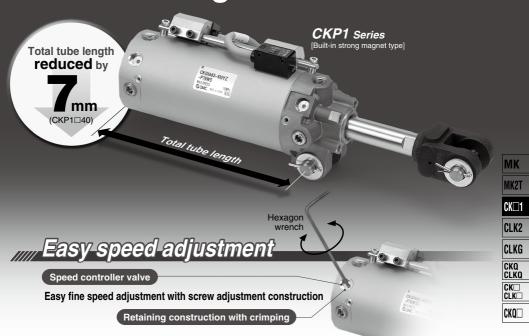
Clamp Cylinder CKD1 Series

Ø40, Ø50, Ø63

Total tube length reduced





Clevis width

12.5 mm 16.5 mm/19.5 mm Possible to select depending on the application Double knuckle joint

Clevis is mounted.

Magnetic field resistant auto switches

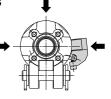
Mountable in 3 directions

[CKG1 series/Built-in standard magnet type] D-P3DWA, D-P4DW



[CKP1 series/Built-in strong magnet type] D-P79WSE, D-P74L/Z





D-□ -X□

SMC \$

Total tube length reduced The total length has been reduced by modifying

the internal design.

CKP1 series			(mm)		
Bore size (mm)	CKP1	Shortened dimensions	Current model		
40	58	7	65		
50	56	2	58		
63	56	2	58		
CKG1 series (mm)					
Bore size (mm)	CKG1	Shortened dimensions	Current model		
40	53	2	55		
50	56	2	58		
60	EC	2	50		

Mounting dimensions are the same as the current product.

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

With air cushion

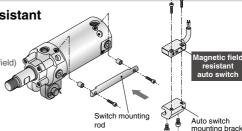
Unclamped side (Head end)...Standard Air cushion on both ends......Made to Order (-X1515)

Piping ports are located on three surfaces.

Possible to mount magnetic field resistant auto switch in 3 directions

[CKG1 series/Built-in standard magnet type] D-P3DWASC, D-P3DWASE, D-P3DWA/L/Z (AC magnetic field) D-P4DWSC. D-P4DWSE. D-P4DWL/Z (AC magnetic field)

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



Interchangeable

Auto switch mounting bracket

CK1 Series Variations

Series		Bore size (mm)			Stroke	Clevis width	Page		
		25	32	40	50	63	(mm)	(mm)	3-
Built-in standard nagnet type	CKG1			•	•	•	50 75		B 404
Built-in strong nagnet type	СКР1			•	٠	٠	100	12.5	P.421
Without magnet	CK1			٠	٠	٠	125 150	19.5	P.426
Built-in standard nagnet type	CKG1			•	٠	•	200* *Except ø40		P.426
Built-in standard nagnet type	CKG□-X2095	•	•	•	-	_	50		
Built-in strong nagnet type	CKP□-X2095	٠	•	•	_	_	75	0.105	P.473
Built-in standard nagnet type	CLKG□-X2095	•	•	•	_	_	100	9, 12.5	P.473
Built-in strong nagnet type	CLKPD-X2095	٠	•	•	-	_	150		
Built-in standard nagnet type	CLK2G		•1	•	•	•	50, 75	12.5	D. 445
Built-in strong nagnet type	CLK2P		-	•	•	•	100, 125 150	16.5 19.5	P.445
	will-in standard hagnet type built-in strong hagnet type vithout magnet will-in standard hagnet type built-in standard hagnet type	will-in standard hagnet type CKG1 kuil-in strong huilt-in strong CKP1 Vithout magnet wilt-in standard hagnet type CKG1 kuilt-in standard hagnet type CKG0-X2095 kuilt-in standard hagnet type CKP0-X2095 kuilt-in standard hagnet type CLKG0-X2095 kuilt-in standard hagnet type CLKG0-X2095 kuilt-in standard hagnet type CLKG0-X2095 kuilt-in standard hagnet type CLK2005 kuilt-in standard hagnet type CLK2005 kuilt-in standard hagnet type CLK2005	25 will-in standard hagnet type Without magnet Will-in standard CKG1 Will-in standard CKG1 Will-in standard CKG1-X2095 Will-in standard CKG-X2095 Will-in standard CKG-X2095 Will-in standard CKG-X2095 Will-in standard CLKG-X2095 Will-in standard CLKG-X2095 Will-in standard CLKP-X2095 Will-in standard CLKP-X2095	viilt-in standard nagnet type CKG1 kuilt-in strong nagnet type CKP1 viilt-in strong nagnet type CKG1 viilt-in standard nagnet type CKG1 uult-in standard nagnet type CKG1 uult-in standard nagnet type CKG1 uult-in standard nagnet type CKG2-x2095 uult-in standard nagnet type CLKG2-x2095 uult-in strong nagnet type CLKP2-x2095 uult-in standard nagnet type CLK2G2 uult-in standard nagnet type CLK2G2 uult-in standard nagnet type CLK2G2	25 32 40 wilt-in standard hagnet type CKG1 wilt-in strong hagnet type CKP1 Vithout magnet hagnet type CKG1 wilt-in standard hagnet type CKG1 wilt-in standard hagnet type CKG1-X2095 wilt-in strong hagnet type CKPX2095 wilt-in strong hagnet type CLKGC-X2095 wilt-in strong hagnet type CLKPC-X2095 wilt-in strong hagnet type CLKPC-X2095 wilt-in strong hagnet type CLK2G wilt-in standard hagnet type CLK2G	25 32 40 50 vult-in standard nagnet type CKG1 0 0 vult-in strong nagnet type CKP1 0 0 vilt-in standard nagnet type CKG1 0 0 vult-in standard nagnet type CKG1 0 0 vult-in standard nagnet type CKG1 0 0 vult-in standard nagnet type CKP0-X2095 0 0 vult-in strong nagnet type CLKG0-X2095 0 0 vult-in strong nagnet type CLKP0-X2095 0 0 vult-in strong nagnet type CLK2G0 0 0 vult-in standard nagnet type CLK2G0 0 0 vult-in strong nagnet type CLK2G0 0 0	25 32 40 50 63 huilt-in standard hagnet type CKG1 0 0 0 huilt-in strong hagnet type CKP1 0 0 0 Vithout magnet hagnet type CKG1 0 0 0 huilt-in standard hagnet type CKG1 0 0 0 huilt-in standard hagnet type CKG0-X2095 0 0 0 huilt-in standard hagnet type CLKG0-X2095 0 0 0 huilt-in standard hagnet type CLKP0-X2095 0 0 0 huilt-in standard hagnet type CLKQ0 0 0 0 huilt-in standard hagnet type CLK2G0 0 0 0 huilt-in standard hagnet type CLK200 0 0 0	25 32 40 50 63 (mm) vult-in standard hagnet type CKG1 50 75 100 125 vult-in strong hagnet type CKP1 0 0 125 100 125 vilt-in strong hagnet type CKG1 0 0 125 150 200° vult-in standard hagnet type CKG1 0 0 0 125 50 vult-in strong hagnet type CKPIX2095 50 75 100 125 vult-in strong hagnet type CLKGI-X2095 150 125 150 125 vult-in strong hagnet type CLKPIX2095 50 75 100 125 vult-in standard hagnet type CLK2GI 150 50, 75 100, 125 150 vult-in standard hagnet type CLK2GI 12 50, 75 100, 125 100, 125 vult-in strong CLK2GI 12 50, 75 100, 125 150 150	25 32 40 50 63 (mm) (mm) vullt-in strong nagnet type CKG1 50 50 75 100 12.5 16.5 vullt-in strong nagnet type CKG1 125 16.5 150 12.5 16.5 vullt-in standard nagnet type CKG1 125 16.5 19.5 19.5 vullt-in standard nagnet type CKG1 50 75 100 12.5 vullt-in strong nagnet type CKPI-X2095 50 75 100 12.5 vullt-in strong nagnet type CLKPI-X2095 150 12.5 150 9, 12.5 vullt-in strong nagnet type CLKPI-X2095 150 12.5 150 9, 12.5 vullt-in strong nagnet type CLK2GI 11 50, 75 12.5 16.5 vullt-in strong nagnet type CLK2GI 11 50, 75 12.5 18.5 vullt-in strong nagnet type CLK2GI 19,5 19,5 19,5 19,5

