

# Compact Cylinder with Air Cushion

# RQ Series

ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

## How to Order

**With auto switch**

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

**Mounting bracket**

<b>B</b> Through-hole (Standard)	<b>F</b> Rod side flange type
<b>A</b> Both ends tapped type	<b>G</b> Head side flange type
<b>L</b> Foot type	<b>D</b> Double clevis type
<b>LC</b> Compact foot type	

Note 1) Mounting brackets are packed together when shipped (unassembled).  
 Note 2) Since sizes ø20 and ø25 have a body with type B (Through-hole) and type A (Both ends tapped type) in common, there is no type A part number. Example) RQA 20-30 does not exist.  
 Note 3) Cylinder mounting bolts are not included. Order them separately referring to Mounting Bolts for RQB on page 987.

**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 table below for the applicable auto switch model.

**Body option**

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

**Cylinder stroke (mm)**  
Refer to "Standard Stroke" on page 986.

**Bore size**

<b>20</b>	20 mm	<b>50</b>	50 mm
<b>25</b>	25 mm	<b>63</b>	63 mm
<b>32</b>	32 mm	<b>80</b>	80 mm
<b>40</b>	40 mm	<b>100</b>	100 mm

**Thread type**

<b>Nil</b>	M thread	ø20, 25
<b>Rc</b>	Rc	
<b>NPT</b>	NPT	ø32 to ø100
<b>G</b>	G	

**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) RDQL40-50

## 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 (M)	1 (L)	3 (Z)	None (N)				
							ø20, ø25	ø32 to ø100	ø20, ø25	ø32 to ø100								
Solid state auto switch	—	Grommet	—	3-wire (NPN)	5 V, 12 V	—	M9NV	M9N	●	●	○	—	○	IC circuit	Relay, PLC			
				3-wire (PNP)			M9PV	M9P	●	●	○	—						
		Connector	—	2-wire	12 V	M9BV	M9B	●	●	○	—							
				3-wire (NPN)	5 V, 12 V	M9NW	M9N	●	●	○	—							
	Diagnostic indicator (2-color indicator)	Grommet	Yes	—	3-wire (PNP)	12 V	—	M9PW	M9P	●	●	○	—	○		IC circuit		
					2-wire	12 V	M9BWW	M9B	●	●	○	—	○	—				
					3-wire (NPN)	5 V, 12 V	M9NA*1	M9NA*1	○	○	○	—	○	IC circuit				
					3-wire (PNP)	12 V	M9PA*1	M9PA*1	○	○	○	—	○	IC circuit				
					2-wire	12 V	M9BA*1	M9BA*1	○	○	○	—	○	—				
					4-wire	5 V, 12 V	—	F79F	●	—	○	—	○	IC circuit				
Reed auto switch	—	Grommet	Yes	3-wire (NPN equiv.)	5 V	—	A96V	A96	●	●	—	—	—	—	IC circuit			
							—	200 V	—	A72	—	—	—	—	—	—		
							12 V	100 V	A93V*2	A93	●	●	●	—	—	—		
							5 V, 12 V	100 V or less	A90V	A90	●	—	—	—	—	IC circuit		
							12 V	—	A73C	—	●	—	—	—	—	—		
		Connector	No	—	—	2-wire	5 V, 12 V	24 V or less	A80C	—	●	—	●	●	—	—	IC circuit	
									—	—	A79W	—	●	—	●	—	—	—
									—	—	—	P3DWA**	●	—	●	—	—	—
									—	—	—	—	●	—	●	—	—	—
									—	—	—	—	●	—	●	—	—	—

\*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  
 None..... N (Example) J79CN

\* Solid state auto switches marked with a "○" are produced upon receipt of order.

\*\* The D-P3DWA□ is mountable on bore size ø25 to ø100.

\* Besides the models in the above catalog, there are some other auto switches that are applicable. For more information, refer to page 1002.

\* Refer to pages 1648 and 1649 for the details of auto switches with a pre-wired connector.

\* When mounting D-A9□(V)/M9□(V)/M9□(V)/M9□(V)/M9□(A) types on a side other than the port side with ø32 to ø50 cylinders, order auto switch mounting brackets separately.

Refer to page 1002 for details.

\* When mounting brackets (foot/flange type) are used, then in some cases auto switches cannot be retrofitted.

**CUJ**  
**CU**  
**CQS**  
**JCQ**  
**CQ2**  
**RQ**  
**CQM**  
**CQU**  
**MU**

**D-□**  
**-X□**  
**Technical Data**