

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

# CQ2KW Series

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

## How to Order

Without auto switch  
ø12 to ø25

CQ2KW **B** **20** - **30D**

Without auto switch  
ø32 to ø63

CQ2KW **B** **32** - **30D** **Z**

With auto switch

CDQ2KW **B** **32** - **30D** **Z** - **M9BW**

With auto switch  
(Built-in magnet)

### Mounting

<b>B</b>	Through-hole (Standard)	ø12 to ø63
<b>A</b>	Both ends tapped	
<b>L</b>	Foot	ø40 to ø63
<b>LC</b>	Compact foot	
<b>F</b>	Flange	

- \* Mounting brackets are shipped together (but not assembled).
- \* Cylinder mounting bolts are not included. Order them separately referring to "Mounting Bolt for CQ2KW/B" on pages 884 and 887.

### Bore size

<b>12</b>	12 mm	<b>32</b>	32 mm
<b>16</b>	16 mm	<b>40</b>	40 mm
<b>20</b>	20 mm	<b>50</b>	50 mm
<b>25</b>	25 mm	<b>63</b>	63 mm

### Port thread type

<b>Nil</b>	M thread	ø12 to ø25
	Rc	
<b>TN</b>	NPT	ø32 to ø63
<b>TF</b>	G	
<b>F</b>	Built-in One-touch fittings (Note 1)	

Note 1) Bore sizes available with One-touch fittings are ø32 to ø63.

\* For cylinders without auto switch, M threads are compatible only for ø32-5 mm stroke model.

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
------------	---------------------

\* Refer to the below table for applicable auto switches.

### Auto switch mounting groove

<b>Z</b>	ø12 to ø25	2 surfaces
	ø32 to ø63	4 surfaces

### Body option

<b>Nil</b>	Standard (Rod end female thread)
<b>C</b>	With rubber bumper (ø12 with auto switch only)
<b>M</b>	Rod end male thread

### Cylinder stroke (mm)

Refer to page 882 for standard strokes.

### 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) CDQ2KWB32-30DZ

## 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)	None (N)				
Solid state auto switch	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	—	M9NV	M9N	●	●	○	—	—	—	IC circuit		
				3-wire (PNP)					●	●	○	—	—				
				2-wire					●	●	○	—	—				
				3-wire (NPN)					●	●	○	—	—				
	Water resistant (2-color indicator)	Grommet	Yes	3-wire (PNP)	24 V	—	M9NWV	M9NW	●	●	○	—	—	IC circuit			
				2-wire					●	●	○	—	—				
				3-wire (NPN)					●	●	○	—	—				
				3-wire (PNP)					●	●	○	—	—				
Magnetic field resistant (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	—	M9NAV <sup>*1</sup>	M9NA <sup>*1</sup>	○	○	●	—	—	IC circuit				
			3-wire (PNP)					○	○	●	—	—					
			2-wire					○	○	●	—	—					
			2-wire (Non-polar)					○	○	●	—	—					
Read auto switch	Grommet	No	3-wire (NPN equivalent)	24 V	—	A96V	A96	●	—	—	—	—	IC circuit				
			2-wire					●	—	—	—	—					
			—					A93V <sup>*2</sup>	A93	●	●	●		●	—	—	Relay, PLC
										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) M9NV  
1 m ..... M (Example) M9NMW  
3 m ..... L (Example) M9NWL  
5 m ..... Z (Example) M9NWZ

\* Solid state auto switches marked with "○" are produced upon receipt of order.  
\* The D-P3DWA□ type is available from ø25 to ø63 only.

\* There are other applicable auto switches other than the listed above. For details, refer to page 970.

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