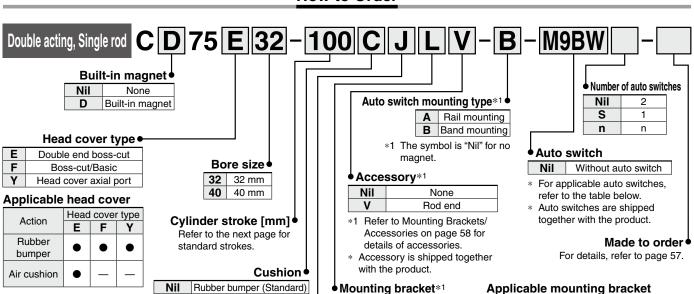
# Air Cylinder: Standard **Double Acting, Single Rod**

C75 Series ø**32,** ø**40** 



#### **How to Order**



#### Rod boot

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

Air cushion

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.

Applicabl	Applicable illouliting bracket												
Action	Head	Mounting bracket											
Action	cover type	L	M	G	U	Ν							
Dulahar	Е	•	•	•	•	•							
Rubber bumper	F	•	_	•	•	•							
builipei	Υ	•	_	•	•	•							
Air cushion	E	•	•	•	•	•							

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

Ė	•		ᇙ			Load vo				ch model		_		e ler					
Туре	Special function	Electrical entry	ndicator light	Wiring (Output)		DC AC		Band m		Rail mo	ounting	0.5	1	3	5	None			icable ad
		Onay	宣	(Output)			7.0	Perpendicular	In-line	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	(N)	COMMODICAL		uu
				3-wire (NPN)		5 V, 12 V		M9NV	M9N	F7NV	F79			•	0	—	0	IC circuit	.
ڃ		Grommet		3-wire (PNP)		3 V, 12 V		M9PV	M9P	F7PV	F7P	•	•	•	0	_	0	IC CIICUII	
switch				0		10.1/		M9BV	M9B	F7BV	J79	•	•	•	0	-	0		]
		Connector		2-wire		12 V		_	H7C	J79C	_	•	_	•	•	•	_	1 —	
auto	Diama and a familia attack		1	3-wire (NPN)	1	5 V 40 V		M9NWV	M9NW	F7NWV	F79W	•	•	•	0	_	0	10	1
	Diagnostic indication		Yes	3-wire (PNP)	24 V	5 V, 12 V		M9PWV	M9PW	_	F7PW	•	•	•	0	_	0	IC circuit	Relay,
state	(2-color indicator)			2-wire	1	12 V		M9BWV	M9BW	F7BWV	J79W	•		•	0	_	0	_	FLC
	M-4	Grommet		3-wire (NPN)		5 V 40 V		M9NAV*1	M9NA*1	_		0	0	•	0	_	0		1
Solid	Water resistant			3-wire (PNP)		5 V, 12 V		M9PAV*1	M9PA*1	_	_	0	0	•	0	_	0	IC circuit	
Š	(2-color indicator)			2-wire	1	12 V	1	M9BAV*1	M9BA*1	F7BAV*1	F7BA*1	0	0	•	0	<u> </u>	0	_	1
	With diagnostic output (2-color indicator)			4-wire (NPN)		5 V, 12 V		_	H7NF	_	F79F	•	_	•	0	_	0	IC circuit	1
ch	•		V	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	_	A76H	•	_	•	_	_	_	IC circuit	_
switch			Yes		1	_	200 V	_	_	A72	A72H	•	_	•	_	_	_		
		Grommet					100 V	A93V*2	A93	A73*2 A73H	A73H*2		•	•	•	_	_	1 —	
auto			No	١			100 V or less	A90V	A90	A80	A80H	•	_	•	_	_	_	IC circuit	Relay.
			Yes	2-wire	24 V	12 V	_	_	C73C	A73C	_	•	_	•	•	•	_	_	PLC
Reed		Connector			24 V		24 V or less			•	_	•	•	•	_	IC circuit	1		
	Diagnostic indication (2-color indicator)	Grommet	Yes			_	_	_	_	A79W	_	•	_	•	_		_	_	1

- \*1 Water resistant type auto switches can be mounted on the above models, but SMC cannot guarantee water resistance.
  \*2 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 ····· M (Example) M9NWM
- (Example) M9NWL 3 m..... L 5 m····· Z (Example) M9NWZ
- None ...... N (Example) H7CN
- 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 \( JF7 \) J7 \( auto switches are shipped together, but not assembled. (For band mounting, only the auto switch mounting brackets are assembled before shipment.)

