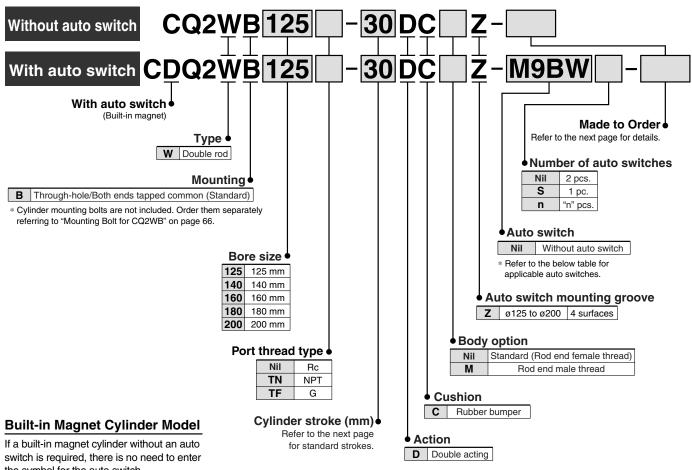
Compact Cylinder: Large Bore Size Double Acting, Double Rod

Series CQ2W

ø125, ø140, ø160, ø180, ø200

How to Order



the symbol for the auto switch.

(Example) CDQ2WB140-30DCZ

Applicable Auto Switches/Refer to pages 1263 to 1371 in Best Pneumatics No. 2 for further information on auto switches.

| | Special function | Electrical entry | Indicator | 140 | Load voltage | | | Auto switch model | | Lead wire length (m) | | | | (m) | | | |
|---------------------|--|------------------|-----------|----------------------------|---------------------------|------|-----------|-------------------|---------|----------------------|----------|----------|----------|------|---------------------|-----------------|---------------|
| Туре | | | | Wiring (Output) | С | C | AC | Perpendicular | In-line | 0.5 (Nil) | 1 (M) | 3 (L) | 5 (Z) | None | Pre-wired connector | Applicable load | |
| _ | | | | 3-wire (NPN) | | 5 V, | | M9NV | M9N | • | • | • | 0 | _ | 0 | IC circuit | |
| switch | | | | 3-wire (PNP) | | 12 V | | M9PV | M9P | • | • | • | 0 | - | 0 | Concult | |
| | | | | | 2-wire | ł | 12 V | 12 V | M9BV | M9B | • | • | • | 0 | _ | 0 | _ |
| auto | Diagnostic indication (2-color indication) | Grommet | | 3-wire (NPN) | 24 V 12 V 12 V 5 V, | 5 V, | ′ I | M9NWV | M9NW | • | • | • | 0 | - | 0 | IC circuit | D-1 |
| | | | Yes | 3-wire (PNP) | | 12 V | | M9PWV | M9PW | • | • | • | 0 | _ | 0 | IC CITCUIT | Relay, PLC |
| state | | | | 2-wire | | | | M9BWV | M9BW | • | • | • | 0 | - | 0 | _ | PLC |
| S D | Water resistant (2-color indication) | | | 3-wire (NPN) | | | | M9NAV** | M9NA** | 0 | 0 | • | 0 | _ | 0 | IC circuit | |
| Solid | | | | 3-wire (PNP) | | | 12 V | M9PAV** | M9PA** | 0 | 0 | • | 0 | - | 0 | IC CITCUIT | |
| S | | | | 2-wire | | 12 V | M9BAV** | M9BA** | 0 | 0 | • | 0 | _ | 0 | _ | | |
| Reed auto switch | | — Grommet | Yes | 3-wire (NPN equivalent) | _ | 5 V | _ | A96V | A96 | • | _ | • | - | - | _ | IC circuit | _ |
| | | | | 2-wire 2 | 24 V | 12 V | 100 V | A93V | A93 | • | - | • | _ | _ | _ | _ | Relay, |
| | | | | No | ∠-wire | 24 V | 5 V, 12 V | 100 V or less | A90V | A90 | • | | • | - | _ | _ | IC circuit |

^{* *} 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.

- * 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
- * There are other applicable auto switches other than the listed above. For details, refer to page 175.

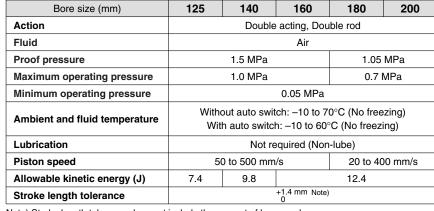
^{*} For details about auto switches with pre-wired connector, refer to pages 1328 and 1329 in Best Pneumatics No. 2.



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

Compact Cylinder: Large Bore Size Double Acting, Double Rod Series CQ2W

Specifications



Note) Stroke length tolerance does not include the amount of bumper change.

JIS Symbol Double acting, Double rod

| Double fou | | | | | | | |
|------------|---|---|--|--|--|--|--|
| | | | | | | | |
| | | | | | | | |
| | 1 | П | | | | | |

Made to Order (For details, refer to pages 177 to 207.)

| Symbol | Specifications | | | | |
|--------|---|--|--|--|--|
| -XB10 | Intermediate stroke (Exclusive body type) | | | | |
| -X235 | Special rod end for double rod cylinder | | | | |
| -X271 | Fluororubber seals, ø125 to ø160 only | | | | |
| -X633 | Intermediate stroke of double rod cylinder, ø125 to ø160 only | | | | |

* -X633: Intermediate stroke in 5 mm intervals only

Standard Strokes

| | (1111 |
|---------------------------|---|
| Bore size (mm) | Standard stroke |
| 125, 140, 160 180, 200 | 10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300 |

Manufacture of Intermediate Strokes

| Type | A spacer is installed in the | ne standard stroke body. | Exclusive body (-XB10) | | | |
|--------------|--|-----------------------------|---|--------------|--|--|
| Part no. | Suffix "-X633" to the model number. (P | ne end of standard . 63) | Suffix "-XB10" to the end of standard model number. (P. 63) | | | |
| Description | Strokes in 5 mm in available by instal the standard strok | ling a spacer in | Strokes in 1 mm intervals are available by using an exclusive body with the specified stroke. | | | |
| Ctroke renge | Bore size | Stroke range | Bore size | Stroke range | | |
| Stroke range | 125 to 160 | 5 to 295 | 125 to 160 | 11 to 299 | | |
| Example | Part no.: CQ2WB1 CQ2WB160-175D width spacer insid The B dimension | e | Part no.: CQ2WB160-165DCZ-XB10 Makes 165 mm stroke tube. The B dimension is 256 mm. | | | |

Refer to pages 169 to 175 for the specifications of cylinders with auto switches.

- Auto switch proper mounting position (detection at stroke end) and its mounting height
- Minimum stroke for auto switch mounting
- Operating range
- Auto switch mounting brackets/Part no.