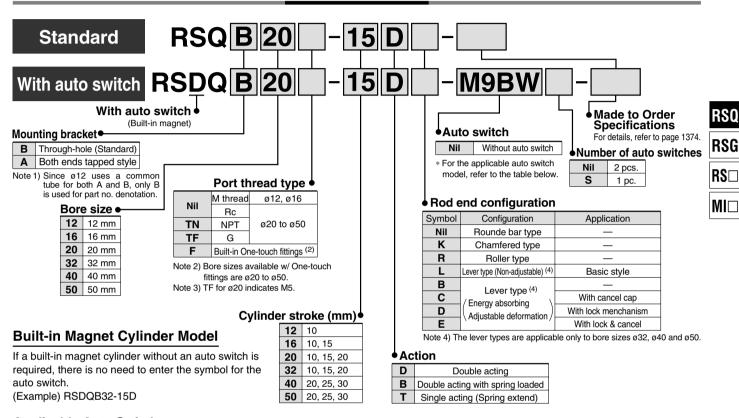
Stopper Cylinder / Fixed Mounting Height

Series RSQ ø12, ø16, ø20, ø32, ø40, ø50

How to Order



Applicable Auto Switch/Refer to pages 1719 to 1827 for further information on auto switches

		Claration I	ight		Load voltage		Auto switch model		Lead wire length (m)				A I	A						
Туре	Special function	Electrical entry	ator	Wiring (Output)			C AC	Per	rpendicular	In-line		0.5 1		3 5		None	Pre-wired connector	Applicable load		
		entry	Indicator light	(Output)	L L	DC AC		ø12	ø16, ø20, ø32 to ø50	ø12	ø16, ø20, ø32 to ø50	(Nil)	(M)	(L)	(Z)	(N)	COMMODICA	iodu	au	
		Grommet	et l	3-wire (NPN)	5 V, 12 V			M9NV		M9N	•			0	_	0	IC airouit			
				3-wire (PNP)				M9PV	M9P	•	•		0	_	0	O IC circuit				
듯				O wire		12 V 5 V, 12 V —			M9BV		M9B	•			0	_	0			
switch		Connector		2-wire				_ J79C		_	•	_		•	•	_				
Solid state sv	Diagnostic indication	, l	irommet S	3-wire (NPN)				N	//9NWV		M9NW	•			0	_	0	IC circuit	Relay,	
	(2-color indication)			3-wire (PNP)	12 V		N	/I9PWV		M9PW	•	•		0	_	0	IC CIICUII	PLC		
				2-wire			N	/I9BWV		M9BW	•			0	_	0]0		
	Water resistant (2-color indication)			3-wire (NPN)		5 V,		M9NAV		M9NA	0	0		0	_	0	IC circuit			
				3-wire (PNP)		12 V	12 V 12 V		И9РАV		M9PA	0	0		0	_	0	10 circuit		
				2-wire		12 V			M9BAV		M9BA	0	0		0	_	0	_		
	With diagnostic output (2-color indication)			4-wire		5 V,12 V			_	_	F79F	•	_		0	_	0	IC circuit		
			9	S	3-wire (NPN equivalent)	_	5V	_		A96V		A96	•	-	•	_	_	_	IC circuit	_
ch					200 V	_	A72	_	A72H	•	I —	•	_	_	_					
Reed switch					12 V	100 V		A93V		A93	•	1-	•	_	_	_	_			
ed 8		2-wire 24 V 5 V,12 V 100 V or less A90V 12 V — A73C 5 V,12 V 24 V or less — A80C	2	2 wire		5 V,12 V 100 V or less		A90V		A90	•	-		_	_		IC circuit	Relay,		
æ				_	•		•	•	•	_	_	PLC								
			Connector	2			5 V,12 V	24 V or less	_	A80C		_	•	_	•	•	•		IC circuit]
	Diagnostic indication (2-color indication)	Grommet	Yes	1		_	_	_	A79W		_	•					_	_]	

* Lead wire length symbols: 0.5 m Nil (Example) M9NW

1 m M (Example) M9NWM (Example) M9NWL

3 m----- L (Example) M9NWZ 5 m Z

None ········ N (Example) J79CN

D-□

-X□

Individual -X□

* Solid state auto switches marked with "O" 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.

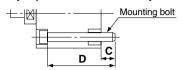
Stopper Cylinder / Fixed Mounting Height $\,$ Series RSQ

Mounting Bolt for RSQB

Mounting method: Mounting bolt for through-hole mounting style of RSQB is available as an option.

Ordering: Add the word "Bolt" in front of the bolts to be used.

Example) Bolt M5 x 65L 4 pcs.



