

# Compact Cylinder With Solenoid Valve

## CVQ Series

ø32, ø40, ø50, ø63



### How to Order

CVQ **B** **32** - **30** - **M9BW** - **5** **M**

**Mounting**

<b>B</b>	Through-hole, Both ends tapped (Standard)
<b>L</b>	Foot
<b>F</b>	Rod flange
<b>G</b>	Head flange
<b>D</b>	Double clevis

\* Mounting brackets are included, (but not assembled).

**Bore size**

<b>32</b>	32 mm
<b>40</b>	40 mm
<b>50</b>	50 mm
<b>63</b>	63 mm

**Cylinder stroke (mm)**

Please refer to page 728 for "Standard Stroke" and "Intermediate Stroke".

**Body option**

<b>Nil</b>	Standard (Rod end female thread)
<b>F</b>	With boss in head end
<b>M</b>	Rod end male thread

The combination of body options is available.  
Example) FM

**Auto switch**

<b>Nil</b>	Without auto switch (Built-in magnet)
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\* For applicable auto switch models, refer to the below table.

**Number of auto switches**

<b>Nil</b>	2 pcs.
<b>S</b>	1 pc.
<b>N</b>	"n" pcs.

**Rated voltage**

<b>5</b>	24 VDC
<b>6</b>	12 VDC

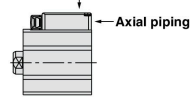
**Port thread type**

<b>Nil</b>	M5 x 0.8	ø32 ø40
	Rc	
<b>F</b>	G	ø50 ø63
	NPT	

**Piping**

<b>Nil</b>	Standard
<b>P</b>	Axial

**Standard piping**



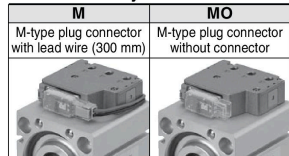
**Manual override**

<b>Nil</b>	Non-locking push type
<b>B</b>	Locking slotted type

**Surge voltage suppressor**

<b>Nil</b>	Without surge voltage suppressor
<b>S</b>	With surge voltage suppressor
<b>Z</b>	With light/surge voltage suppressor
<b>R</b>	With surge voltage suppressor (Non-polar type)
<b>U</b>	With light/surge voltage suppressor (Non-polar type)

**Electrical entry**



\* For lead wire lengths other than 300 mm, refer to the plug connector lead wire (page 731).

**Applicable Auto Switches** / Refer to pages 941 to 1067 for detailed auto switch specifications.

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	Electrical entry		0.5 (Nil)	1 (M)	3 (L)	5 (Z)			
							Perpendicular	In-line							
Solid state auto switch	Diagnostic indication (2-color) indicator Water resistant (2-color) indicator	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC circuit	Relay, PLC
				3-wire (PNP)					●	●	●	○	○		
				2-wire	5 V, 12 V	—	M9BV	M9B	●	●	●	○	○		
				3-wire (NPN)					●	●	●	○	○		
				3-wire (PNP)	5 V, 12 V	—	M9NVW	M9NW	●	●	●	○	○		
				2-wire					●	●	●	○	○		
				3-wire (NPN)	5 V, 12 V	—	M9PWW	M9PW	●	●	●	○	○		
				3-wire (PNP)					●	●	●	○	○		
				2-wire	5 V, 12 V	—	M9NAV*1	M9NA*1	○	○	●	○	○		
				3-wire (PNP)					○	○	●	○	○		
2-wire	12 V	—	M9PAV*1	M9PA*1	○	○	●	○	○						
3-wire (PNP)					○	○	●	○	○						
Reed auto switch	Grommet	Yes	—	3-wire (NPN equivalent)	—	—	A96V	A96	●	—	—	—	—	IC circuit	—
				2-wire	24 V	—	A93V*2	A93	●	●	●	—	—	—	Relay, PLC
				—	5 V, 12 V	100 V or less	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) M9NW  
 1 m ..... M M9NWM  
 3 m ..... L M9NLW  
 5 m ..... Z M9NZW

\* Solid state auto switches marked with "○" are produced upon receipt of order.  
 \* For details about auto switches with pre-wired connector, refer to pages 1014 and 1015.  
 \* Auto switches are shipped together (not assembled).

CVQ

CVQM

CVJ

CVM

CV3

CVS1

MVGQ

D-

X-