Non-rotating Rod

Direct Mount

Non-rotating Rod

**Auto Switch** Made to Order

56

# C75 Series



## Symbol

Double acting, Air cushion Single rod

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**

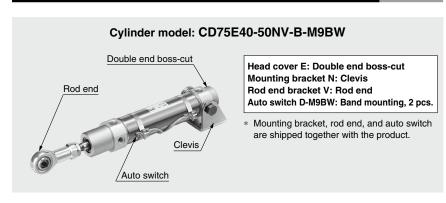
Bore	e size [mm]	32	40							
Туре		Pneu	matic							
Action		Double acting, Single rod								
Fluid		Air								
Proof pres	sure	1.5 MPa								
Max. opera	ating pressure	1.01	MPa							
Min. operating	Rubber bumper	0.05	MPa							
pressure	Air cushion	0.05 MPa								
Ambient a	nd fluid	Without auto switch: -20°C to 80°C (No freezing)								
temperatu	re	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 15	00 mm/s							
Cushion			bumper ushion							
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 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.smcworld.com



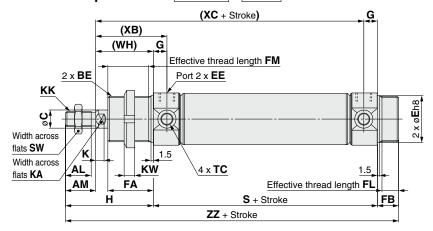


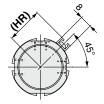
# C75 Series

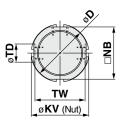
## **Dimensions**

#### Double end boss-cut

Rubber bumper: C□75E Bore size - Stroke - □



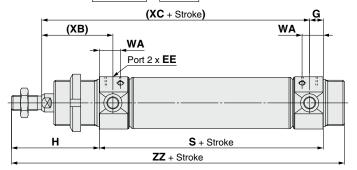


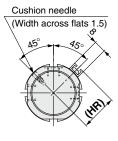


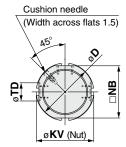
Rail mounting (A)

Band mounting (B) Without magnet

Air cushion: C□75E Bore size - Stroke C - □

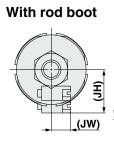


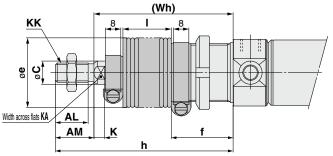




Rail mounting (A)

Band mounting (B) Without magnet





ı	Dimens	sions	;																[mm]
Ī	Bore size	AL	АМ	BE	С	D	E	EE	FA	FB	FM	FL	G	Н	(HR)	к	KA	KK	ΚV
	32	17	20	M30 x 1.5	12	37.5	30	G1/8	30	14	27	11	9	58	23.8	5.5	10	M10 x 1.5	38
	40	21	24	M38 x 1.5	14	46.5	38	G1/4	35	16	32	13	12	69	28.3	7	12	M12 x 1.75	50

Bore size	KW	NB	S	sw	тс	TD	TW	WA	(WH)	(XB)	(XC)	ZZ
32	7	34.5	68	17	M8 x 1	12 <sup>+0.08</sup>	33.1	14	38	47	97	140
40	Ω	12.5	80	10	M10 v 1	1/1+0.08	30.5	20	15	57	122	17/

Mith Rod Bo	ot														[mm]
Item	h														
Bore size Stroke	AL	AM		е	•	^	KA	KK	1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500
32	17	20	12	36	32	5.5	10	M10 x 1.5	77	90	102	115	140	165	190
40	21	24	14	46	37	7	12	M12 x 1.75	88	101	113	126	151	176	201

item						(JH)	(JW)	(Wh)								
Bore size Stroke	1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500	Reference	Reference	1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500
32	12.5	25	37.5	50	75	100	125	23.5	10.5	57	70	82	95	120	145	170
40	12.5	25	37.5	50	75	100	125	27	10.5	64	77	89	102	127	152	177

Refer to page 63 of Standard Type Single Rod for details of accessories (rod end, floating joint).

