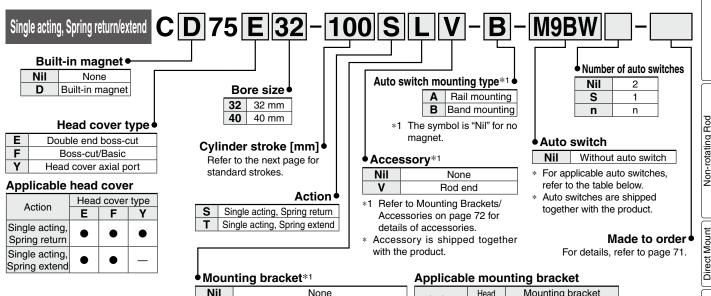
# Air Cylinder: Standard Single Acting, Spring Return/Extend

C75 Series ø**32**, ø**40** 



#### **How to Order**



· itioaii	iting bracket
Nil	None
L	Single foot
M	Double foot
G	Flange
U	Trunnion
N	Clevis

- \*1 Refer to Mounting Brackets/Accessories on page 72 for details of mounting brackets.
- Mounting bracket is shipped together with the product.

_	p p			9			
1	Action	Head	١	/lount	ing b	racke	et
	ACTION	cover type	G	U	N		
1	Cinala action	E	•	•	•	•	•
1	Single acting, Spring return	F	•	_	•	•	•
1	Spring return	Υ	•	_	•	•	•
	Single acting,	E	•		•	•	
_	Spring extend	F	•		•	•	•

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

_	中国																																													
		Electrical	∥ <u>.</u>	Wiring		Load v	oltage	Auto switch model				Lea	d wir	e ler	ngth	[m]	Pre-wired	Annli	cable																											
Type	Special function	entry	Indicator light	(Output)		DC	AC	Band m	ounting	Rail mounting		0.5	1	3		None	aannaatar		ad																											
		Citaly	혈	(Output)			٨٥	Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	(N)	COMMICCION	101	uu																											
				3-wire (NPN)		5 V, 12 V		M9NV	M9N	F7NV	F79	•			0	—	0	IC circuit																												
ڃ		Grommet		3-wire (PNP)		J V, 12 V		M9PV	M9P	F7PV	F7P	•			0	_	0	IO CITCUIT																												
switch				2-wire		12 V		M9BV	M9B	F7BV	J79	•		•	0	_	0																													
		Connector		Z-WITE		12 V		_	H7C	J79C	_	•	_		•		_																													
anto	Diagnostic indication			3-wire (NPN)		E V 10 V		M9NWV	M9NW	F7NWV	F79W	•		•	0	_	0	IC airquit	D-1																											
	Diagnostic indication	(2-color indicator)	Grommet	Yes	3-wire (PNP)	24 V	5 V, 12 V	_	M9PWV	M9PW	_	F7PW	•		•	0	-	0	IC circuit	PLC																										
state	(2-color indicator)			Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet		2-wire		12 V		M9BWV	M9BW	F7BWV	J79W	•		•	0	-	0		' [												
S	Matau va sista ut	istant																Grommet	Grommet	Grommet	Grommet	Grommet	Grommet		3-wire (NPN)		5 V, 12 V		M9NAV*1	M9NA*1	_	_	0	0	•	0		IC circuit								
Solid	Water resistant (2-color indicator)																								3-wire (PNP)		5 V, 12 V		M9PAV*1	M9PA*1	_	_	0	0	•	0	-	0	ilo circuit							
တိ	(2-color indicator)																					2-wire		12 V		M9BAV*1	M9BA*1	F7BAV*1	F7BA*1	0	0	•	0	_	0	_										
	With diagnostic output (2-color indicator)			4-wire (NPN)		5 V, 12 V		_	H7NF	_	F79F	•	<b> </b> —	•	0	<b> </b> —	0	IC circuit	] [																											
switch																														Vaa	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	_	A76H	•	-	•	_	_	_	IC circuit	_
Š		A	Yes		1	_	200 V	_	_	A72	A72H	•	_	•	_	_	_																													
		Grommet					100 V	A93V*2	A93	A73*2	A73H*2	•	•	•	•	_	_	1 —																												
anto			İ	İ	ļi,								No				100 V or less	A90V	A90	A80	A80H	•	<u> </u>	•	_	_	_	IC circuit	Relay,																	
			Yes	2-wire	2-wire 24 V	12 V	_	_	C73C	A73C	_	•	_	•	•	•	_	_	PLĆ																											
Reed		Connector	No	1								l						24 V or less	_	C80C	A80C	_	•	<b>—</b>	•	•	•	_	IC circuit	1																
_	Diagnostic indication (2-color indicator)	Grommet	Yes	1	İ	_	_	_	_	A79W	_	•	<b> </b> —	•	_	<b> </b>	_	_	1																											

