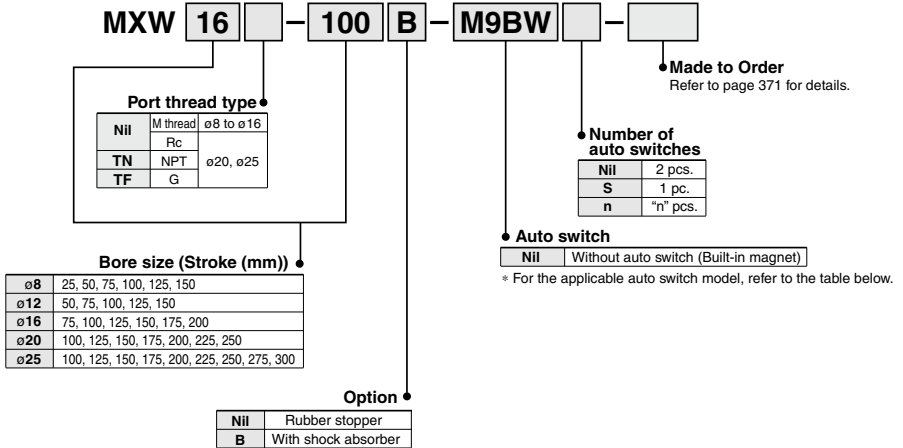


Air Slide Table MXW Series

RoHS

How to Order



Applicable Auto Switches

Refer to pages 1289 to 1383 for the detailed specifications of auto switches.

Type	Special function	Electrical entry	Indicator/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)	IC circuit	Relay, PLC	
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○	IC circuit	Relay, PLC	
				3-wire (PNP)				M9PV	M9P	●	●	●	○			
				2-wire				M9BV	M9B	●	●	○	○			
				3-wire (NPN)				M9NVW	M9NW	●	●	●	○			
	Diagnostic indication (2-color indicator)			3-wire (PNP)	M9PVW	M9PW	●	●	●	○	IC circuit					
					2-wire	M9BWW	M9BW	●	●	○		○				
					3-wire (NPN)	M9NAV ^{*1}	M9NA ^{*1}	○	○	●		○	IC circuit			
					3-wire (PNP)	M9PAV ^{*1}	M9PA ^{*1}	○	○	●		○				
Water resistant (2-color indicator)	2-wire	M9BAV ^{*1}	M9BA ^{*1}	○	○	●	○	—								
		—	—	—	—	—	—		—							
Reed auto switch	—	Grommet	None	3-wire (Equiv. to NPN)	24 V	12 V	100 V 100 V or less	A96V	A96	●	—	—	IC circuit	—		
				2-wire				A93V ^{*2}	A93	●	●	●			—	Relay, PLC
								A90V	A90	●	—	—			—	

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

*2 1 m type lead wire is only applicable to D-A93.

* 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

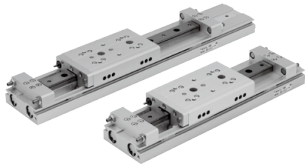
* Solid state auto switches marked with "○" are produced upon receipt of order.

* Since there are other applicable auto switches than listed, refer to page 387 for details.

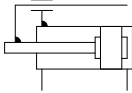
* For details about auto switches with pre-wired connector, refer to pages 1358 and 1359.

* Auto switches are shipped together (not assembled).

Specifications



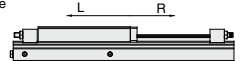
Symbol
Rubber bumper



Model	MXW8	MXW12	MXW16	MXW20	MXW25
Bore size (mm)	ø8 x 2 (ø11 or its equivalent)	ø12 x 2 (ø17 or its equivalent)	ø16 x 2 (ø23 or its equivalent)	ø20 x 2 (ø28 or its equivalent)	ø25 x 2 (ø35 or its equivalent)
Piping port size	M5 x 0.8			Rc1/8, NPT1/8, G1/8	
Fluid	Air				
Action	Double acting				
Operating pressure	0.15 to 0.7 MPa				
Proof pressure	1.05 MPa				
Ambient and fluid temperature	-10 to +60°C				
Operating speed range (Average operating speed) ^(Note)	50 to 500 mm/s				
Cushion	Both ends rubber bumper (Standard) Shock absorber at both ends (Option)				
Lubrication	Non-lube				
Auto switch (Option)	Reed auto switch Solid state auto switch (2-wire, 3-wire) 2-color indicator solid state auto switch (2-wire, 3-wire)				
Stroke length tolerance	+1 0 mm				
Stroke adjustment range	One side: 5 mm (Both sides: 10 mm)				

(None) Average operating speed: Speed that the stroke is divided by a period of time from starting the operation to reaching the end.

<Operating direction>
When viewed from side
with lateral ports.
R: Right (OUT side)
L: Left (IN side)



Made to Order
Individual Specifications
(For details, refer to pages 388 and 389.)

Symbol	Specifications
-X7	PTFE grease
-X9	Grease for food processing machines
-X11	Adjusting bolt, long specification (Adjustment range: 15 mm)
-X33	Without built-in auto switch magnet
-X39	Fluororubber seal
-X42	Anti-corrosive specifications for guide unit

Theoretical Output

Dual rod cylinder produces double the thrust of standard cylinder. (N)

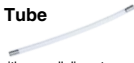
Bore size (mm)	Rod size (mm)	Operating direction	Piston area (mm ²)	Operating pressure (MPa)					
				0.2	0.3	0.4	0.5	0.6	0.7
8	4	R	101	20	30	40	51	61	71
		L	75	15	23	30	38	45	53
12	6	R	226	45	68	90	113	136	158
		L	170	34	51	68	85	102	119
16	8	R	402	80	121	161	201	241	281
		L	302	60	91	121	151	181	211
20	10	R	628	126	188	251	314	377	440
		L	471	94	141	188	236	283	330
25	12	R	982	196	295	393	491	589	687
		L	756	151	227	302	378	454	529

(Note) Theoretical output (N) = Pressure (MPa) x Piston area (mm²)

Standard Stroke (mm)/Weight (g)

Model	Standard stroke (mm)												Additional weight of option Shock absorber
	25	50	75	100	125	150	175	200	225	250	275	300	
MXW8	550	610	700	790	880	980	—	—	—	—	—	—	15
MXW12	—	930	1010	1140	1270	1400	—	—	—	—	—	—	15
MXW16	—	—	1850	1970	2150	2350	2540	2740	—	—	—	—	20
MXW20	—	—	—	4440	4640	5000	5360	5710	6070	6430	—	—	65
MXW25	—	—	—	8310	8620	8960	9470	10050	10620	11190	11780	12340	140

Moisture Control Tube IDK Series



When operating an actuator with a small diameter and a short stroke at a high frequency, the dew condensation (water droplet) may occur inside the piping depending on the conditions.

