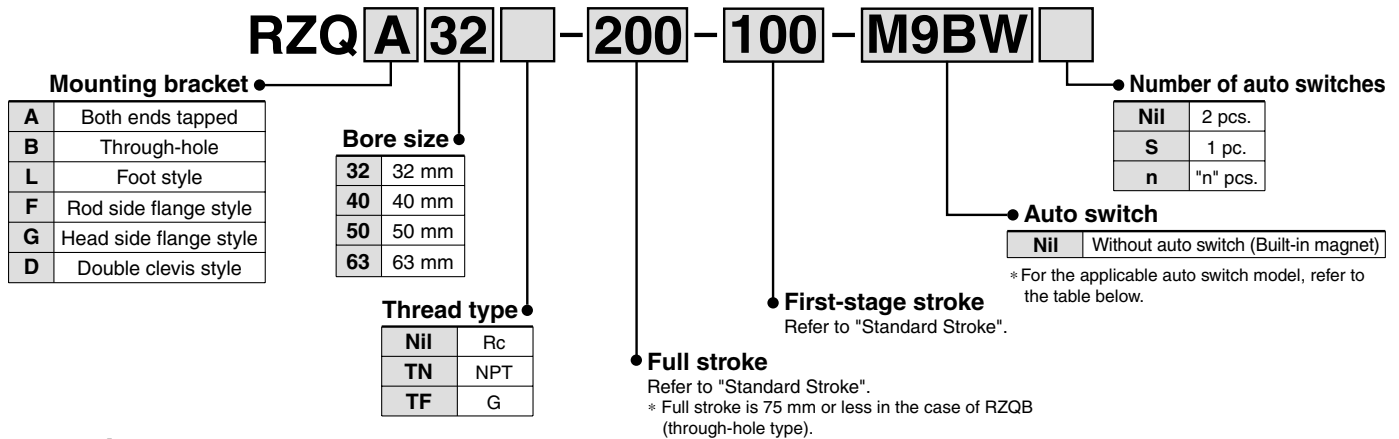


3 Position Cylinder

Series RZQ

ø32, ø40, ø50, ø63

How to Order



Mounting Bracket Part No.

| Bore size (mm) | Foot ^{Note 1)} | Flange | Double clevis ^{Note 2)} |
|----------------|-------------------------|----------|----------------------------------|
| 32 | RZQ-L032 | RZQ-F032 | RZQ-D032 |
| 40 | RZQ-L040 | RZQ-F040 | RZQ-D040 |
| 50 | RZQ-L050 | RZQ-F050 | RZQ-D050 |
| 63 | RZQ-L063 | RZQ-F063 | RZQ-D063 |

Note 1) When ordering foot brackets, order two pieces per cylinder.

Note 2) The following parts are included with each mounting bracket.

Foot, Flange/Body mounting bolts

Double clevis/Clevis pins, type C retaining ring for axis, Body mounting bolts

Applicable Auto Switch/Refer to pages 1719 to 1827 for detailed auto switch specifications.

| 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) | | IC circuit | Relay, PLC | | | | |
| Solid state switch | — | Grommet | Yes | 3-wire (NPN) | 24V | 5 V, 12 V | — | M9NV | M9N | ● | ● | ● | ○ | — | ○ | IC circuit | Relay, PLC | | | |
| | | 3-wire (PNP) | | M9PV | | | | M9P | ● | ● | ● | ○ | — | ○ | | | | | | |
| | Connector | 2-wire | | 12 V | | | | M9BV | M9B | ● | ● | ● | ○ | — | ○ | — | | | | |
| | | J79C | | — | | | | ● | — | ● | ● | ● | — | | | | | | | |
| | Diagnostic indication (2-color indication) | Grommet | | 3-wire (NPN) | | | | 24V | 5 V, 12 V | — | M9NVW | M9NW | ● | ● | ● | ○ | | — | ○ | IC circuit |
| | | | | 3-wire (PNP) | | | | | | | M9PVW | M9PW | ● | ● | ● | ○ | | — | ○ | |
| | 2-wire | | | 12 V | | | | | | | M9BWV | M9BW | ● | ● | ● | ○ | | — | ○ | — |
| | 3-wire (NPN) | | | 5 V, 12 V | | | | | | | M9NAV | M9NA | ○ | ○ | ● | ○ | | — | ○ | |
| | 3-wire (PNP) | | | 12 V | | | | | | | M9PAV | M9PA | ○ | ○ | ● | ○ | | — | ○ | — |
| | 2-wire | | | 12 V | | | | | | | M9BAV | M9BA | ○ | ○ | ● | ○ | | — | ○ | |
| | 4-wire | | | 5 V, 12 V | | | | | | | — | F79F | ● | — | ● | ○ | | — | ○ | IC circuit |
| | 2-wire (Non-polar) | | | — | | | | | | | — | P4DW | — | — | ● | ● | | — | ○ | |
| With diagnostic output (2-color indication) | | | | | | | | | | | | | | | | | | | | |
| Magnetic field resistant (2-color indication) | | | | | | | | | | | | | | | | | | | | |
| Reed switch | — | Grommet | Yes | 3-wire (NPN Equiv.) | — | 5 V | — | A96V | A96 | ● | — | ● | — | — | — | IC circuit | Relay, PLC | | | |
| | | | | — | | | | 200 V | A72 | A72H | ● | — | ● | — | — | | | — | | |
| | | Connector | | 2-wire | | | | 24V | 12 V | 100 V | A93V | A93 | ● | — | ● | — | | — | — | — |
| | | | | | | | | | 5 V, 12 V | 100 V or less | A90V | A90 | ● | — | ● | — | | — | — | |
| | | 12 V | | — | | | | | A73C | — | ● | — | ● | ● | ● | — | | — | | |
| | | 5 V, 12 V | | 24 V or less | | | | | A80C | — | ● | — | ● | ● | ● | — | | | IC circuit | |
| | — | — | | A79W | | | | | — | ● | — | ● | — | — | — | — | | | | |
| | Diagnostic indication (2-color indication) | Grommet | | Yes | | | | | | | | | | | | | | | | |

