

Air Cylinder: Standard Double Acting, Single Rod C75 Series

Ø 32, Ø 40

RoHS

How to Order

Double acting, Single rod **C D 75 E 32 - 100 C J L V - B - M9BW**

Built-in magnet

—	None
D	Built-in magnet

Head cover type

E	Double end boss-cut
F	Boss-cut/Basic
Y	Head cover axial port

Bore size

32	32 mm
40	40 mm

Cylinder stroke [mm]

Refer to the next page for standard strokes.

Cushion

—	Rubber bumper (Standard)
C	Air cushion

Rod boot

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

Auto switch mounting type*1

A	Rail mounting
B	Band mounting

*1 The symbol is "—" for no magnet.

Accessory*1

—	None
V	Rod end

*1 Refer to Mounting Brackets/Accessories on page 58 for details of accessories.
* Accessory is shipped together with the product.

Auto switch

—	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

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

*1 Refer to Mounting Brackets/Accessories on page 58 for details of mounting brackets.
* Mounting bracket is shipped together with the product.

Number of auto switches

—	2
S	1
n	n

Applicable mounting bracket

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

Made to order
For details, refer to page 57.

Applicable Auto Switches/Refer to the Auto Switch Guide for further information.

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 (—)	1 (M)	3 (L)	5 (Z)	None (N)				
							Perpendicular	In-line	Perpendicular	In-line									
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NV	M9N	F7NV	F79	●	●	●	○	—	○	IC circuit		
		3-wire (PNP)		M9PV			M9P	F7PV	F7P	●	●	●	○	—	○				
		Connector		2-wire			M9BV	M9B	F7BV	J79	●	●	●	○	—	○			
	Diagnostic indication (2-colour indicator)	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NWV	M9NW	F7NWV	F79W	●	●	●	○	—	○	IC circuit		
				3-wire (PNP)			M9PWV	M9PW	—	F7PW	●	●	●	○	—	○			
				2-wire			M9BWV	M9BW	F7BWV	J79W	●	●	●	○	—	○			
	Water resistant (2-colour indicator)	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NAV*1	M9NA*1	—	—	○	○	●	○	—	○	IC circuit		
				3-wire (PNP)			M9PAV*1	M9PA*1	—	—	○	○	●	○	—	○			
				2-wire			M9BAV*1	M9BA*1	F7BAV*1	F7BA*1	○	○	●	○	—	○			
	With diagnostic output (2-colour 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	—	A76H	●	—	●	—	—	—	IC circuit	Relay, PLC
								—	200 V	—	—	A72	A72H	●	—	●	—		
		Connector	No	2-wire	24 V	12 V	100 V or less	A93V*2	A93	A73*2	A73H*2	●	●	●	●	—	—		
							—	—	C73C	A73C	—	●	—	●	●	●	—	—	
	Diagnostic indication (2-colour indicator)	Grommet	Yes	24 V or less	—	—	C80C	A80C	—	—	●	—	●	●	●	—	—		
					—	—	—	A79W	—	—	●	—	●	—	—	—			
					—	—	—	—	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..... — (Example) M9NW 3 m..... L (Example) M9NWL None..... N (Example) H7CN
1 m..... M (Example) M9NWM 5 m..... Z (Example) M9NWZ

* 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.)

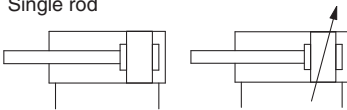
C75 Series



Symbol

Double acting,
Single rod

Air cushion



Refer to pages 101 to 111 for cylinders with auto switches.

- Auto Switch Proper Mounting Position (Detection at stroke end) and Mounting Height
- Minimum Stroke for Auto Switch Mounting
- Operating Range
- Auto Switch Mounting Brackets/Part No.



Made to Order
(For details, refer to pages 115 to 120.)

Symbol	Specifications
-XA	Change of rod end shape
-XB6	Heat resistant cylinder (-10 to 150 °C)*1
-XB7	Cold resistant cylinder (-40 to 70 °C)*1
-XB9	Low speed cylinder (10 to 50 mm/s)*1
-XC4	With heavy duty scraper*1
-XC6□	Made of stainless steel

*1 Rubber bumper only

Specifications

Bore size [mm]		32	40
Type		Pneumatic	
Action		Double acting, Single rod	
Fluid		Air	
Proof pressure		1.5 MPa	
Max. operating pressure		1.0 MPa	
Min. operating pressure	Rubber bumper	0.05 MPa	
	Air cushion	0.05 MPa	
Ambient and fluid temperature		Without auto switch: -20 °C to 80 °C (No freezing)	
		With auto switch: -10 °C to 60 °C (No freezing)	
Lubricant		Not required (Non-lube)	
Stroke length tolerance		$+1.4$ 0 mm	
Piston speed		50 to 1500 mm/s	
Cushion		Rubber bumper Air cushion	
Allowable kinetic energy	Rubber bumper	0.65 J	1.2 J
	Air cushion	1.07 J	2.35 J

Standard Strokes

Bore size [mm]	Standard stroke [mm]*1*3	Max. stroke*2 [mm]
32	10, 25, 40, 50, 80, 100, 125, 160, 200, 250, 300	1000
40		

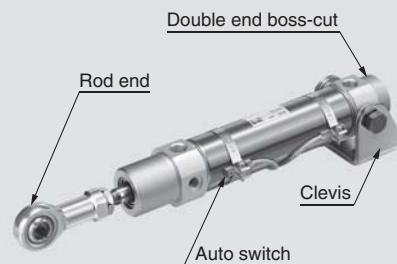
*1 Other strokes are available on request.

*2 For exceeding the standard stroke range, it will be available as a special order (-X2018).

*3 The minimum stroke with air cushion is 25 mm.

Option: Ordering Example of Cylinder Assembly

Cylinder model: CD75E40-50NV-B-M9BW



Head cover E: Double end boss-cut
Mounting bracket N: Clevis
Rod end bracket V: Rod end
Auto switch D-M9BW: Band mounting, 2 pcs.

* Mounting bracket, rod end, and auto switch are shipped together with the product.



Precautions

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For actuator and auto switch precautions, refer to the “Handling Precautions for SMC Products” and the “Operation Manual” on the SMC website: <http://www.smc.eu>