

# Compact Cylinder: Non-rotating Rod Type Double Acting, Double Rod

# CQSKW Series

ø12, ø16, ø20, ø25

## How to Order

**CQSKW B 20-30 D** - [ ] - [ ]

**With auto switch** **CDQSKW B 20-30 D** - [ ] - **M9BW** [ ] - [ ]

**With auto switch**  
(Built-in magnet)

**Mounting type**

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

\* Mounting brackets are shipped together (but not assembled).  
\* Cylinder mounting bolts are not included. Order them separately referring to "Mounting Bolt for CQSKW" on page 736.

**Bore size**

<b>12</b>	12 mm
<b>16</b>	16 mm
<b>20</b>	20 mm
<b>25</b>	25 mm

**Cylinder stroke (mm)**

**Standard Stroke**

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

**Number of auto switches**

<b>Nil</b>	2 pcs.
<b>S</b>	1 pc.
<b>n</b>	"n" pcs.

**Auto switch**

<b>Nil</b>	Without auto switch
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\* Refer to the table below for the applicable auto switch model.

**Body option**

<b>Nil</b>	Standard (Rod end female thread)
<b>M</b>	Rod end male thread

**Action**

<b>D</b>	Double acting
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**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) CDQSKWL25-30D

**Made to Order**  
Refer to page 733 for details.

## 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)	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC circuit	Relay, PLC	
				3-wire (PNP)			M9PV	M9P	●	●	●	○				
				2-wire	M9BV	M9B	●	●	●	○	○					
				3-wire (NPN)	M9NWW	M9NWW	●	●	●	○	○					
	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (PNP)	5 V, 12 V	—	M9PWW	M9PW	●	●	●	○	○	IC circuit	Relay, PLC	
				2-wire			M9BWW	M9BW	●	●	●	○	○			
				3-wire (NPN)	M9NAV <sup>*1</sup>	M9NA <sup>*1</sup>	○	○	○	○	○	IC circuit	Relay, PLC			
				3-wire (PNP)	M9PAV <sup>*1</sup>	M9PA <sup>*1</sup>	○	○	○	○	○					
Water resistant (2-color indicator)	Grommet	Yes	2-wire	5 V, 12 V	—	M9BAV <sup>*1</sup>	M9BA <sup>*1</sup>	○	○	○	○	○	—	—		
			3-wire (NPN equivalent)			—	5 V	—	A96V	A96	●	—			●	—
Reed auto switch	—	Grommet	No	2-wire	24 V	12 V	100 V	A93V <sup>*2</sup>	A93	●	●	●	●	—	—	Relay, PLC
				100 V or less			A90V	A90	●	—	●	—	—	—	—	

\*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.

\* 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-A93V/M9□V/M9□V/M9□V/M9□V 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.