Clamp Cylinder with Magnetic Field Resistant Auto Switch (Rod Mounting Type) CKG1/CKP1 Series Ø40, Ø50, Ø63

How to Order CKG1A 50 Z-P3DWASC Built-in standard magnet 00 CKP1 A 50 100 P79WSE Built-in strong magnet Clevis width • Number of auto switches A 16.5 mm Nil 2 pcs. в 19.5 mm S 1 pc. Thread type C 12.5 mm "n" pcs. n Nil Rc1/4 TΝ NPT1/4 Bore size Made to Order TE G1/4 MK 40 40 mm Refer to page 422 for details. 50 50 mm Cylinder stroke (mm) Auto switch 63 63 mm MK2T 40 50, 75, 100, 125, 150 Without auto switch (built-in magnet) Nil 50, 75, 100, 125, 150, 200 Without switch mounting rod 50 CK $\square1$ **63** 50, 75, 100, 125, 150, 200 Without auto switch (built-in magnet) Р With switch mounting rod Built-in Standard (Strong) CLK2 Select applicable auto switch models from Magnet Cylinder Part No. End bracket the table below. Nil None 1) Built-in standard (strong) magnet without auto CLKG Single knuckle joint switch, without switch mounting rod Т (M6 without tap) Option Symbol for the auto switch type is "Nil" as shown CKQ Single knuckle joint Nil None CLKQ below. IA (M6 with tap) в Limit switch mounting base Note 1) CKG1: (Example) CKG1A50-50YZ CK Double knuckle joint D Dog fitting Note 1) CKP1: (Example) CKP1A50-50YZ Y CLK (M6 without tap) L Foot 2) Built-in standard (strong) magnet without auto Double knuckle joint K Note 2) Pedestal (for 75, 100, 150 strokes only) CKQ YA switch, with switch mounting rod (M6 with tap) Note 1) Only IA or YA (M6 with tap) is Note) A knuckle pin, cotter pins and selectable as the end bracket for the B. Symbol for the auto switch type is "P" as shown D. and BD types. flat washers are provided as below. CKG1: (Example) CKG1A50-50YZ-P a standard for Y and YA. Note 2) Only available for clevis width A (16.5 mm) CKP1: (Example) CKP1A50-50YZ-P * The auto switch mounting bracket is not included.

Applicable Magnetic Field Resistant Auto Switches (Refer to pages 941 to 1067 for detailed auto switch specifications.)

Applicable	Туре	Auto switch	Applicable	Electrical entry	Indicator light	Wiring	Load	Lead wire	
cylinder series		model	magnetic field	,	•	(Pin no. in use)	voltage	length	load
	D-P3DWASC		Pre-wired connector		2-wire (3-4)		0.3 m		
		D-P3DWASE		Fie-wired connector	2-color indicator	2-wire (1-4)		0.5 11	
		D-P3DWA						0.5 m	
CKG1 Solid state auto switch		D-P3DWAL	AC magnetic field (Single-phase AC welding	Grommet		2-wire	24 VDC	3 m	
		D-P3DWAZ						5 m	
	auto switch	D-P4DWSC	magnetic field)	Pre-wired connector		2-wire (3-4)		0.3 m	Relay,
		D-P4DWSE				2-wire (1-4)			PLC
	D-P4DV	D-P4DWL		Grommet		2-wire		3 m	1
		D-P4DWZ		Gronmet		2-wire		5 m	
	Baad	D-P79WSE	00/40	Pre-wired connector	2-color indicator	2-wire (1-4)	24 VDC	0.3 m	
CKP1	Reed auto switch	D-P74L	DC/AC magnetic field	Grommot	1-color indicator	cator 2-wire	24 VDC	3 m	
	auto switch	D-P74Z	magnetie field	Grommet			100 VAC	5 m	

₿SMC

Note 1) Refer to page 433 when ordering the auto switch mounting bracket or switch mounting rod assembly.

Note 2) For the D-P3DWAD, the auto switch and auto switch mounting bracket are packed together, (but not assembled).

RoHS

D-

-X□

CK 1 Series



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 side (head end): With air cushion				
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, flat washe	ers are equipped a	s 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	Descripti	UII	CKG1A/CKP1A	CKG1B/CKP1B	CKG1C/CKP1C		
1	Cingle 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 washara are aguinand	M6 with tap	CKA-YA04	CKB-YA04	CKC-YA04		

* For details about dimensions, refer to pages 430 and 431.

