZ						5 m	
		D-P79WSE	50/10	Pre-wired connector	2-color indication	2-wire (1-4)	24 VDC	0.3 m	
CKP1	Reed auto switch	D-P74L	DC/AC magnetic field	Grommet	1-color indication	2-wire	24 VDC	3 m	
	auto switch	D-P74Z		Gionffilet	1-color illulcation		100 VAC	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 1281.

Note 3) Refer to page 1282 when ordering the auto switch mounting bracket assembly or switch mounting rod assembly. Note 4) For the D-P3DW□, the auto switch and auto switch mounting bracket are packed together, (but not assembled).

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CJ2

CM₂

CG1 MB

CA2

COS

JA MXH

MXO

MGP

CUX CK□1

C(L)K□

C(L)KU

CKQ

CKZ2N WRF



Refer to pages 1281 to 1283 for cylinders with auto switches.

- . Minimum stroke for auto switch mounting · Auto switch proper mounting position
- (detection at stroke end) and its mounting height
- Operating range
- · Auto switch mounting bracket/Part no.



Made to Order (Refer to page 1285 for details.)

Symbol	Specifications
-Y1515	With air cushion on both ends

Specifications

Bore size (mm)	40	50	63		
Fluid	Air				
Proof pressure	1.5 MPa				
Maximum operating pressure	1.0 MPa				
Minimum operating pressure	0.05 MPa				
Ambient and fluid temperature	-10°C to 60°C				
Piston speed	50 to 500 mm/s				
Cushion	Unclamped s	ide (head end): Wi	th air cushion		
Speed controller	Ed	uipped on both en	ds		
Lubrication	Non-lube				
Stroke length tolerance	+1.0 0				
Mounting Note)		Double clevis			

Note) A clevis pin, cotter pins, flat washers are equipped as a standard.

	16.5 mm	CKG1A/CKP1A		
Clevis width	19.5 mm	CKG1B/CKP1B		
	12.5 mm	CKG1C/CKP1C		

Standard Stroke

Bore size (mm)	Standard stroke (mm)		
40	50, 75, 100, 125, 150		
50, 63	50, 75, 100, 125, 150, 200		

End Bracket/Options

Symbol	Description		Part no.				
Symbol			CKG1A/CKP1A	CKG1B/CKP1B	CKG1C/CKP1C		
ı	Single knuckle joint	M6 without tap	CKB-I04				
IA	Single knuckle joint	M6 with tap	CKB-IA04				
Y	Double knuckle joint (A knuckle pin, cotter pins,	M6 without tap	CKA-Y04	CKB-Y04	CKC-Y04		
YA	flat washers are equipped as a standard.)	M6 with tap	CKA-YA04	CKB-YA04	CKC-YA04		

Weight (Basic weight includes the switch mounting rod. At 0 stroke)

				Unit: kg
	Bore size (mm)	40	50	63
CKG1□ cylinder	Basic weight	0.70	0.92	1.12
CKG I Cyllinder	Additional weight per 25 mm of stroke	0.11	0.12	0.14
CKP1□ cylinder	Basic weight	0.72	0.98	1.28
CKF I Cyllinder	Additional weight per 25 mm of stroke	0.11	0.12	0.14
Single knuckle joint			0.20	
Double knuckle joint are equipped as a s		0.34		

Calculation Example) CKG1 50-100YZ-P • Additional weight 0.12/25 mm

Basic weight ----- 0.92 (ø50)

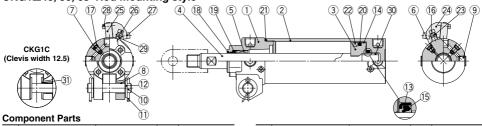
 Cylinder stroke ------ 100 mm Double knuckle joint ----- 0.34 (Y) 0.92 + 0.12 x 100/25 + 0.34 = 1.74 kg

Theoretical Output

							Unit: N
Bore size	Rod size	Operating	Piston area	0	perating pre	essure (MP	a)
(mm)	(mm)	direction	(mm ²)	0.3	0.4	0.5	0.6
40	00	OUT	1260	378	504	630	756
40	20	IN	943	283	377	472	566
50		OUT	1960	588	784	980	1180
50	20	IN	1650	495	660	825	990
63	00	OUT	3120	934	1250	1560	1870
03	20	IN	2800	840	1120	1400	1680

Construction

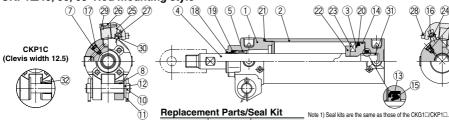
CKG1□40, 50, 63 Rod mounting style



				1
No.	Description	Material	Q'ty	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 plating
5	Bushing	Bearing alloy	1	
6	Cushion valve	Steel wire	1	Black zinc chromated
7	Speed controller valve	Steel wire	2	Nickel plating
8	Clevis bushing	Oil-impregnated sintered alloy	2	
9	Hexagon socket head plug	Carbon steel	4	Rc1/4
10	Pin	Carbon steel	1	
11	Cotter pin	Low carbon steel wire rod	2	
12	Flat washer	Rolled steel	2	
13	Cushion seal retainer	Rolled steel	1	Zinc chromated
14	Wear ring	Resin	1	
15	Cushion seal	Urethane	1	
16	Cushion valve seal	NBR	1	
17	Speed controller valve seal	NBR	2	

No.	Description	Material	Q'ty	Note
18	Coil scraper	Phosphor bronze	1	
19	Rod seal	NBR	1	
20	Piston seal	NBR	1	
21	Tube gasket	NBR	1	
22	Magnet	_	1	
23	Switch mounting rod	Carbon steel	1	Zinc chromated
24	Auto switch mounting bracket	Aluminum alloy	_	
25	Magnetic field resistant auto switch	_	_	
26	Hexagon socket head cap screw	Steel wire	2	M4 x 0.7 x 14 L
27	Hexagon socket head cap screw	Steel wire	2 pcs. per switch	M4 x 0.7 x 8 L
28	Hexagon socket head cap screw	Steel wire	2 pcs. per switch	M3 x 0.5 x 14 L
29	Switch mounting spacer	Aluminum alloy	2	
30	Cushion ring	Aluminum alloy	1	Anodized
31	Spacer	Bearing alloy	2	CKG1C only

CKP1□40, 50, 63 Rod mounting style



Bore size (mm)	Order no.	Contents	Ν					
40	CK1A40-PS	Set of nos. above 19, 20, 21.	N					

- lote 2) Seal kit does not come with a grease pack, so please order it separately. Grease pack part number: GR-S-010 (compatible with all sizes)
- Note 3) Cylinders with ø50 or larger bore sizes are tightened with a large tightening torque and cannot be disassembled. Please contact SMC when disassemble is required.