- \*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.

- 5 m····· Z (Example) M9NWZ None···· N (Example) H7CN 3 m····· L (Example) M9NWL
- Since there are other applicable auto switches than listed above, refer to page 111 for details.
- Solid state auto switches marked with "O" 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.)

Acting, Single F

Double Acting, Single R.

Non-rotating Rod

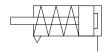
**Auto Switch** 

Made to Order

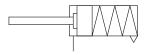


**Symbol** 

Single acting: Spring return, Rubber bumper



Single acting: Spring extend, Rubber bumper



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							
-XC6□	Made of stainless steel						

#### **Specifications**

Bore size [mm]	32	40						
Туре	Pneumatic							
Action	Single acting	g, Single rod						
Fluid	A	ir						
Proof pressure	1.5	MРа						
Max. operating pressure	1.0 l	MPa						
Min. operating pressure	Spring return: 0.18 MPa Spring extend: 0.23 MPa							
Ambient and fluid	Without auto switch: -20°C to 80°C (No freezing)							
temperature	With auto switch: -10	°C to 60°C (No freezing)						
Lubricant	Not required (Non-lube)							
Stroke length tolerance	<sup>+1.4</sup> mm							
Piston speed	50 to 750 mm/s							
Cushion	Cushion Rubber bumper							
Allowable kinetic energy	0.65 J	1.2 J						

#### **Standard Strokes**

Bore size [mm]	Standard stroke [mm]*2	Max. stroke [mm]
32	10, 25, 50, 100, 150, 200, 250* <sup>1</sup>	200
40	10, 25, 50, 100, 150, 200, 250	250

- \*1 Not available for ø32.
- \*2 Other strokes are available on request. (Made to order)

#### **Spring Retracting Force**

Sprir	Spring Return [N]															
_			Spring force													
Bore	Standard stroke	1	10		25		50		100		150		200		50	
[mm]	[mm]	Rod	Rod	Rod	Rod	Rod	Rod	Rod	Rod	Rod	Rod	Rod	Rod	Rod	Rod	
[]	[]	extended	retracted	extended	retracted	extended	retracted	extended	retracted	extended	retracted	extended	retracted	extended	retracted	
32	10, 25, 50, 100, 150, 200	53.9	48.8	53.9	41.2	53.9	28.4	66.7	19.6	66.7	18.1	66.7	19.6	_	_	
40	10, 25, 50, 100, 150, 200, 250	78.5	72.6	78.5	63.7	78.5	49.0	76.5	23.5	76.5	23.5	76.5	23.5	76.5	23.5	

**Spring Extend** [N] Spring force

size	stroke	1	0	2	5	5	0	10	00	15	50	20	00	25	50
[mm]		Rod	Rod												
[]	[]	retracted	extended	retracted	extended	retracted	extended	retracted	extended	retracted	extended	retracted	extended	retracted	extended
32	10, 25, 50, 100, 150, 200	66.7	56.3	66.7	40.7	66.7	14.7	66.7	19.6	66.7	18.1	66.7	19.6	-	-
40	10, 25, 50, 100, 150, 200, 250	76.5	65.9	76.5	50.0	76.5	23.5	76.5	23.5	76.5	23.5	76.5	23.5	76.5	23.5

### Option: Ordering Example of Cylinder Assembly

### **⚠ 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 I "Operation Manual" on the SMC website: I http://www.smcworld.com

## Cylinder model: CD75E40-50SNV-B-M9BW Double end boss-cut Rod end Clevis Auto switch

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.