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
	Additional weight per 25 mm of stroke	0.11	0.12	0.14
CKP1 cylinder	Basic weight	0.72	0.98	1.28
	Additional weight per 25 mm of stroke	0.11	0.12	0.14
Single knuckle joint			0.20	
Double knuckle join are equipped as a s		0.34		
Calculation Basic weight Output Output Output Calculation Basic weight Output Output Output Calculate Calculate Calculate Calculate Calculate Calculat				

 Double knuckle joint0.34 (Y) 0.92 + 0.12 x 100/25 + 0.34 = 1.74 kg

934

840

1250

1120

1560

1400

Unit: N

0.6

756

566

1180

990

1870

1680

Theoretical Output Operating pressure (MPa) Bore size Rod size Operating Piston area (mm) (mm) direction (mm²) 0.3 0.4 0.5 OUT 1260 378 504 630 40 20 IN 943 283 377 472 OUT 1960 588 784 980 50 20 IN 1650 495 660 825

3120

2800

OUT

IN

Refer to pages 432 to 434 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	Made to C
	(Refer to pa

Symbol	Specifications
-X1515	With air cushion on both ends

Made to Order

Click here for details

-XC88* Spatter resistant coil scraper, Lu retainer, Grease for welding parts: Stainless steel 304) Spatter resistant coil scraper, Lu	
Constitute registrant goil correspondent	
-XC89* Spatter resistant conscraper, Et retainer, Grease for welding parts: S45C)	
-XC91* Spatter resistant coil scraper, Gr for welding (Rod parts: S45C)	ease

* Not available for the CKP1 series.

)	
	Made to Order (Refer to page 435 for details.)
	(Refer to page 435 for details.)



63

Construction

15 Cushion seal

16 Cushion valve seal

17 Speed controller valve seal

Urethane

NBR

NBR

1

1

2

00	nstruction					_					
$CKG1 \square 40, 50, 63, Red mounting type$											
CKG1□40, 50, 63 Rod mounting type											
	(Z) (L)	0 28 25 26 27) (4 18 19 5) (Ų	21)	2 3 2	2 20 (14 30	ଷ୍ଧ୍	6 24 23 9	
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	/ /				$\langle \rangle$				X		
				///	16	ار مر ا	ກ '		X		
(0)	CKG1C	X X () X ()	1				II		~		
(Cle	vis width 12.5) 🗍		-(⊢⊢⊟⊢⊗−⊤	T&					ݛ« ╳᠉ ᢧ ᢪᠯ	
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	עוש וי				YAP	-					
•		11							4		
	nponent Parts										
No.	Description	Material	Q'ty	Note		No.	Description	Material	Q'ty	Note	
_1	Rod cover	Aluminum alloy	1	Chromated		18	Coil scraper	Phosphor bronze	1		
2	Tube cover	Aluminum alloy	1	Hard anodized		19	Rod seal	NBR	1		
3	Piston	Aluminum alloy	1	Chromated		20	Piston seal	NBR	1		
4	Piston rod	Carbon steel	1	Hard chrome plating		21	Tube gasket	NBR	1		
<u>5</u> 6	Bushing Cushion valve	Bearing alloy Steel wire	1	Black zinc chromated		22	Magnet Switch mounting rod	Carbon steel	1	Zinc chromated	
7	Speed controller valve	Steel wire	2	Nickel plating		23	Auto switch mounting bracket	Aluminum alloy	<u> </u>		
- 8	Clevis bushing	Oil-impregnated sintered alloy	2	- Honor plating		25	Magnetic field resistant auto switch		-		
9	Hexagon socket head plug	Carbon steel	4	Rc1/4		26	Hexagon socket head cap screw	Steel wire	2	M4 x 0.7 x 14 L	MK
10	Pin	Carbon steel	1			27	Hexagon socket	Steel wire	2 pcs.	M4 x 0.7 x 8 L	
11	Cotter pin	Low carbon steel wire rod	2			21	head cap screw	Steel wire	per switch	1V14 X U.7 X O L	MK2T
12	Flat washer	Rolled steel	2			28	Hexagon socket	Steel wire	2 pcs. per	M3 x 0.5 x 14 L	
13	Cushion seal retainer	Rolled steel	1	Zinc chromated			head cap screw		switch		CK⊡1
14	Wear ring	Resin	1			29	Switch mounting spacer	Aluminum alloy	2		
15	Cushion seal	Urethane	1			30	Cushion ring	Aluminum alloy	1	Anodized	CLK2
16	Cushion valve seal	NBR NBR	1			31	Spacer	Bearing alloy	2	CKG1C only	-
	17 Speed controller valve seal NBR 2									CLKG	
СК	P1⊡40, 50, 63	Rod mountii	ng ty	/pe							
	(7) (17)	29 26 25 27	0	4) (18) (19) (5)	(1)	21)	0 0 0	0 20 14 31	28 1	6 24 6 9	CKQ
	ΥΨ			र ७ ५ ५	Ϋ́.	Y	म मम	K 4 7 7	Ϋ́́Ϋ́	9999	CLKQ
		FFX/			$\langle \rangle$			/ / /			
						h			-1-1		
	СКР1С	30	1			[1 7	814	X		CKQ
(Cle	vis width 12.5) 🛛 🗖		í ch		- neta				-		
	\sim		Ľ.Υ		ש⊈	@		₩¥	<u>ار</u>	\mathcal{O}	
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	עוס וו				A						
	\bigcirc	Ì	Rer	lacement Pa	rts/S	eal	Kit Neter () Const line of				
		U		size (mm) Order				re the same as those of the es not come with a grease			
			2010			Set of	nos. Grease p	ack part number: GR-S-01			
				40 CK1A4	0-PS	above		le with all sizes)			
								with ø50 or larger bore size torque and cannot be disas			
Cor	nponent Parts							ssemble is required.			
No.	Description	Material	Q'ty	Note		No.	Description	Material	Q'ty	Note	
1	Rod cover	Aluminum alloy	1	Chromated		18	Coil scraper	Phosphor bronze	1		
2	Tube cover	Aluminum alloy	1	Hard anodized		19	Rod seal	NBR	1		
3	Piston	Aluminum alloy	1	Chromated		20	Piston seal	NBR	1		
4	Piston rod	Carbon steel	1	Hard chrome plating		21	Tube gasket	NBR	1		
5	Bushing	Bearing alloy	1			22	Magnet holder	Aluminum alloy	1		
6	Cushion valve	Steel wire	1	Black zinc chromated		23	Magnet		1		
7	Speed controller valve	Steel wire	2	Nickel plating		24	Switch mounting rod	Carbon steel	1	Zinc chromated	
8	Clevis bushing	Oil-impregnated sintered alloy	2			25	Auto switch mounting bracket	Aluminum alloy	-	<u> </u>	
9	Hexagon socket head plug	Carbon steel	4	Rc1/4		26	Magnetic field resistant auto switch		-	M4 × 0.7 × 14 1	
<u>10</u> 11	Pin Cotter pin	Carbon steel Low carbon steel wire rod	1			27	Hexagon socket head cap screw	Steel wire	2 2 pcs.	M4 x 0.7 x 14 L	
12	Flat washer	Rolled steel	2			28	Hexagon socket head cap screw	Steel wire	per switch	M4 x 0.7 x 8 L	
13	Cushion seal retainer	Rolled steel	1	Zinc chromated			Hexagon socket		2 pcs.		
14	Wear ring	Resin	1			29	head cap screw	Steel wire	per switch	M3 x 0.5 x 16 L	D-🗆
15	Cushion soal	Urothano	1			20	Switch mounting spacer	Aluminum allov	2		שישן