Simply connecting the moisture control tube to the actuator will prevent dew condensation from occurring. For details, refer to the [Web Catalog](#).

The graphs below show the table displacement when the static moment load is applied to the table.
The graphs do not show the loadable mass. Refer to the Model Selection for the loadable mass.

Table Deflection (Reference Values)

Table displacement due to pitch moment load

Amount of displacement on A when the load is applied at F.

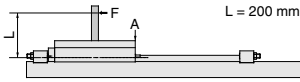


Table displacement due to yaw moment load

Amount of displacement on A when the load is applied at F.

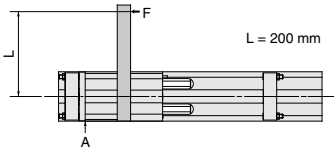
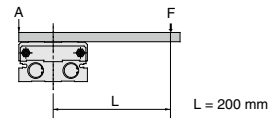
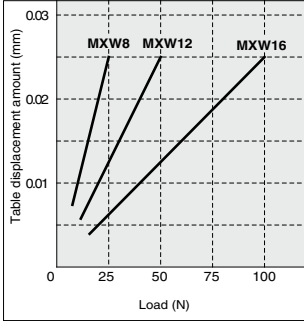


Table displacement due to roll moment load

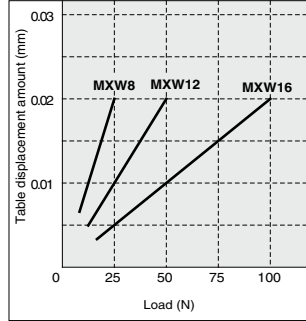
Amount of displacement on A when the load is applied at F.



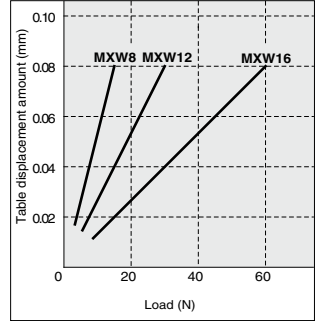
MXW8, MXW12, MXW16



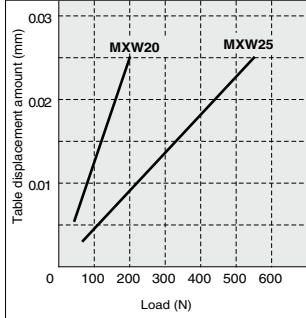
MXW8, MXW12, MXW16



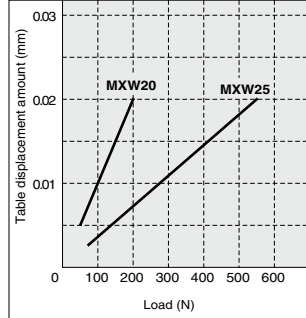
MXW8, MXW12, MXW16



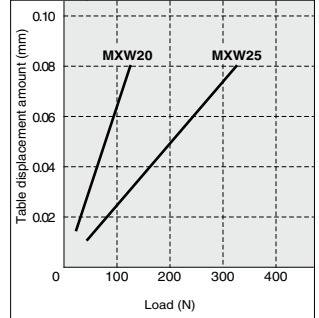
MXW20, MXW25



MXW20, MXW25



MXW20, MXW25



Option Specifications

Stopper Bolt Assembly

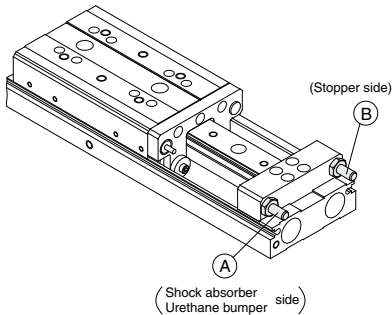
Stopper bolt assembly can be ready for the following manner.

Change of adjuster assembly		Qty. needed for stopper bolt assembly		Parts to be Changed (Refer to the figure below.)
		Standard	Semi-standard (X11)	
Changing the stroke adjustment range from 5 mm to 15 mm for one side	W/o shock absorber	—	2	Replace (A)
	With shock absorber	—	4	Replace (A)(B)
Changing to the one with shock absorber		2	—	Add (B)
Changing to the one with shock absorber and stroke adjustment range of 15 mm		—	4	Replace (A)
				Add (B)

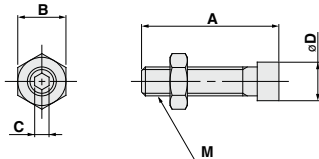
Note 1) When only one side of stroke is changed, the quantity needed is the half of the above.

Note 2) Shock absorber must be ordered separately.

For the shock absorber model numbers, refer to page 374.



Dimensions



Applicable size	Model	Stroke adjustable range (mm)	A	B	C	D	M
MXW8	MXW-A812	5	21	8	2.5	6	M5 x 0.5
	MXW-A812-X11	15	31				
MXW12	MXW-A1212	5	23.5	8	2.5	6	M5 x 0.8
	MXW-A1212-X11	15	33.5				
MXW16	MXW-A1612	5	28.5	10	3	8	M6 x 1
	MXW-A1612-X11	15	38.5				
MXW20	MXW-A2012	5	34.5	13	4	10	M8 x 1.25
	MXW-A2012-X11	15	44.5				
MXW25	MXW-A2512	5	40	17	5	14	M10 x 1.5
	MXW-A2512-X11	15	50				

How to Order Stopper Bolt Assembly

MXW - A 16 12 - X11

Applicable bore size

8	ø8
12	ø12
16	ø16
20	ø20
25	ø25

Adjustment range

Nll	5 mm	Standard
X11	15 mm	Option

Note 1) The above model number is one adjuster bolt assembly only.

