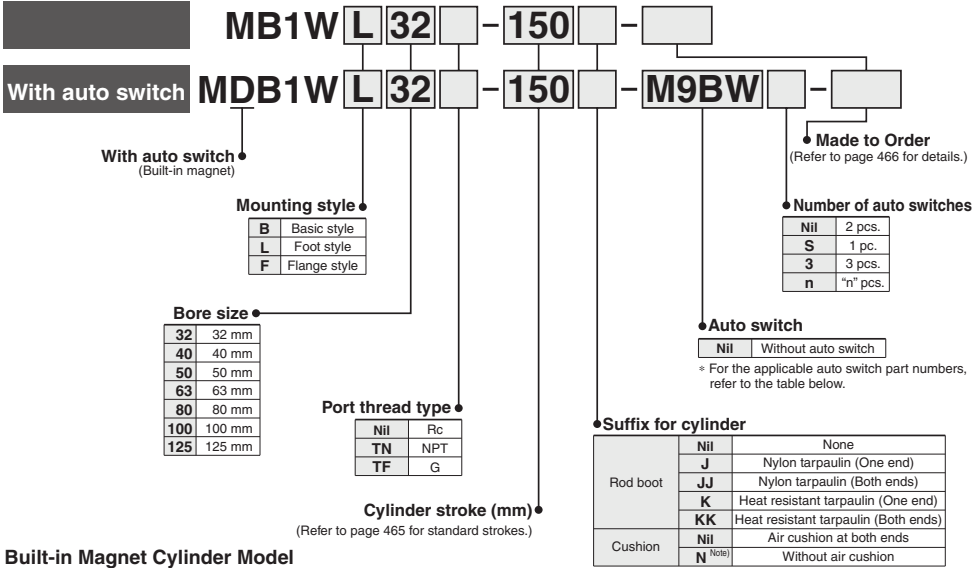


# Square Tube Type Air Cylinder: Standard Type Double Acting, Double Rod Series **MB1W** ø32, ø40, ø50, ø63, ø80, ø100, ø125

## How to Order



### 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) MDB1WB40-100

Note) In the case of w/o air cushion, it comes with rubber bumper.  
Besides, the overall length is longer than the cylinder with air cushion as follows, because the bumpers are attached to the both sides of the piston: ø32, ø40: +6 mm, ø50, ø63: +8 mm, ø80, ø100: +10 mm, ø125: +12 mm.

### Applicable Auto Switches/Refer to pages 1559 to 1673 for further information on auto switches.

Type	Special function	Electrical entry	Indicate 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)			
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	<b>M9NV</b>	<b>M9N</b>	●	●	●	○	IC circuit	Relay, PLC
				3-wire (PNP)				<b>M9PV</b>	<b>M9P</b>	●	●	○	○		
				2-wire	<b>M9BV</b>	<b>M9B</b>	●	●	○	○					
	3-wire (NPN)			<b>M9NVV</b>	<b>M9NW</b>	●	●	○	○						
	3-wire (PNP)			<b>M9PVV</b>	<b>M9PW</b>	●	●	○	○						
	2-wire			<b>M9BVV</b>	<b>M9BV</b>	●	●	○	○						
Water resistant (2-color indication)	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	<b>M9NAV</b> **	<b>M9NA</b> **	○	○	●	○	IC circuit	—
				3-wire (PNP)				<b>M9PAV</b> **	<b>M9PA</b> **	○	○	●	○		
				2-wire	<b>M9BAV</b> **	<b>M9BA</b> **	○	○	○	○					
Reed auto switch	—	Grommet	No	3-wire (NPN equivalent)	24 V	12 V	100 V or less	<b>A96V</b>	<b>A96</b>	●	—	●	—	IC circuit	—
				2-wire				<b>A93V</b>	<b>A93</b>	●	—	●	—		
								<b>A90V</b>	<b>A90</b>	●	—	●	—	IC circuit	Relay, PLC

\*\* 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) M9NWL

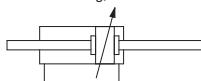
\* Solid state auto switches marked with "○" are produced upon receipt of order.

