

# Free Mount Cylinder

## Double Acting, Double Rod

# CUW Series

ø6, ø10, ø16, ø20, ø25, ø32

### How to Order

**CUW 6 [ ] - 30 D**

**With auto switch** **CDUW 6 [ ] - 30 D - M9BW [ ]**

**Built-in magnet**

**Double rod**

**Bore size**

6	6 mm
10	10 mm
16	16 mm
20	20 mm
25	25 mm
32	32 mm

**Port thread type**

Symbol	Type	Bore size
Nil	M5 x 0.8	ø6, ø10, ø16, ø20, ø25
	Rc 1/8	ø32
TN	NPT 1/8	ø32
TF	G 1/8	ø32

**Number of auto switches**

Nil	2 pcs.
S	1 pc.

**Auto switch**

Nil	Without auto switch
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\* Refer to the table below for applicable auto switches.

**Action**

D	Double acting
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**Built-in Magnet Cylinder Model**

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch.  
(Example): CDUW20-30D

**Standard stroke (mm)**

ø6, ø10, ø16	5, 10, 15, 20, 25, 30, 40, 50, 60
ø20, ø25, ø32	5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100

### Applicable Auto Switches/Refer to pages 1575 to 1701 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	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)				
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	○	○	IC circuit	Relay, PLC	
				3-wire (PNP)				M9PV	M9P	●	●	○	○			
				2-wire				M9BV	M9B	●	●	○	○			
	3-wire (NPN)			M9NVW				M9NW	●	●	○	○	IC circuit			
	3-wire (PNP)			M9PVW				M9PW	●	●	○	○				
	2-wire			M9BWV				M9BW	●	●	○	○	—			
Water resistant (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	—	M9NAV <sup>*1</sup>	M9NA <sup>*1</sup>	○	○	●	○	IC circuit	Relay, PLC	
			3-wire (PNP)					M9PAV <sup>*1</sup>	M9PA <sup>*1</sup>	○	○	●	○			
			2-wire					M9BAV <sup>*1</sup>	M9BA <sup>*1</sup>	○	○	●	○			
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	24 V	12 V	100 V or less	A96V	A96	●	—	●	—	—	IC circuit	—
				No				2-wire	A93V <sup>*2</sup>	A93	●	●	●	●	—	—
								A90V	A90	●	—	●	—	—	IC circuit	—

\*1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.

Consult with SMC regarding water resistant types with the above model numbers.

\*2 1 m type lead wire is only applicable to D-A93.

\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NV \* Solid state auto switches marked with "○" are produced upon receipt of order.  
 1 m ..... M (Example) M9NVW  
 3 m ..... L (Example) M9NWL  
 5 m ..... Z (Example) M9NVZ

\* Since there are applicable auto switches other than the above, refer to page 678 for details.

\* For detail about auto switches with pre-wired connector, refer to pages 1648 and 1649.

\* Auto switches are shipped together but not assembled.