

# Valve Mounted Cylinder

## Double Acting, Single Rod

# CVM5 Series

ø20, ø25, ø32, ø40

### How to Order

**Bore size**

20	20 mm
25	25 mm
32	32 mm
40	40 mm

**Mounting type**

B	Basic type
L	Axial foot type
F	Rod side flange type
G	Head side flange type
C	Single clevis type
D	Double clevis type
T	Head side trunnion type
U	Rod side trunnion type

**Solenoid valve voltage**

Standard		Option	
1	100 VAC (50/60Hz)	3	110 VAC (50/60Hz)
2	200 VAC (50/60Hz)	4	220 VAC (50/60Hz)
5	24 VDC	6	12 VDC

For other rated voltages, please consult with SMC.

**Solenoid valve**

1	2 position single
2	2 position double
3	3 position closed center (Option)
4	3 position exhaust center (Option)

**Electrical entry**

G	Grommet
L	L plug connector
M	M plug connector
D	DIN terminal

**Light/Surge voltage suppressor**

Nil	None
S	With surge voltage suppressor
Z	With light/surge voltage suppressor (Except Type G)

**Made to Order**  
Refer to page 772 for details.

**Port thread type**

Nil	Rc
TN	NPT
TF	G

**Piping**

Nil	Screw-in type
F	Built-in One-touch fitting

**Cylinder stroke (mm)**  
(Refer to "Standard Stroke" on page 772.)

**Suffix for cylinder**

Nil	None
J	Nylon tarpaulin
K	Heat resistant tarpaulin

**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) CDVM5B25-150-25GS

**Number of auto switches**

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

**Auto switch mounting bracket**  
(Note) This symbol is indicated when the D-A9□ or M9□ type auto switch is specified. This mounting bracket does not apply to other auto switches (D-C7□ and H7□, etc.) (Nil)

**Example Order Codes:**  
CVM5 L 32 [ ] - 100 [ ] - 1 1 M Z - [ ]  
CDVM5 L 32 [ ] - 100 [ ] - 1 1 M Z - M9BW - C - [ ]

### Applicable Auto Switches

Refer to pages 941 to 1067 for further information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model					Pre-wired connector	Applicable load	
					DC	AC	Perpendicular		In-line					
							0.5 (Nil)	1 (M)	3 (L)	5 (Z)	None (N)			
Solid state auto switch	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	M9NV	M9N	●	●	●	○	○	IC circuit
				3-wire (PNP)			M9PV	M9P	●	●	●	○	○	
		2-wire	M9BV	M9B			●	●	●	○	○			
		2-wire	—	H7C			●	—	●	●	—			
	Water resistant (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	M9NWV	M9NW	●	●	●	○	○	IC circuit
				3-wire (PNP)			M9PWV	M9PW	●	●	●	○	○	
		2-wire	M9B WV	M9B W			●	●	●	○	○			
		2-wire	—	—			●	—	●	●	—			
With diagnostic output (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	M9NAV*1	M9NA*1	○	○	○	○	○	IC circuit	
			3-wire (PNP)			M9PAV*1	M9PA*1	○	○	○	○	○		
	2-wire	M9BAV*1	M9BA*1			○	○	○	○	○				
	2-wire	—	H7NF			●	—	●	●	—				
Reed auto switch	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN equivalent)	24 V	5 V	A96V	A96	●	●	●	○	○	IC circuit
							A93V*2	A93	●	●	●	○	○	
		A90V	A90				●	●	●	○	○			
		—	B54				●	—	●	●	—			
	Water resistant (2-color indicator)	Grommet	Yes	2-wire	24 V	12 V	—	—	●	—	●	●	—	Relay, PLC
							—	—	B64	●	—	●	●	
		—	—				C73C	●	—	●	●			
		—	—				C80C	●	—	●	●			
Water resistant (2-color indicator)	Grommet	Yes	2-wire	24 V	12 V	—	—	●	—	●	●	IC circuit		
						—	—	B59W	●	—	●		●	

\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NW  
1 m ..... M (Example) M9NWMM  
3 m ..... L (Example) M9NWL  
5 m ..... Z (Example) M9NWZ  
None ..... N (Example) H7CN

\* Solid state auto switches marked with "○" are produced upon receipt of order.  
\*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.

\* Since there are other applicable auto switches than listed, refer to page 789 for details.  
\* For details about auto switches with pre-wired connector, refer to pages 1014 and 1015.  
\* D-A9□/M9□ auto switches are shipped together (not assembled). (Only auto switch mounting brackets are assembled before shipped.)