⚠ Precautions

Mounting/Adjustment

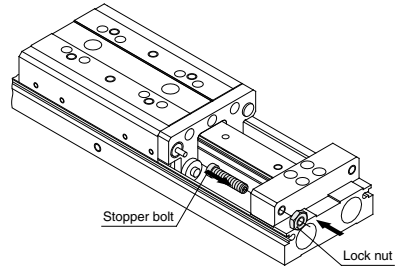
⚠ Caution

① Do not operate within 1 mm.

The effectiveness of the shock absorber and urethane bumper will not be brought into full play, and could be adversely affected.

How to mount

1. Thread in the adjuster bolt from the direction of the arrow.
2. Fasten the lock nut from the direction of the arrow.



Avoid operating within 1 mm.

The effectiveness of the shock absorber and urethane damper will not be brought into full play, and could be adversely affected.



MXW Series

Option Specifications

Shock Absorber

Specifications

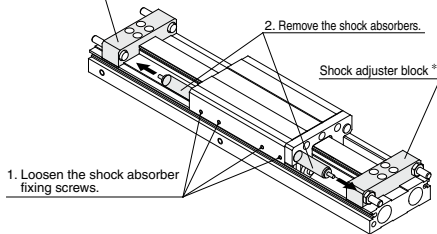
Shock absorber model	RB0805 -X552	RB0806 -X552	RB1007 -X552	RB1412 -X552	RB2015 -X552	
Applicable slide table	MXW8	MXW12	MXW16	MXW20	MXW25	
Max. absorbing energy (J)	0.98	2.94	5.88	19.6	58.8	
Stroke absorption (mm)	5	6	7	12	15	
Max. collision speed (m/sec)	0.05 to 5					
Max. operating frequency (cycle/min)	80	80	70	45	25	
Max. allowable thrust (N)	245	245	422	814	1961	
Ambient temperature range (°C)	-10 to 80					
Spring force (N)	Extended	1.96	1.96	4.22	6.86	8.34
	Retracted	3.83	4.22	6.86	15.98	20.50
Weight (g)	15	15	25	65	150	

(Note) The shock absorber service life is different from that of the MXW cylinder depending on operating conditions. Refer to the Specific Product Precautions for the replacement period.

How to Replace

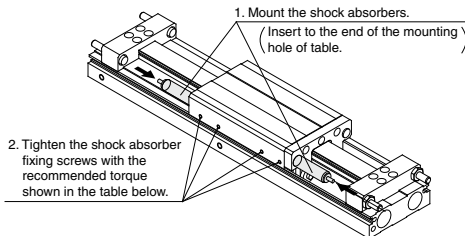
① How to Remove

Shock adjuster block *



* In the case of MXW8-25, first take out the adjuster block, and then the shock absorber. Tighten the mounting bolt with the torque 0.3 N·m when assembling the adjuster block.

② How to Mount



Recommended Tightening Torque

Model	Shock absorber fixing thread size	Recommended tightening torque (N·m)	Hexagon wrench width across flats (mm)
MXW8	M3 x 4	0.6	1.5
MXW12	M3 x 4	0.6	1.5
MXW16	M3 x 4	0.6	1.5
MXW20	M4 x 5	0.8	2
MXW25	M5 x 6	1	2.5

⚠ Precautions

Adjustment

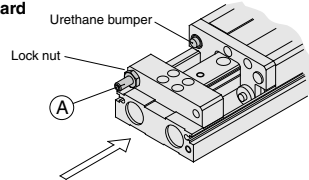
⚠ Caution

- Do not operate in such a state that the stopper blocks and stopper bolts on both sides are removed.

Doing so could create shocks, which could loosen and cause damage.

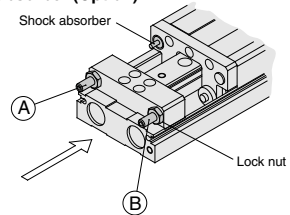
Stroke adjustment

1. Standard



Loosen the stopper bolt lock nut on side (A), insert a wrench in the direction of the arrow to adjust the stroke, and then tighten the lock nut.

2. With shock absorber (Option)



Stroke adjustment

- Loosen the stopper bolt lock nut on side (B), insert a wrench in the direction of the arrow to adjust the stroke, and then tighten the lock nut.

Stroke absorption adjustment for shock absorber

- Loosen the stopper bolt lock nut on side (A), insert a wrench in the direction of the arrow to adjust the stroke, and then tighten the lock nut.

Service Life and Replacement Period of Shock Absorber

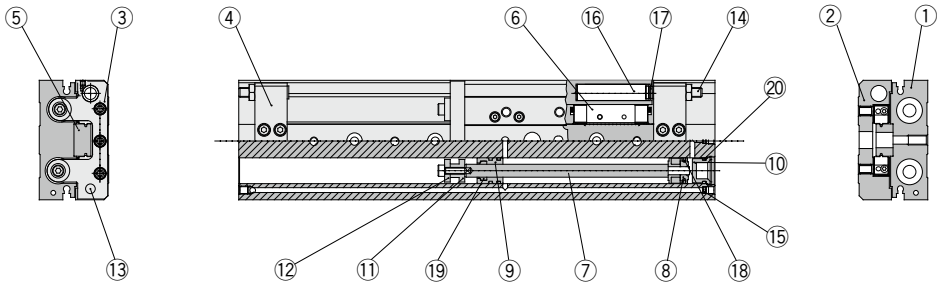
⚠ Caution

- Allowable operating cycle under the specifications set in this catalog is shown below.

- 1.2 million cycles RB08□□
- 2 million cycles RB1007 to RB2015

(Note) Specified service life (suitable replacement period) is the value at room temperature (20 to 25°C). The period may vary depending on the temperature and other conditions. In some cases the absorber may need to be replaced before the allowable operating cycle above.

