

Shock Absorber Series RB

Impact and noise absorption

Dampening to meet the high speed requirements of the modern world.

Shock Absorber: Series RB Coolant Resistant: Series RBL

Usable without a stopper nut
The strong body can be positioned directly.

Short Style Shock Absorber: Series RBQ

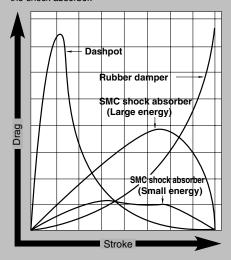
A compact style that has been shortened lengthwise

Allowable eccentric angle 5° Suitable for absorption of rotation energy.

Usable without a stopper nut
The strong body can be positioned directly.

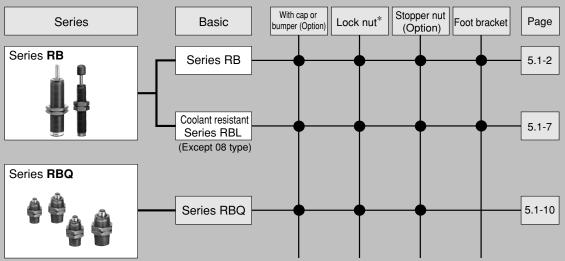
Automatic adjustment to the most appropriate absorption performance

Specially designed orifice can absorb energy comprehensively and most appropriately in many different applications. This ranges from high speed low loads, to low speed high loads; without requiring additional adjustment of the shock absorber.





Variations



*2 lock nuts are attached for series RB and standard models RBQ.



Shock Absorber Series RB

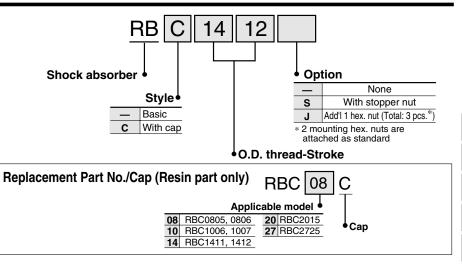


Specifications

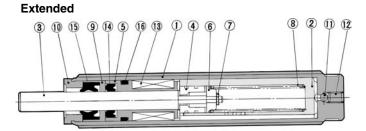
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Mod	املم	Basic	RB0805	RB0806	RB1006	RB1007	RB1411	RB1412	RB2015	RB2725
IVIO	aei	With cap	RBC0805	RBC0806	RBC1006	RBC1007	RBC1411	RBC1412	RBC2015	RBC2725
Max. ene	ergy abs	orption (J)	0.98	2.94	3.92	5.88	14.7	19.6	58.8	147
Stroke a	absorpti	on (mm)	5	6	6	7	11	12	15	25
Impact	ct speed (m/s) 0.05 to 5									
Max. ope	eration* (cycle/min) 80 80 70 70 45 45 25					10				
Max. allow	Max. allowable thrust energy (N)			245	422	422	814	814	1961	2942
Allowable	e temp. ı	ange (°C)			_	10 to 80 (ľ	No freezinç	g)		
Spring	Ex	tended	1.96	1.96	4.22	4.22	6.86	6.86	8.34	8.83
force ((N) Co	mpressed	3.83	4.22	6.18	6.86	15.30	15.98	20.50	20.01
Weight	t (g)		15 15 25 25 65 65 150					360		
0 11	Stoppe	Basic	RB	08S	RB	10S	RB14S		RB20S	RB27S
Option	Option nut With cap RBC08S		08S	RBC	10S	RBC	14S	RBC20S	RBC27S	

 $^{* \} At \ max. \ energy \ absorption \ per \ cycle. \ Max. \ operation \ cycle/min \ can \ increase \ in \ proportion \ to \ energy \ absorption.$

How to Order



Construction



Compressed



Component Parts

No.	Description	Material	Note
1	Outer tube	Rolled steel	Gray coated
2	Inner tube	Special steel	Heat treatment
3	Piston rod	Special steel	Hard chrome plated
4	Piston	Special steel	Heat treatment
(5)	Bearing	Special bearing material	
6	Spring guide	Rolled steel	Zinc chromated
7	Pushing nut	Steel for spring	
8	Return spring	Piano wire	Zinc chromated
9	Seal holder	Copper alloy	
10	Stopper	Carbon steel	Zinc chromated
11)	Steal ball	Bearing steel	
12	Set screw	Special steel	
13	Accumulator	NBR	Foam rubber
14)	Rod seal	NBR	
15	Scraper	NBR	
16	Gasket	NBR	

