

Consult with SMC regarding water resistant types with the above model numbers. *2 1 m type lead wire is only applicable to D-A93

> (Example) M9NW * Solid state auto switches marked with "O" are produced upon receipt of order.

n

Lead wire length (m)

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• • 0

. .

• ٠

C

. 0

•

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0

• • 0

1 3 5

0.5

(Nil) (M) (L) (Z)

-• . • Pre-wired

connecto

C

Applicable load

PLC

Relay,

IC circuit

IC circuit Relay,

IC circuit

IC circuit

IC circuit PLC

Nil Without auto switch (Built-in magnet)

Auto switch

Stroke adjustment unit symbol

Auto switch model

In-line

M9N

M9P

M9B

M9NW

M9PW

M9BW

M9NA*1

M9PA*1

M9BA*1

A96

A93

A90

Perpendicular

M9NV

M9PV

M9BV

M9NWV

M9PWV

M9BWV

M9NAV*1

M9PAV*1

M9BAV*1

A96V

A93V*2

A90V

For stroke adjustment unit, refer to page 1189.

- * Lead wire length symbols: 0.5 m -..... Nil 1 m ·
 - ... М (Example) M9NWM 3 m L (Example) M9NWL

Symbol Type Nil Bc

Standard

Centralized piping type

Piping

Applicable Auto Switches/Refer to pages 1575 to 1701 for further information on auto switches

Wiring

(Output)

3-wire (NPN)

3-wire (PNP)

2-wire

3-wire (NPN)

2-wire

3-wire (NPN)

3-wire (PNP)

2-wire

3-wire

(NPN equivalent) Yes Grommet

2-wire

No

Yes 3-wire (PNP)

Cylinder stroke (mm)

Maximum manufacturable stroke

(mm)

5000

Load voltage

5 V. 12 V

12 V

5 V. 12 V

12 V

5 V, 12 V

12 V

5 V

12 V

*1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.

AC

100 V

100 V or less

DC

24 V

24 V

TN NPT

TF G

Nil

G

Standard stroke (mm)*

Electrical

entry

Grommet

Strokes are manufacturable in 1 mm increments, up to the maximum stroke. However, please be advised that with stroke 49 or less, there are cases where auto switch mounting is not possible and the performance of the air cushion may decline. Also when exceeding a 2000 mm stroke, specify "-XB11" at the end of the part number. For details, refer to the

100,200,300,400,500,600

700,800,900,1000,1200

1400,1600,1800,2000

Made-to-Order specifications.

Special function

Diagnostic indication

(2-color indicator)

Water resistant

(2-color indicator)

Bore size

(mm)

25, 32, 40

Type

switch

Solid state auto

auto switch

Reed

(Example) M9NWZ 5 m .. Z

* There are other applicable auto switches other than the listed above. For details, refer to page 1197.

* For details about auto switches with pre-wired connector, refer to pages 1648 and 1649

* Auto switches are shipped together, (but not assembled).

SMC

Mechanically Jointed Rodless Cylinder Basic Type MY1B Series

32

Air

Double acting 0.1 to 0.8 MPa

1.2 MPa

5 to 60°C

Air cushion

Non-lube 2700 or less+1.8, 2701 to 5000+2.8

Rc1/8

Ø6

Note 1) Be aware that when the stroke adjustment range is increased with the adjustment bolt,

on page 1191, the piston speed should be 100 to 200 mm/s. Note 2) The piston speed is 100 to 1000 mm/s for centralized piping.

Note 3) Use at a speed within the absorption capacity range. Refer to page 1191. Note 4) Due to the construction of this product, it may have more fluctuation in operating speed

the air cushion capacity decreases. Also, when exceeding the air cushion stroke ranges

compared to a rod type air cylinder. For applications that require constant speed, select

40

Bc1/4

ø8

25 to 40

100 to 1000 mm/s

100 to 1000 mm/s Note 1)

100 to 1500 mm/s Note 2)

25



	Y <u>+</u> _
de 10 rder	Made to Order: Individual Specifications
	(For details, refer to page 1198.)

Ma O Symbol Specifications

Helical insert thread

Made to Order

-X168

k here for details

Symbol	Specifications					
-XB11	Long stroke					
-XB22	Shock absorber/ soft type RJ series mounted					

*For details about Copper/Fluorine-free Specifications, refer to the SMC website.

