

# Stopper Cylinder / Fixed Mounting Height

## Series RSQ

ø12, ø16, ø20, ø32, ø40, ø50

### How to Order

**Standard**

**RSQ B 20 - 15 D**

**With auto switch**

**RSDQ B 20 - 15 D - M9BW**

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

**Mounting bracket**

<b>B</b>	Through-hole (Standard)
<b>A</b>	Both ends tapped style

Note 1) Since ø12 uses a common tube for both A and B, only B is used for part no. denotation.

**Bore size**

12	12 mm
16	16 mm
20	20 mm
32	32 mm
40	40 mm
50	50 mm

**Port thread type**

<b>Nil</b>	M thread	ø12, ø16
<b>TN</b>	NPT	ø20 to ø50
<b>TF</b>	G	
<b>F</b>	Built-in One-touch fittings (2)	

Note 2) Bore sizes available w/ One-touch fittings are ø20 to ø50.  
Note 3) TF for ø20 indicates M5.

**Cylinder stroke (mm)**

12	10
16	10, 15
20	10, 15, 20
32	10, 15, 20
40	20, 25, 30
50	20, 25, 30

**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) RSDQB32-15D

**Auto switch**

**Nil** Without auto switch

\* For the applicable auto switch model, refer to the table below.

**Made to Order Specifications**  
For details, refer to page 1374.

**Number of auto switches**

<b>Nil</b>	2 pcs.
<b>S</b>	1 pc.

**Rod end configuration**

Symbol	Configuration	Application
<b>Nil</b>	Round bar type	—
<b>K</b>	Chamfered type	—
<b>R</b>	Roller type	—
<b>L</b>	Lever type (Non-adjustable) (4)	Basic style
<b>B</b>	Lever type (4) (Energy absorbing Adjustable deformation)	—
<b>C</b>		With cancel cap
<b>D</b>		With lock mechanism
<b>E</b>		With lock & cancel

Note 4) The lever types are applicable only to bore sizes ø32, ø40 and ø50.

**Action**

<b>D</b>	Double acting
<b>B</b>	Double acting with spring loaded
<b>T</b>	Single acting (Spring extend)

### Applicable Auto Switch/Refer to pages 1719 to 1827 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)					
							ø 12	ø 16, ø 20, ø 32 to ø 50	ø 12	ø 16, ø 20, ø 32 to ø 50										
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV		M9N		●	●	●	○	—	○	IC circuit	Relay, PLC	
		3-wire (PNP)		M9PV				M9P		●	●	●	○	—	○					
	Diagnostic indication (2-color indication)	Connector		2-wire				12 V	M9BV		M9B		●	●	●	○	—	○		—
				—				J79C		—		●	—	●	●	●	—			
		Grommet		3-wire (NPN)				5 V, 12 V	M9N WV		M9N W		●	●	●	○	—	○		IC circuit
				3-wire (PNP)				12 V	M9P WV		M9P W		●	●	●	○	—	○		
				2-wire				12 V	M9B WV		M9B W		●	●	●	○	—	○		—
				3-wire (NPN)				5 V, 12 V	M9N AV		M9N A		○	○	●	○	—	○		
				3-wire (PNP)				12 V	M9P AV		M9P A		○	○	●	○	—	○		IC circuit
				2-wire				12 V	M9B AV		M9B A		○	○	●	○	—	○		
4-wire	5 V, 12 V	—		—		F79F	●	—	●	○	—	○	IC circuit							
Reed switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5V	—	A96V		A96		●	—	●	—	—	—	IC circuit	—	
								—		A72		A72H		●	—	●	—			—
	Diagnostic indication (2-color indication)	Connector		2-wire	24 V	12 V	100 V	A93V		A93		●	—	●	—	—	—	—		
						5 V, 12 V	100 V or less	A90V		A90		●	—	●	—	—	—			IC circuit
		12 V				—	A73C		—		●	—	●	●	●	—	—			
		5 V, 12 V				24 V or less	A80C		—		●	—	●	●	●	—		IC circuit		
		—				—	A79W		—		●	—	●	—	—	—	—			