\* Since there are other applicable auto switches than listed above, refer to page 474 for details.  
\* For details about auto switches with pre-wired connector, refer to pages 1626 and 1627.  
\* Auto switches are shipped together (not assembled).

# Square Tube Type Air Cylinder: Standard Type Double Acting, Double Rod *Series MB1W*



**Symbol**  
Double acting, Air cushion



## Standard Stroke

Bore size (mm)	Standard stroke (mm)
32	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500
40	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500
50	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600
63	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600
80	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800
100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800
125	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 1000

Intermediate strokes are available, too.  
(Spacer is not used.)

## Rod Boot Material

Symbol	Rod boot material	Max. ambient temperature
J	Nylon tarpaulin	70°C
K	Heat resistant tarpaulin	110°C

\* Maximum ambient temperature for the rod boot itself.

## Mounting Bracket Part No.

Bore size (mm)	32	40	50
Foot	MB-L03	MB-L04	MB-L05
Flange	MB-F03	MB-F04	MB-F05

Bore size (mm)	63	80	100
Foot	MB-L06	MB-L08	MB-L10
Flange	MB-F06	MB-F08	MB-F10

Bore size (mm)	125
Foot	MB-L12
Flange	MB-F12

Note) Order two foot brackets per cylinder.

Refer to pages 473 and 474 for cylinders with auto switches.

- Minimum auto switch mounting stroke
- Proper auto switch mounting position (detection at stroke end) and mounting height
- Operating range
- Switch mounting bracket: Part no.

## Specifications

Bore size (mm)	32	40	50	63	80	100	125
<b>Action</b>	Double acting, Double rod						
<b>Fluid</b>	Air						
<b>Proof pressure</b>	1.5 MPa						
<b>Maximum operating pressure</b>	1.0 MPa						
<b>Minimum operating pressure</b>	0.05 MPa						
<b>Ambient and fluid temperature</b>	Without auto switch -10 to 70°C (No freezing)						
	With auto switch -10 to 60°C (No freezing)						
<b>Lubrication</b>	Not required (Non-lube)						
<b>Piston speed</b>	50 to 1000 mm/s						50 to 700 mm/s
<b>Stroke length tolerance</b>	Up to 250: $^{+1.0}_0$ , 251 to 800: $^{+1.4}_0$						
<b>Cushion</b> <small>(Note)</small>	Both ends (Air cushion) <small>(Note)</small>						
<b>Port size (Rc, NPT, G)</b>	1/8	1/4		3/8			1/2
<b>Mounting</b>	Basic style, Foot style, Flange style						

Note) In the case of w/o air cushion, it comes with rubber bumper.

Kinetic energy absorbable by the cushion mechanism is identical to double acting, single rod.

## Accessory

Mounting		Basic style	Foot style	Flange style
Standard equipment	Rod end nut	●	●	●
Option	Single knuckle joint	●	●	●
	Double knuckle (With pin)	●	●	●
	Rod boot	●	●	●

## Theoretical Output



Bore size (mm)	Rod size (mm)	Operating direction	Piston area (mm <sup>2</sup> )	Operating pressure (MPa)										
				0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0		
32	12	IN/OUT	691	138	207	276	346	415	484	553	622	691		
40	16	IN/OUT	1056	211	317	422	528	634	739	845	950	1056		
50	20	IN/OUT	1649	330	495	660	825	989	1154	1319	1484	1649		
63	20	IN/OUT	2803	561	841	1121	1402	1682	1962	2242	2523	2803		
80	25	IN/OUT	4536	907	1361	1814	2268	2722	3175	3629	4082	4536		
100	30	IN/OUT	7147	1429	2144	2859	3574	4288	5003	5718	6432	7147		
125	32	IN/OUT	11468	2294	3440	4588	5734	6881	8028	9174	10321	11468		

Note) Theoretical output (N) = Pressure (MPa) x Piston area (mm<sup>2</sup>)