D-🗆 -X🗆

31 Cushion ring

32 Spacer

30 Switch mounting spacer

Aluminum alloy

Aluminum alloy

Bearing alloy

2

1

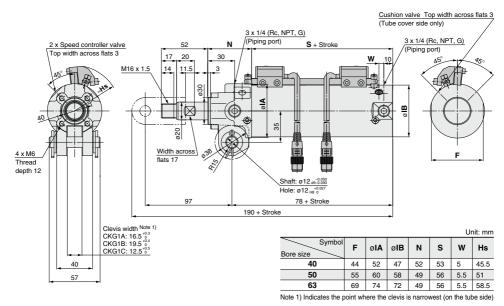
2

Anodized

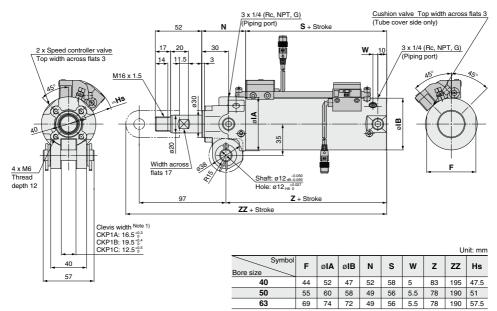
CKP1C only

Dimensions

CKG1□40, 50, 63 Rod mounting type



CKP1 40, 50, 63 Rod mounting type



SMC

Note 1) Indicates the point where the clevis is narrowest (on the tube side)

МК
MK2T
CK□1
CLK2
CLKG
CKQ CLKQ
CK CLK
CKQ□

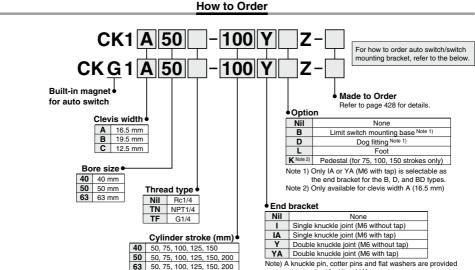




Clamp Cylinder with Magnetic Field Resistant Auto Switch (Band Mounting Type)

CK1/CKG1 Series





as a standard for Y and YA.

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

Band mounting of the magnetic field resistant auto switch $(D-P40W\Box)$ to the CKG1 \Box series is possible by ordering the switch mounting bracket and the auto switch individually.



Please order the switch mounting bracket, auto switch and 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

Example case ① Cylinder: CKG1A50-50YZ ······1
Example case (2) Magnetic field resistant auto switch:
D-P4DWSC

Example case ③ Switch mounting bracket: BA8-0502

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.

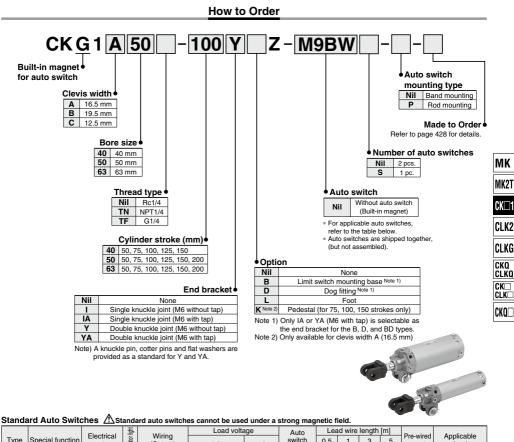
Applicable Magnetic Field Resistant Auto Switches	(Refer to pages 941 to 1067 for detailed auto switch specifications.)
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PP	<u>.</u>			1.3					
Applicable cylinder series	Туре	Auto switch model	Applicable magnetic field	Electrical entry	Indicator light	Wiring (Pin no. in use)	Load voltage	Lead wire length	Applicable load
		P4DWSC	AC magnetic field	Pre-wired		2-wire (3-4)	-	0.3 m	Relay,
CKG1	Solid state auto switch	P4DWSE	(Single-phase AC welding magnetic field)	connector	2-color indicator	2-wire (1-4)			
CKGI		P4DWL				2-wire		3 m	PLC
		P4DWZ		Grommet		2-wire		5 m	



Clamp Cylinder with Standard Auto Switch (Band Mounting/Rod Mounting Type)

CKG1 Series ø40, ø50, ø63



		Electrical	light	Minim a	Wiring		Load v		age	Auto	Lead wire length [m]			[m]	Pre-wired	Anni	abla				
Туре	Special function	entry	Indicator light	(Output)		DC	AC	switch model	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	connector	Appli Ioa							
<u> </u>				3-wire (NPN)		5 V. 12 V		M9N	•	٠	•	0	0	IC							
switch	-			3-wire (PNP)		5 V, 12 V		M9P	•	٠	•	0	0	circuit							
				2-wire		12 V		M9B	•	•	•	0	0	—							
auto	Diagnostic	ic				3-wire (NPN)		5 V. 12 V	, [M9NW	•	•	•	0	0	IC	Relay,				
		Grommet	Yes	3-wire (PNP)	24 V	/	— M9	M9PW	•	•	•	0	0	circuit	PLC						
state	(2-color indicator)	r indicator)			2-wire			1				12	12 V		M9BW	•	•	•	0	0	_ 120
	Water			3-wire (NPN)		5 V. 12 V		M9NA	0	0	•	0	0	IC							
Solid	resistant			3-wire (PNP)			5 V, 12 V	J V, 12 V	M9PA	0	0	•	0	0	circuit						
ۍ ا	(2-color indicator)			2-wire		12 V		M9BA	0	0	•	0	0	—							
305			Yes	3-wire (NPN equivalent)	—	5 V	-	A96	•	-	•	—	—	IC circuit	—						
Reed auto switch	_	Grommet	res	2-wire	24 V	12 V	100 V	A93	•	٠	•	•	_	_	Relay,						
н « «			No	2-WIE	24 V	5 V, 12 V	100 V or less	A90	•	_	•	—	-	IC circuit	PLC						

