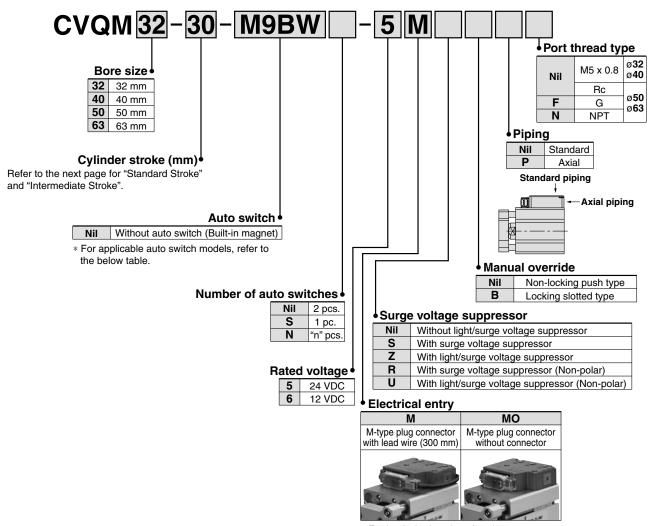
Compact Cylinder with Solenoid Valve/ Guide Rod Type

Series CVQM ø32, ø40, ø50, ø63

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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.

<u> - </u>	Telegraphic Field Children to pages 11 to 10 for detailed date switch specimeations.																																				
	Special function		Indicator	140	Load voltage			Auto swite	ch model	model Lead wir		ngth (m)*	D	A !!																						
Туре				Wiring (Output)		DC AC		Electrical entry		0.5	1	3	5	Pre-wired connector	1.1.																						
	lunction			(Output)				Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	COINECIOI	load																						
				3-wire (NPN)		5 V, 12 V	_	M9NV	M9N	•	•	•	0	0	IC circuit																						
switch	Diagnostic indication (2-color (indication)		et Yes	3-wire (PNP)				M9PV	M9P	P •	•	•	0	O IC circuit																							
				2-wire	24 V	12 V		M9BV	M9B	•	•	•	0	0	_	Relay,																					
Solid auto s				3-wire (NPN)		5 V, 12V		M9NWV	M9NW	•	•	•	0	0	IC circuit	PLC																					
S In					3-wire (PNP)		5 V, 12V		M9PWV	M9PW	•	•	•	0	0	IC Circuit																					
																													2-wire		12 V		M9BWV	M9BW	•	•	•
<u>ੂ</u>			Yes	3-wire (NPN equivalent)	_	5 V		A96V	A96V A96	•	_		_	_	IC circuit																						
Reec S SW	-	Grommet	Grommet Tes	2-wire	24 V	12 V	100 V	A93V	A93	•	_		_	_	_	Relay,																					
Reed auto switch				_	Z-WIIE	24 V	5 V, 12 V	100 V or less	A90V	A90	•	_		_	_	IC circuit	PLC																				

* Lead wire length symbols: 0.5 m ······· Nil (Example) M9NW 1 m ····· M M9NWM

1 m M M9NWM 3 m L M9NWL 5 m Z 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).



Series CVQM



⚠ Caution

- 1. Do not separate the cylinder from the valve.
- 2. Do not disassemble or modify the guide rod.
- 3. This product should not be used as a stopper.

JIS Symbol Double acting, single rod head end

Standard Stroke

		(mm)
Bore size	Standard stroke	
32 *1	5, 10, 15, 20, 25, 30, 35 40, 45, 50, 75, 100	
40	5, 10, 15, 20, 25, 30, 35 40, 45, 50, 75, 100	
50 *2	10, 15, 20, 25, 30, 35 40, 45, 50, 75, 100	
63	10, 15, 20, 25, 30, 35 40, 45, 50, 75, 100	

- *1 The outline dimensions for 5 mm stroke will be the same as those for 10 mm stroke.
- *2 The outline dimensions for 10 mm stroke will be the same as those for 15 mm stroke.

Theoretical Output



Bore size	Operating	Operating pressure (MPa)						
(mm)	direction	0.3	0.5	0.7				
32	IN	181	302	422				
32	OUT	241	402	563				
40	IN	317	528	739				
40	OUT	377	628	880				
F0	IN	495	825	1150				
50	OUT	589	982	1370				
60	IN	840	1400	1960				
63	OUT	936	1560	2184				

Cylinder Specifications

Bore size (mm)	32	40	50	63			
Action	Double acting, Single rod						
Fluid		Air (No	n-lube)				
Proof pressure		1.0	MPa				
Maximum operating pressure	0.7 MPa						
Minimum operating pressure	0.15 MPa						
Ambient and fluid temperature	−10 to 50°C (No freezing)						
Stroke tolerance	0 to +1.0 mm*						
Mounting	Through-hole/Both ends tapped						
Piston speed	50 to 500 mm/s 50 to 300 mm/s						
Cushion	Rubber bumper						

^{*} Stroke length tolerance dose not include the amount of bumper change.

Valve Specifications

Type of actuation	2-position single				
Manual override	Non-locking push type/Locking slotted type				
Pilot exhaust	Main/Pilot valve common exhaust type				
Mounting orientation	Unrestricted (based on cylinder mounting orientation)				
Enclosure	Dustproof				

Solenoid Specifications

Electrical entry		M-type plug connector				
Coil rated voltage	DC	24, 12 (V)				
Allowable voltage range Note)		±10% of the rated voltage				
Power consumption	DC	0.35 (With light: 0.4) W				
Surge voltage suppressor		Diode (Non-polar: Varistor)				
Indicator light		LED				

Note) The S and Z types of surge voltage suppressor have an internal circuit allowing voltage drop, so use within the following allowable voltage range.

S, Z type 24 VDC: -7% to +10% 12 VDC: -4% to +10%

Intermediate Stroke

Part no.	Refer to "How to Order" for standard model numbers. (Previous page)							
	Spacers are installed in a cylinder with standard stroke.							
Description	Bore size	Description						
Description	32	Available in 1 mm stroke increments						
	40, 50, 63	Available in 5 mm stroke increments						
a	Bore size	Stroke range						
Stroke range (mm)	32	1 to 99						
()	40, 50, 63	5 to 95						
Example	tandard cylinder CVQM32-100-□.							

Weight

												Unit (g)
Bore size	Stroke											
(mm)	5	10	15	20	25	30	35	40	45	50	75	100
32	349	344	368	393	417	441	465	489	514	538	660	782
40	435	464	492	520	548	577	605	633	661	690	828	966
50	_	834	865	908	952	995	1039	1081	1125	1168	1386	1603
63	_	1088	1139	1190	1241	1292	1343	1394	1445	1496	1751	2006

