

Compact Cylinder: Standard Type Double Acting, Double Rod **CQSW Series** ø12, ø16, ø20, ø25

How to Order

With auto switch

CQSW **B** 20-30 **D** **C** - **M9BW** -

With auto switch
(Built-in magnet)

Mounting type

B	Through-hole/Both ends tapped common (Standard)
L	Foot type
LC	Compact foot type
F	Flange type

* Mounting brackets are shipped together (but not assembled).

* Cylinder mounting bolts are not included. Order them separately referring to "Mounting Bolt for CQSW" on page 710.

Bore size

12	12 mm
16	16 mm
20	20 mm
25	25 mm

Cylinder stroke (mm)

Standard Stroke

Bore size (mm)	Standard stroke (mm)
12, 16	5, 10, 15, 20, 25, 30
20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50

For "Manufacture of Intermediate Strokes", refer to page 707.

Made to Order
Refer to page 707 for details.

Number of auto switches

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

Auto switch

Nil Without auto switch

* Refer to the table below for the applicable auto switch model.

Body option

Nil	Standard
C	With rubber bumper
M	Rod end male thread

* Combination of body options is available. CM

Action

D Double acting

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) CDQSWL25-30D

Applicable Auto Switches/Refer to pages 1575 to 1701 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 auto 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)				M9NWV	M9NV	●	●	●	○		
	Diagnostic indication (2-color indicator)			3-wire (PNP)	5 V, 12 V	—	M9PWV	M9PW	●	●	●	○	IC circuit		
				2-wire			M9BWV	M9BW	●	●	●	○			
				3-wire (NPN)			M9NAV ^{#1}	M9NA ^{#1}	○	○	○	○			
				3-wire (PNP)			M9PAV ^{#1}	M9PA ^{#1}	○	○	○	○			
Water resistant (2-color indicator)	2-wire	5 V, 12 V	—	M9BAV ^{#1}	M9BA ^{#1}	○	○	○	○	IC circuit					
	2-wire (Non-polar)			P3DWA ^{**}	●	—	●	●	○						
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	24 V	12 V	100 V or less	A96V	A96	●	—	●	—	IC circuit	—
				2-wire				A93V ^{#2}	A93	●	●	●	—	—	Relay, PLC
								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 (Example) M9NWM
 3 m..... L (Example) M9NWL
 5 m..... Z (Example) M9NWZ

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

** Available only for ø25.

It is mounted away from the port side to avoid interference with fittings.

* Since there are other applicable auto switches than listed, refer to page 749 for details.

* For details about auto switches with pre-wired connector, refer to pages 1648 and 1649.

* Auto switches are shipped together (not assembled).

Note) There is the case D-A9□V/M9□V/M9□WV/M9□AV type auto switches cannot be mounted on the port surface, depending on the cylinder's stroke and the fitting size for piping. Consult with SMC for details.