Cor	nponent Parts			
No.	Description	Material	Q'ty	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 plating
5	Bushing	Bearing alloy	1	
6	Cushion valve	Steel wire	1	Black zinc chromated
7	Speed controller valve	Steel wire	2	Nickel plating
8	Clevis bushing	Oil-impregnated sintered alloy	2	
9	Hexagon socket head plug	Carbon steel	4	Rc1/4
10	Pin	Carbon steel	1	
11	Cotter pin	Low carbon steel wire rod	2	
12	Flat washer	Rolled steel	2	
13	Cushion seal retainer	Rolled steel	1	Zinc chromated
14	Wear ring	Resin	1	
15	Cushion seal	Urethane	1	
16	Cushion valve seal	NBR	1	
17	Speed controller valve seal	NBR	2	

No.	Description	Material	Q'ty	Note
18	Coil scraper	Phosphor bronze	1	
19	Rod seal	NBR	1	
20	Piston seal	NBR	1	
21	Tube gasket	NBR	1	
22	Magnet holder	Aluminum alloy	1	
23	Magnet	ı	1	
24	Switch mounting rod	Carbon steel	1	Zinc chromated
25	Auto switch mounting bracket	Aluminum alloy		
26	Magnetic field resistant auto switch	ı	_	
27	Hexagon socket head cap screw	Steel wire	2	M4 x 0.7 x 14 L
28	Hexagon socket head cap screw	Steel wire	2 pcs. per switch	M4 x 0.7 x 8 L
29	Hexagon socket head cap screw	Steel wire	2 pcs. per switch	M3 x 0.5 x 16 L
30	Switch mounting spacer	Aluminum alloy	2	
31	Cushion ring	Aluminum alloy	1	Anodized
32	Spacer	Bearing alloy	2	CKP1C only
n				1272

INDEX

SMC

CJ₂ CM₂

CG₁ MB

CA2

JA MXH

MXQ

MGP

CK□1

C(L)K□

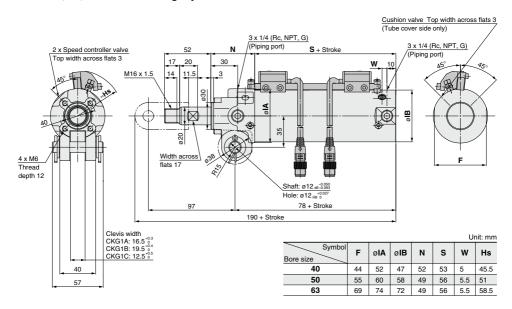
C(L)KU CKQ

CKZ2N

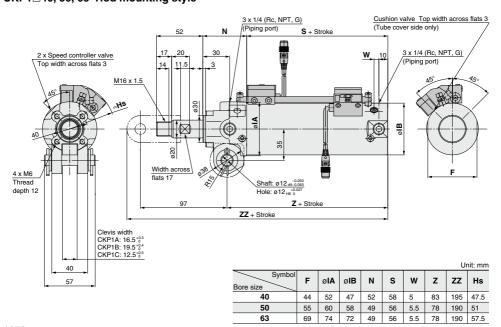
WRF

Dimensions

CKG1 □ 40, 50, 63 Rod mounting style



CKP1□40, 50, 63 Rod mounting style



CA2

CQ2 CQS Luberetainer

JA MXH

MXQ

MGP

C□Y C□X

CK□1

C(L)K□

C(L)KU

CKZ2N

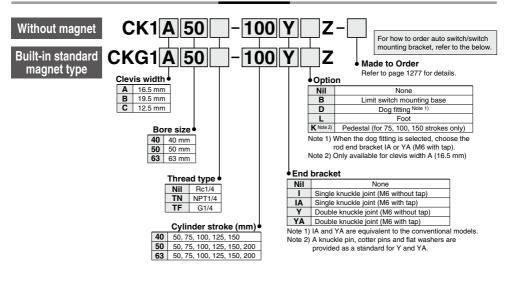
WRF

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

Series CK1/CKG1



How to Order



Magnetic Field Resistant Auto Switch D-P4DW□□/Band Mounting Compliant

Band mounting of the magnetic field resistant auto switch (D-P4DWIII) to the built-in standard magnet clamp cylinder (CKG1III) series) is possible by ordering the switch mounting bracket and the auto switch individually.



How to Order

Please order the switch mounting bracket, auto switch and built-in standard magnet clamp cylinder individually. Refer to the table below for auto switch mounting bracket part numbers.

Part no.	Applicable auto switch model	Applicable clamp cylinder
BA8-040	D-P4DWSC	CKG1□40
BA8-050	D-P4DWSE	CKG1□50
BA8-063	D-P4DWL/Z	CKG1□63

Ordering Example

Note 1) Please order the same quantity for the switch mounting bracket and the magnetic field resistant auto switch respectively.

Note 2) Band mounting for the magnetic field resistant auto switches D-P79WS□, D-P74□ is not applicable.

Applicable Magnetic Field Resistant Auto Switches (Refer to the WEB catalog or the Best Pneumatics No.3 for detailed auto switch specifications.)

	Applicable cylinder series	Туре	Auto switch model	Applicable magnetic field	Electrical entry	Indicator light	Wiring (Pin no in use)	Load voltage	Lead wire length	Applicable load
	CKG1	Solid state auto switch P4D	P4DWSC P4DWSE	AC magnetic lielu	Pre-wired connector	2-color	2-wire (3-4) 2-wire (1-4)	24 VDC	0.3 m	Relay,
			P4DWL P4DWZ	AC welding magnetic field)	Grommet	indication	2-wire	24 VDC	3 m	PLC Note 1)

Note 1) PLC: Programmable Logic Controller

Note 2) There are other applicable auto switches other than the listed above. For details, refer to page 1281.

Clamp Cylinder with Standard Auto Switch (Band Mounting Style)

Series CKG1



CJ2

CM₂

CG1

MB

CA2

COS

JA

MXH

MXO

MGP

CK□1

C(L)K□

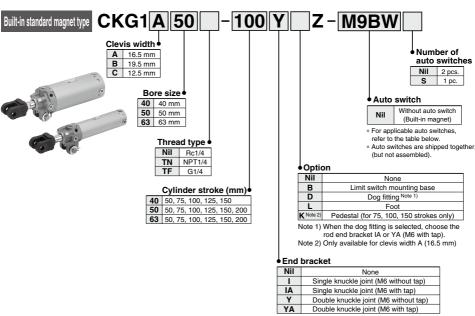
C(L)KU

CKO

CKZ2N

WRF

How to Order



Double knuckle joint (M6 with tap)

Note 1) IA and YA are equivalent to the conventional models.

Note 2) A knuckle pin, cotter pins and flat washers are provided as a standard for Y and YA.