@SMC

* Solid state auto switches marked with "O" are produced upon receipt of order. * Auto switches and mounting brackets are shipped together, (but not assembled). * Lead wire length symbols: 0.5 m Nil (Example) M9NWV 1 m······M (Example) M9NWVM

D-3 m······L (Example) M9NWVL -X□ 5 m······Z (Example) M9NWVZ

427 ®

RoHS



CK 1 Series



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	Unclamped side (head end): With air cushion						
Speed controller	Ec	Equipped on both ends						
Lubrication		Non-lube						
Stroke length tolerance	+1.0 0							
Mounting Note)		Double clevis						

	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

Symbo	Descripti	<u></u>	Part no.					
Symbo	Descripti	UII	CK1A/CKG1A CK1B/CKG1B CK1C/C					
I	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			

* For details about dimensions, refer to pages 430 and 431.

Weight

					Unit: kg
	Bore size	40	50	63	
Quitadaa	Basic weigl	ht	0.68	0.90	1.10
Cylinder	Additional v	veight per 25 mm of stroke	0.10	0.11	0.13
Single knuckle je	oint	0.20			
Double knuckle jo are equipped as a	0.34				
Calculation Example) CKG1	□50-100YZ	Basic weight Additional weight		,	

- Cylinder stroke 100 mm
- Double knuckle joint ······0.34 (Y)
- 0.90 + 0.11 x 100/25 + 0.34 = 1.68 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		OUT	1260	378	504	630	756
40	20	IN	943	283	377	472	566
50	50 20	OUT	1960	588	784	980	1180
50		IN	1650	495	660	825	990
		OUT	3120	934	1250	1560	1870
63	20	IN	2800	840	1120	1400	1680

Refer to pages 432 to 434 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.

unde to	
Order	Made to Order
	(Refer to page 435 for details.)

Symbol	Specifications
-X1515	With air cushion on both ends

Made to Order

Click here for details

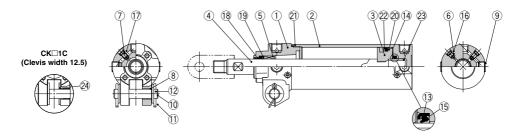
parts: Stainless steel 304) -XC89* Spatter resistant coil scraper, Lube- retainer, Grease for welding (Roc	Symbol	Specifications
-XC89* retainer, Grease for welding (Roc	-XC88*	retainer, Grease for welding (Rod
	-XC89*	Spatter resistant coil scraper, Lube- retainer, Grease for welding (Rod parts: S45C)
-XC91* Spatter resistant coil scraper, Grease for welding (Rod parts: S45C)	-XC91*	Grease for welding (Rod parts:

* Not available for the CK1 and CKG1 with the magnetic field resistant auto switch.



Construction

CK□1□40, 50, 63 Band mounting type



SMC

Component 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	
18	Coil scraper	Phosphor bronze	1	
19	Rod seal	NBR	1	
20	Piston seal	NBR	1	
21	Tube gasket	NBR	1	
22	Magnet	_	-	For the CKG1
23	Cushion ring	Aluminum alloy	1	Anodized
24	Spacer	Bearing alloy	2	CK□1C only

MK
MK2T
CK🗆1
CLK2
CLKG
CKQ Clkq
CK□ Clk□
CKQ

Replacement Parts/Seal Kit

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

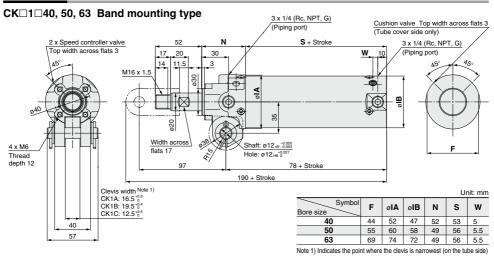
Note 1) Seal kit does not come with a grease pack, so please order it separately. Grease pack part number: GR-S-010 (compatible with all sizes)

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.



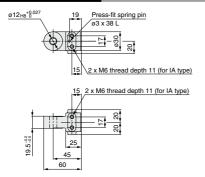
CK 1 Series

Dimensions



End Bracket

Single Knuckle Joint

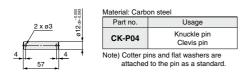


Material: Cast iron

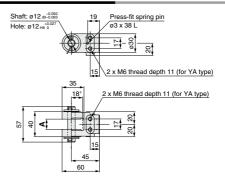
Part no.	End bracket symbol	Applicable clamp cylinder					
CKB-I04	I (M6 without tap)	CK□1A series					
CKB-IA04	IA (M6 with tap)	CK□1B series					

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

Pin



Double Knuckle Joint



Material: Cast iron

SMC

Material: Cast irc	n		Unit: mm
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	GRUTA selles
CKB-Y04	Y (M6 without tap)	19.5 ^{+0.4}	CK□1B series
CKB-YA04	YA (M6 with tap)	19.5 0	CKLI I D series
CKC-Y04	Y (M6 without tap)	12.5 ^{+0.3}	CK□1C series
CKC-YA04	YA (M6 with tap)	12.5 0	CKLITC series

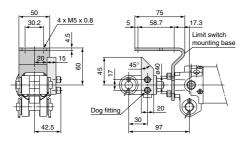
Note 1) A knuckle pin, cotter pins, flat washers and a spring pin are attached to the double knuckle joint as a standard.

Note 2) The current 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.



Limit Switch Mounting Base/Dog Fitting



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						

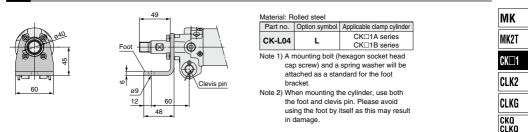
Note 1) Limit switch mounting base and dog fitting can be repositioned by removing the hexagon socket head cap screw.

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.