Cylinder model	С	D	Mounting bolt		
RSQB12-10□ Note)	5	40	M3 x 45L		
RSQB16-10□		48	M3 x 55L		
-15□		53	M3 x 60L		
RSQB20-10□	7	55	M5 x 55L		
-15□		60	M5 x 60L		
-20□		65	M5 x 65L		
RSQB32-10□		60	M5 x 60L		
-15□	9	65	M5 x 65L		
-20□		70	M5 x 70L		
Nieta Villaga valiagitlagitlagi bala garavatiga fay					

			(mm)
Cylinder model	С	D	Mounting bolt
RSQB40-20□	9.5	75	M5 x 75L
-25□		80	M5 x 80L
-30□		85	M5 x 85L
RSQB50-20□	9	75	M6 x 75L
-25□		80	M6 x 80L
-30□		85	M6 x 85L

Note) When using the through-hole mounting for a size ø12 cylinder, be sure to use the flat washer which is attached.

Operating Ranges by Rod End Configuration

(Example 1) For roller type with transfer speed of 15 m/min. and the mass of transferred object of 30 kg.

<How to read the graphs>

To select a cylinder based on the specifications above, find the intersection of the speed of 15 m/min. on the horizontal axis and the mass of 30 kg on the vertical axis in graph (1) below, and select **RSQ**□40-□□**R** that falls in the cylinder operating range.

(Example 2) Transfer speed of 15 m/min., Mass of transferred object of 60 kg, Friction coefficient μ = 0.1, Lever type (Lever type with lock mechanism)

<How to read the graphs>

To select a cylinder based on the specifications above, find the intersection of the speed of 15 m/min. on the horizontal axis and the mass of 60 kg on the vertical axis in graph (3) below, and select RSQ 40- D that falls in the cylinder operating range.

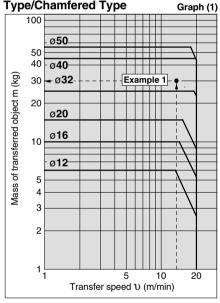


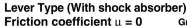
RSG

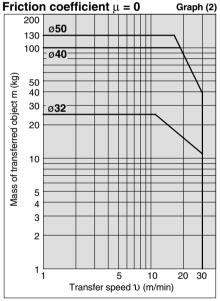
RS□

MI□

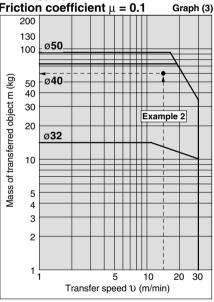
Roller Type/Round Bar Type/Chamfered Type







Lever Type (With shock absorber) Friction coefficient $\mu = 0.1$ Gra

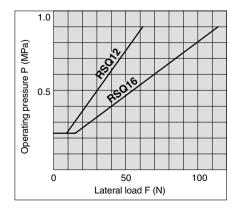


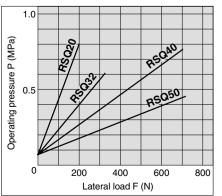
- Lever-type mass of transferred object and transfer speed graphs (graphs (2) and (3)) show the values at room temperature (20 to 25°C).
- * When selecting cylinders, confirm the Specific Product Precautions as well.

Lateral Load and Operating Pressure

The larger the lateral load, the higher the operating pressure required for the stopper cylinder. Set the operating pressure using the graphs as a guide.

(Applicable for round bar, roller and chamfered type rod end configurations.)





D
-X

Individual

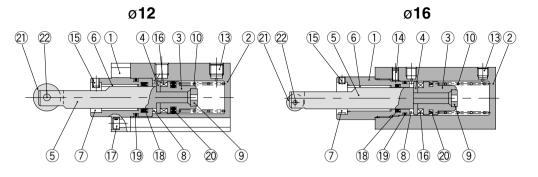
-X□

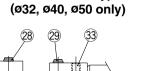


Series RSQ

Construction

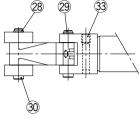
Roller rod end

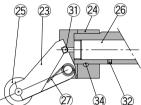




Lever rod end type

Built-in shock absorber







Round bar rod end type (D)

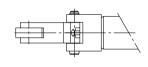
21) 22 (5) (7)

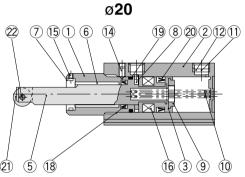
Chamfered rod end type (K)

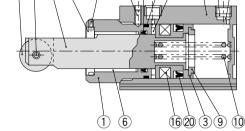
ø32, ø40, ø50

14 18 19 8

Only one roller is provided for ø32.







Con	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					
Rolle	r type						
21	Roller A	Resin					
22	Spring pin	Carbon tool steel					

Component Parts (For single acting)

	beinpenent i arte (i ei eingle aeung)					
No.	Description	Material	Note			
Leve	er type					
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

riopiacoment i arto, e car i vit							
Doro o	Bore size (mm)						
		Double acting	Double acting with spring loaded	Single acting	Contents		
12		RSQ12D-PS	RSQ1:	2T-PS			
16		RSQ16D-PS	RSQ16B-PS	RSQ16T-PS			
20		RSQ20D-PS	RSQ20B-PS	RSQ20T-PS	Set of above nos.		
32		RSQ32D-PS	RSQ32B-PS	RSQ32T-PS	18, 19, 20		
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		