

Compact Cylinder: Guide Rod Type Series CQM

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

How to Order

CQM B 20 - 10

With auto switch CDQM B 20 - 10 - M9BW

With auto switch (Built-in magnet)

Mounting bracket

B	Through-hole (Standard)
A	Both ends tapped (ø32 to ø100)

Note 1) Cylinder bodies of ø12 to ø25 are common for both B (through hole) and A (both ends tapped) types. Symbol to order is unified to "B" for those sizes.

Note 2) Cylinder mounting bolts are not included. Order them separately referring to Mounting Bolts for CQM on pages 796 and 797.

Note 3) Contact SMC for the other mounting types.

Number of auto switches

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

Auto switch type

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

Cylinder stroke (mm)
Refer to the next page for standard and intermediate strokes.

Thread type

Nil	M thread	ø12 to ø25
	Rc	
TN	NPT	ø32 to ø100
TF	G	

Note) M thread to be used for without auto switch type of ø32, 5 stroke exceptionally. There is no need to enter the symbol when ordering.

Bore size

12	12 mm	40	40 mm
16	16 mm	50	50 mm
20	20 mm	63	63 mm
25	25 mm	80	80 mm
32	32 mm	100	100 mm

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) CDQMB32-10

Applicable Auto Switch/Refer to pages 1263 to 1371 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		0.5 (Nil)	1 (M)	3 (L)	5 (Z)	None (N)							
							ø12 to ø25	ø32 to ø100									ø12 to ø25	ø32 to ø100		
Solid state switch	Diagnostic indication (2-color indication)	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	●	●	●	○	—	○					
		Connector		—				J79C	—	●	—	●	●	—	—			—		
		Water resistance (2-color indication)		Grommet				3-wire (NPN)	M9NWV	M9NW	●	●	●	○	—			○	IC circuit	
								3-wire (PNP)	M9PWW	M9PW	●	●	●	○	—			○		
	2-wire		M9BWW		M9BW	●	●	●	○	—	○									
	With diagnostic output (2-color indication)	Grommet	Yes	3-wire (NPN)	M9NAV	M9NA	○	○	●	○	—	○	IC circuit							
				3-wire (PNP)	M9PAV	M9PA	○	○	●	○	—	○								
				2-wire	M9BAV	M9BA	○	○	●	○	—	○								
	Reed switch	Diagnostic indication (2-color indication)	Grommet	Yes	3-wire (NPN equiv.)	24 V	5 V, 12 V	100 V or less	A96V	A96	●	—	●	—	—	—	IC circuit	Relay, PLC		
					Connector				—	A72	—	A72H	●	—	●	—			—	
2-wire					A93V				A93	●	—	●	—	—	—	—				
Grommet			No		5 V, 12 V				A90V	A90	●	—	●	—	—	—			IC circuit	
					12 V				—	A73C	—	—	●	—	●	—				IC circuit
					5 V, 12 V				—	A80C	—	—	●	—	●	—				
Connector	Yes	—	—	A79W	—	—	●	—	●	—	—	—								

* Lead wire length symbols: 0.5 m..... Nil (Example) M9NW
1 m..... M (Example) M9NWM
3 m..... L (Example) M9NWL
5 m..... Z (Example) M9NWZ
None..... N (Example) J79CN

* Solid state auto switches marked with a "○" are produced upon receipt of order.
** D-P4DWL type is compatible with bore sizes ø40 to ø100.
* Only D-P4DW type is assembled when shipped.

* Besides the models in the above catalog, there are some other auto switches that are applicable. For more information, refer to page 803.

* Refer to pages 1328 and 1329 for the details of auto switches with a pre-wired connector.

* When mounting D-A9□(V)/M9□(V)/M9□(V)/M9□(V)L types on a side other than the port side with ø32 to ø50 cylinders, order auto switch mounting brackets separately. Refer to page 803 for details.