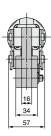
\triangle

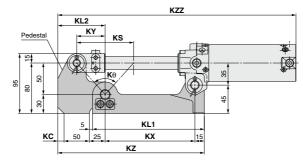
When you attach a dog fitting, be sure to use a knuckle joint, M6 with tap (end bracket symbol IA or YA). The dog fitting cannot be attached to the knuckle joint, M6 without tap (end bracket symbol I or Y).

Foot



Pedestal





Material: Rolled steel

Material: Hollec	1 Steel													Unit: mm
	Ontion										KZZ			Appliaghle
Part no.	Option symbol	KL1	KL2	KS	кх	кү	κz	Κθ	кс	CKG⊟40	СКР□40		CKG⊟63 CKP⊡63	Applicable clamp cylinder
CKA-K075		167	75	70	132	35	222	69° 59'	0	360	365	36	60	CK□1A40-75YZ CK□1A50-75YZ CK□1A63-75YZ
CKA-K100	к	177	75	90	142	45	232	83° 58'	0	395		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 CKD1A series (Clevis width 16.5 mm)



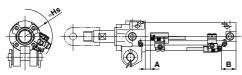
D-□ -X□

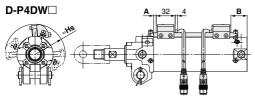
CKQ

CK□1 *series* Auto Switch Mounting (Rod Mounting Type)

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

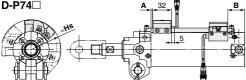
Rod mounting D-P3DWA





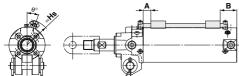
Note) The above drawing is the switch rod mounting example for the D-P4DWSD.

D-P79WSE D-P74



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

D-M9□/M9□W D-M9□A/A9□



Note) The above drawing is the mounting example for the D-M9 and D-A9 ...

Minimum Stroke for Auto Switch Mounting

			Unit: mm		
Auto switch model	With 1 pc.	With 2	2 pcs.		
Auto switch model	with tpc.	Different surfaces	Same surface		
D-P3DWA					
D-P4DW	50	50			
D-P79WSE] 50	50			
D-P74					

Note1) When two D-P3DWA are mounted to the cylinder with stroke 50 mm, mount them on different surfaces.

Note2) The standard strokes of CKG1 are 50, 75, 100, 125 and 150 mm. The values in the table above are not based on the minimum detection interval when setting the D-P3DWA auto switch, but on the standard minimum stroke of the cylinder.

Auto Switch Mounting Position and Its Height:

Rod Mounting	Туре			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-P3DWA	В	23.5	29	29
	Hs	46.5	52	59
	Α	6	3.5	3.5
D-P4DW□	В	21	26.5	26.5
	Hs	45.5	51	58.5
D-P79WSE	Α	3	0.5	0.5
D-P79W3E	В	18	23.5	23.5
D-F /4	Hs	47.5	51	57.5
D-M9	Α	13	10.5	10.5
D-M9⊟W	В	28	33.5	33.5
D-M9□A	Hs	39	44.5	51.5
	Α	9	6.5	6.5
D-A9	В	24	29.5	29.5
	Hs	39	44.5	51.5

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.

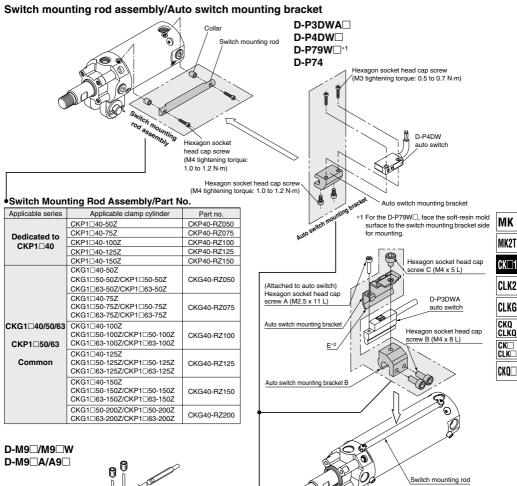
Note 2) The auto switch mounting position is temporarily set at the time of shipping from our factory. Change it to the desired position in accordance to your facility.

- Note 3) For 2-color indication, mount the switch in the middle of the green indication.
- Note 4) Adjust the auto switch after confirming the operating conditions in the actual setting.

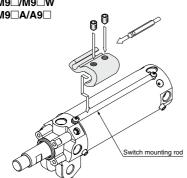
Operating Range

			Unit: mm
		Bore size	
Auto switch model	40	50	63
D-P3DWA	5.5	5.5	5.5
D-P4DW	4	4	4.5
D-P79WSE	8	9	9.5
D-P74			9.5
D-M9			
D-M9⊡W	4	4.5	5
D-M9⊡A			
D-A9	8	8	9

 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.



*2 Mount he part E of the auto switch mounting bracket so that it is in contact with the cylinder tube. Note 1) The tightening torque for a hexagon socket head cap screw (M2.5) is 0.2 to 0.3 N·m. Hold the shorter side of a hexagon wrench, and turn it to tighten. (Too much tightening may break the switch)

Note 2) Tighten the hexagon socket head cap screws B and C (M4) with a tightening torque of 1 to 1.2 N·m.

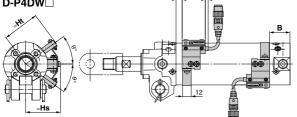
Auto Switch Mounting Bracket/Part No.

	0				
Applicable	Applicable	Part no.			
cylinder series	auto switch model	40	50	63	
CKG1 D-P4D D-M9D	D-P3DWA		BK7-040S		
	D-P4DW		BK1T-040		
	D-M9 D-A9		BA7-040		D- [
CKP1	D-P79WSE D-P74L/Z		BAP1T-040		-X

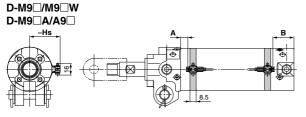
CK 1 *Series* Auto Switch Mounting (Band Mounting Type)

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

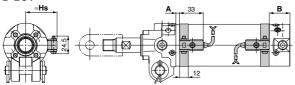
Band mounting style D-P4DW□



Note) The above drawing is the switch band mounting example for the D-P4DWSD.



D-B54



A Caution

As for the precautions on the auto switches, product specifications, refer to pages 437 to 439.

Operating Range

			Unit: mm
Auto switch model		Bore size	
Auto switch model	40	50	63
D-P4DW	5	5	5.5
D-M9□ D-M9□W		6.5	-
D-M9⊡A	5.5	6.5	1
D-A9	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.