## Weight

Bore size (mm)		32	40	50	63	80	100	125
Basic weight	Basic style	0.59	0.82	1.39	1.72	3.22	4.27	6.68
	Foot style	0.71	0.96	1.61	2.0	3.72	4.93	8.76
	Flange style	0.88	1.19	1.84	2.51	4.67	7.58	10.86
Additional weight per each 50 mm of stroke	All mounting brackets	0.20	0.29	0.41	0.45	0.75	1.0	1.25
	Accessory bracket							
Accessory bracket	Single knuckle	0.15	0.23	0.26	0.26	0.60	0.83	1.10
	Double knuckle (With pin)	0.22	0.37	0.43	0.43	0.87	1.27	0.91

Calculation:

(Example) **MB1WB32-100** (Basic style/ø32, 100 st)

- Basic weight..... 0.59 kg
  - Additional weight..... 0.20/50 stroke
  - Cylinder stroke..... 100 stroke
- 0.59 + 0.20 x 100/50 = 0.99 kg

CJ1

CJP

CJ2  
-Z

CJ2

CM2  
-Z

CM2

CM3

CG1  
-Z

CG1

CG3

MB  
-Z

MB

MB1

CA2  
-Z

CA2

CS1

CS2

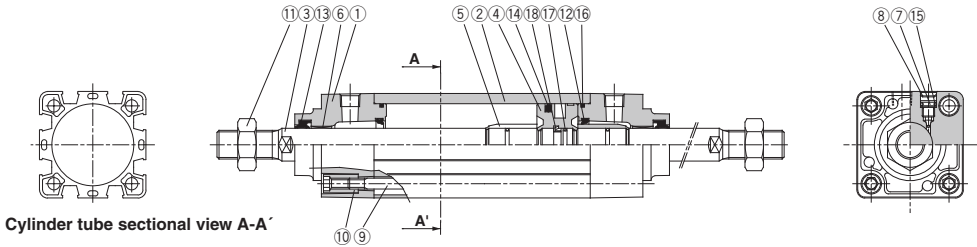
D-□

-X□

Technical data

# Series MB1W

## Construction



Cylinder tube sectional view A-A'

### Component Parts

No.	Description	Material	Note
1	Rod cover	Aluminum die-casted	Metallic painted
2	Cylinder tube	Aluminum alloy	Hard anodized
3	Piston rod	Carbon steel	Hard chrome plated
4	Piston	Aluminum alloy	Chromated
5	Cushion ring	Aluminum alloy	Anodized
6	Bushing	Lead-bronze casted	
7	Cushion valve	Steel wire	Nickel plated
8	Retaining ring	Spring steel	ø40 to ø100
9	Tie-rod	Carbon steel	Zinc chromated
10	Tie-rod nut	Carbon steel	Nickel plated
11	Rod end nut	Carbon steel	Nickel plated

No.	Description	Material	Note
12*	Cushion seal	Urethane	
13*	Rod seal	NBR	
14*	Piston seal	NBR	
15	Cushion valve seal	NBR	
16*	Cylinder tube gasket	NBR	
17	Piston gasket	NBR	
18	Piston holder	Urethane	

### Replacement Parts/Seal Kit

Bore size (mm)	Kit no.	Contents
32	MBW32-PS	
40	MBW40-PS	
50	MBW50-PS	Set of the above nos. (12, 13, 14, 16)
63	MBW63-PS	
80	MBW80-PS	
100	MBW100-PS	

\* Seal kit includes 12 to 14, 16. Order the seal kit, based on each bore size.

\* Seal kit includes a grease pack (ø32 to 50: 10 g, ø63, 80: 20 g, ø100: 30 g).

Order with the following part number when only the grease pack is needed.

Grease pack part number: GR-S-010 (10 g), GR-S-020 (20 g)



**Made to Order: Individual Specifications**  
(For details, refer to page 475.)

Symbol	Specifications
-XB46	Fastener strips mounted on switch mounting grooves

### Made to Order Specifications

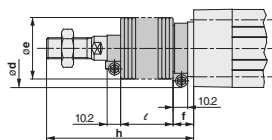
(For details, refer to pages 1675 to 1818.)