Stroke Adjustment Unit Specifications

ou ono naja	ounione onne op	comoutor								
Bore size (mm)		25			32			40		
Unit symbol		A	L 🦳	H	A	L	Н	A	L	Н
Configuration Shock absorber model		With adjustment bolt	RB1007 + with adjustment bolt	RB1412 + with adjustment bolt	With adjustment bolt	RB1412 + with adjustment bolt	RB2015 + with adjustment bolt	With adjustment bolt	RB1412 + with adjustment bolt	RB2015 + with adjustment bolt
Stroke adjustment	Without Spacer		0 to -11.5			0 to -12			0 to -16	
range by Intermediate	With short spacer		-11.5 to -23	-12 to -24			-16 to -32			
fixing spacer (mm)	With long spacer		-23 to -34 5			-24 to -36			-32 to -48	

SMC

Specifications Bore size (mm)

Operating pressure range Proof pressure

Stroke length tolerance

Piston Speed

adjustment unit

Ambient and fluid temperature

Without stroke adjustment unit

Front/Side port

Bore size (mm)

A unit

L unit. H unit

the equipment corresponding to the required level.

Bottom port

Fluid

Action

Cushion

Lubrication

Piping port

size

Stroke

* Stroke adjustment range is applicable for one side when mounted on a cylinder.

Stroke Adjustment Unit Symbol

		1.00			Right s	ide stroke	e adjustm	ent unit				
		Without	A:With adjustment bolt		L:With low load shock absorber + Adjustment bolt			H:With high load shock absorber + Adjustment bol				
			unit		With short spacer	With long spacer		With short spacer	With long spacer		With short spacer	With long spacer
ŧ	Wit	hout unit	Nil	SA	SA6	SA7	SL	SL6	SL7	SH	SH6	SH7
Ē	A:With a	djustment bolt	AS	Α	AA6	AA7	AL	AL6	AL7	AH	AH6	AH7
ner	_	With short spacer	A6S	A6A	A6	A6A7	A6L	A6L6	A6L7	A6H	A6H6	A6H7
ustr		With long spacer	A7S	A7A	A7A6	A7	A7L	A7L6	A7L7	A7H	A7H6	A7H7
adj	L:With low lo	ad shock absorber +	LS	LA	LA6	LA7	L	LL6	LL7	LH	LH6	LH7
ş	Adjustment	With short spacer	L6S	L6A	L6A6	L6A7	L6L	L6	L6L7	L6H	L6H6	L6H7
stro	bolt	With long spacer	L7S	L7A	L7A6	L7A7	L7L	L7L6	L7	L7H	L7H6	L7H7
de	H:With high lo	ad shock absorber +	HS	HA	HA6	HA7	HL	HL6	HL7	H	HH6	HH7
ftsi	Adjustment	With short spacer	H6S	H6A	H6A6	H6A7	H6L	H6L6	H6L7	H6H	H6	H6H7
٤	bolt	With long spacer	H7S	H7A	H7A6	H7A7	H7L	H7L6	H7L7	H7H	H7H6	H7

* Spacers are used to fix the stroke adjustment unit an intermediate stroke position

Shock Absorber Model for L and H Units

Turno	Stroke	В	n)	
туре	adjustment unit	25	32	40
Standard	L	RB1007	RB1	412
Stanuaru	н	RB1412	RB2	2015
Shock absorber/	L	RJ1007H	RJ14	112H
soft type (-XB22)	н	RJ1412H		

60.0

Shock Absorber Specifications

Model		RB1007	RB1412	RB2015		
Max. energy	absorption (J)	5.9	19.6	58.8		
Stroke abso	rption (mm)	7	12	15		
Max. collision speed (mm/s)		1500	1500 1500			
Max. operating frequency (cycle/min)		70	45	25		
Spring force	Extended	4.22	6.86	8.34		
(N)	Retracted	6.86	15.98	20.50		
Operating temp	erature range (°C)		5 to 60			

* The shock absorber service life is different from that of the MY1B cylinder depending on operating conditions. Refer to the Series RB Specific Product Precautions for the replacement period.

Stro	ke adjustment unit mou	nting diagram
	Stroke adjustment unit	
_	6.0	Intermediate
		fixing spacer
olt		
7	- scerleng	~ 15

Example of H6H7 attachment

Left side	Right side
H unit	H unit
Short spacer	Long spacer
Port	Port

D-🗆
-X□
Technical Data

МҮЗА MY3B MY3M

MY2C

MY2

H/HT

MY1B

MY1H

MY1B

MY1M

MY1C MY1H MY1 ΗT MY1 <u></u>W

1189 A