The built-in standard magnet clamp cylinder/the CKG1□ series can be attached to the band mounting style/standard auto switch as shown below.

⚠ Caution

The standard auto switch cannot be used in a magnetic field environment. For information on our cylinders that can be fitted with a magnetic field resistant auto switch, refer to page 1270.

Standard Auto Switches (Refer to the WEB catalog or the Best Pneumatics No.3 for detailed auto switch specifications.)

Stariuaru Au	to Switches (neier to the v	VED Cat	alog or u	ie best r	neumai	ICS INO.3	ior detalled auto s	witch spe	cilicai	ions.)							
Applicable	Type	Electrical	Indicator	Wiring	ng Load voltag		Load voltage		iring Loa		ge	Auto switch model	Lead	wire le	ength ((m)	Appli	cable
cylinder series	туре	entry	light	(Output)	D	С	AC	Band mounting	0.5(Nil)	1(M)	3(L)	5(Z)	loa	ad				
	Solid state	Grommet	Yes	2-wire	24 V	5 V		M9B	•	•	•	0						
	auto switch	Grommet	res	2-wire	24 V	12 V	_	M9BW	•	•	•	0		١				
CKG1	Dood						100 V	A93	•	•	•	•	-	Relay, PLC				
	Reed auto switch	Grommet	Yes	2-wire	24 V	12 V	100 V 200 V	B54	•	_	•	•		FLC				

Note 1) Lead wire length symbol: 0.5 m....... Nii M9BW
1 m...... M M9BWM
3 m..... L M9BWL
5 m...... Z M9BWZ

Note 2) Auto switches marked with "O" are produced upon receipt of order.

Note 3) PLC: Programmable Logic Controller

Note 4) Refer to page 1282 when ordering the auto switch mounting bracket assembly or switch mounting rod assembly.





Refer to pages 1281 to 1283 for cylinders with auto switches.

- Minimum stroke for auto switch mounting
 Auto switch proper mounting position (detection at stroke end) and its mounting height
- Operating range
- · Auto switch mounting bracket/Part no.



Made to Order (Refer to page 1285 for details.)

Symbol	Specifications					
-X1515	With air cushion on both ends					

Specifications

Bore size (mm)	40 50 63					
Fluid	Air					
Proof pressure		1.5 MPa				
Maximum operating pressure		1.0 MPa				
Minimum operating pressure		0.05 MPa				
Ambient and fluid temperature	Without auto switch: -10°C to 70°C With auto switch: -10°C to 60°C					
Piston speed		50 to 500 mm/s				
Cushion	Unclamped s	ide (head end): Wi	th air cushion			
Speed controller	Ed	uipped on both en	ds			
Lubrication	Non-lube					
Stroke length tolerance		+1.0 0				
Mounting Note)	Double clevis					

Note) A clevis pin, cotter pins, flat washers are equipped as a standard.

	16.5 mm	CK1A/CKG1A
Clevis width	19.5 mm	CK1B/CKG1B
	12.5 mm	CK1C/CKG1C

Standard Stroke

Bore size (mm)	Standard stroke (mm)
40	50, 75, 100, 125, 150
50, 63	50, 75, 100, 125, 150, 200

End Bracket/Options

Symbol	Descripti		Part no.					
Symbol	Descripti	Off	CK1A/CKG1A	CK1B/CKG1B	CK1C/CKG1C			
ı	Cinale Imuelde isint	M6 without tap	CKB-I04					
IA	Single knuckle joint	M6 with tap	CKB-IA04					
Y	Double knuckle joint (A knuckle pin, cotter pins,	M6 without tap	CKA-Y04	CKB-Y04	CKC-Y04			
YA	flat washers are equipped as a standard.)	M6 with tap	CKA-YA04	CKB-YA04	CKC-YA04			

Weight

				Unit: kg
	Bore size (mm)	40	50	63
Cylinder	Basic weight	0.68	0.90	1.10
Cyllidei	Additional weight per 25 mm of stroke	0.10	0.11	0.13
Single knuckle joir	nt		0.20	
Double knuckle join are equipped as a s	t (A knuckle pin, cotter pins, flat washers standard.)		0.34	

Calculation
Example) CKG1□50-100YZ

Basic weight ------0.90 (ø50)

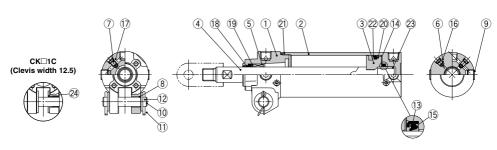
0.90 + 0.11 x 100/25 + 0.34 = 1.68 kg

Theoretical Output

Unit: N Operating pressure (MPa) Bore size Rod size Operating Piston area direction (mm) (mm) (mm²) 0.3 0.4 0.6 0.5 OUT 1260 378 504 630 756 40 20 283 377 472 IN 943 588 784 980 1180 OUT 1960 50 20 1650 660 IN 495 825 990 OUT 3120 934 1250 1560 1870 63 IN 2800 840 1120 1400 1680

Construction

CK□1□40, 50, 63 Band mounting style



Component Parts

CUI	Component Faits								
No.	Description	Material	Q'ty	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 plating					
5	Bushing	Bearing alloy	1						
6	Cushion valve	Steel wire	1	Black zinc chromated					
7	Speed controller valve	Steel wire	2	Nickel plating					
8	Clevis bushing	Oil-impregnated sintered alloy	2						
9	Hexagon socket head plug	Carbon steel	4	Rc1/4					
10	Pin	Carbon steel	1						
11	Cotter pin	Low carbon steel wire rod	2						
12	Flat washer	Rolled steel	2						
13	Cushion seal retainer	Rolled steel	1	Zinc chromated					
14	Wear ring	Resin	1						
15	Cushion seal	Urethane	1						
16	Cushion valve seal	NBR	1						
17	Speed controller valve seal	NBR	2						
18	Coil scraper	Phosphor bronze	1						
19	Rod seal	NBR	1						
20	Piston seal	NBR	1						
21	Tube gasket	NBR	1						
22	Magnet	_	T-	For the CKG1					
23	Cushion ring	Aluminum alloy	1	Anodized					
24	Spacer	Bearing alloy	2	CK□1C only					

Replacement Parts/Seal Kit

Bore size (mm)	Order no.	Contents
40	CK1A40-PS	Set of nos. above 19, 20, 21.

Note 1) Seal kit does not come with a grease pack, so please order it separately.

Grease pack part number: GR-S-010 (compatible with all sizes)

Note 2) Cylinders with ø50 or larger bore sizes are tightened with a large tightening torque and cannot be disassembled. Please contact SMC when disassemble is required.

