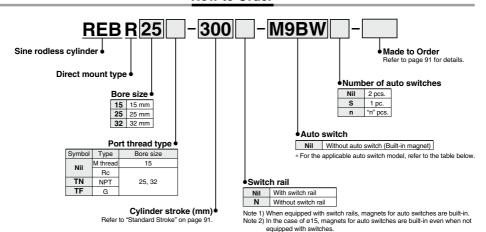
Sine Rodless Cylinder / Direct Mount Type **REBR** Series ø15, ø25, ø32

How to Order



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

		Electrical	light	145		Load volt	age		Lead	wire le	ength (m)	Pre-wired						
Туре	Special function	entry	Indicator	Wiring (Output)	D	С	AC	Auto switch model		1 (M)	3 (L)	5 (Z)	connector	Applica	ble load				
_				3-wire (NPN)		5 V 40 V		M9N	•	•	•	0	0	IC circuit					
호	_			3-wire (PNP)		5 V, 12 V		M9P	•	•	•	0	0	IC CIICUII					
switch				2-wire		12 V 5 V, 12 V 12 V					12 V	M9B	•	•	•	0	0	_	
anto	Di cara di cara			3-wire (NPN)							E V 10 V	E V 10 V]	M9NW	•	•	•	0	0
aı	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (PNP)	24 V		_	M9PW	•	•	•	0	0	I C CII CUIT	Relay, PLC				
state				2-wire			1	M9BW	•	•	•	0	0	_	' - 0				
g	144.1			3-wire (NPN)		5 V. 12 V]	M9NA*1	0	0	•	0	0	IC circuit					
Solid	Water resistant (2-color indicator)			3-wire (PNP)		5 V, 12 V	5 V, 12 V	3 V, 12 V	5 V, 12 V		M9PA*1	0	0	•	0	0	IC CIICUII		
0)	(2-color indicator)			2-wire		12 V	1	M9BA*1	0	0	•	0	0	_					
Reed auto switch			,es	3-wire (NPN equivalent)	_	5 V	_	A96	•	-	•	_	_	IC circuit	_				
e s	_	Grommet	ĺ	2-wire	24 V	12 V	100 V	A93	•	•	•	•	_	_	Relay,				
aff			ž	2-wire	24 V	12 V	100 V or less	A90	•	<u> </u>	•	_	_	IC circuit	PLC				

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

- *1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Consult with SMC regarding water resistant types with the above model numbers.
- * Lead wire length symbols: 0.5 m Nil (Example) M9NW

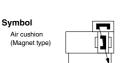
 - 1 m..... M (Example) M9NWM 3 m..... L (Example) M9NWL 5 m.... Z (Example) M9NWZ
- * Since there are other applicable auto switches than listed, refer to page 94 for details
- * For details about auto switches with pre-wired connector, refer to pages 1014 and 1015.
- * Auto switches are shipped together (not assembled).



Sine Rodless Cylinder **REBR Series**

Specifications





	1
Made to Order	Made to Order Specifications

Olde	Click here for details
Symbol	Specifications
-XC57	With Floating Joint

Bore size (mm)	15 25 32							
Fluid	Air							
Proof pressure	1.05 MPa							
Maximum operating pressure	0.7 MPa							
Minimum operating pressure	0.18 MPa							
Ambient and fluid temperature	-10	0 to 60°C (No freezi	ng)					
Piston speed (Max.) Note)		50 to 600 mm/s						
Lubrication	Not required (Non-lube)							
Stroke length tolerance (mm)	0 to 250 st: +1.0, 251 to 1000 st: +1.4, 1001 st and up to:							
Holding force (N)	137 363 588							

Note) Piston speed above indicates the maximum speed. It takes approximately 0.5 seconds (for one side) after the body moves from the stroke end until it goes through the cushion stroke, while it takes approximately 1 second for both sides.

Standard Stroke

Bore size (mm)	Standard stroke (mm)	Maximum manufacturable stroke (mm)	Maximum stroke with switch (mm)
15	150, 200, 250, 300, 350, 400 450, 500	1000	750
25 32	200, 250, 300, 350, 400, 450 500, 600, 700, 800	2000	1500

Note) Intermediate stroke is available in 1 mm increments.

