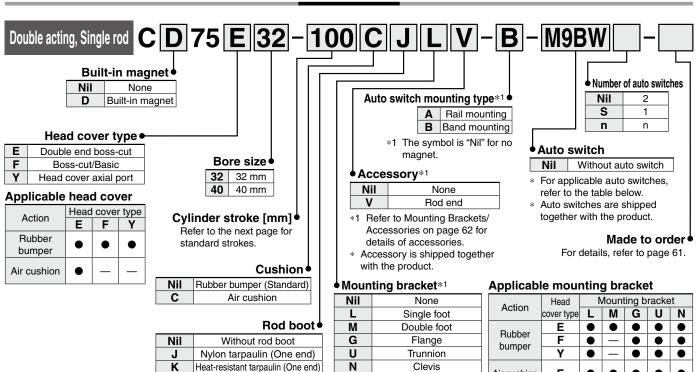
# Air Cylinder: Standard **Double Acting, Single Rod**

# C75 Series ø**32**, ø**40**



## **How to Order**



\*1 Refer to Mounting Brackets/ Accessories on page 62 for details of mounting brackets.

Mounting bracket is shipped together with the product.

Air cushion

pplicable Auto Switches/Defer to the

<u> </u>	plicable Auto	<i>-</i>		<b>C</b> 3/11010	1 10 11	IIC WED	Catalog of	Dest i fieui	natios for i	ditilor illion	nation on	auto s	WILCI	103.														
	Special function	Electrical entry	Indicator light	Wiring (Output)		Load voltage		Auto switch model			Lead wire length [m]				Pre-wired	Applicable												
Туре						DC	AC	Band mounting Rail mount		unting	0.5		3	5	None	connector	load											
								Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	(N)	CONTINUOTO	1080										
		Grommet	1 1	3-wire (NPN)	-	5 V, 12 V	12 V	M9NV	M9N	F7NV	F79	•	•		0	-	0	IC circuit										
ڃ				3-wire (PNP)				M9PV	M9P	F7PV	F7P	•	•		0	<u> </u>	0	IO CITCUIT										
switch				2 wire	2-wire	12 V 5 V, 12 V		M9BV	M9B	F7BV	J79	•	•		0	_	0	_										
		Connector		∠-wire				_	H7C	J79C	_	•	-		•	•	_											
anto	Diagnostic indication	Grommet	Yes	3-wire (NPN)				M9NWV	M9NW	F7NWV	F79W	•	•	•	0	_	0	IC airquit	D-1									
	Diagnostic indication (2-color indicator)			3-wire (PNP)	) 24 V 1			M9PWV	M9PW	_	F7PW	•	•	•	0	-	0	IC circuit	PLC									
state				2-wire		12 V		M9BWV	M9BW	F7BWV	J79W	•	•	•	0	_	0	_	] ' [ ]									
				3-wire (NPN)		5 V, 12 V		M9NAV*1	M9NA*1	_	_	0	0	•	0	-	0	IC circuit										
Solid				3-wire (PNP)		5 V, 12 V		M9PAV*1	M9PA*1	_	_	0	0	•	0	-	0	TIC CITCUIT	— Concuit									
Ñ				2-wire		12 V 5 V, 12 V		M9BAV*1	M9BA*1	F7BAV*1	F7BA*1	0	0	•	0	_	0	_										
	With diagnostic output (2-color indicator)			4-wire (NPN)				_	H7NF	_	F79F	•	-	•	0	-	0	IC circuit										
switch		Crammat							Vaa	V	.,	V	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	_	A76H	•	_	•	_	-	_	IC circuit	_
Š			net Yes No Yes	2-wire	1	_	200 V	_	_	A72	A72H	•	<b>—</b>	•	_	_	_											
0.5		Grommet					100 V	A93V*2	A93	A73*2	A73H*2	•	•	•	•	_	_	-										
auto						V 12 V	100 V or less	A90V	A90	A80	A80H	•	<u> </u>	•	_	_	_	IC circuit	Relay,									
ğ					24 V		_	_	C73C	A73C	_	•	<b> </b> —	•	•	•	_	_	PLĆ									
Reed		Connector	No				24 V or less	_	C80C	A80C	_	•	1—	•	•	•	_	IC circuit										
_	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 115 for details.
- Solid state auto switches marked with "O" are produced upon receipt of order.
- D-A9 \( M9 \( A7 \) A80 \( JF7 \) J7 \( auto switches are shipped together, but not assembled. (For band mounting, only the auto switch mounting brackets are assembled before shipment.)



C85-S/T C85K

C85W

C85K-S/T C85R

C75

C75W

C75K C75K-S/T

C75R CP96

**C96K** 



## **Symbol**

Double acting, Single rod





Refer to pages 105 to 115 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 119 to 124.)

Symbol	Specifications
-XA	Change of rod end shape
-XB6	Heat-resistant cylinder (-10 to 150°C)*1, *2
-XB7	Cold-resistant cylinder (-40 to 70°C)*1, *2
-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
- \*2 Excludes with rod end (Accessory)

# **Specifications**

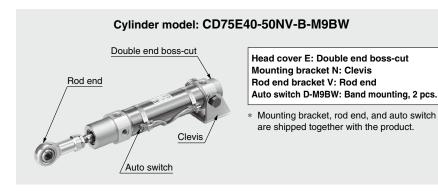
Bore	e size [mm]	32	40			
Туре		Pneumatic				
Action		Double acting, Single rod				
Fluid		Air				
Proof pres	sure	1.5 MPa				
Max. opera	ating pressure	1.0 MPa				
Min. operating	Rubber bumper	0.05 MPa				
pressure	Air cushion	0.05 MPa				
Ambient and fluid temperature		Without auto switch: -20°C to 80°C (No freezing)				
		With auto switch: -10°C to 60°C (No freezing)				
Lubricant		Not required (Non-lube)				
Stroke len	gth tolerance	*1.4 mm				
Piston spe	ed	50 to 1500 mm/s				
Cushion		Rubber bumper Air cushion				
Allowable	Rubber bumper	0.65 J	1.2 J			
kinetic energy	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	10, 25, 40, 50, 60, 100, 125, 160, 200, 250, 500	1000

- \*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



# **⚠ Precautions**

Be sure to read this before handling the products. Refer to page 219 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.smcworld.com