CA2

Lube-

JA MXH

MXQ

MGP

CK□1

C(L)K□ C(L)KU

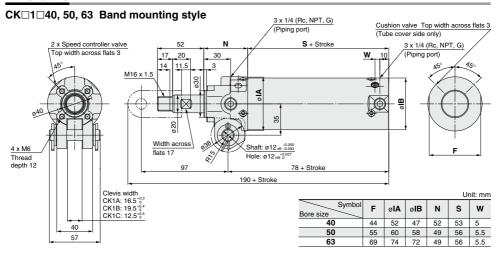
CKO

CKZ2N

WRF

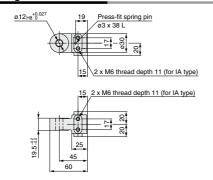


Dimensions



End Bracket

Single Knuckle Joint



Material: Cast iron

Part no.	End bracket symbol	Applicable clamp cylinder			
CKB-I04	I (M6 without tap)	CK□1A series			
CKB-IA04	IA (M6 with tap)	CK□1B series			

Note 1) A spring pin is attached to the single knuckle joint as a standard. Note 2) The existing model is equivalent to the component part number CKB-IA04 (end bracket symbol IA).

Pin

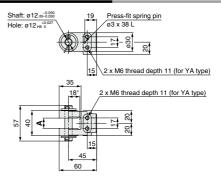


Material: Carbon stee

Part no.	Usage
CK-P04	Knuckle pin Clevis pin

Note) Cotter pins and flat washers are attached to the pin as a standard.

Double Knuckle Joint



Material: Cast iron

Unit: mm

1	Part no.	End bracket symbol	Α	Applicable clamp cylinder
	CKA-Y04	Y (M6 without tap)	16.5 +0.3	CK□1A series
	CKA-YA04	YA (M6 with tap)	10.5 0	CKLI IA Selles
	CKB-Y04	Y (M6 without tap)	19.5 +0.4	CK□1B series
	CKB-YA04	YA (M6 with tap)	19.5 0	CKLI ID selles
	CKC-Y04	Y (M6 without tap)	12.5 +0.3	CK□1C series
	CKC-YA04	YA (M6 with tap)	12.0 0	ONLI TO Series

Note 1) A knuckle pin, cotter pins, flat washers and a spring pin are attached to the double knuckle joint as a standard.

Note 2) The existing model is equivalent to the component part number CKA-YA04, CKB-YA04 (end bracket symbol YA).

Note 3) The dimension with * shows the value when mounted on the piston rod.

Air Cylinders

CJ₂

CM₂ CG₁

MB CA2

CQ2 COS Lube-JA

MXH MXO

MGP

CK□1 C(L)K□

C(L)KU

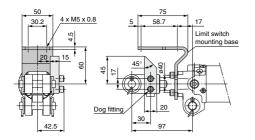
CKO CKZ2N

WRF

Limit Switch Mounting Base/Dog Fitting

Series CK □1

Options



Material: Rolled steel

Part no.	Option symbol	Name	Applicable clamp cylinder
CK-B04	В	Limit switch mounting base	CK□1A series
CK-D04	D	Dog fitting	CK□1B series

- Note 1) Limit switch mounting base and dog fitting can be repositioned by removing the hexagon socket head cap screw.
- Note 2) When ordering the limit switch mounting base and the dog fitting individually, mounting bolts (hexagon socket head cap screw) and spring washers will be attached as a standard.

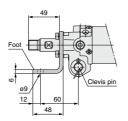


When you attach a dog fitting, be sure to use a knuckle joint, M6 with tap (end bracket symbol IA or YA).

The dog fitting cannot be attached to the knuckle joint, M6 without tap (end bracket symbol I or Y).

Foot





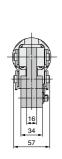
Material: Rolled steel

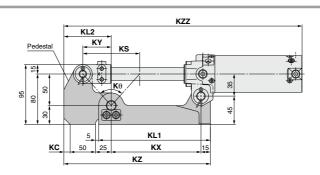
CK-L04 L CK□1A series CK□1B series	Part no.	Option symbol	Applicable clamp cylinder
	CK-L04	L L	

Note 1) A mounting bolt (hexagon socket head cap screw) and a spring washer will be attached as a standard for the foot bracket.

Note 2) When mounting the cylinder, use both the foot and clevis pin. Please avoid using the foot by itself as this may result in damage.

Pedestal





Material: Rolled steel

Unit: mm

	0-4										KZZ			A U b. l .
Part no.	Option symbol	KL1	KL2	KS	кх	KY	KZ	K θ	кс	CKG□40	CKP□40		CKG□63 CKP□63	Applicable clamp cylinder
CKA-K075		167	75	70	132	35	222	69° 59'	0	360	365	3	60	CK□1A40-75YZ CK□1A50-75YZ CK□1A63-75YZ
CKA-K100	к	177	75	90	142	45	232	83° 58'	0		39	95		CK□1A40-100YZ CK□1A50-100YZ CK□1A63-100YZ
CKA-K150		202	85	140	167	70	267	108° 55'	10		48	30		CK□1A40-150YZ CK□1A50-150YZ CK□1A63-150YZ

Note) Only available for the CK□1A series (Clevis width 16.5 mm)

1280

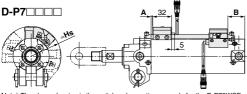


Auto Switch Mounting

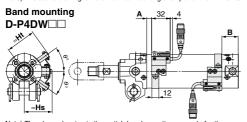
Auto Switch Proper Mounting Position (Detection at Stroke End) and Its Mounting Height

Rod mounting D-P3DW□□ Same surface Different surfaces D-P4DW□□

Note) The above drawing is the switch rod mounting example for the D-P4DWS□



Note) The above drawing is the switch rod mounting example for the D-P79WSE.



Note) The above drawing is the switch band mounting example for the

Minimum Stroke for Auto Switch Mounting

			Unit: mm
Auto switch model	With 1 pc.	With 2 pcs.	
Auto Switch model		Different surfaces	Same surface
D-P3DW□□	15	30	75
D-P4DW□□			
D-P79WSE	50	50	
D-P74□			

Note) When two D-P3DW□□ are mounted to the cylinder with stroke 50 mm, mount them on different surfaces

Other than the applicable auto switches listed in "How to Order," the following auto switches are mountable.

* For magnetic field resistant 2-color indication solid state auto switches, auto switches with pre-wired connector (D-P4DW DPC) are also available. Refer to the Best Pneumatics No.3 for details.

