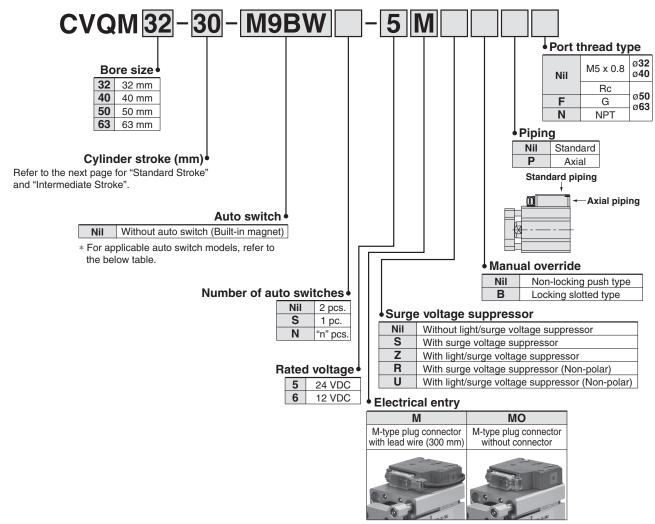
# Compact Cylinder with Solenoid Valve/ Guide Rod Type

# Series CVQM

ø32, ø40, ø50, ø63

 $C \in$ 

**How to Order** 



\* For lead wire lengths other than 300 mm, refer to the plug connector lead wire. (Page 5)

Applicable Auto Switches/Refer to pages 11 to 13 for detailed auto switch specifications.

IVDE	Special function	Electrical entry	Indicator	Wiring (Output)	Load voltage			Auto switch model		Lead wire length (m)*						
						DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)			icable ad
Soaut	Water resistant (2-color indication)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V		M9NV	M9N	•	•	•	0	0	IC circuit	t
				3-wire (PNP)				M9PV	M9P				0	0	ic circuit	
				2-wire		12 V		M9BV	M9B				0	0		
				3-wire (NPN)		5 V, 12V 12 V		M9NWV	M9NW				0	0	IC circuit	Dalan
				3-wire (PNP)				M9PWV	/ M9PW				0	0	io circuit	C circuit Relay, PLC
				2-wire				M9BWV	M9BW				0	0		
				3-wire (NPN)		5 V, 12V		M9NAV**	M9NA**	0	0		0	0	IC circuit	
				3-wire (PNP)				M9PAV**	M9PA**	0	0		0	0		
				2-wire				M9BAV**	M9BA**	0	0		0	0	_	
Reed auto switch	_	Grommet	Yes	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	•	_		_	_	IC circuit	_
				2-wire 24	24 V	12 V	100 V	A93V	A93		_		_	_	_	Relay,
			_		24 V	5 V, 12 V	100 V or less	A90V	A90					-	IC circuit	PLC

\*\* 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.

\* Lead wire length symbols: 0.5 m ······· Nil (Example) M9NW

1 m ...... M 3 m ..... L 5 m ..... Z e) M9NW M9NWM M9NWL M9NWZ

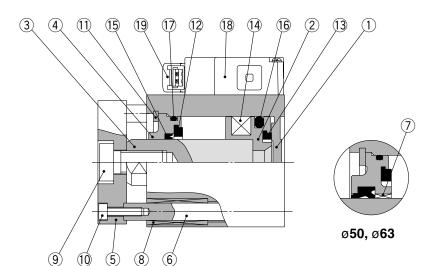
- \* Solid state auto switches marked with "O" are produced upon receipt of order.

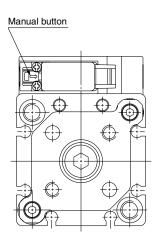
  \* For details about auto switches with pre-wired connector, refer to pages 1784 and 1785 of Best Pneumatics No. 3.
- \* Auto switches are shipped together, (but not assembled).



# Compact Cylinder with Solenoid Valve/Guide Rod Type Series CVQM

## Construction





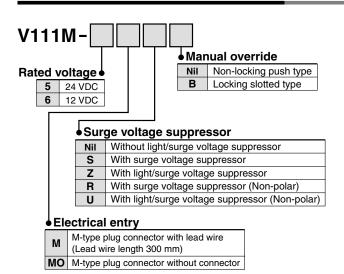
#### **Component Parts**

No.	Description	Material	Note		
1	Cylinder tube	Aluminum alloy	Hard anodized		
2	Piston	Aluminum alloy	Chromated		
3	Piston rod	Carbon steel	Hard chrome plated		
4	Collar	Alluminum alloy casted	ø50, ø63, Chromated, painted		
4	Collar	Aluminum alloy	ø32, ø40, Anodized		
5	Plate	Aluminum alloy	Anodized		
6	Guide rod	Stainless steel			
7	Bushing	Bearing alloy	ø50, ø63		
8	Bushing	Oil impregnated sintered alloy			
9	Hexagon socket head bolt	Carbon steel	Nickel plated		
10	Hexagon socket head bolt	Carbon steel	Nickel plated		
11	Retaining ring	Carbon tool steel	Phosphate coated		
12	Bumper A	Urethane			
13	Bumper B	Urethane			
14	Magnet	_			
15	Rod seal	NBR			
16	Piston seal	NBR			
17	Gasket	NBR			
18	Solenoid valve	<u> </u>			
19	Pilot valve	_			

#### Length of plug connector lead wire

The standard length of the plug connector with a lead wire is 300 mm, but other lengths are available as follows.

## **How to Order Pilot Valve Assembly**



### **How to Order Connector Assembly**

With lead wire: SY100-30-4A-

# Lead wire length

Nil	300 mm	20	2000 mm
6	600 mm	25	2500 mm
10	1000 mm	30	3000 mm
15	1500 mm	50	5000 mm

#### How to Order

Indicate the part number of the connector assembly in addition to the part number of the solenoid valve without the connector for the plug connector. Example) Lead wire length 2000 mm

When ordering cylinder with valve CVQM32-30-M9B-5MOZ SY100-30-4A-20

