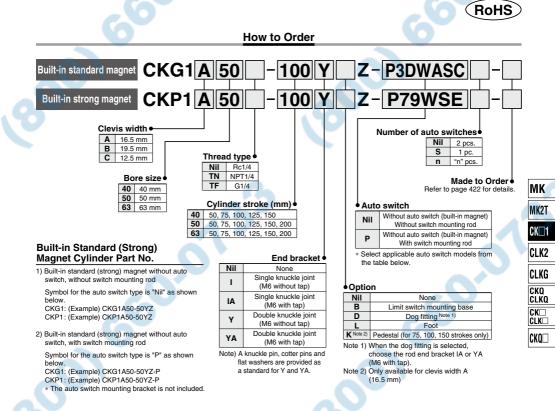
# Clamp Cylinder with Magnetic Field Resistant Auto Switch (Rod Mounting Type)

# CKG1/CKP1 Series



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

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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
		D-P3DWASC		Pre-wired connector	2-color indicator	2-wire (3-4)		0.3 m	
		D-P3DWASE		The wired connector		2-wire (1-4)	24 VDC		
		D-P3DWA				2-wire 2-wire (3-4)		0.5 m	
		D-P3DWAL	AC magnetic field (Single-phase AC welding magnetic field)	Grommet				3 m	Relay, PLC
CKG1	Solid state auto switch	D-P3DWAZ						5 m	
		D-P4DWSC		Pre-wired connector	]			0.3 m	
		D-P4DWSE				2-wire (1-4)			
		D-P4DWL		Grommet		2-wire		3 m	
		D-P4DWZ						5 m 🧹	
	Bred	D-P79WSE	DC/AC magnetic field	Pre-wired connector	2-color indicator	2-wire (1-4)	24 VDC	0.3 m	
	Reed auto switch	D-P74L		Grommet	1-color indicator	2-wire	24 VDC	3 m	
		D-P74Z					100 VAC	5 m	

Note 1) Refer to page 433 when ordering the auto switch mounting bracket or switch mounting rod assembly. Note 2) For the D-P3DWAI, the auto switch and auto switch mounting bracket are packed together, (but not assembled).

421

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# 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	d side (head end): Wi	th air cushion	
Speed controller		Equipped on both en	ds	
Lubrication		Non-lube		
Stroke length tolerance		+1.0 0		
Mounting Note)		Double clevis		

	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	
1	Single knuckle joint	M6 without tap	CKB-I04			
IA	Single knuckle john	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 (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	(A knuckle pin, cotter pins, flat washers tandard.)		0.34	
Calculation Example) CKG1□5	• Basic weight • Additional weight • Cylinder stroke	0.12/25	mm	

Double knuckle joint ······0.34 (Y)

0.92 + 0.12 x 100/25 + 0.34 = 1.74 kg

# Theoretical Output

∕⊘SMC

	0.0							Unit: N
Î	Bore size	Rod size	Operating direction (mm <sup>2</sup> )	Piston area	Operating pressure (MPa)			
	(mm) (mm)	(mm)		0.3	0.4	0.5	0.6	
	40 20	00	OUT	1260	378	504	630	756
		IN	943	283	377	472	566	
		20	OUT	1960	588	784	980	1180
	50		IN	1650	495	660	825	990
	63	20	OUT	3120	934	1250	1560	1870
			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.

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

Symbol	Specifications
-X1515	With air cushion on both ends

#### Made to Order

#### **Click here for details**

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

60.0

\* Not available for the CKP1 series.

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