Auto Switch Mounting Position and Its Height: Rod Mounting Style

nou woulding		Unit: mm			
Auto switch model	Symbol	Auto switch set value and its height			
Auto switch model	Symbol	ø40	ø50	ø63	
	Α	8.5	6	6	
D-P3DW□□	В	24	29	29	
	Hs	44.5	48.5	56	
	Α	6	3.5	3.5	
D-P4DW□□	В	21	26.5	26.5	
	Hs	45.5	51	58.5	
D DZOWCE	Α	3.5	0	0	
D-P79WSE D-P74□	В	22.5	25	25	
D-F74	Hs	47.5	51	57.5	

Note 1) The mounting position should be referred for reference only for the auto switch mounting position at the stroke end detection. Adjust the auto switch after confirming the operation to set actually.

Note 2) The auto switch mounting position is temporarily set at the time of shipping from our factory. Change it to the desired position in accordance to your facility.

Note 3) For 2-color indication, mount the switch in the middle of the green indication.

Auto Switch Mounting Position and Its Height:

Band Mounting Style/D-P4DW□□					
Auto switch model	Cumahal	Auto switch	Auto switch set value and i		
Auto switch model	Symbol	ø40	ø50	ø63	
	Α	8	4.5	4.5	
E	В	20.5	27.5	27.5	
D-P4DW□□	Hs Ht	43	48	55	
		46	51.5	58.5	
	θ	45°	36°	33°	

Note 1) The mounting position should be referred for reference only for the auto switch mounting position at the stroke end detection. Adjust the auto switch after confirming the operation to set

Note 2) As for the D-P4DW□□, band mounting style, the switch mounting bracket and the auto switch have to be ordered separately. For details, refer to page 1275.

Note 3) For 2-color indication, mount the switch in the middle of the green

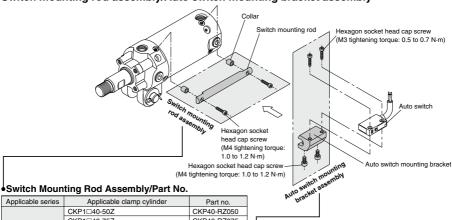
Operating Range

				Unit: mm
Auto oui	lah madal		Bore size	
Auto switch model		40	50	63
D-P3DW□□	Rod mounting	4	5	6
D-P4DW□□	Rod mounting	4	4	4.5
D-P4DW	Band mounting 5	5	5	5.5
D-P79WSE	Dad a sustina	8	9	9.5
D-P74□	Rod mounting	•	9	9.5

* Values which include hysteresis are for guideline purpose only, they are not a guarantee (assuming approximately ±30% dispersion) and may change substantially depending on the ambient environment.

Auto Switch Mounting Bracket/Part No.

Switch mounting rod assembly/Auto switch mounting bracket assembly



Applicable series	Applicable clamp cylinder	Part no.
	CKP1□40-50Z	CKP40-RZ050
Dedicated to	CKP1□40-75Z	CKP40-RZ075
CKP1□40	CKP1□40-100Z	CKP40-RZ100
OKI 1040	CKP1□40-125Z	CKP40-RZ125
	CKP1□40-150Z	CKP40-RZ150
	CKG1□40-50Z	
	CKG1□50-50Z/CKP1□50-50Z	CKG40-RZ050
	CKG1□63-50Z/CKP1□63-50Z	
	CKG1□40-75Z	
	CKG1□50-75Z/CKP1□50-75Z	CKG40-RZ075
	CKG1□63-75Z/CKP1□63-75Z	
CKG1 40/50/63		
	CKG1□50-100Z/CKP1□50-100Z	CKG40-RZ100
CKP1□50/63	CKG1□63-100Z/CKP1□63-100Z	
	CKG1□40-125Z	
Common	CKG1□50-125Z/CKP1□50-125Z	CKG40-RZ125
	CKG1□63-125Z/CKP1□63-125Z	
	CKG1□40-150Z	
	CKG1□50-150Z/CKP1□50-150Z	CKG40-RZ150
	CKG1□63-150Z/CKP1□63-150Z	
	CKG1□50-200Z/CKP1□50-200Z	OKO 40 D7000
	CKG1□63-200Z/CKP1□63-200Z	CKG40-RZ200

Hexagon socket head cap screw (M2.5 tightening torque: 0.2 to 0.3 N·m) Hexagon socket head cap screw (M4 tightening torque: 1 to 1.2 N·m) Switch mounting rod

Auto switch mounting bracket (Band mounting)

g	
Auto switch mounting bracket B	Cross recessed round head screw (M4 tightening torque: 1.0 to 1.2 N·m)
Auto switch mounting bracket D	Auto switch
Cross recessed round head screw (M4 tightening torque: 1.0 to 1.2 N·m)	
Spring washer Auto switch mounting band	Cross recessed round head screw (M3 tightening torque: 0.5 to 0.7 N·m)

Auto Switch Mounting Bracket Assembly/Part No

Auto Switch Mounting Dracket Assembly/Fart No.				
Applicable	Applicable	Auto switch mounting bracket part no.		
cylinder series	auto switch model	40	50	63
D-P3DWSC D-P3DWSE D-P3DW/L/Z		BMB9-050S		
CRGI	D-P4DWSC D-P4DWSE D-P4DWL/Z		BK1T-040	
CKP1	D-P79WSE D-P74L/Z		BAP1T-040	

Auto Switch Mounting Bracket (Band Mounting)/ Part No.

Auto switch mounting bracket part no.	Applicable auto switch model	Applicable clamp cylinder	
BA8-040	D-P4DWSC	CKG1□40	1
BA8-050	D-P4DWSE	CKG1□50	1
BA8-063	D-P4DWL/Z	CKG1□63]

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INDEX

SMC

Air Cylinders

CJ2

CM2 CG1

MB

CA2

CQ2 CQS Luberetainer

JA MXH

MXQ

MGP C Y

C(L)K□

C(L)KU

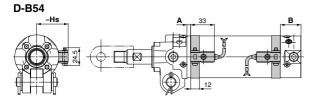
CKQ CKZ2N

WRF

Standard Auto Switch Mounting

Auto Switch Mounting Position (Detection at Stroke End) and Its Mounting Height

D-M9B(W)/A93



As for the precautions on the auto switches, product specifications, refer to pages 1287 to 1289.

Auto Switch Mounting Bracket Assembly/Part No.

	Auto switch mounting bracket part no.			
Auto switch model	40 50 63			
D-M9B D-M9BW D-A93	Note) BMA3-040	Note) BMA3-050	Note) BMA3-063	
D-B54	BA-04	BA-05	BA-06	

Note) This is the set part number for the auto switch mounting band (BMA2-□□□A) and holder set (BJ5-1/switch bracket: transparent). The switch bracket (nylon) cannot be used in environments exposed to alcohol, chloroform, methylamines, hydrochloric acid and sulfuric acid, as this part will deteriorate.

Please consult with SMC regarding other chemicals.