Construction



Component Parts

No.	Description	Material	Note
1	Body	Aluminum alloy	Hard anodized
2	Table	Aluminum alloy	Hard anodized
3	End plate	Aluminum alloy	Hard anodized
4	Stopper block	Aluminum alloy	Hard anodized
5	Rail	Hardening steel	Heat treated
6	Guide block	Hardening steel	Heat treated
7	Rod	Stainless steel	
8	Piston assembly	—	With magnet
9	Rod cover	Aluminum alloy	
10	Head cap	Resin	
11	Floating bushing A	Stainless steel	
12	Floating bushing B	Stainless steel	
13	Stopper	Stainless steel	Heat treated
14	Stopper bolt	Carbon steel	Heat treated, Electroless nickel plated
15	Orifice	Brass	Electroless nickel plated
16	Absorber shaft	Aluminum alloy	Chromate treated
17	Adjusting bumper	Polyurethane	
18	Piston seal	NBR	
19	Rod seal	NBR	
20	O-ring	NBR	

Replacement Parts: Seal Kit

Bore size (mm)	Kit no.	Contents
8	MXW8-PS	Set of nos. above ⑱, ⑲, ⑳
12	MXW12-PS	
16	MXW16-PS	
20	MXW20-PS	
25	MXW25-PS	

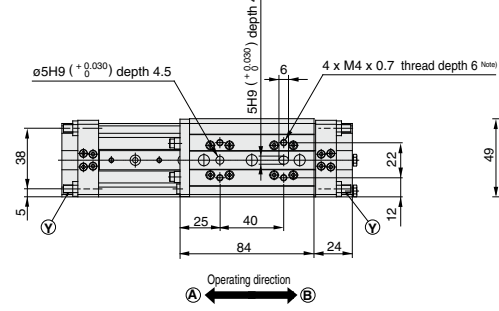
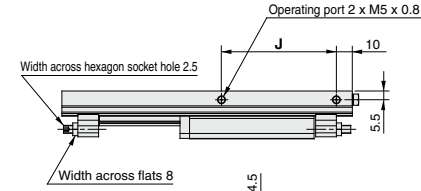
* Seal kit includes ⑱, ⑲, ⑳. Order the seal kit, based on each bore size.

Replacement Part: Grease Pack

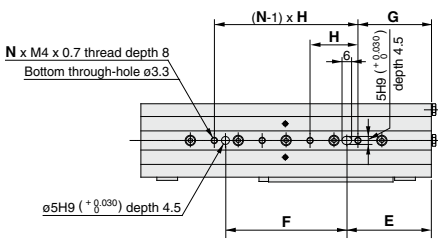
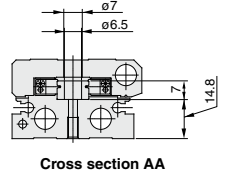
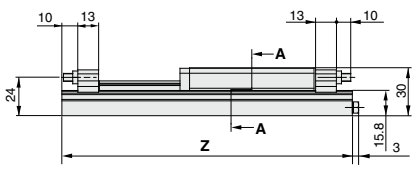
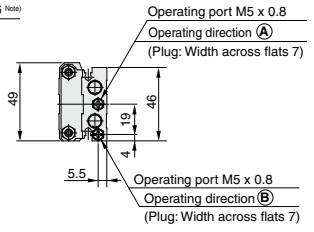
Applied part	Grease pack part no.
Guide	GR-S-010 (10 g)
	GR-S-020 (20 g)
Cylinder	GR-L-005 (5 g)
	GR-L-010 (10 g)

MXW Series

MXW8/Stroke: 25, 50 mm



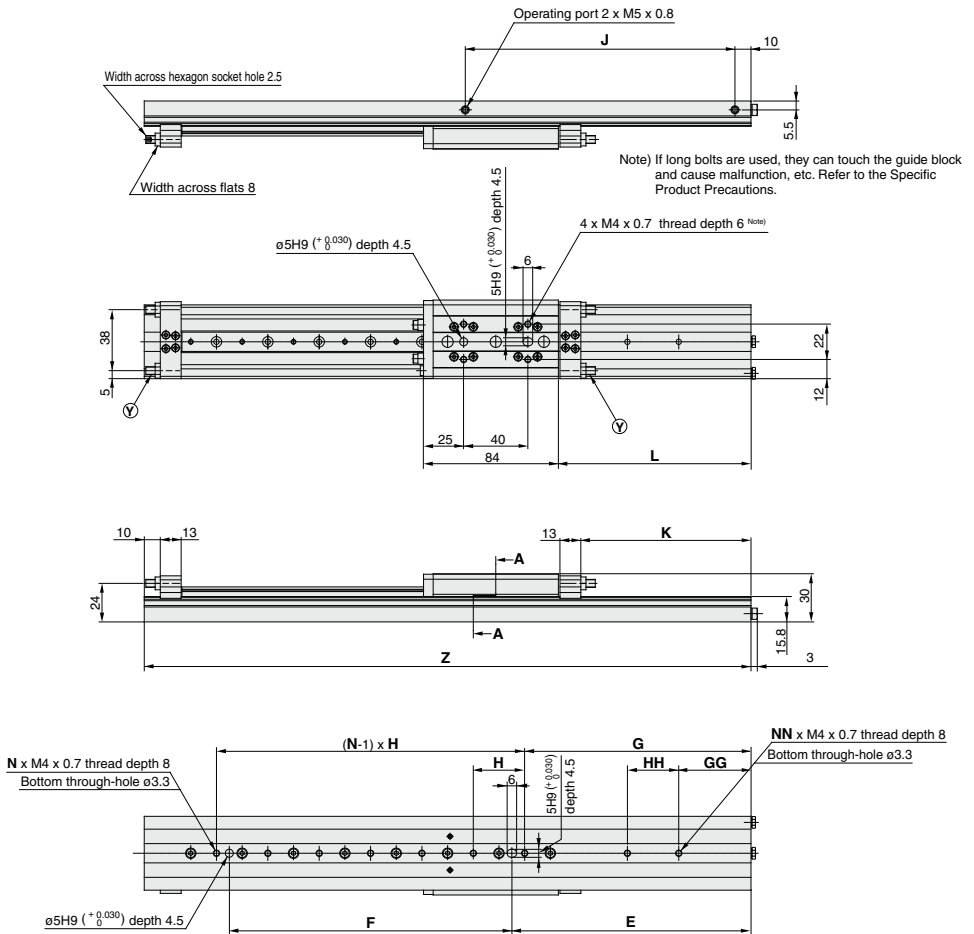
Note) If long bolts are used, they can touch the guide block and cause malfunction, etc. Refer to the Specific Product Precautions.