Symbol	Specifications
-XA□	Change of rod end shape
-XB6	Heat resistant cylinder (150°C)
-XC3	Special port location
-XC4	With heavy duty scraper
-XC5	Heat resistant cylinder (110°C)
-XC6	Piston rod and rod end nut made of stainless steel
-XC7	Tie-rod, cushion valve, tie rod nut, etc. made of stainless steel
-XC22	Fluororubber seals
-XC30	Rod side trunnion
-XC35	With coil scraper

# Square Tube Type Air Cylinder: Standard Type Double Acting, Double Rod **Series MB1W**

## Standard Type

### Basic style: (B)



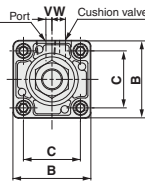
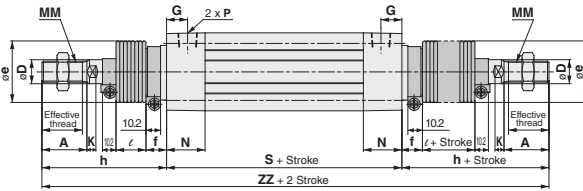
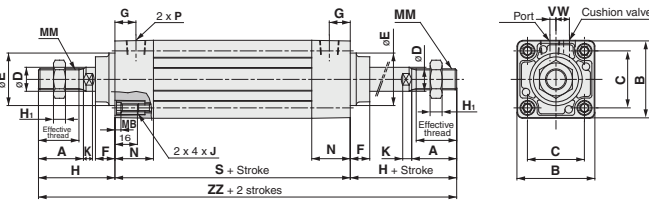
**With rod boot**

\* In the case of w/o air cushion, it comes with rubber bumper.

Besides, the overall length is longer than the cylinder with air cushion as follows, because the bumpers are attached to the both sides of the piston: ø32, ø40: +6 mm, ø50, ø63: +8 mm, ø80, ø100: +10 mm, ø125: +12 mm.

\*\* In the case of w/o air cushion, it comes with rubber bumper.

Besides, the overall length is longer than the cylinder with air cushion as follows, because the bumpers are attached to the both sides of the piston: ø32, ø40: +3 mm, ø50, ø63: +4 mm, ø80, ø100: +5 mm, ø125: +6 mm (in the case of trunnion style and trunnion pivot bracket).



Bore size (mm)	Stroke range	Effective thread length	Width across flats	With Air Cushion																Without Air Cushion					
				A	B	C	D	Ee11	F	G	H1	H	MA	MB	J	K	MM	N	P	S*	V	W	ZZ*	S	ZZ
<b>32</b>	Up to 500	19.5	10	22	46	32.5	12	30	13	13	6	47	16	4	M6 x 1	6	M10 x 1.25	26.5	1/8	84	4	6.5	178	90	184
<b>40</b>	Up to 500	27	14	30	52	38	16	35	13	14	8	51	16	4	M6 x 1	6	M14 x 1.5	26.5	1/4	84	4	9	186	90	192
<b>50</b>	Up to 600	32	18	35	65	46.5	20	40	14	15.5	11	58	16	5	M8 x 1.25	7	M18 x 1.5	31	1/4	94	5	10.5	210	102	218
<b>63</b>	Up to 600	32	18	35	75	56.5	20	45	14	16.5	11	58	16	5	M8 x 1.25	7	M18 x 1.5	31	3/8	94	9	12	210	102	218
<b>80</b>	Up to 800	37	22	40	95	72	25	45	20	19	13	72	16	5	M10 x 1.5	10	M22 x 1.5	37.5	3/8	114	11.5	14	258	124	268
<b>100</b>	Up to 800	37	26	40	114	89	30	55	20	19	16	72	16	5	M10 x 1.5	10	M26 x 1.5	37.5	1/2	114	17	15	258	124	268
<b>125</b>	Up to 1000	50	27	54	136	110	32	60	27	19	16	97	20	6	M12 x 1.75	13	M27 x 2.0	38	1/2	120	17	15	314	132	316