Auto Switch Mounting Position and Its Height Unit: mm

Auto switch	Symbol	Auto switch set value and its heigh		
model	Symbol	ø40	ø50	ø63
D-M9B	Α	13	10.5	10.5
D-M9BW	В	28	33.5	33.5
D-W3DW	Hs	35	40.5	47.5
	Α	10	7.5	7.5
D-A93	В	25	30.5	30.5
	Hs	35	40.5	47.5
	Α	4.5	1	1
D-B54	В	18	24	24
	Hs	38	43.5	50.5

Note 1) The mounting position should be referred for reference only for the auto switch mounting position at the stroke end detection. Adjust the auto switch after confirming the operation to set actually.

Note 2) The auto switch mounting position is temporarily set at the time of shipping from our factory. Change it to the desired position in accordance to your facility.

Note 3) For 2-color indication, mount the switch in the middle of the green indication.

Operating Range

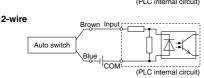
			Unit: mm			
Auto auritale madal		Bore size				
Auto switch model	40	50	63			
D-M9B	3.5	4	4			
D-M9BW	5.5	6.5	7			
D-A93	8	8	9			
D-B54	10	10	11			

 Values which include hysteresis are for guideline purpose only, they are not a guarantee (assuming approximately ±30% dispersion) and may change substantially depending on the ambient environment.

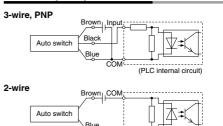
Prior to Use Auto Switch Connection and Example

Sink Input Specifications

3-wire, NPN Brown Input Auto switch (PLC internal circuit)



Source Input Specifications

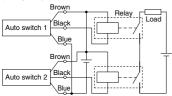


Connect according to the applicable PLC input specifications, as the connection method will vary depending on the PLC input specifications.

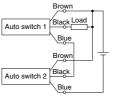
Example of AND (Series) and OR (Parallel) Connection

* When using solid state auto switches, ensure the application is setup so the signals for the first 50 ms are invalid.

3-wire AND connection for NPN output (Using relays)



(Performed with auto switches only) Brown Black Load Auto switch 1



3-wire OR connection for NPN output

(PLC internal circuit)

CJ2

CM₂

CG1

MB

CA2

ČÕS

JA

MXH

MXO

MGP

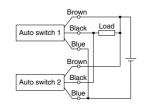
C(L)K□

C(L)KU

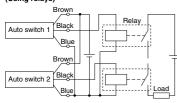
CKQ

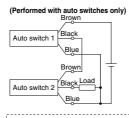
CKZ2N

WRF

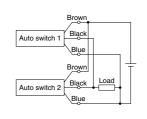


3-wire AND connection for PNP output (Using relays)

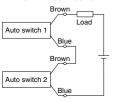




3-wire OR connection for PNP output



2-wire AND connection

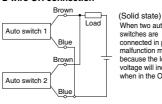


When two auto switches are connected in series, a load may malfunction because the load voltage will decline when in the ON state The indicator lights will light up when both of the auto switches are in the ON state Auto switches with load voltage less than 20 V cannot be used.

Load voltage at ON = Power supply voltage -Residual voltage x 2 pcs. = 24 V - 4 V x 2 pcs.

Example: Power supply is 24 VDC Internal voltage drop in auto switch is 4 V.

2-wire OR connection



When two auto switches are connected in parallel. malfunction may occur because the load voltage will increase when in the OFF state.

Load voltage at OFF = Leakage current x 2 pcs. x Load impedance = 1 mA x 2 pcs. x 3 kΩ

Example: Load impedance is 3 kΩ Leakage current from auto switch is 1 mA. (Reed)

Because there is no current leakage, the load voltage will not increase when turned OFF. However, depending on the number of auto switches in the ON state, the indicator lights may sometimes grow dim or not light up, due to the dispersion and reduction of the current flowing to the auto switches.



Series CK□1 Made to Order

Please contact SMC for detailed dimensions, specifications and lead times.

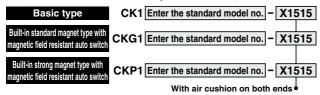


 1 CK□1□40, 50, 63/With Air Cushion on Both Ends

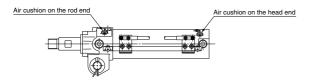
 -X1515

Clamp cylinder with air cushion on both ends (with cushion in the clamped/unclamped side)

The air cushion is integrated in the unclamped side (head end) only for the standard type CK1/CKG1/CKP1 series, bore size 40, 50 and 63. When an air cushion is required on both ends, it is available as a made-to-order -X1515.



Dimensions: Same as standard type



Specifications: Same as standard type

Specifications

Thread type	Rc1/4 only
	·
Specifications other than above	Same as standard type



Be sure to read before handling. Refer to page 1574 for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) and the Operation Manual for Actuator and Auto Switch Precautions. Please download it via our website, http://www.smcworld.com

Cushion/Speed Controller Adjustment

⚠ Danger

1. Retaining construction with crimping is integrated in the speed controller valve and cushion valve. However, do no rotate the cushion valve exceeding two turns, and do not rotate the speed controller valve exceeding four and half turns (ø40: maximum two turns). If 0.6 N·m or more of torque is applied, the valve may become loose and may jump out depending on the amount of air pressure.

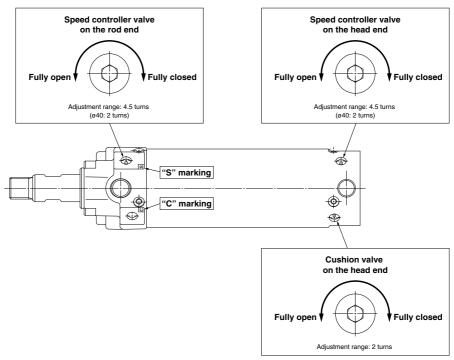
Cushion Adjustment

The air cushion is built in on the head end for the CK1 series. The cushion is pre-adjusted at the time of shipping. However, re-adjust the cushion valve on the tube cover depending on the operating speed and load before use. When rotating the cushion valve clockwise, the orifice becomes smaller, resulting in stronger cushion reaction.

Speed Controller Adjustment

The speed controller (exhaust restrictor) is built in on the rod and head end for the CK1 series. The cushion is pre-adjusted at the time of shipping. However, re-adjust the speed controller valve ("S" marking on the rod cover) on each cover depending on the operating speed and load before use.

When rotating the speed controller valve clockwise, the orifice becomes smaller, which reduces the speed.