Model	E	F	G	H	J	N	Z
MXW8-25	55	48	47	32	64	3	157
MXW8-50	53	76	46	30	71	4	182

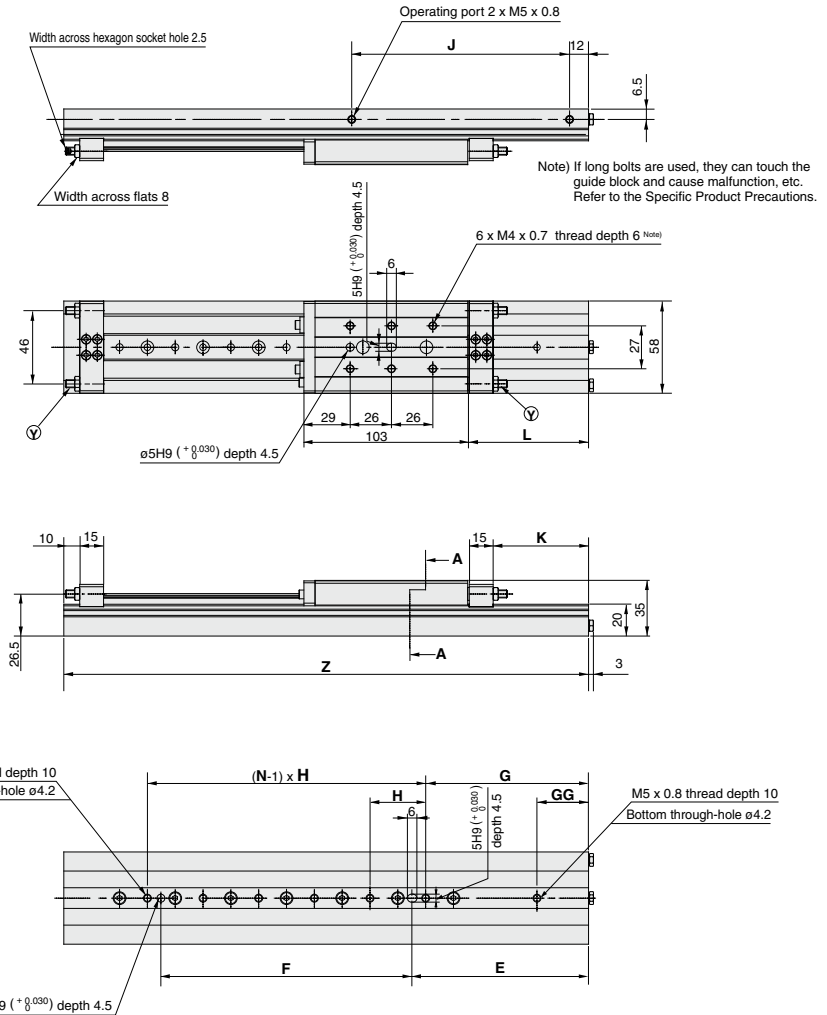
Note) Stopper bolt (Y) shown in the section above is attached only on B type (with shock absorber).

MXW8/Stroke: 75, 100, 125, 150 mm



	(mm)											
Model	E	F	G	GG	H	HH	J	K	L	N	NN	Z
MXW8-75	71	106	64	19	30	—	92	31	45	5	1	228
MXW8-100	106	112	98	34	32	—	115	56	70	5	1	278
MXW8-125	129	144	121	25	32	32	138	81	95	6	2	328
MXW8-150	149	176	141	45	32	32	168	106	120	7	2	378

MXW12/Stroke: 100, 125, 150 mm

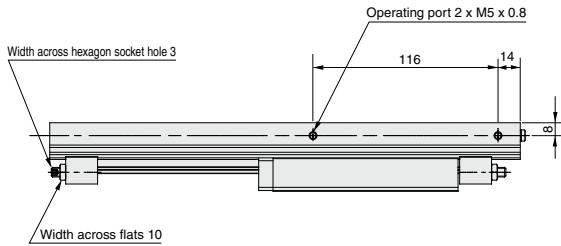


(mm)

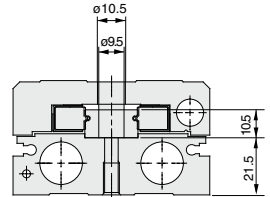
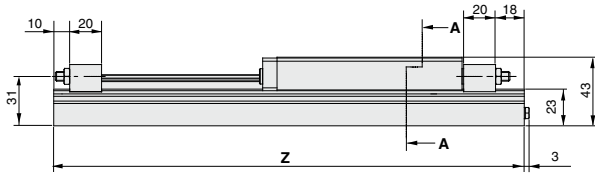
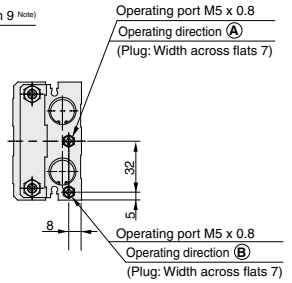
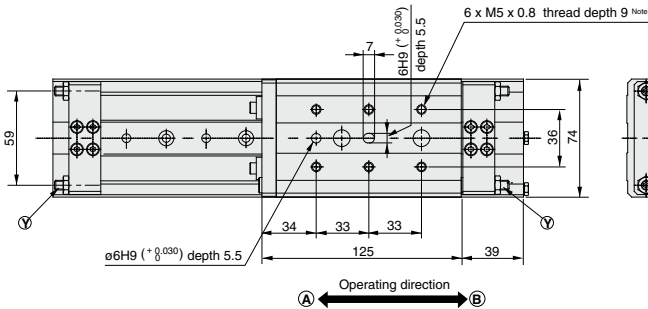
Model	E	F	G	GG	H	J	K	L	N	Z
MXW12-100	91	123	82.5	30	35	114	35	51	5	280
MXW12-125	111	158	102.5	32.5	35	137	60	76	6	330
MXW12-150	136	182	127.5	47.5	40	164	85	101	6	380

MXW Series

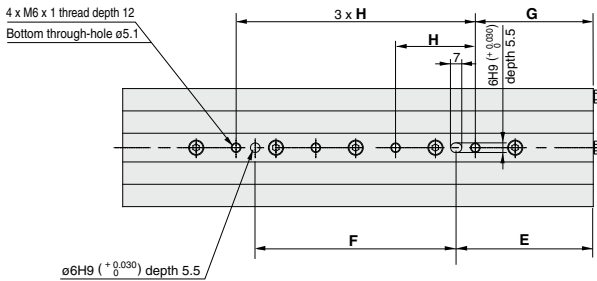
MXW16/Stroke: 75, 100 mm



Note) If long bolts are used, they can touch the guide block and cause malfunction, etc. Refer to the Specific Product Precautions.