Weight

				(kg)
Item	Bore size (mm)	15	25	32
Basic weight	REBR□ (with switch rail)	0.277	0.660	1.27
(for 0 st)	REBR□-□N (without switch rail)	0.230	0.580	1.15
	weight per each 50 mm of stroke ipped with switch rail)	0.045	0.083	0.113
	weight per each 50 mm of stroke equipped with switch rail)	0.020	0.050	0.070

- Cylinder stroke ------ 500 (st)
 0.660 + 0.083 x 500 ÷ 50 = 1.49 kg

REA REB REC Smooth Low Speed

MQ

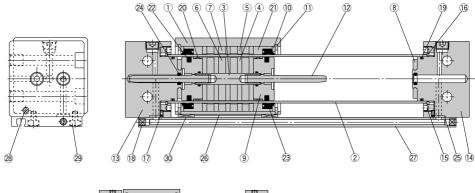
RHC

RZQ



REBR Series

Construction: Ø15, Ø25, Ø32





REBR15

Component Parts

No.	Description	Material	No	ote	
1	Body	Aluminum alloy	Hard a	nodized	
2	Cylinder tube	Stainless steel			
3	Shaft	Stainless steel			
4	Piston side yoke	Rolled steel plate	Zinc ch	romated	
5	External slider side yoke	Rolled steel plate	Zinc ch	romated	
6	Magnet A	_			
7	Magnet B	_			
8	Bumper	Urethane rubber	Except REBR15		
9	Piston	Aluminum alloy	Chromated		
10	Spacer	Rolled steel plate	Nickel plated		
11	Retaining ring	Carbon tool steel	Phosphate coated		
12	Cushion ring	Stainless steel		Compound electroless	
	Cusilion ring	Brass	REBR32	nickel plated	
13	End cover A	Aluminum alloy	Hard a	nodized	
14	End cover B	Aluminum alloy	Hard a	nodized	
15	Attachment ring	Aluminum alloy	Hard a	nodized	
16	Type C retaining ring	Hard steel wire material	Nickel plate	ed (REBR15)	
10	for axis	Stainless steel	REBI	R25, 32	
17	Hexagon socket head set screw	Chromium steel	Nicke	l plated	
18	Hexagon socket head plug	Chromium steel	Nicke	l plated	
19	Cylinder tube gasket	NBR			

Component Parts

No.	Description	Material	Note
INO.	Description	iviateriai	Note
20	Wear ring A	Special resin	
21	Wear ring B	Special resin	
22	Piston seal	NBR	
23	Scraper	NBR	
24	Cushion seal	NBR	
25	Switch rail gasket	NBR	
26	Magnetic shielding plate	Rolled steel plate/Chromated	
27	Switch rail	Aluminum alloy/Clear anodized	
28	Magnet	_	
29	Hexagon socket head cap screw	Chromium steel/Nickel plated	
30	Wear ring C	Special resin	

Replacement Parts: Seal Kit

Bore size (mm)	Kit no.	Contents				
15	REBR15-PS	A set of (19, 20, 21, 22, 23, 24,				
25	REBR25-PS	25, 30 listed above				
32	REBR32-PS	above				

Note) Cushion seal 24 may be difficult to be replaced.

Seal kit includes a grease pack (10 g).
 Order with the following part number when only the grease pack is needed.
 Grease pack part no.: GR-S-010 (10 g)

Switch Rail Accessory Kit



Switch Rail Accessory Kit

Bore size (mm)	Kit no.	Contents			
15	CYR15E-□	Above nos. 26, 27, 28,			
25	CYR25E-□	29, 30			
32	CYR32E-□	6, 50			

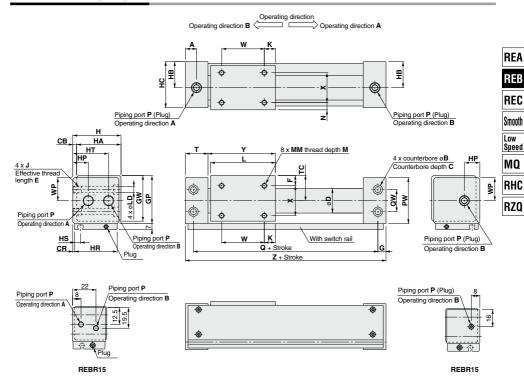
Note 1) ☐ indicates the stroke.

Note 2) ø15 has internal magnets in the body.