INDEX



ē CJ2

CM2

CG1 MB

CA2

CQ2 CQS Lube-

retainer

MXH

MXQ

MGP C□Y C□X

C(L)K□

C(L)KU

CKQ CKZ2N

WRF



Be sure to read before handling. Refer to page 1574 for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) and the Operation Manual for Actuator and Auto Switch Precautions. Please download it via our website. http://www.smcworld.com

Piping Port/Switch Mounting Rod Location Change

Piping Port Location Change

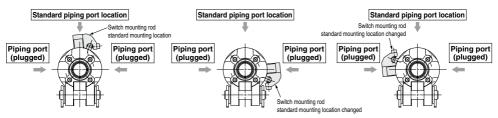
Piping is possible from 3 directions. When the piping port location is changed, carefully follow the instructions as detailed below.

⚠ Warning

- Do not leave out the component parts when the piping port location is changed.
 Even if one of the component parts is kept away, malfunction may occur, resulting in dangerous operation.
- To prevent air leakage, re-wind the pipe tape and fit into the changed location when the piping port location is changed.

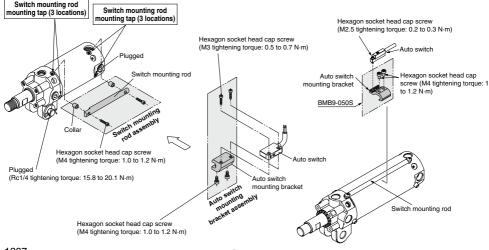
Switch Mounting Rod Location Change

The switch mounting rod is mountable from 3 directions. When the switch mounting rod is changed, carefully follow the instruction as detailed below.



⚠ Warning

- Mount all the component parts to the changed location.
 - Even if one of the component parts is kept away, the switch detection error etc. may occur. (Switch mounting rod, switch mounting spacer, hexagon socket head cap screw)
- After the switch mounting rod location is changed, confirm that there is no interference with other parts before use.



) SMC



Be sure to read before handling. Refer to page 1574 for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) and the Operation Manual for Actuator and Auto Switch Precautions. Please download it via our website, http://www.smcworld.com

Handling

Magnetic field resistant auto switches D-P79WSE/D-P74□ are specifically for use with built-in strong magnet type cylinders and are not compatible with general auto switches or cylinders. Built-in strong magnet type cylinders are labeled as follows.

Magnetic field resistant cylinder with built-in magnet (For use with auto switch D-P7)

Mounting

- The minimum stroke for mounting magnetic field resistant auto switches is 50 mm.
- In order to fully use the capacity of magnetic field resistant auto switches, strictly observe the following precautions.
 - Do not allow the magnetic field to occur when the cylinder piston is moving.
 - 2) When a welding cable or welding gun electrodes are near the cylinder, change the auto switch position to fall within the operational ranges shown in the graphs on page 1289, or move the welding cable away from the cylinder.
 - Cannot be used in an environment where welding cables surround the cylinder.
 - 4) Please consult with SMC when a welding cable and welding gun electrodes (something energized with secondary current) are near multiple auto switches.
- In an environment where spatter directly hits the lead wire, cover the lead wire with protective tubing.
 - Use protective tubing with inside diameter of $\emptyset 8$ or more that has excellent heat resistance and flexibility.
- Be careful not to drop objects, make dents, or apply excessive impact force when handling.
- When operating two or more cylinders with magnetic field resistant auto switches in parallel and proximity, separate the auto switches from other cylinder tubes by an additional 30 mm or more.
- Avoid wiring in a manner in which repeated bending stress or tension is applied to lead wires.
- Please consult with SMC regarding use in an environment with constant water and coolant splashing.
- Be careful of the mounting direction of the magnetic field resistant auto switch D-P79WSE.
 Be sure to face the soft-resin mold surface to the switch mounting bracket side for mounting.

(Refer to page 1281 for mounting example and the Best Pneumatics No.3 for soft-resin mold surface.)

Wiring/Current and Voltage

- Always connect the auto switch to the power supply after the load has been connected.
- 2. Series connection

When auto switches are connected in series as shown below:

Note that the voltage drop due to the internal resistance of the LED increases.



Air Cylinde

CJ2

CM2

CG1 MB

CA2

CQ2 CQS Lube-

retainer

MXH

MXQ MGP

C□Y C□X

C(L)K□

C(L)KU

CKQ CKZ2N

WRF

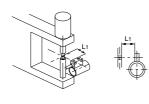


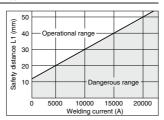


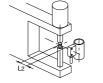
Be sure to read before handling. Refer to page 1574 for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) and the Operation Manual for Actuator and Auto Switch Precautions. Please download it via our website, http://www.smcworld.com

Data: Magnetic Field Resistant Reed Auto Switches (D-P79WSE, D-P74□) Safety Distance

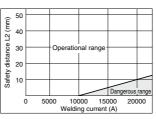
Safety Distance from Side of Auto Switch



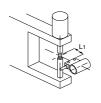




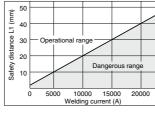


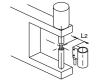


Safety Distance from Top of Auto Switch

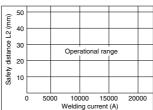












Series CK □1 **Related Products**

1 C(L)KG/C(L)KP25, 32, 40/Clamp Cylinder Slim Style

Symbol -X2095

The smallest class of clamp cylinder in the world ■ ø25 is available.

Weight 380 g Length 186.7 mm

(ø25, 50 stroke without speed controller or auto switch)

The values in the () are for conventional model.

Clevis width

Clamp cylinder

CK□-X2095

■ Comparison with existing model Weight reduced by up to 48%, total length reduced by 18%

	Weight (kg)	Length (mm)	
Clamp cylinder	0.67	146.7 + Stroke	
CKG-X2095	(1.31)	(192 + Stroke)	
Clamp cylinder with lock	0.97	182.2 + Stroke	
CLKP-F-X2095	(1.70)	(236 + Stroke)	
Comparison with ø40, 50 stroke with double knuckle joint and speed controller			

Compact auto switch (D-P3DW) Magnetic field resistant 2-color indication solid state auto switch



Clamp cylinder with lock

CLK - X2095

The auto switch mounting position is available from 3 directions.

CG1 MB CA2

CQ2 COS Lube-

CJ2

CM₂

JA MXH

MXO

MGP

CK□1

C(L)K□ C(L)KU

CKO CKZ2N

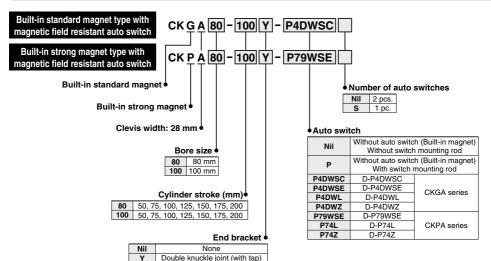
WRF

variations								
Model	Туре		Series	Bore size	Stroke (mm)	Clevis width	End bracket	Option
Clamp cylinder	Built-in standard magnet type	D-P3DW D-P4DW	CKG	25, 32, 40	25, 32, 40 50, 75, 100 125, 150	A : 9 mm B : 12.5 mm	Double knuckle joint	Speed controllers with One-touch fittings (Both sides)
	Built-in strong magnet type	D-P7	CKP					
Clamp cylinder with lock	Built-in standard magnet type	D-P3DW D-P4DW	CLKG	32, 40				
	Built-in etrong magnet type	D-P7	CLKD					

For details about this product, refer to the WEB catalog.