### With Rod Boot

Bore size (mm)	d	e	f	With Air Cushion																Without Air Cushion																
				1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500	501 to 600	601 to 700	701 to 800	801 to 900	901 to 1000	1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500	501 to 600	601 to 700	701 to 800	801 to 900	901 to 1000									
<b>32</b>	54	36	23	12.5	25	37.5	50	75	100	125	—	—	—	73	86	98	111	136	161	186	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
<b>40</b>	56	41	23	12.5	25	37.5	50	75	100	125	—	—	—	81	94	106	119	144	169	194	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
<b>50</b>	64	51	25	12.5	25	37.5	50	75	100	125	150	—	—	89	102	114	127	152	177	202	227	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>63</b>	64	51	25	12.5	25	37.5	50	75	100	125	150	—	—	89	102	114	127	152	177	202	227	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>80</b>	68	56	29	12.5	25	37.5	50	75	100	125	150	175	200	—	101	114	126	139	164	189	214	239	264	276	—	—	—	—	—	—	—	—	—	—	—	—
<b>100</b>	76	61	29	12.5	25	37.5	50	75	100	125	150	175	200	—	101	114	126	139	164	189	214	239	264	276	—	—	—	—	—	—	—	—	—	—	—	—
<b>125</b>	82	75	27	10	20	30	40	60	80	100	120	140	160	180	200	120	130	140	150	170	190	210	230	250	270	290	310	—	—	—	—	—	—	—	—	—

Note) ZZ indicates dimensions for double side rod boot.

Bore size (mm)	ZZ (Note)															
	1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500	501 to 600	601 to 700	701 to 800	801 to 900	901 to 1000	1 to 50	51 to 100	101 to 150	151 to 200
<b>32</b>	230	256	280	306	356	406	456	—	—	—	—	—	—	—	—	—
<b>40</b>	246	272	296	322	372	422	472	—	—	—	—	—	—	—	—	—
<b>50</b>	272	298	322	348	398	448	498	548	—	—	—	—	—	—	—	—
<b>63</b>	272	298	322	348	398	448	498	548	—	—	—	—	—	—	—	—
<b>80</b>	316	342	366	392	442	492	542	592	642	692	—	—	—	—	—	—
<b>100</b>	316	342	366	392	442	492	542	592	642	692	—	—	—	—	—	—
<b>125</b>	340	360	380	400	440	480	520	560	600	640	680	720	—	—	—	—

- CJ1**
- CJP**
- CJ2 -Z**
- CJ2**
- CM2 -Z**
- CM2**
- CM3**
- CG1 -Z**
- CG1**
- CG3**
- MB -Z**
- MB**
- MB1**
- CA2 -Z**
- CA2**
- CS1**
- CS2**

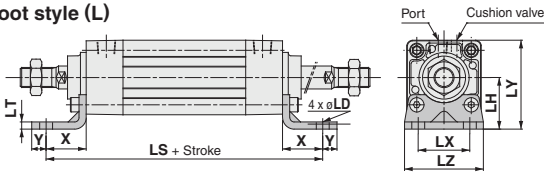
- D**
- X**
- Technical data

# Series MB1W

## Standard Type: With Mounting Bracket

\* Dimensions not indicated are the same as the standard type (page 467).

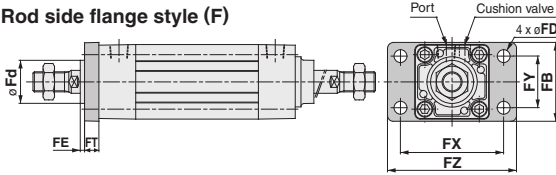
### Foot style (L)



### Foot Style

Bore size (mm)	Stroke range	X	Y	LD	LH	LS'	LT	LX	LY	LZ
<b>32</b>	Up to 500	22	9	7	30	128	3.2	32	53	50
<b>40</b>	Up to 500	24	11	9	33	132	3.2	38	59	55
<b>50</b>	Up to 600	27	11	9	40	148	3.2	46	72.5	70
<b>63</b>	Up to 800	27	14	12	45	148	3.6	56	82.5	80
<b>80</b>	Up to 800	30	14	12	55	174	4.5	72	102.5	100
<b>100</b>	Up to 800	32	16	14	65	178	4.5	89	122	120
<b>125</b>	Up to 1000	45	20	14	81	210	8	90	149	136

