

Air Cylinder: Standard Double Acting, Single Rod C75 Series

ø32, ø40

RoHS

How to Order

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

Built-in magnet

Nil	None
D	Built-in magnet

Head cover type

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

Applicable head cover

Action	Head cover type
	E F Y
Rubber bumper	● ● ●
Air cushion	● — —

Bore size

32	32 mm
40	40 mm

Cylinder stroke [mm]
Refer to the next page for standard strokes.

Cushion

Nil	Rubber bumper (Standard)
C	Air cushion

Rod boot

Nil	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 "Nil" for no magnet.

Accessory*1

Nil	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

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 58 for details of mounting brackets.
* Mounting bracket is shipped together with the product.

Number of auto switches

Nil	2
S	1
n	n

Auto switch

Nil	Without auto switch
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Applicable mounting bracket

Action	Head cover type	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 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)	5 V, 12 V	—	M9NV	M9N	F7NV	F79	●	●	●	○	—	○	IC circuit		
		3-wire (PNP)		M9PV			M9P	F7PV	F7P	●	●	●	○	—	○				
	Connector	2-wire		12 V	M9BV		M9B	F7BV	J79	●	●	●	○	—	○	—			
	Diagnostic indication (2-color indicator)	Grommet		3-wire (NPN)	5 V, 12 V		M9NWV	M9NW	F7NWV	F79W	●	●	●	○	—		○	IC circuit	
				3-wire (PNP)			M9PWV	M9PW	—	F7PW	●	●	●	○	—	○			
				2-wire	12 V		M9BWV	M9BW	F7BWV	J79W	●	●	●	○	—	○	—		
				3-wire (NPN)	5 V, 12 V		M9NAV*1	M9NA*1	—	—	○	○	●	○	—	○		IC circuit	
				3-wire (PNP)			M9PAV*1	M9PA*1	—	—	○	○	●	○	—	○			
			2-wire	12 V	M9BAV*1	M9BA*1	F7BAV*1	F7BA*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	—	A76H	●	—	●	—	—	—	IC circuit	Relay, PLC
						—	200 V	—	—	A72	A72H	●	—	●	—	—	—	—	
			No	2-wire	24 V	12 V	100 V or less	A93V*2	A93	A73*2	A73H*2	●	●	●	●	—	—	—	
							—	—	C73C	A73C	—	●	—	●	●	●	—	—	
	Connector	No	24 V or less	—	—	C80C	A80C	—	●	—	●	●	●	—	—	—			
				—	—	—	—	A79W	—	●	—	●	—	—	—	—			
	Diagnostic indication (2-color indicator)	Grommet	Yes	—	—	—	—	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) 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.)

C85/C75 Series

Made to Order

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



1 Heat Resistant Cylinder (−10 to 150°C)

Symbol

-XB6

Air cylinder which changed the seal material and grease, so that it could be used even at higher temperature up to 150 from −10°C.

Applicable Series

Series	Description	Model	Action	Note
C85	Standard	C85	Double acting, Single rod	Rubber bumper ø10 to ø25 only
		C85W	Double acting, Double rod	Rubber bumper ø10 to ø25 only
	Direct mount	C85R	Double acting, Single rod	ø20, ø25 only
C75	Standard	C75	Double acting, Single rod	Rubber bumper only
		C75W	Double acting, Double rod	Rubber bumper only
	Direct mount	C75R	Double acting, Single rod	

- * Operate without lubrication from a pneumatic system lubricator.
- * Please contact SMC for details on the maintenance intervals for this cylinder, which differ from those of the standard cylinder.
- * In principle, it is impossible to make built-in magnet type and the one with auto switch. But, as for the one with auto switch, and the heat resistant cylinder with heat resistant auto switch, please contact SMC.
- * Piston speed is ranged from 50 to 500 mm/s.

How to Order

Standard model no.

– XB6

Heat resistant cylinder ●

Specifications

Ambient temperature range	−10°C to 150°C
Seal material	Fluororubber
Grease	Heat resistant grease
Auto switch	Not mountable*1
Dimensions	Same as standard
Specifications other than above	Same as standard

*1 Manufacturing built-in magnet type and the one with auto switch is impossible.

Warning Precautions

Be aware that smoking cigarettes etc. after your hands have come into contact with the grease used in this cylinder can create a gas that is hazardous to humans.

2 Cold Resistant Cylinder (−40 to 70°C)

Symbol

-XB7

Air cylinder which changed the seal material and grease, so that it could be used even at lower temperature down to −40°C.

Applicable Series

Series	Description	Model	Action	Note
C85	Standard	C85	Double acting, Single rod	Rubber bumper ø20 to ø25 only
		C85W	Double acting, Double rod	Rubber bumper ø20 to ø25 only
	Direct mount	C85R	Double acting, Single rod	ø20, ø25 only
C75	Standard	C75	Double acting, Single rod	Rubber bumper only
		C75W	Double acting, Double rod	Rubber bumper only
	Direct mount	C75R	Double acting, Single rod	

- * Operate without lubrication from a pneumatic system lubricator.
- * Use dry air which is suitable for heatless air dryer etc. not to cause the moisture to be frozen.
- * Please contact SMC for details on the maintenance intervals for this cylinder, which differ from those of the standard cylinder.
- * Manufacturing built-in magnet type and mounting an auto switch are impossible.
- * No cushion type is adopted. Piston speed is ranged from 50 to 500 mm/s.

How to Order

Standard model no.

– XB7

Cold resistant cylinder ●

Specifications

Ambient temperature range	−40°C to 70°C
Seal material	Low nitrile rubber
Grease	Cold resistant grease
Auto switch	Not mountable*1
Dimensions	Same as standard
Specifications other than above	Same as standard

*1 Manufacturing built-in magnet type and the one with auto switch is impossible.

Warning Precautions

Be aware that smoking cigarettes etc. after your hands have come into contact with the grease used in this cylinder can create a gas that is hazardous to humans.