Setting part no. for the model with speed controller. Reduction in selecting and ordering labor.

2 CKGA80, 100/CKPA80, 100/With Magnetic Field Resistant Auto Switch (Rod Mounting Style)



Note) A knuckle pin, cotter pins and flat washers are provided as a standard for Y.

Specifications

Clevis width 28 mm		CKGA/CKPA series	
E			
Fluid		Air	
Proof pressure		1.5 MPa	
Maximum operating pressure		1.0 MPa	
Minimum opera	ting pressure	0.05 MPa	
Ambient and fluid temperature		−10°C to 60°C	
Piston speed		50 to 500 mm/s	
Cushion		With air cushion on both ends	
Speed controller		Equipped on both ends	
Lubrication		Non-lube	
Stroke length tolerance		+1.0 0	
Mounting Note)		Double clevis	

Note) A clevis pin, cotter pins and flat washers are provided as a standard.

Auto Switch Mounting Bracket Assembly/Part No.

Applicable auto switch model	Auto switch mounting bracket part no.		
Applicable auto switch model	80	100	
D-P4DWSC	BAP2-063		
D-P4DWSE			
D-P4DWL			
D-P4DWZ			
D-P79WSE			
D-P74L	BAP1-063		
D-P74Z			

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

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

Symbol for the auto switch type is "Nil" as shown below. CKGA: (Example) CKGA80-50Y

CKPA: (Example) CKPA80-50Y

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

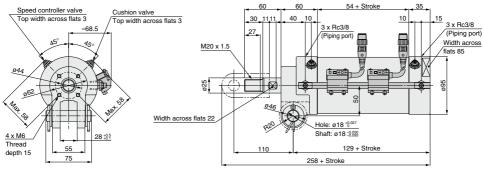
Symbol for the auto switch type is "P" as shown below.

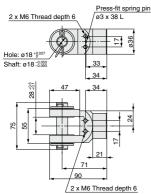
CKGA: (Example) CKGA80-50Y-P

CKPA: (Example) CKPA80-50Y-P

Dimensions

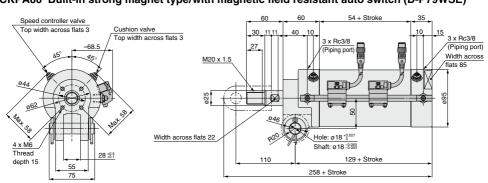
CKGA80 Built-in standard magnet type/with magnetic field resistant auto switch (D-P4DWS ...)





Double knuckle joint

CKPA80 Built-in strong magnet type/with magnetic field resistant auto switch (D-P79WSE)



Air Cylin

CJ2 CM2

CG1 MB

CA2

CQ2 CQS Luberetainer

JA MXH

MXO

MGP C Y

CK□1

C(L)KU

CKQ

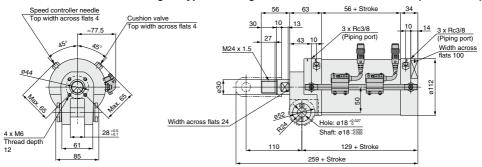
CKZ2N

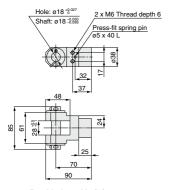
WRF

2 CKGA80, 100/CKPA80, 100/With Magnetic Field Resistant Auto Switch (Rod Mounting Style)

Dimensions

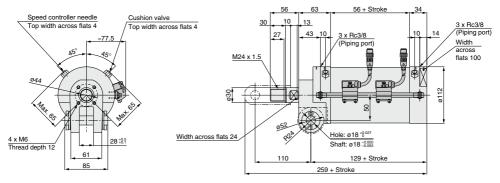
CKGA100 Built-in standard magnet type/with magnetic field resistant auto switch (D-P4DWSI)





Double knuckle joint

CKPA100 Built-in strong magnet type/with magnetic field resistant auto switch (D-P79WSE)

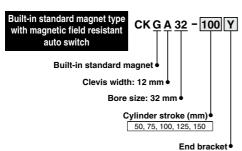


^{*} Please contact SMC for details of the CKGA\(\subseteq\)/CKPA\(\subseteq\) series.



3 CKGA32/With Magnetic Field Resistant Auto Switch D-P4DW□□ (Band Mounting Style)

Band mounting of the magnetic field resistant auto switch (D-P4DW =) to the built-in standard magnet clamp cylinder (CKGA32 series) is possible by ordering the auto switch mounting bracket and the auto switch separately.



Nil	None
- 1	Single knuckle joint (without tap)
Υ	Double knuckle joint (without tap)

Note) A knuckle pin, cotter pins and flat washers are provided as a standard for Y.

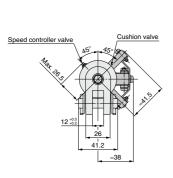
Specifications

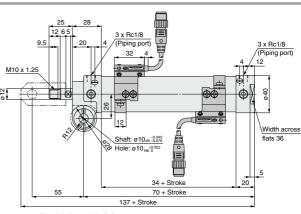
Clevis width	12 mm	CKGA32 series	
Fluid		Air	
Proof pressure		1.5 MPa	
Maximum operating pressure		1.0 MPa	
Minimum operating pressure		0.05 MPa	
Ambient and fluid temperature		−10°C to 60°C	
Piston speed		50 to 500 mm/s	
Cushion		With air cushion on both ends	
Lubrication		Non-lube	
Stroke length tolerance		+1.0	
Mounting Note)		Double clevis	

Note) A clevis pin, cotter pins and flat washers are provided as a standard.

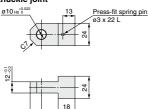
- [Applicable auto switch model	Auto switch mounting bracket part no.
	D-P4DWSC	
	D-P4DWSE	BA8-032
	D-P4DWL	BA0-032
ı	D-P4DW7	

Dimensions





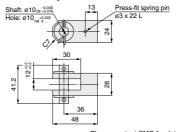
Single knuckle joint



36

48

Double knuckle joint



* Please contact SMC for details of the CKGA32 series.

INDEX

CJ2

CM₂

CG₁

MB

CA₂

CQ2 COS

Lube-

JA MXH

MXO

MGP

C□Y C□X

C(L)K□ C(L)KU

CKO

CKZ2N

WRF

retaine

. . . .