### Rod side flange style (F)



### Rod Side Flange Style

Bore size (mm)	Stroke range	FB	FD	FT	FX	FY	FZ	Fd
<b>32</b>	Up to 500	50	7	10	64	32	79	25
<b>40</b>	Up to 500	55	9	10	72	36	90	31
<b>50</b>	Up to 600	70	9	12	90	45	110	38.5
<b>63</b>	Up to 600	80	9	12	100	50	120	39.5
<b>80</b>	Up to 800	100	12	16	126	63	153	45.5
<b>100</b>	Up to 800	120	14	16	150	75	178	54
<b>125</b>	Up to 1000	138	14	20	180	102	216	57.5

# Series MB1 Auto Switch Mounting 1

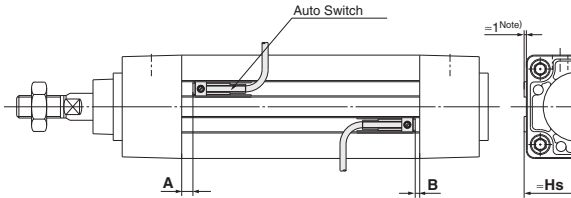
## Minimum Auto Switch Mounting Stroke

		(mm)						
Auto switch model	No. of auto switch mounted	ø32	ø40	ø50	ø63	ø80	ø100	ø125
D-A9□ D-A9□V	2 (Different surfaces, Same surface)	15						
	1	15			10			
D-M9□ D-M9□V	2 (Different surfaces, Same surface)	15 + 10 (n-2)			15 + 15 (n-2)		15 + 20 (n-2)	
	1	15			10 + 10 (n-2)			
D-M9□W D-M9□WV D-M9□A D-M9□AV	2 (Different surfaces, Same surface)	15 + 5 (n-2)			15			
	1	15			10 + 10 (n-2)			
D-Z7□ D-Z80	2 (Different surfaces, Same surface)	15 + 10 (n-2)			10 + 10 (n-2)		10 + 15 (n-2)	
	1	25			15			
D-Y59□/Y69□ D-Y7P/Y7PV	2 (Different surfaces, Same surface)	25			15 + 15 (n-2)		15 + 20 (n-2)	
	1	25			15			
D-Y7□W D-Y7□WV	2 (Different surfaces, Same surface)	25 + 10 (n-2)			15 + 10 (n-2)		15 + 15 (n-2)	
	1	25			20			
D-Y7BA	2 (Different surfaces, Same surface)	25 + 10 (n-2)			20 + 10 (n-2)		20 + 15 (n-2)	
	1	30			20			
	n	30 + 10 (n-2)			20 + 10 (n-2)		20 + 15 (n-2)	

Note 1) n = 3, 4, 5 ...

Note 2) Center trunnion type is not included.

## Proper Auto Switch Mounting Position (Detection at stroke end) and Mounting Height



### Proper Auto Switch Mounting Position

Auto switch model	(mm)					
	D-M9□ D-M9□V D-M9□W D-M9□WV D-M9□A D-M9□AV		D-A9□ D-A9□V		D-Z7□/Z80 D-Y59□/Y69□ D-Y7P/Y7PV D-Y7□W/Y7□WV D-Y7BA	
Bore size	A	B	A	B	A	B
32	9	6	5	2	4	1
40	9	6	5	2	4	1
50	9	7	5	3	4	2
63	9	7	5	3	4	2
80	12.5	10.5	8.5	6.5	7.5	5.5
100	12.5	10.5	8.5	6.5	7.5	5.5
125	14.5	14.5	10.5	10.5	9.5	9.5

Note) Adjust the auto switch after confirming the operation to set actually.

### Auto Switch Mounting Height

Auto switch model	(mm)	
	D-A9□V D-Y69□ D-Y7PV D-Y7□WV	
Bore size	Hs	Hs
32	27	30
40	30	33
50	36	39
63	41	44
80	51	54
100	60.5	63.5
125	71.5	74.5

Note) The above figures are for when the electrical entry perpendicular types D-A9□V/M9□V/M9□WV/M9□AV/Y69□/Y7PV/Y7□WV are mounted.