Sine Rodless Cylinder Direct Mount Type REBR Series

Dimensions: Ø15, Ø25, Ø32



																		(mm)
Model	Α	В	C	СВ	CR	D	F	G	GP	GW	Н	HA	HB	HC	HP	HR	HS	HT
REBR15	12	8	4.2	2	0.5	17	8	7	33	31.5	32	30	17	31	_	30	8.5	_
REBR25	12.5	9.5	5.2	3	1	27.8	8.5	10	44	42.5	44	41	23.5	43	14.5	41	6.5	33.5
REBR32	19.5	11	6.5	3	1.5	35	10.5	16	55	53.5	55	52	29	54	20	51	7	39
					•		•									•		
Model	J	κE	K	L	LD	M	M	M	N		•	PW	Q	QW	Т	TC	w	WP
REBR15	M5 x 0	0.8 x 7	14	53	4.3	5	M4 :	x 0.7	6	M5:	k 0.8	32	84	18	21	17	25	_
REBR25	M6 x	1 x 8	15	70	5.6	6	M5:	x 0.8	6.5	1.	/8	43	105	20	25.5	22.5	40	21.5
REBR32	M8 x 1.	25 x 10	13	76	7	7	M6	x 1	8.5	1.	/8	54	116	26	33	28	50	27

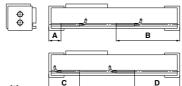
Model	X	Υ	Z
REBR15	18	54.5	98
REBR25	28	72	125
REBR32	35	79	148





REBR Series Auto Switch Mounting

Auto Switch Proper Mounting Position (Detection at Stroke End)



Auto Switch Proper Mounting Position Ø15. Ø25. Ø32

210, 200, 200								
Auto switch			В		С		D	
model Bore size	D-A9□	D-M9□ D-M9□W D-M9□A	D-A9□	D-M9□ D-M9□W D-M9□A	D-A9□	D-M9□ D-M9□W D-M9□A	D-A9□	D-M9□ D-M9□W D-M9□A
15	19.5	23.5	78.5	74.5	_	_	58.5	62.5
25	23	27	102	98	46	42	79	83
32	31.5	35.5	116.5	112.5	54.5	50.5	93.5	87.5

Note 1) Auto switches cannot be installed in Area C in the case of ø15.

Note 2) Adjust the auto switch after confirming the operating conditions in the actual setting.

Ø25, Ø32 (mm)						
Auto switch	Α	В	С	D		
model Bore size	D-Z7 D-Z80 D-Y59 D-Y7P D-Y7 W D-Y7BA	D-Z7□ D-Z80 D-Y59□ D-Y7P D-Y7□W D-Y7BA	D-Z7	D-Z7□ D-Z80 D-Y59□ D-Y7P D-Y7□W D-Y7BA		
25	22	103	47	78		
32	30.5	117.5	55.5	92.5		

Note) Adjust the auto switch after confirming the operating conditions in the actual setting.

Operating Range

			(mm)	
Andrewskele on adal	Bore size			
Auto switch model	15	25	32	
D-A9□	8	7.5	8	
D-M9□W D-M9□ D-M9□A	4.5	5.5	4.5	
D-Z7□/Z80	_	9	9	
D-Y5□/Y7P/Y7□W/Y7BA	_	7	6	

* Since this is a guideline including hysteresis, not meant to be guaranteed. (assuming approximately $\pm 30\%$ dispersion)

There may be the case it will vary substantially depending on an ambient environment.

Auto Switch Specifications

(mm)

Auto switch model	Bore size	
Auto switch model	ø25, ø32	
D-A9□ D-M9□ D-M9□W D-M9□A	BMG2-012	
D-A9□/M9□/M9□V	V/M9□A BMG2-012	

(mm)

Other than the models listed in "How to Order", the following auto switches are applicable. For detailed specifications, refer to pages 941 to 1067.

Auto switch type	Model	Electrical entry (Fetching direction)	Features	Applicable bore size			
Dead	D-Z73, Z76	Grommet (In-line)	_	ø25, ø32 r)			
Reed	D-Z80	Gioninet (in-line)	Without indicator light				
	D-Y59A, Y59B, Y7P		_				
Solid state	D-Y7NW, Y7PW, Y7BW	Grommet (In-line)	Diagnostic indication (2-color indicator)				
	D-Y7BA		Water resistant (2-color indicator)				

For solid state auto switches, auto switches with a pre-wired connector are also available. Refer to pages 1014 and 1015 for details.
 Normally closed (NC = b contact) solid state auto switches (D-M9□E(V)/Y7G/Y7H) are also available. Refer to pages 1592-1 and 961 for details.