Cross section AA

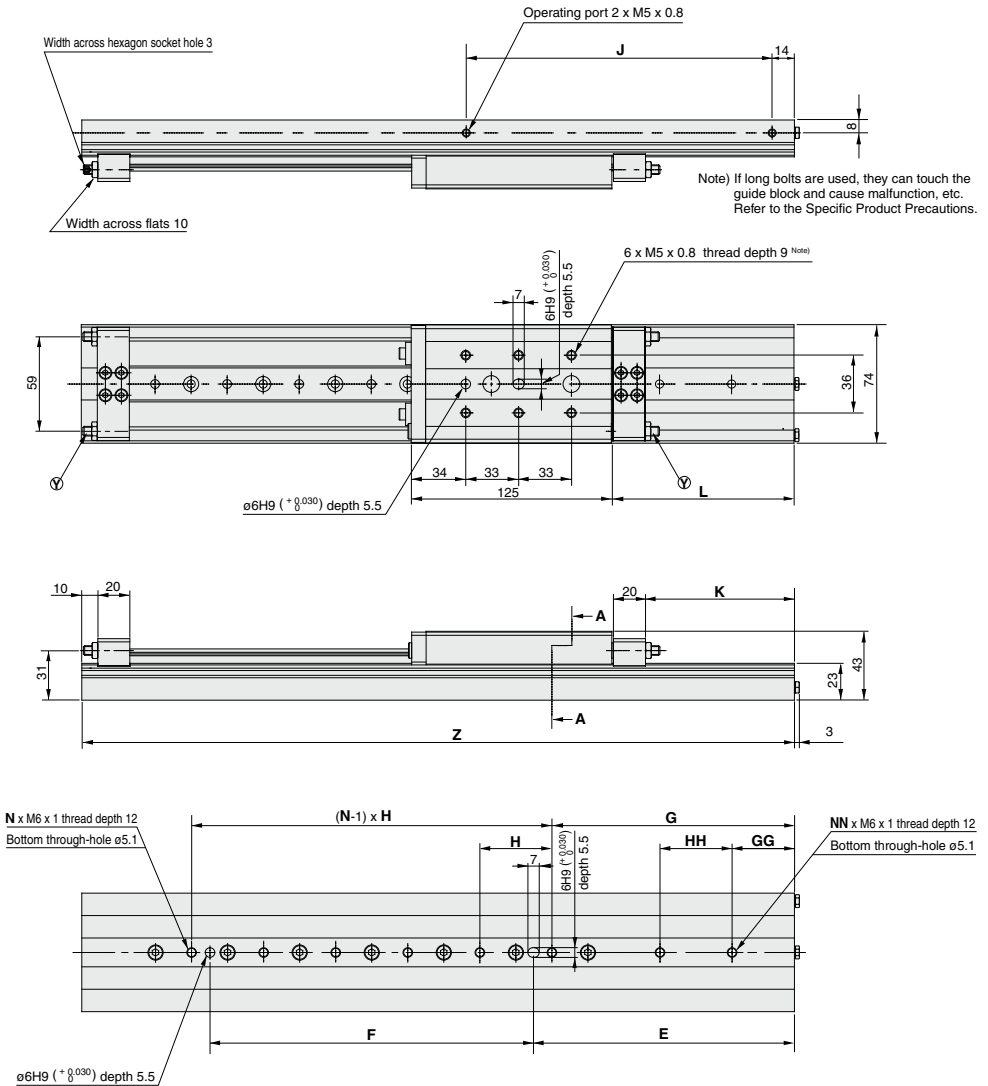


(mm)

Model	E	F	G	H	Z
MXW16-75	83	112	71.5	45	270
MXW16-100	86	126	74	50	295

Note) Stopper bolt Ⓜ shown in the section above is attached only on B type (with shock absorber).

MXW16/Stroke: 125, 150, 175, 200 mm

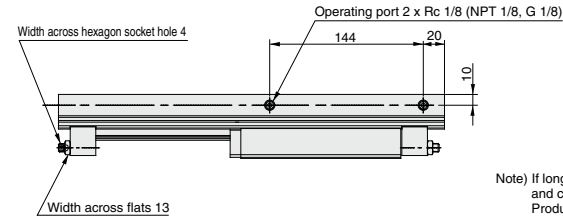


(mm)

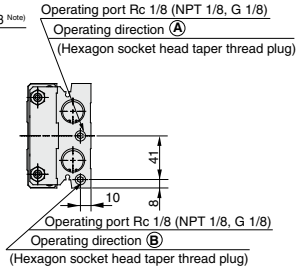
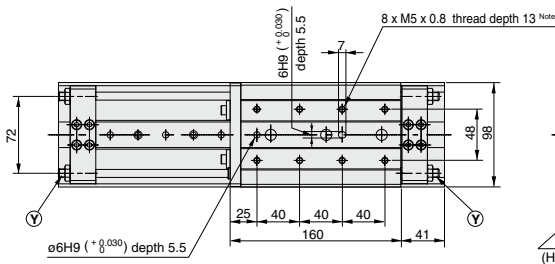
Model	E	F	G	GG	H	HH	J	K	L	N	NN	Z
MXW16-125	110	157	99	31.5	45	—	141	43	64	5	1	345
MXW16-150	136	176	124	24	50	—	166	68	89	5	1	395
MXW16-175	163	202	151.5	39	45	45	191	93	114	6	2	445
MXW16-200	186	226	174	24	50	50	216	118	139	6	2	495

MXW Series

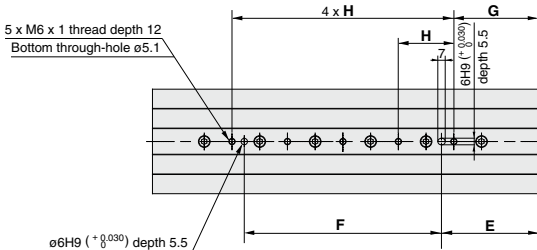
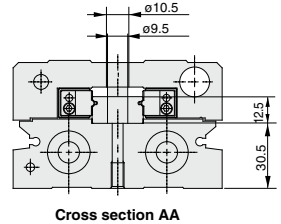
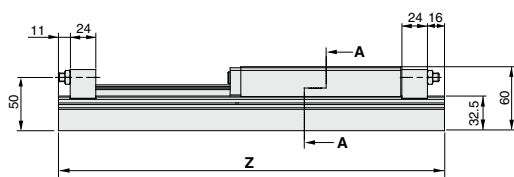
MXW20/Stroke: 100, 125 mm



Note) If long bolts are used, they can touch the guide block and cause malfunction, etc. Refer to the Specific Product Precautions.