Auto Switch Mounting Position and Its Height Unit: mm Symbol Auto switch set value and its height Auto switch model ø40 ø50 ø63 Δ 6 3.5 3.5 B 21 26.5 26.5 D-P4DW Hs 43 48 55 Ht 46 51.5 58.5 A 40 36° 33° D-M9 Α 13 10.5 10.5 D-M9 в 28 33.5 33.5 D-M9 Hs 35 40.5 47 5 Α 9 6.5 6.5 D-A9 В 24 29.5 29.5 Hs 40.5 35 47.5 Δ 3.5 1 1 D-B54 в 18.5 24 24 Hs 50.5 38 43.5

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 the D-M9□/M9□W/M9□A/A9□, A and B are the dimensions from the end of the head cover/rod cover to the end of the auto switch.

Note 4) As for the D-P4DW type, band mounting type, the auto switch mounting bracket and the auto switch have

to be ordered separately. For details, refer to page 426. Note 5) For 2-color indication, mount the switch in the middle

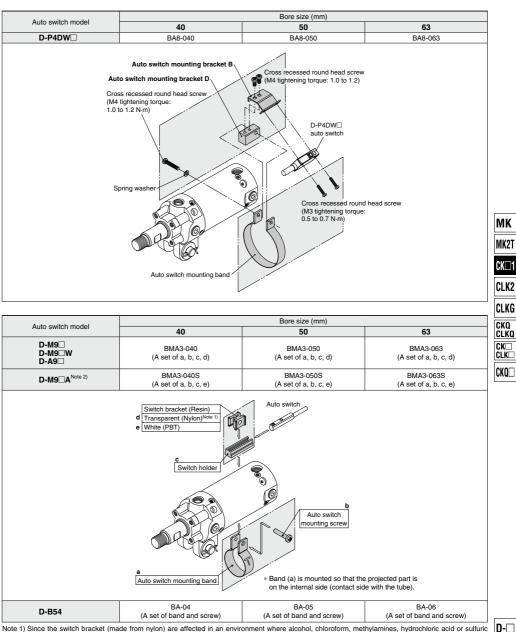
of the green indication.

Minimum Stroke for Auto Switch Mounting Unit: mn			
Auto switch model	With 1 pc.	With 2	2 pcs.
Auto switch model	with t pc.	Different surfaces	Same surface
D-P3DWA			
D-P4DW			
D-P79WSE			
D-P74	50	50	50
D-M9	50	50	50
D-M9⊡W			
D-M9⊟A			
D-A9			
D-B54	50	50	75

Note 1) When two D-P3DWA are mounted to the cylinder with stroke 50 mm, mount them on different surfaces.

Note 2) The standard strokes of CKG1 are 50, 75, 100, 125 and 150 mm. The values in the table above are not based on the minimum detection interval when setting the D-P3DWA auto switch, but on the standard minimum stroke of the cylinder.

Auto Switch Mounting Brackets/Part No.



acid is splashed over, so it cannot be used. Please contact SMC regarding other chemicals.

Note 2) As the indicator LED is projected from the switch unit, indicator LED may be damaged if the switch bracket is fixed on the indicator LED.

-X

⊘SMC

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

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

Made to Order

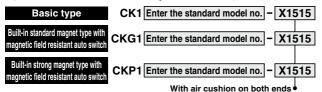
CK 1 Series

Symbol -X1515

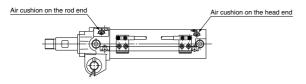
Clamp cylinder with air cushion on both ends (with cushion in the clamped/unclamped side)

A Caution

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	

MK
MK2T
CK🗆 1
CLK2
CLKG
CKQ Clkq
CK□ Clk□
CKQ





CK 1 Series Specific Product Precautions 1

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 3 to 12 for Actuator and Auto Switch Precautions.

Cushion/Speed Controller Adjustment

\land 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 (o40: 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.

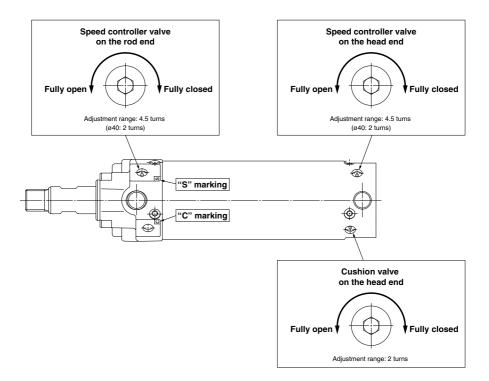
Cushion Adjustment

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.





CK 1 Series **Specific Product Precautions 2**

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 3 to 12 for Actuator and Auto Switch Precautions.

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.

A Warning

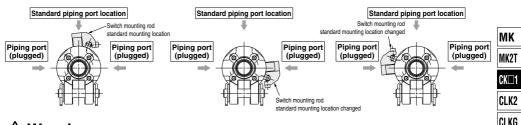
1. Do not leave out the component parts when the piping port location is changed.

Even if one of the component parts is kept away, malfunction may occur, resulting in dangerous operation.

2. 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.

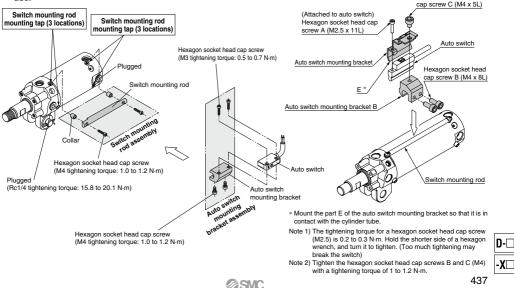


A Warning

1. 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)

2. After the switch mounting rod location is changed, confirm that there is no interference with other parts before Hexagon socket head use.



-X□

CKQ

CLKQ

CK

CLK

|CKQ 🗆



CK Series Specific Product Precautions 3

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 3 to 12 for Actuator and Auto Switch Precautions.

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

- 1. The minimum stroke for mounting magnetic field resistant auto switches is 50 mm.
- 2. 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 439, or move the welding cable away from the cylinder.
 - Cannot be used in an environment where welding cables surround the cylinder.
 - Please consult with SMC when a welding cable and welding gun electrodes (something energized with secondary current) are near multiple auto switches.
- 3. In an environment where spatter directly hits the lead wire, cover the lead wire with protective tubing.

Use protective tubing with inside diameter of ø8 or more that has excellent heat resistance and flexibility.

- 4. Be careful not to drop objects, make dents, or apply excessive impact force when handling.
- 5. 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.
- 6. 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 432 for mounting example and page 1034 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.

