

Cylinders with built-in magnets

100

100 mm

If built-in magnet type is ordered without auto switch, leave the field for the auto switch type blank. (Example) CDA2YB40-100

rt thread type

FOIL	meau	y
Nil	Rc	
TN	NPT	
TF	G	

Applicable auto switches

			tor	147.1		Load	voltage	Auto switch model	Lead v	vire (m)*										
Туре	Special function	Electrical entry	Indicator	Wiring (Output)	DC		AC	Tie-rod mounting	0.5 (Nil)	0.5 5 5		Pre-wired connector	Applicable load								
Reed switch		Grommet		3-wire (Equiv. NPN)	-	5 V	_	Z76	•	•	-	-	IC	-							
d s/		Cionnet	Yes			12 V	100 V	Z73		\bullet		-		Deley							
ee				2-wire	24 V	12 V	100 V, 200 V	A54		\bullet		_	-	Relay, PLC							
Ē	Diagnostic indication (2-color)	Grommet				-	-	A59W		\bullet	-	—									
	-		r -	3-wire (NPN)	24 V	5 V, 12 V		Y59A		\bullet	0	0	IC								
		Grommet		3-wire (PNP)	27 V	5 V, 12 V	_	Y7P		\bullet \bullet \circ		0									
		Cionine		2-wire	-	-	100 V, 200 V	J51			0	_									
5						12 V 5 V, 12 V		Y59B		\bullet	0	0	_								
Solid state switch	Distance stills in all sections			3-wire (NPN)				Y7NW		\bullet	0	0	IC								
te	Diagnostic indication		Yes	3-wire (PNP)				Y7PW		\bullet	0	0	10	Relay,							
sta	(2-color)			Quuina		10.1/		Y7BW		\bullet	0	0		PLC							
<u>lid</u>	Water resistant (2-color)	Grommet		2-wire	24 V	12 V	_	Y7BA	-	\bullet	0	0	_								
S	With diagnostic output (2-color)	Cionnet		4-wire		5 V, 12 V		F59F		\bullet	0	0	IC								
	Latch with diagnostic output (2-color)			(NPN)		_		F5LF	•	•	0	0	_								
	Magnetic field resistant (2-color)			2-wire				P5DW	_			0									
* Lead	wire length 0.5 m ····	Nil (E	xam	ple) A54		*	: Manufacture	ed upon receipt o	* Lead wire length 0.5 m ········ Nil (Example) A54 * (): Manufactured upon receipt of order.												

3 m ······· L (Example) A54L 5 m ······ Z (Example) A54Z factured upon receipt of order.

In addition to the models in the above table, there are some other auto switches that are applicable. For more information, refer to SMC catalog CAT.ES20-176.



Series CA2Y







JIS symbol



Replacement Parts: Seal Kits

Bore size (mm)	Kit No.	Contents							
40	CA2Y40-PS	Rod seal 1 pc.							
50	CA2Y50-PS	Piston seal 1 pc.							
63	CA2Y63-PS								
80	CA2Y80-PS	Cylinder tube gasket 2 pcs.							
100	CA2Y100-PS	Grease pack (10 g) 1 pc.							

When only grease for maintenance is necessary, please order by the following part numbers. Grease pack GR-L-005 (5 g) GR-L-010 (10 g) GR-L-150 (150 g)

Specifications

Action	Double acting
Operating piston speed	5 to 500 mm/s
Fluid	Air
Proof pressure	1.05 MPa
Maximum operating pressure	0.7 MPa
Ambient and	Without auto switch –10 to 70°C (with no freezing)
fluid temperature	With auto switch –10 to 60°C (with no freezing)
Cushion	None
Thread tolerance	JIS class 2
Lubrication	Not required (Non-lube)
Mounting	Basic, Axial foot, Front flange, Rear flange, Single clevis, Double clevis Center trunnion
Allowable leakage rate	0.5 ℓ /min (ANR)

Minimum Operating Pressure

					Unit: MPa				
Bore size (mm)	40	50	63	80	100				
Minimum operating pressure	0.02		0.01						

Standard Stroke Table

Bore size (mm)	Standard stroke (mm)								
40	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500								
50, 63	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600								
80, 100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700								
Note 1) Intermediate strokes not listed above are also available.									

Consult SMC for strokes outside the above ranges.

Note 2) As the stroke increases, more sliding resistance may result due to the deflection of the piston rod and other factors. Take measures such as the installation of a guide.

Accessory

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ľ	Mounting	Basic	Foot	Front flange	Rear flange	Single clevis	Double clevis	Center trunnion
Standard	Jam nut							
	Clevis pin	-	-	-	-	-		-
	Single knuckle joint		ightarrow					
Option	Double knuckle joint (with pin)	•	●	•	•	●	•	•







Smooth Cylinder Series CA2Y

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Mounting bracket dimensions are the same as those of the **standard, double acting, single rod type of Series CA2**. Please refer to SMC catalog CAT.ES20-176.

Dimensions/ø40 to ø100

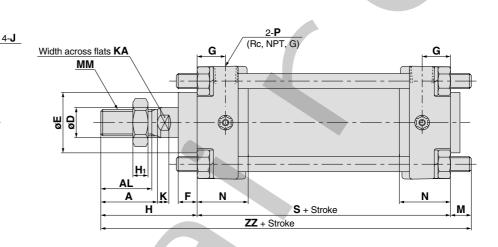
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B1

□B

Basic/CA2YB



																					(mm)
Bore size (mm)	Stroke range	A	AL	⊡в	B1	□c	D	Е	F	G	н	H1	J	к	KA	М	ММ	N	Ρ	S	zz
40	Up to 500	30	27	60	22	44	16	32	10	15	51	8	M8 x 1.25	6	14	11	M14 x 1.5	27	1/4	84	146
50	Up to 600	35	32	70	27	52	20	40	10	17	58	-11	M8 x 1.25	7	18	11	M18 x 1.5	30	3/8	90	159
63	Up to 600	35	32	85	27	64	20	40	10	17	58	11	M10 x 1.25	7	18	14	M18 x 1.5	31	3/8	98	170
80	Up to 700	40	37	102	32	78	25	52	14	21	71	13	M12 x 1.75	10	22	17	M22 x 1.5	37	1/2	116	204
100	Up to 700	40	37	116	41	92	30	52	14	21	72	16	M12 x 1.75	10	26	17	M26 x 1.5	40	1/2	126	215