Operating direction (A) ↔ (B)

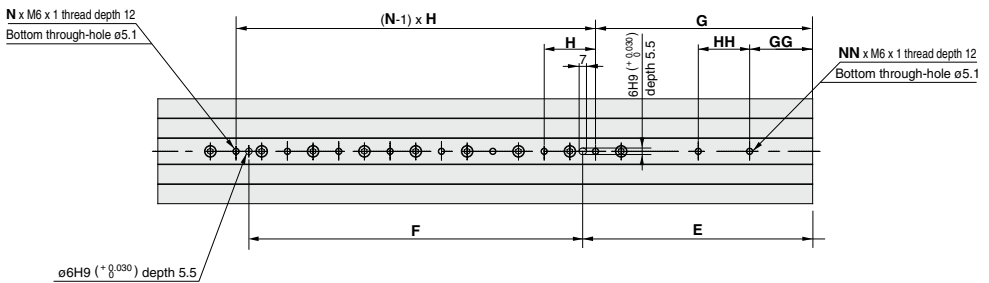
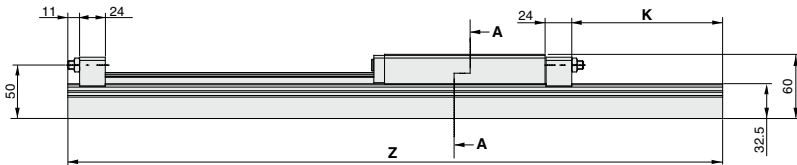
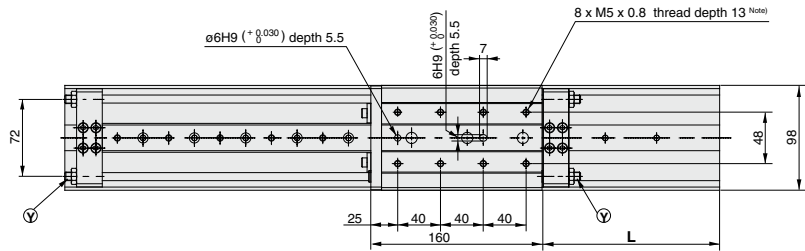
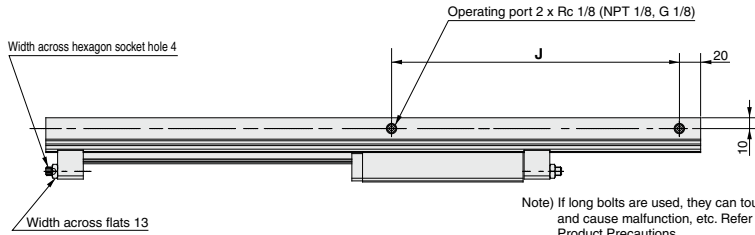


(mm)

Model	E	F	G	H	Z
MXW20-100	87	168	75	48	337
MXW20-125	91	185	79.5	52	362

Note) Stopper bolt (Y) shown in the section above is attached only on B type (with shock absorber).

MXW20/Stroke: 150, 175, 200, 225, 250 mm

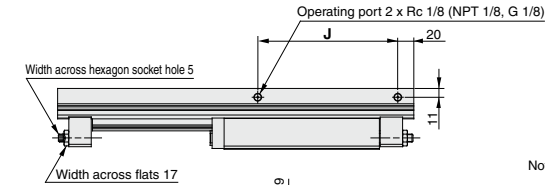


Model	E	F	G	GG	H	HH	J	K	L	N	NN	Z
MXW20-150	113	216	101	29	48	—	169	41	66	6	1	412
MXW20-175	140	237	128.5	50.5	52	—	194	66	91	6	1	462
MXW20-200	164	264	152	56	48	—	219	91	116	7	1	512
MXW20-225	189	288	177.5	73.5	52	—	244	116	141	7	1	562
MXW20-250	215	312	203	59	48	48	269	141	166	8	2	612

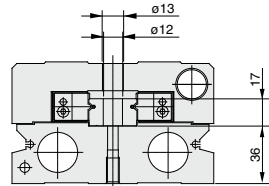
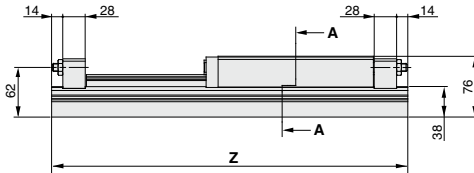
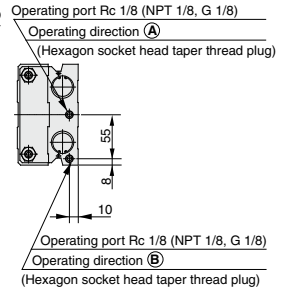
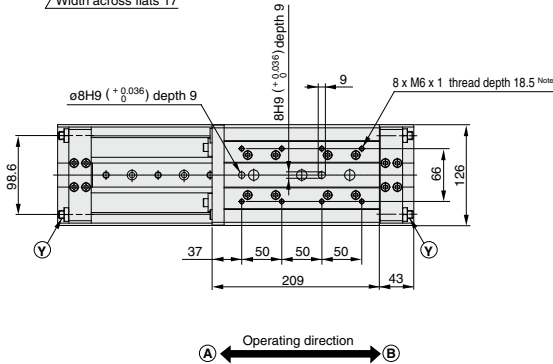
(mm)

MXW Series

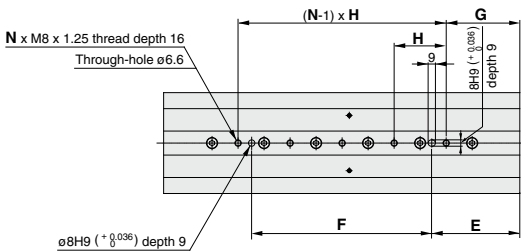
MXW25/Stroke: 100, 125, 150 mm



Note) If long bolts are used, they can touch the guide block and cause malfunction, etc. Refer to the Specific Product Precautions.



