

ISO Standards Air Cylinder: Standard

Double Acting, Single Rod

C85 Series

ø8, ø10, ø12, ø16, ø20, ø25

RoHS

How to Order

Double acting, Single rod **C D 85 N 20 - 40 C J L V - B - M9BW S -**

Head cover type

N	Basic (Integrated clevis)
E	Double end boss-cut
F	Boss-cut/Basic
Y	Head cover axial port

Bore size

8	8 mm
10	10 mm
12	12 mm
16	16 mm
20	20 mm
25	25 mm

Applicable head cover

Action	N	E	F	Y
Rubber bumper	●	●	●	●
Air cushion	●*1	—	—	—

Cylinder stroke [mm]

Refer to the next page for standard strokes.

Built-in magnet

Nil	None
D	Built-in magnet

Cushion

Nil	Rubber bumper (Standard)
C	Air cushion

Rod boot (ø20, ø25 only)

Nil	Without rod boot
J	Nylon tarpaulin (One end)
K	Heat resistant tarpaulin (One end)

Accessory*1

Nil	None
V	Rod end
W	Double knuckle joint

*1 Refer to Mounting Brackets/Accessories on page 4 for details of accessories.
* Accessory is shipped together with the product.

Auto switch mounting type*1

A	Rail mounting
B	Band mounting

*1 The symbol is "Nil" for no magnet.

Number of auto switches

Nil	2
S	1
n	n

Auto switch

Nil	Without auto switch
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* For applicable auto switches, refer to the table below.
* Auto switches are shipped together with the product.

Mounting bracket*1

Nil	None
L	Single foot
M	Double foot
G	Flange
U	Trunnion
N	Clevis

*1 Refer to Mounting Brackets/Accessories on page 4 for details of mounting brackets.
* Mounting bracket is shipped together with the product.

Applicable mounting bracket

Action	Head cover type	L	M	G	U	N
Rubber bumper	N	●	●	●	●	●
	E	●	●	●	●	—
	F	●	—	●	●	—
	Y	●	—	●	●	—
Air cushion	N*1	●	●	●	●	●

*1 Except ø8

Made to order

For details, refer to page 3.

Applicable Auto Switches/Refer to the Web Catalog or Best Pneumatics No. 2-1 for further information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model				Lead wire length [m]					Pre-wired connector	Applicable load			
					DC	AC	Band mounting		Rail mounting		0.5 (Nil)	1 (M)	3 (L)	5 (Z)	None (N)					
							Perpendicular	In-line	Perpendicular	In-line										
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV	M9N	M9NV	M9N	●	●	●	○	—	○	IC circuit	Relay, PLC	
		3-wire (PNP)		M9PV				M9P	M9PV	M9P	●	●	●	○	—	○				
	Connector	2-wire		12 V				M9BV	M9B	M9BV	M9B	●	●	●	○	—	○	—		
	Diagnostic indication (2-color indicator)	Grommet		3-wire (NPN)				5 V, 12 V	M9NWV	M9NW	M9NWV	M9NW	●	●	●	○	—			○
				3-wire (PNP)				M9PWV	M9PW	M9PWV	M9PW	●	●	●	○	—	○			
				2-wire				12 V	M9BWV	M9BW	M9BWV	M9BW	○	●	●	○	—	○		—
				3-wire (NPN)				5 V, 12 V	M9NAV*1	M9NA*1	M9NAV*1	M9NA*1	○	○	●	○	—	○		
				3-wire (PNP)					M9PAV*1	M9PA*1	M9PAV*1	M9PA*1	○	○	●	○	—	○		
			2-wire	12 V	M9BAV*1	M9BA*1	M9BAV*1	M9BA*1	○	○	●	○	—	○	—					
	With diagnostic output (2-color indicator)	4-wire (NPN)	5 V, 12 V	—	H7NF	—	F79F	●	—	●	○	—	○	IC circuit						
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5 V	—	A96V	A96	A96V	A96	●	—	●	—	—	—	IC circuit	—	
								—	200 V	—	—	A72	A72H	●	—	●	—	—		—
	Diagnostic indication (2-color indicator)	Grommet	No	2-wire	24 V	12 V	100 V	A93V*2	A93	A93V*2	A93	●	●	●	●	—	—	—		
							100 V or less	A90V	A90	A90V	A90	●	—	●	—	—	—		—	IC circuit
							—	—	C73C	A73C	—	●	—	●	●	●	—	—	—	
							24 V or less	—	C80C	A80C	—	●	—	●	●	●	—	—		IC circuit
							—	—	—	A79W	—	●	—	●	—	—	—	—	—	
							—	—	—	—	—	●	—	●	—	—	—	—		

*1 Water resistant type auto switches can be mounted on the above models, but SMC cannot guarantee water resistance.

Please contact SMC regarding water resistant types with the above model numbers.

*2 1 m lead wire is only applicable to the D-A93.

* Lead wire length symbols: 0.5 m..... Nil (Example) M9NW 3 m..... L (Example) M9NWL None..... N (Example) H7CN
1 m..... M (Example) M9NWM 5 m..... Z (Example) M9NWX

* Since there are other applicable auto switches than listed above, refer to page 111 for details.

* Solid state auto switches marked with "○" are produced upon receipt of order.

* D-A9□/M9□/A7□/A80□/F7□/J7□ auto switches are shipped together, but not assembled. (For band mounting, only the auto switch mounting brackets are assembled before shipment.)

* When mounting a band on bore size ø8, ø10, or ø12, the D-A9□(V) cannot be mounted.

* When mounting a rail on bore size ø8, ø10, or ø12, the D-A9□(V) and A79W cannot be mounted.

* When mounting a rail on bore size ø20 or ø25, the D-M9□(V), M9□W(V), and M9□A(V) cannot be mounted.