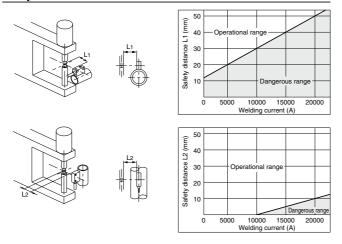


CK Gries Specific Product Precautions 4

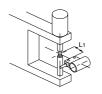
Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 3 to 12 for Actuator and Auto Switch Precautions.

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

Safety Distance from Side of Auto Switch



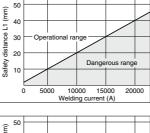
Safety Distance from Top of Auto Switch

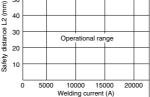












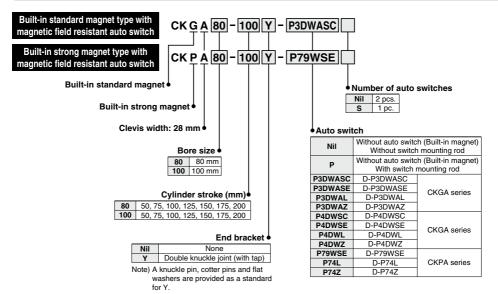
MK
MK2T
CK⊡1
CLK2
CLKG
CKQ Clkq
CK CLK
CKQ



CK 1 Series Related Products

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

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



Specifications

Clevis width	28 mm	CKGA/CKPA series	
Fluid		Air	
Proof pressure		1.5 MPa	
Maximum operating pressure		1.0 MPa	
Minimum opera	ating 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 controlle	ər	Equipped on both ends	
Lubrication		Non-lube	
Stroke length tolerance		+1.0	
Mounting Note)		Double clevis	
Nata) A slavia sin a stan sins and flat used are supported at a standard			

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

Auto Switch Mounting Bracket Assembly/Part No.

Applicable quite quiteb model	Auto switch mounting bracket part no.	
Applicable auto switch model	80	100
D-P3DWASC	BK7-080S	
D-P3DWASE		
D-P3DWAL		
D-P3DWAZ		
D-P4DWSC		
D-P4DWSE BK9-080		090
D-P4DWL	BR9-060	
D-P4DWZ		
D-P79WSE		
D-P74L	BK10-080	
D-P74Z		

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

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

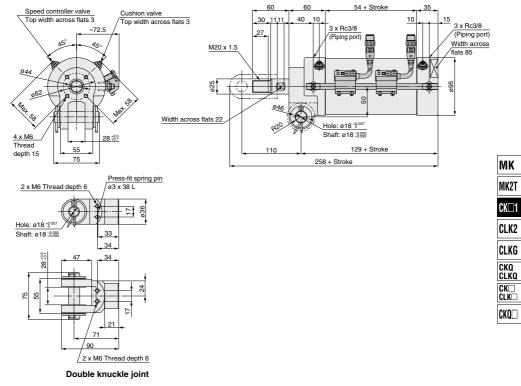
Symbol for the auto switch type is "Nil" as shown below. CKGA: (Example) CKGA80-50Y CKPA: (Example) CKPA80-50Y

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

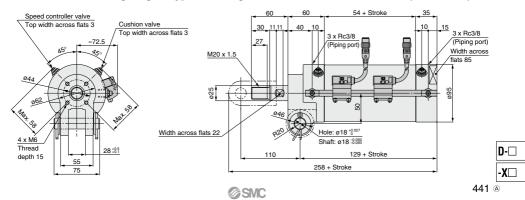
Symbol for the auto switch type is "P" as shown below. CKGA: (Example) CKGA80-50Y-P CKPA: (Example) CKPA80-50Y-P

Dimensions





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

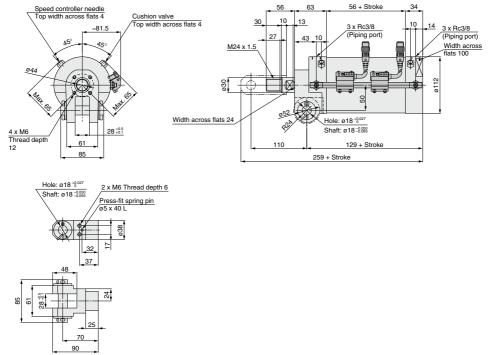


CK 1 Series

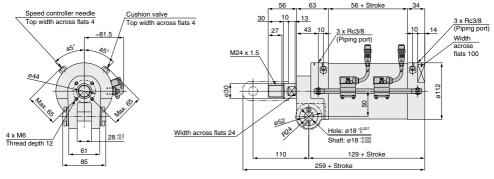
1 CKGA80, 100/CKPA80, 100/With Magnetic Field Resistant Auto Switch (Rod Mounting Type)

Dimensions

CKGA100 Built-in standard magnet type/with magnetic field resistant auto switch (D-P4DWSD)



Double knuckle joint



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

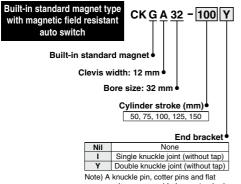
* Please contact SMC for details of the CKGA□/CKPA□ series.

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2 CKGA32/With Magnetic Field Resistant Auto Switch D-P4DW

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.



washers are provided as a standard for Y.

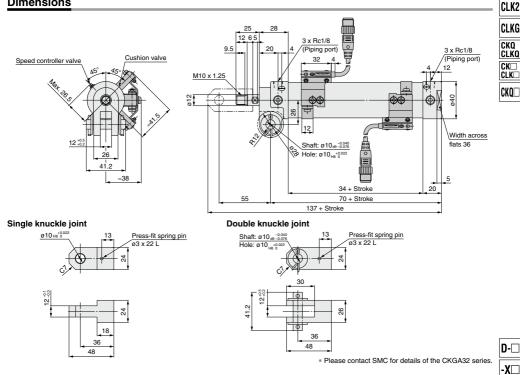
Specifications	
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Clevis width	12 mm	CKGA32 series	
Fluid		Air	
Proof pressure		1.5 MPa	
Maximum operating pressure		1.0 MPa	
Minimum operating pressure		0.05 MPa	
Ambient and fluid temperature		-10°C to 60°C	
Piston speed		50 to 500 mm/s	
Cushion		With 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	BA8-032
D-P4DWSE	
D-P4DWL	
D-P4DWZ	

Dimensions



SMC

МК

MK21

CK[1