

Compact Cylinder: Plate Type Double Acting, Single Rod

Series **CQU**

Size: 20, 25, 32, 40

How to Order

CQU **B** **20** - **30** - **M9BW**

Mounting

B	Through-hole/Both ends tapped common (Standard)
L	Vertical foot
M	Lateral foot
D	Double clevis

* Support brackets are shipped together, (but not assembled).
* Cylinder mounting bolt is not included.
Order it separately from "Mounting Bolt for CQU" on page 3.

Number of auto switches

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

Auto switch

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

Size

20	Piston area equivalent to 20 mm
25	Piston area equivalent to 25 mm
32	Piston area equivalent to 32 mm
40	Piston area equivalent to 40 mm

Rod end thread

Nil	Rod end female thread
M	Rod end male thread

Cylinder stroke (mm)

Size	Stroke
20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50
32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100

Applicable Auto Switches

Refer to pages 13 through to 16 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	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)				
Solid state switch	—	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**	●	●	●	○	○		
				3-wire (NPN)				M9NVV	M9NV	●	●	●	○	○		
	Diagnostic indication (2-color indication)			3-wire (PNP)	M9PVV	M9PV	●	●	●	○	○					
				2-wire	M9BVV	M9BV	●	●	●	○	○					
	Water resistant (2-color indication)			3-wire (NPN)	M9NAV***	M9NA***	○	○	●	○	○					
				3-wire (PNP)	M9PAV***	M9PA***	○	○	●	○	○					
		2-wire	M9BAV***	M9BA***	○	○	●	○	○							
		—	—	—	—	—	—	—	—	—	—	—				
Reed switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5 V	—	A96V	A96	●	—	●	—	—	IC circuit	—
				2-wire	24 V	12 V	100 V	A93V	A93	●	—	●	—	—	—	Relay, PLC
					100 V or less	A90V	A90	●	—	●	—	—	—	—	IC circuit	

* Lead wire length symbols: 0.5 m Nil (Example) M9NV
1 m M (Example) M9NV
3 m L (Example) M9NV
5 m Z (Example) M9NV

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

* For details about the auto switch with pre-wired connector, refer to Best Pneumatics.

* Auto switches are shipped together, (but not assembled).

** The D-M9□M and M9□VM type (lead wire length: 1 m) will be available with products delivered from August 2008 onwards.

*** The water resistant improved D-M9□A and M9□AV type can be mounted, but cylinders are not designed to be water resistant improved construction.

Note) The D-M9□V, M9□WV, M9□AV, and A9□V type cannot be mounted on the port surface depending on the cylinder's stroke and the fitting size for piping. Please confirm SMC separately.