

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** -

Mounting bracket

With auto switch
(Built-in magnet)

B Through-hole (Standard)
A 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

Nil	M thread	ø12, ø16
TN	Rc	ø20 to ø50
TF	NPT	
F	G	
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

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

Nil	2 pcs.
S	1 pc.

Rod end configuration

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

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

Action

D	Double acting
B	Double acting with spring loaded
T	Single acting (Spring extend)

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

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)				
							ø12	ø16, ø20, ø32 to ø50	ø12	ø16, ø20, ø32 to ø50									
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V,	—	M9NV		M9N	●	●	●	○	—	○	IC circuit	Relay, PLC	
		3-wire (PNP)		12 V		M9PV		M9P	●	●	●	○	—	○					
	Connector	2-wire		12 V		M9BV		M9B	●	●	●	○	—	○	—				
		—		J79C		—		●	—	●	●	●	—						
	Diagnostic indication (2-color indication)	Grommet		3-wire (NPN)		5 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,		M9N AV		M9N A	○	○	●	○	—	○		IC circuit			
	Water resistant (2-color indication)			3-wire (PNP)		12 V		M9P AV		M9P A	○	○	●	○	—		○		—
				2-wire		12 V		M9B AV		M9B A	○	○	●	○	—	○	—		
With diagnostic output (2-color indication)	4-wire		5 V, 12 V	—		—	F79F	●	—	●	○	—	○	IC circuit					
Reed switch	—		Grommet	Yes	3-wire (NPN equivalent)	—	5V	—	A96V		A96	●	—	●	—	—	—	IC circuit	Relay, PLC
		—					200 V		—	A72	—	A72H	●	—	●	—	—	—	
		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.

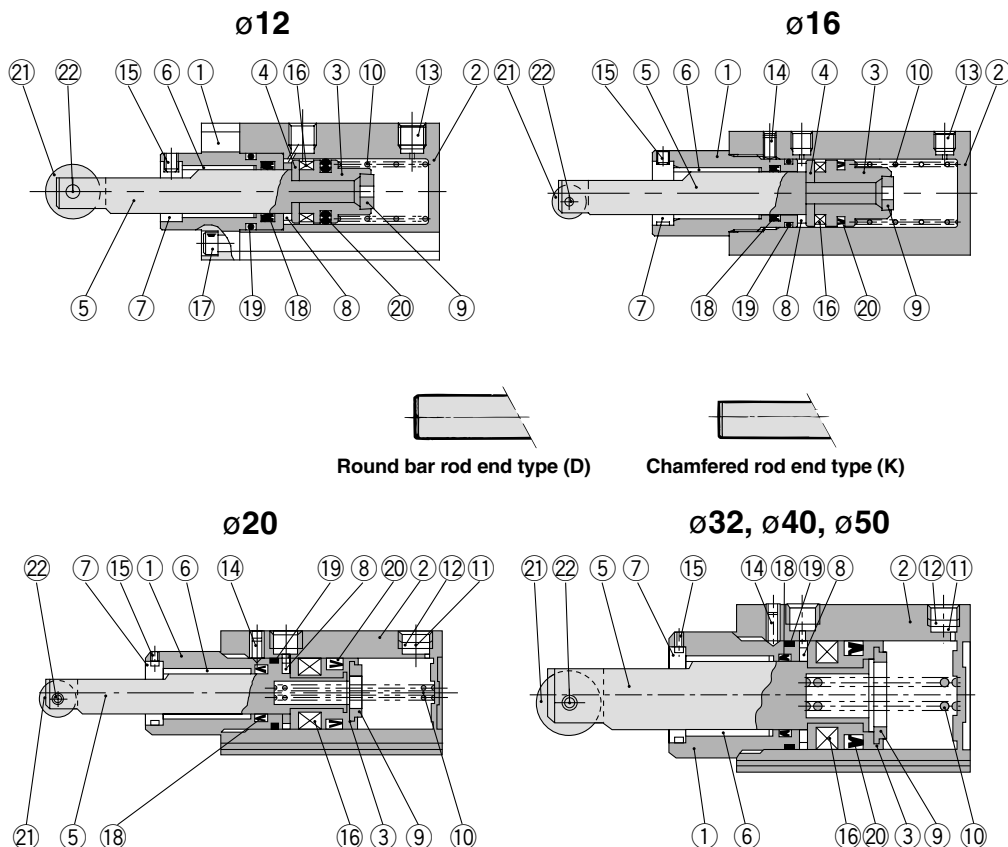
* Since there are other applicable auto switches than listed, refer to page 1386 for details.

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

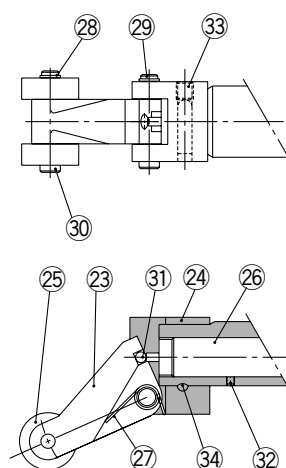
* When D-A9□(V)/M9□(V)/M9□W(V)/M9□A(V)L types with ø32 to ø50 are mounted on a side other than the port side, order auto switch mounting brackets separately. Refer to page 1386 for details.