\* 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

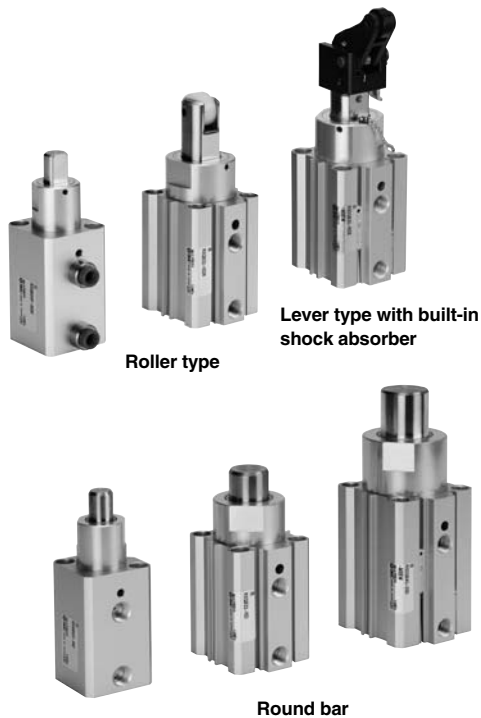
\* Solid state auto switches marked with "○" are produced upon receipt of order.

\* Since there are other applicable auto switches than listed, refer to page 1386 for details.

\* For details about auto switches with pre-wired connector, refer to pages 1784 and 1785.

\* 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 1386 for details.

# Series RSQ



**Made to Order Specifications**  
(For details, refer to pages 1836 and 1872.)

Symbol	Specifications
-XA□	Change of rod end shape
-XC3	Special port location

## Spring Force (Single acting)

Bore size (mm)	Extended	Compressed
12	3.9	9.6
16	4.9	14.9
20	3.4	14.9
32	8.8	18.6
40, 50	13.7	27.5

\* Applicable only to round bar type, chamfered type and roller type end configurations.

## Model

Bore size (mm)		12	16	20	32	40	50
Mounting	Through-hole	Note1) ●	●	●	●	●	●
	Both ends tapped style		●	●	●	●	●
Built-in magnet		●	●	●	●	●	●
Piping	Screw-in type	M5 x 0.8		1/8 Note2)			
	Built-in One-touch fittings	—		ø6/4			ø8/6
Action		Double acting, Single acting (Spring extend), Double acting with spring loaded					
Rod end configuration	Round bar	●			●		
	Chamfered	●			●		
	Roller type	●			●		
	Lever type	—			●		

Note 1) ø12 tubes can have both through-hole and tap mountings in the same tube.

Note 2) TF (G thread) for ø20 indicates M5 x 0.8.

## Specifications

Action	Double acting, Double acting with spring loaded, Single acting (Spring extend)
Fluid	Air
Proof pressure	1.5 MPa
Maximum operating pressure	1.0 MPa
Ambient and fluid temperature	Without auto switch: -10 to 70°C With auto switch: -10 to 60°C
Lubrication	Not required (Non-lube)
Cushion	Rubber bumper
Stroke length tolerance	+1.4 0
Mounting	Through-hole/Both ends tapped
Auto switch	Mountable

\* No freezing (for cylinders with or without an auto switch)

## Bore Size/Standard Stroke

Bore size (mm)	Rod end configuration		
	Round bar, Chamfered type	Roller type	Lever type with shock absorber
12	10	10	—
16	10, 15	10, 15	—
20	10, 15, 20	10, 15, 20	—
32			10, 15, 20
40	20, 25, 30	20, 25, 30	20, 25, 30
50			

## Mass

Action	Bore size (mm)	Rod end configuration	Cylinder stroke (mm)				
			10	15	20	25	30
Double acting	12	Round bar, Chamfered, Roller	0.07	—	—	—	—
	16	Round bar, Chamfered, Roller	0.14	0.15	—	—	—
	20	Round bar, Chamfered, Roller	0.23	0.24	0.25	—	—
Single acting, Spring extend	32	Round bar, Chamfered, Roller	0.42	0.44	0.46	—	—
		Lever with built-in shock absorber	0.51	0.53	0.55	—	—
Double acting with spring loaded	40	Round bar, Chamfered, Roller	—	—	0.74	0.80	0.86
		Lever with built-in shock absorber	—	—	0.97	1.01	1.05
	50	Round bar, Chamfered, Roller	—	—	1.03	1.07	1.11
		Lever with built-in shock absorber	—	—	1.26	1.30	1.34