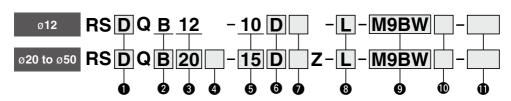
# Stopper Cylinder Fixed Mounting Height

## **RSQ** Series Ø12, Ø16, Ø20, Ø32, Ø40, Ø50



### How to Order



### With auto switch

Nil	Without magnet for switch*1				
D	With auto switch (Built-in magnet)				

\*1 In the case of without magnet for switch, auto switch cannot be mounted.

### 2 Mounting

B Through-hole
A Both ends tapped

\* Since ø12 uses a com-

\* Since ø12 uses a common tube for both A and B, only B is used for part no. denotation.

### Bore size

O DOIC 312C						
12	12 mm					
16	16 mm					
20	20 mm					
32	32 mm					
40	40 mm					
50	50 mm					

### 4 Port thread type

Nil	M thread	ø12, ø16				
IVII	Rc					
TN	NPT	ø20 to ø50				
TF	G					
F	Built-in One-touch fittings*2					
:0 Bara sizes susilable w/ One touch						

\*2 Bore sizes available w/ One-touch fittings are ø20 to ø50.

\* TF for ø20 indicates M5.

### G Cylinder stroke

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

### 6 Action

D	Double acting
В	Double acting with spring loaded
т	Single acting / spring extend
	•

### Rod end configuration

Nil	Round bar								
F	Round bar with female rod end*3								
K	Chamfered								
G	Chamfered with female rod end*3								
R	Roller								
L	Lever (Fixed absorber type)								
В	Lever (Adjustable absorber type)								
С	Lever (Adjustable absorber type) with cancel cap								
D	Lever (Adjustable absorber type) with lock mechanism								
E	Lever (Adjustable absorber type) with lock mechanism and cancel cap								

\* The lever type rod end is applicable only to bore sizes ø32, ø40, and ø50.

\*3 Excluding ø12

### **8** Mounting bolt

L	Shipped together
Mountir	g bolt is shipped together
only wh	en the "Mounting" symbol

only when the "Mounting" symbol is B. For details about the mounting bolt sizes, refer to page 562.

## Number of auto switches Nil 2 S 1

## Auto switch Without auto

• • • • •	switch
For a	pplicable auto
	t t- t

For applicable auto switches, refer to the table below.

### Made to order

For details, refer to page 561.

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

	Floatrice	Electrical	light	Wiring	Load voltage		Auto switch model		Lead wire length [m]				[m]	Pre-wired																													
Туре	Special function	entry	Indicator	(Output)	D	С	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	None	connector	Applical	ble load																										
_				3-wire (NPN)		5 V,		M9NV	M9N	•	•	•	0	-	0	IC circuit																											
switch				3-wire (PNP)		12 V		M9PV	M9P	•	•	•	0	_	0	io dicuit																											
Š				2-wire		12 V		M9BV	M9B	•	•	•	0	_	0	_																											
	Diagnostic indication (2-color indicator) Grom	Diagnostic indication			3-wire (NPN)		5 V,		M9NWV	M9NW	•	•	•	0	-	0	IC circuit																										
anto		C	Vaa	3-wire (PNP)	2-wire 24 V	24 V 12 V	, 12 V		M9PWV	M9PW	•	•	•	0	_	0	Rel	Relay,																									
		Grommet	res	2-wire			1 1	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	12 V	_	M9BWV	M9BW	•	•	•	0	_	0	_
state	Water-resistant	Water-resistant (2-color indicator)		3-wire (NPN)					5 V,		M9NAV*1	M9NA*1	0	0	•	0	_	0	IC circuit																								
<u></u>						3-wire (PNP)		12 V	12 V	M9PAV*1	M9PA*1	0	0	•	0	_	0	IC CITCUIT																									
Solid	(2-color indicator)							2-wire		12 V		M9BAV*1	M9BA*1	0	0	•	0	_	0																								
	Magnetic field-resistant (2-color indicator)			2-wire (Non-polar)		_		_	P3DWA	•		•	•	_	0	_																											
<del>ہ</del> ہو	Gr						Yes	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	•	_	•	_	_	_	IC circuit	_																						
Reed auto switch		<ul> <li>Grommet</li> </ul>	et   res	res	2-wire	24 V	12 V	100 V	A93V*2	A93	•	•	•	•	_	_		Relay,																									
E e S			No	Z-Wife	24 V	5 V,12 V	100 V or less	A90V	A90	•	_	•	_	_	_	IC circuit	PLC																										

- \*1 Water-resistant type auto switches can be mounted on the above models, but SMC cannot guarantee water resistance. Please contact SMC regarding water-resistant types with the above model numbers.
- \*2 The 1 m lead wire is only applicable to the D-A93.
- \* Lead wire length symbols: 0.5 m ........Nii (Example) M9NW

  1 m .....M (Example) M9NWM

  3 m .....L (Example) M9NWL

  5 m ......Z (Example) M9NWZ
- \* Solid state auto switches marked with "O" are produced upon receipt of order.
- \* The D-P3DWA□ is mountable on bore size ø32 to ø50.
- \* Since there are applicable auto switches other than those listed above, refer to page 574-1 for details.

## Stopper Cylinder Fixed Mounting Height **RSQ** Series





### **Specifications**

Bore size [mm]	12	16	20	32	40	50			
Action	Double acting, Double acting with spring loaded, Single acting / spring exte								
Fluid			Α	ir					
Proof pressure			1.5 [	MРа					
Maximum operating pressure 1.0 MPa									
Ambient and fluid temperatures	Without auto switch: -10°C to 70°C (No freezing) With auto switch: -10°C to 60°C								
Lubricant	Not required (Non-lube)								
Cushion				Rubber bumper					
Stroke length tolerance			+1.4	1*1					
Piston speed			50 to 50	00 mm/s					
Mounting		Throu	gh-hole, B	oth ends t	apped				

<sup>\*1</sup> Stroke length tolerance does not include the amount of bumper change.

### **Standard Strokes**

		[mm]					
Dana alaa	Rod end configuration						
Bore size	Round bar, Chamfered, Roller	Lever					
12	10	_					
16	10, 15	_					
20	10, 15, 20	_					
32	10, 15, 20	10, 15, 20					
40	20, 25, 30	20, 25, 30					
50	20, 25, 30	20, 25, 30					

### Made to Order **Common Specifications** Click here for details

Symbol	Specifications
-XA□	Change of rod end shape
-XB11	Long stroke type*1
-XC3	Special port location

<sup>\*1</sup> Double acting, Round bar type only.

### For details of cylinders with auto switches > pages 572 to 574-1

- · Auto Switch Proper Mounting Position (Detection at stroke end) and Mounting Height · Operating Range
- · Auto Switch Mounting Brackets/Part Nos.

### Spring Force (Single acting / spring extend)

		[N]
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

<sup>\*</sup> Applicable only to round bar, chamfered, and roller type rod end configurations.

RSQ RSG

RS2H

RSH MIW