D -X

RB

20-

Technical

Data

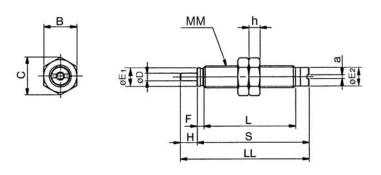
5.1-2



Series RB

Dimensions

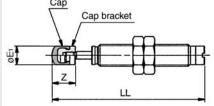
Basic/RB0805, RB0806, RB1006, RB1007



With cap/RBC0805, RBC0806

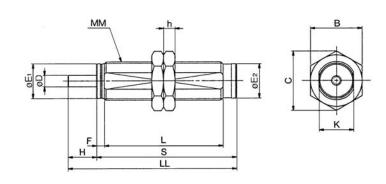
RBC1006, RBC1007

* Other dimensions are the same as the basic style.

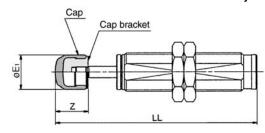


Mo		Basic								With cap*			Hexagon nut				
Basic	With cap	D	E1	E2	F	Н	а	L	LL	MM	S	E1	LL	Z	В	С	h
RB0805	RBC0805	2.8	6.8	6.8	2.4	5	1.4	33.4	45.8	M8 X 1.0	40.8	6.8	54.3	8.5	12	13.9	4
RB0806	RBC0806	2.8	6.8	6.8	2.4	6	1.4	33.4	46.8	M8 X 1.0	40.8	6.8	55.3	8.5	12	13.9	4
RB1006	RBC1006	3	8.8	8.6	2.7	6	1.4	39	52.7	M10 X 1.0	46.7	8.7	62.7	10	14	16.2	4
RB1007	RBC1007	3	8.8	8.6	2.7	7	1.4	39	53.7	M10 X 1.0	46.7	8.7	63.7	10	14	16.2	4

Basic/RB1411, RB1412, RB2015, RB2725



With cap/RBC1411, RBC1412 RBC2015, RBC2725 * Other dimensions are the same as the basic style.



Mo	odel		Basic						V	/ith cap	*	Hexagon nut					
Basic	With cap	D	E1	E2	F	Н	K	L	LL	MM	S	E1	LL	Z	В	С	h
RB1411	RBC1411	5	12.2	12	3.5	11	12	58.8	78.3	M14 X 1.5	67.3	12	91.8	13.5	19	21.9	6
RB1412	RBC1412	5	12.2	12	3.5	12	12	58.8	79.3	M14 X 1.5	67.3	12	92.8	13.5	19	21.9	6
RB2015	RBC2015	6	18.2	18	4	15	18	62.2	88.2	M20 X 1.5	73.2	18	105.2	17	27	31.2	6
RB2725	RBC2725	8	25.2	25	5	25	25	86	124	M27 X 1.5	99	25	147	23	36	41.6	6

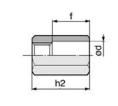
Hexagon Nut (2 pcs. as standard)

Option

Stopper nut

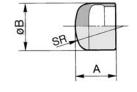
For basic style

For	cap	sty	е



Repla	aceme	nt	Pa	rt
Cap	*/Thoso	aro	tho	ron

parts for the cap style. Not available for the basic style.



D	ons		
MM	h	В	С
M8 X 1.0	4	12	13.9
M10 X 1.0	4	14	16.2
M14 X 1.5	6	19	21.9
M20 X 1.5	6	27	31.2
M27 X 1.5	6	36	41.6
	MM M8 X 1.0 M10 X 1.0 M14 X 1.5 M20 X 1.5	MM h M8 X 1.0 4 M10 X 1.0 4 M14 X 1.5 6 M20 X 1.5 6	M8 X 1.0 4 12 M10 X 1.0 4 14 M14 X 1.5 6 19 M20 X 1.5 6 27

Par	t No.		Dimensions										
Basic	With cap	В	С	h1	h2	MM	d	f					
RB08S	RBC08S	12	13.9	6.5	23	M8 X 1.0	9	15					
RB10S	RBC10S	14	16.2	8	23	M10 X 1.0	11	15					
RB14S	RBC14S	19	21.9	11	31	M14 X 1.5	15	20					
RB20S	RBC20S	27	31.2	16	40	M20 X 1.5	23	25					
RB27S	RBC27S	36	41.6	22	51	M27 X 1.5	32	33					

Material: Polyurethane Dimensions Part No. В RBC08C 6.5 6.8 6 RBC10C 8.7 7.5 RBC14C 12.5 12 10 RBC20C 18 20 RBC27C 21 25 25



