

Smooth Cylinder

CQSY Series

ø12, ø16, ø20, ø25

How to Order

CQSY B 20 - 30 D C

With auto switch **CDQSY B 20 - 30 D C - M9BW**

With auto switch
(Built-in magnet)

Mounting

B	Through-hole/Both ends tapped (Standard)
L	Foot (Note)
LC	Compact foot
F	Rod flange
G	Head flange
D	Double clevis

* Mounting bracket is shipped together with the product, (but not assembled).

Bore size

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

Cylinder stroke (mm)
Refer to "Standard Strokes" on page 226.

Action

D	Double acting
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Body option

Nil	Standard
F	With boss on head end

Number of auto switches

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

Auto switch

Nil	Without auto switch
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* For applicable auto switches, refer to the table below.

Rod end thread

Nil	Standard (Female rod end)
M	Male rod end

Cushion

C	Rubber bumper
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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) CDQSYL25-30DC

Applicable Auto Switches/Refer to pages 941 to 1067 for further information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire (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			12 V	M9BV		M9B	●	●	●	○	○	—			
	3-wire (NPN)			5 V, 12 V	M9NWV		M9NW	●	●	●	○	○	IC circuit			
	3-wire (PNP)				M9PWW		M9PW	●	●	●	○	○				
	2-wire			12 V	M9BWW		M9BW	●	●	●	○	○	—			
	Water resistant (2-color indicator)	3-wire (NPN)	5 V, 12 V	M9NAV ^{*1}	M9NA ^{*1}	○	○	●	○	○	IC circuit					
		3-wire (PNP)		M9PAV ^{*1}	M9PA ^{*1}	○	○	●	○	○						
		2-wire	12 V	M9BAV ^{*1}	M9BA ^{*1}	○	○	●	○	○	—					
		Magnetic field resistant (2-color indicator)	2-wire (Non-polar)	—	—	P3DWA ^{*2}	●	—	●	●	○	—				
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5 V	A96V	A96	●	—	●	—	—	IC circuit	—	
				No	2-wire	24 V	12 V	100 V	A93V ^{*2}	A93	●	●	●	—	—	Relay, PLC
							100 V or less	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.

Please 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.

** The D-P3DW is only compatible with 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 232 for details.

* For details about auto switches with pre-wired connector, refer to pages 1014 and 1015.

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

Note) The D-A9□V/M9□V/M9□VW/M9□AV auto switches may not be mounted on the port side depending on the cylinder stroke or the fitting size of piping.