- CJ1
- CJP
- CJ2
- CM2-Z
- CM2
- CM3
- CG1-Z
- CG1
- CG3
- MB-Z
- MB
- MB1
- CA2-Z
- CA2
- CS1
- CS2

- D-□
- X□
- Technical data

# Series MB1 Auto Switch Mounting 2

## Operating Range

Auto switch model	Bore size (mm)						
	32	40	50	63	80	100	125
D-A9□/A9□V	7	7.5	8	9	9.5	10.5	12.5
D-M9□/M9□V D-M9□W/M9□WV D-M9□A/M9□AV	4	4.5	5	6	6	6	7
D-Z7□Z80	10	10	10	11	11	12	14
D-Y59□/Y69□ D-Y7P/Y7PV D-Y7□W/Y7□WV D-Y7BA	6.5	6.5	6	7	7	8	7

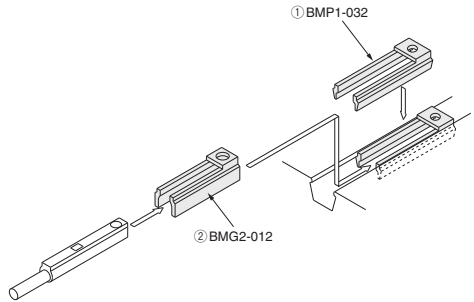
\* Since this is a guideline including hysteresis, not meant to be guaranteed.  
(Assuming approximately ±30% dispersion.) There may be the case it will vary substantially depending on an ambient environment.

## Switch Mounting Bracket: Part No.

Auto switch model	Bore size (mm)
	ø32 to ø125
D-A9□/A9□V D-M9□/M9□V D-M9□W/M9□WV D-M9□A/M9□AV	Note) ① BMP1-032 ② BMG2-012
D-Z7□/Z80 D-Y5□/Y7P D-Y7□W D-Y6□/Y7PV D-Y7□WV D-Y7BA	① BMP1-032

Note) Two kinds of auto switch brackets are used as a set.

D-A9□ (V)/M9□ (V)/M9□W (V)/M9□A (V)



Besides the models listed in How to Order, the following auto switches are applicable.  
Refer to pages 1559 to 1673 for the detailed specifications.

Auto switch type	Part no.	Electrical entry (Entry direction)	Features
Reed	D-Z73, Z76	Grommet (in-line)	—
	D-Z80		With indicator light
Solid state	D-Y69A, Y69B, Y7PV D-Y7NWW, Y7PWW, Y7BWV	Grommet (perpendicular)	—
	D-Y59A, Y59B, Y7P		Diagnosis indication (2 colors)
	D-Y7NW, Y7PW, Y7BW D-Y7BA	Grommet (in-line)	—
			Diagnosis indication (2 colors)
			Water resistant (2-color indication)

\* For solid state switches, auto switches with a pre-wired connector are also available. Refer to pages 1626 and 1627 for details.

\* Normally closed (NC = b contact) solid state auto switches (D-F9G/F9H/Y7G/Y7H types) are also available. Refer to pages 1577 and 1579 for details.

# Series MB1

## Made to Order : Individual Specifications

Please contact SMC for detailed dimensions, specifications, and lead times.



### 1 Fastener Strips Mounted on Switch Mounting Grooves

Symbol

**-X846**

It prevents splashing water or windblown dust to the cylinder body from making an ingress into the auto switch mounting groove and accumulating.

MB1  
MDB1 Standard model no. — X846

● With fasteners

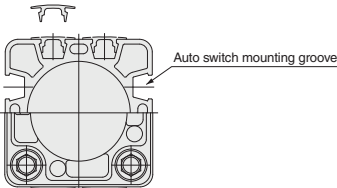
### Dimensions



#### Fastener Specifications

Quantity	8 pcs. (6 pcs. when auto switches are mounted) <small>Note)</small>
Material	Vinyl chloride
Color	Urban white

Note) These cannot be installed on switch mounting grooves where auto switches have been mounted.



Sectional view

CJ1

CJP

CJ2  
-Z

CJ2

CM2  
-Z

CM2

CM3

CG1  
-Z

CG1

CG3

MB  
-Z

MB

MB1

CA2  
-Z

CA2

CS1

CS2

D-□

-X□

Technical data