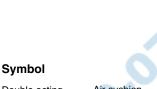


SMO

∗ When mounting a rail on bore size ø20 or ø25, the D-M9□(V), M9□W(V), and M9□A(V) cannot be mounted.

# C85 Series





#### Double acting



g,	Air cushion				
ļ	F				

#### 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

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

	(i or details, relef to pages i to to ize.
Symbol	Specifications
-XA	Change of rod end shape*1
-XB6	Heat resistant cylinder (-10 to 150°C)*2
-XB7	Cold resistant cylinder (-40 to 70°C)
-XB9	Low speed cylinder (10 to 50 mm/s)
-XC4	With heavy duty scraper
-XC6□	Made of stainless steel

660.01

Exclude ø8 air cushion.

2 Rubber bumper ø10 to ø25 only

### **Specifications**

Bore size [mm]		8	10	12	16	20	25
Туре		Pneumatic					
Action		Double acting, Single rod					
Fluid				A	ir		
Proof pressure		1.5 MPa					
Max. operating pressure 1.0 MPa							
Min. operating pressure	Rubber bumper	0.1 MPa	0.08	MPa	0.05 MPa		
	Air cushion	—	0.08	MPa		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 leng	ke length tolerance <sup>+1.0</sup> mm <sup>+1.4</sup> mm		mm				
Piston spe	ed	50 to 1500 mm/s					
Cushion		Rubber bumper					
		— Air cushion					
Allowable kinetic energy	Rubber bumper	0.02 J	0.03 J	0.04 J	0.09 J	0.27 J	0.4 J
	Air cushion		0.17 J	0.19 J	0.4 J	0.66 J	0.97 J

### **Standard Strokes**

Bore size [mm]	Standard stroke [mm]*2*4	Max. stroke <sup>*3</sup> [mm]	
<b>8</b> *1	10 05 40 50 00 100	200	
10	10, 25, 40, 50, 80, 100		
12	10 25 40 50 80 100 125 160 200	400	
16	10, 25, 40, 50, 80, 100, 125, 160, 200		
20	10 25 40 50 80 100 125 160 200 250 200	1000	
25	10, 25, 40, 50, 80, 100, 125, 160, 200, 250, 300	1000	

\*1 Not available with air cushion.

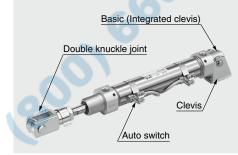
\*2 Other strokes are available on request.

\*3 For exceeding the standard stroke range, it will be available as a special order (-X2018).

\*4 The minimum stroke with air cushion is 25 mm.

## **Option: Ordering Example of Cylinder Assembly**

#### Cylinder model: CD85N20-50CNW-B-M9BW



Head cover N: Basic (Integrated clevis) Mounting bracket N: Clevis Rod end bracket W: Double knuckle joint Auto switch D-M9BW: Band mounting, 2 pcs.

Mounting bracket, double knuckle joint, and auto switch are shipped together with the product.

## A Precautions

\_\_\_\_ Be sure to read this before handling the products. Refer to the back I cover for safety instructions. For actuator and auto switch precautions, I I refer to the "Handling Precautions for SMC Products" and the "Operation I Manual" on the SMC website: http://www.smcworld.com