* 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
None N (Example) J79CN

* Auto switches marked with a "○" symbol are produced upon receipt of order.

* D-P4DWL is available in sizes ø40 to ø63.

* Only D-P4DW type is assembled at the time of shipment.

* In addition to the models in the above table, there are some other auto switches that are applicable. For more information, refer to page 1230.

* Refer to pages 1784 and 1785 for the details of auto switches with a pre-wired connector.

* When D-A9□(V)/M9□(V)/M9□W(V)/M9□A(V)L types with ø32 to ø50 are mounted on a side other than the port side, order auto switch mounting brackets separately. Refer to page 1230 for details.



Specifications

| Bore size (mm) | 32 | 40 | 50 | 63 |
|-------------------------------|----------------------------------|----|-----|----|
| Action | Double acting, Single rod | | | |
| Fluid | Air | | | |
| Proof pressure | 1.5 MPa | | | |
| Maximum operating pressure | 1.0 MPa | | | |
| Minimum operating pressure | 0.1 MPa ^{Note 1)} | | | |
| Ambient and fluid temperature | -10 to 60°C (with no freezing) | | | |
| Lubrication | Non-lube | | | |
| Operating piston speed | 50 to 300 mm/s | | | |
| Stroke length tolerance | +1.5 0 | | | |
| Cushion | Rubber bumper ^{Note 2)} | | | |
| Port size (Rc, NPT, G) | 1/8 | | 1/4 | |

Note 1) When the pressure in A, B and C ports is the same

Note 2) First-stage stroke end (stopping in a intermediate position) without a rubber bumper

Standard Stroke

| | |
|---------------------------------------|---|
| Full stroke ^{Note 1)} | 25, 50, 75, 100, 125, 150, 175, 200, 250, 300 |
| First-stage stroke ^{Note 2)} | 5 mm to "Full stroke" -1 mm |

Note 1) RZQB (through hole type) is only available for full strokes 25, 50 and 75.

Note 2) Available in 1 mm increments.

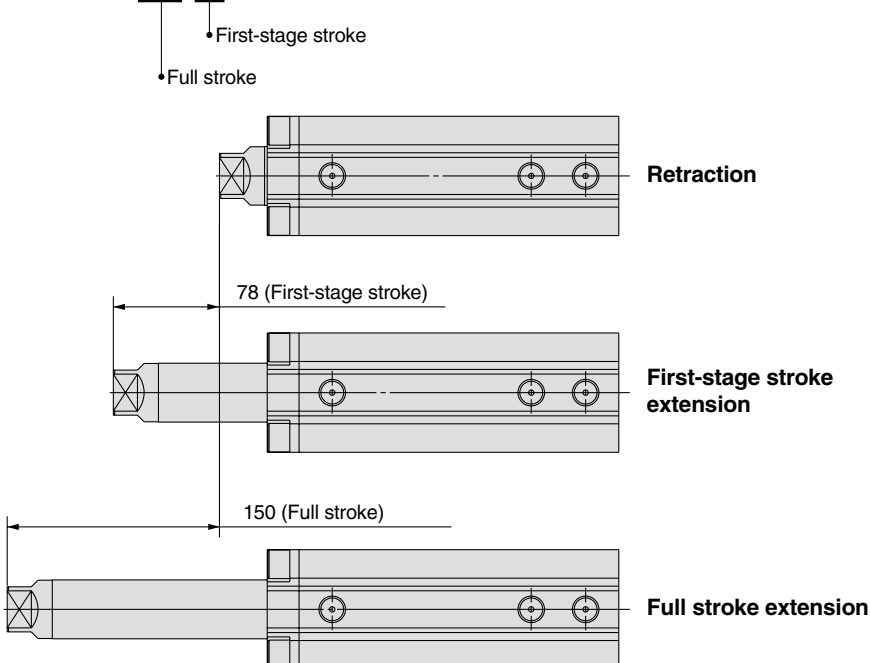
Note 3) Be aware of the minimum auto switch mounting stroke (Refer to page 1228).

Manufacture of Intermediate Stroke

| | |
|--------------------|---|
| Method | Spacers installed in standard stroke body. (Intermediate strokes are compatible with a full stroke only.) |
| Ordering | Refer to standard part number and ordering on page 1219. |
| How to manufacture | Strokes are available in 1 mm increments by installing spacers in standard stroke cylinders. |
| Minimum stroke | 5 mm |
| Example | Part no.: RZQA50-135-50 A 15 mm spacer is installed in a standard cylinder RZQA50-150-50. The B dimension is 246.5 mm. |

How to Order Strokes

RZQA32-150-78



* Consult with SMC for the special tube for intermediate strokes of a full stroke.