Construction

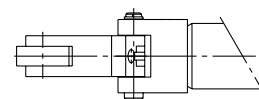
Roller rod end



Built-in shock absorber Lever rod end type (ø32, ø40, ø50 only)



Only one roller is provided for ø32.



Component Parts

No.	Description	Material	Note
1	Rod cover	Aluminum alloy	Anodized*
2	Cylinder tube	Aluminum alloy	Hard anodized
3	Piston	Aluminum alloy	Chromated
4	Spacer for switch	Aluminum alloy	ø12, ø16 only
5	Piston rod	ø12, ø16, ø20 Stainless steel ø32, ø40, ø50 Carbon steel	Hard chrome plated
6	Bushing	Copper alloy	
7	Non-rotating guide	Rolled steel	Non-rotating type only
8	Bumper A	Urethane	
9	Bumper B	Urethane	
10	Return spring	Steel wire	Zinc chromated (Except double acting)
11	Element	Sintered metallic BC	ø20 to ø50 (Single acting only)
12	Retaining ring	Carbon tool steel	ø20 to ø50 (Single acting only)
13	Plug with fixed orifice	Alloy steel	ø12, ø16 only
14	Hexagon socket head set screw	Chromium molybdenum steel	Except ø12
15	Hexagon socket head set screw	Chromium molybdenum steel	
16	Magnet	—	
17	Hexagon socket head cap screw	Alloy steel	ø12 only
18	Rod seal	NBR	
19	Gasket	NBR	
20	Piston seal	NBR	

Roller type

21	Roller A	Resin	
22	Spring pin	Carbon tool steel	

Component Parts (For single acting)

No.	Description	Material	Note
23	Lever	Cast iron	
24	Lever holder	Rolled steel	
25	Roller B	Resin	
26	Shock absorber	—	ø32-RB1007-X225 ø40, 50-RB1407-X552
27	Lever spring	Stainless steel wire	
28	Type C retaining ring for axis	Carbon tool steel	
29	Lever pin	Carbon steel	
30	Roller pin	Carbon steel	
31	Steel balls	High carbon chrome bearing steel	
32	Hexagon socket head set screw	Chromium molybdenum steel	
33	Hexagon socket head set screw	Chromium molybdenum steel	
34	One-side tapered pin	Carbon steel	

Replacement Parts/Seal Kit

Bore size (mm)	Kit no.			Contents
	Double acting	Double acting with spring loaded	Single acting	
12	RSQ12D-PS	RSQ12T-PS		Set of above nos. (18, 19, 20)
16	RSQ16D-PS	RSQ16B-PS	RSQ16T-PS	
20	RSQ20D-PS	RSQ20B-PS	RSQ20T-PS	
32	RSQ32D-PS	RSQ32B-PS	RSQ32T-PS	
40	RSQ40D-PS	RSQ40B-PS	RSQ40T-PS	
50	RSQ50D-PS	RSQ50B-PS	RSQ50T-PS	

* Seal kit includes (18, 19, 20). Order the seal kit, based on each bore size.

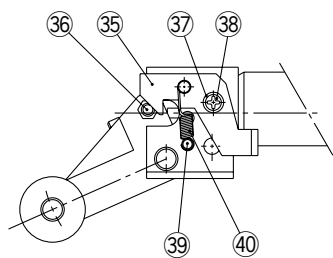
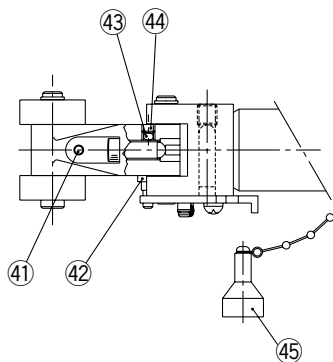
* Since the seal kit does not include a grease pack, order it separately.

Grease pack part no.: GR-S-010 (10g)

Replacement Parts: Shock Absorber

Bore size (mm)	Kit no.
32	RB1007-X225
40, 50	RB1407-X552

Lever rod end type (With lock mechanism and cancel cap)
(ø32, ø40, ø50)



Component Parts

No.	Description	Material	Note
With lock mechanism			
35	Bracket	Carbon steel	
36	Pin B	Carbon steel	
37	Spacer	Carbon steel	
38	Round head Phillips screw	Rolled steel	
39	Pin A	Rolled steel	
40	Bracket spring	Steel wire	
41	Hexagon socket head cap set screw	Chromium molybdenum steel	
42	Spring washer	Steel wire	
43	Urethane ball	Urethane	
44	Hexagon socket head cap set screw	Chromium molybdenum steel	
With cancel cap			
45	Cancel cap	Aluminum alloy	

RSQ

RSG

RS□

MI□

D-□

-X□

**Individual
-X□**