Cross section AA

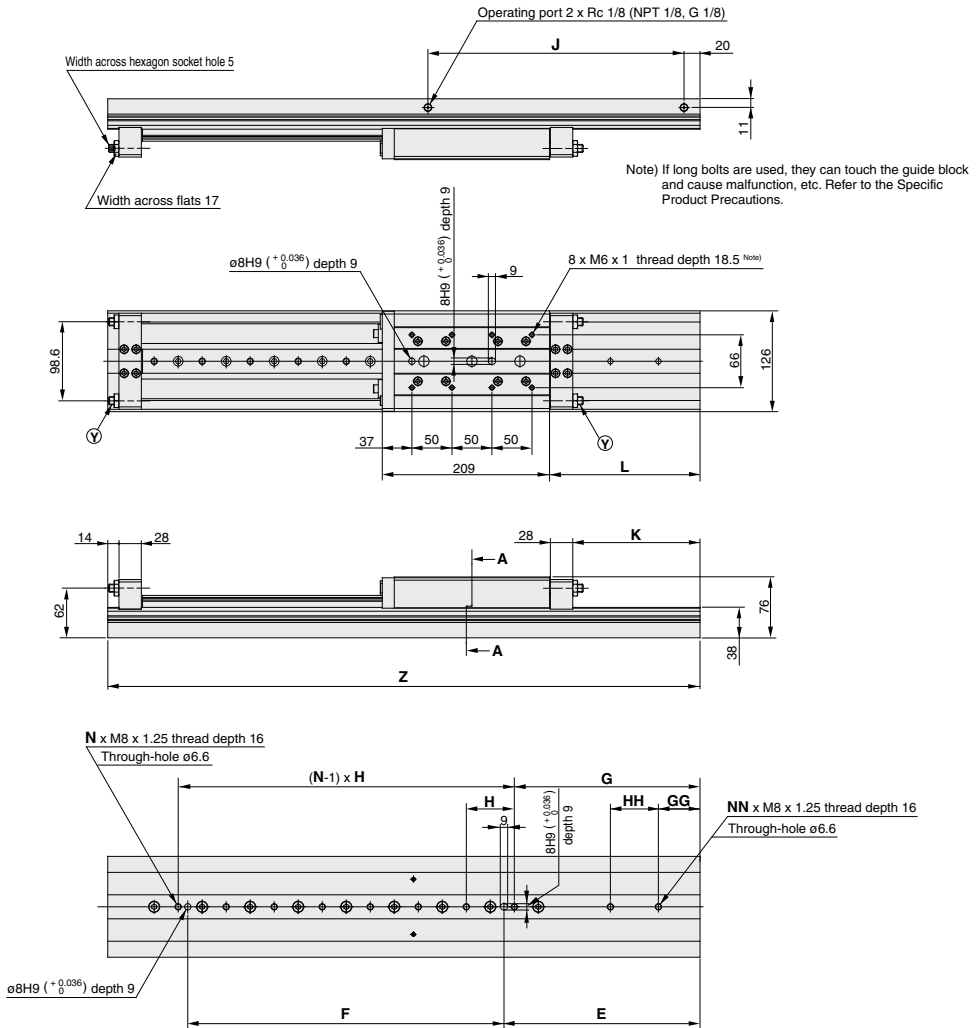


(mm)

Model	E	F	G	H	J	N	Z
MXW25-100	115	165	100	65	165	4	395
MXW25-125	105	210	90	60	180	5	420
MXW25-150	110	225	92	65	180	5	445

Note) Stopper bolt (Y) shown in the section above is attached only on B type (with shock absorber).

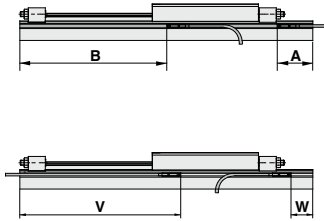
MXW25/Stroke: 175, 200, 225, 250, 275, 300 mm



	(mm)											
Model	E	F	G	GG	H	HH	J	K	L	N	NN	Z
MXW25-175	120	270	105	—	60	—	195	34	63	6	—	490
MXW25-200	155	275	142	—	60	—	225	59	88	6	—	540
MXW25-225	175	305	165	55	55	—	245	84	113	7	1	590
MXW25-250	200	335	187	67	60	—	275	109	138	7	1	640
MXW25-275	225	360	210	80	65	—	300	134	163	7	1	690
MXW25-300	245	395	232	52	60	60	320	159	188	8	2	740

Auto Switch Mounting

Auto Switch Proper Mounting Position (Detection at Stroke End)



Reed Auto Switch: D-A90 (V), D-A93 (V), D-A96 (V)

Model	Stroke (mm)												
	25	50	75	100	125	150	175	200	225	250	275	300	
MXW8	A	52.5	31.5	27.5	27.5	27.5	27.5	—	—	—	—	—	—
	B	79.5	100.5	125.5	150.5	175.5	200.5	—	—	—	—	—	—
	W	32.5	11.5	7.5	7.5	7.5	7.5	—	—	—	—	—	—
MXW12	A	—	51	31	31	31	31	—	—	—	—	—	—
	B	—	104	124	149	174	199	—	—	—	—	—	—
	V	—	31	11	11	11	11	—	—	—	—	—	—
MXW16	A	—	—	59.5	34.5	34.5	34.5	34.5	34.5	—	—	—	—
	B	—	—	135.5	160.5	185.5	210.5	235.5	260.5	—	—	—	—
	V	—	—	39.5	14.5	14.5	14.5	14.5	14.5	—	—	—	—
MXW20	A	—	—	—	68.5	43.5	43.5	43.5	43.5	43.5	43.5	—	—
	B	—	—	—	168.5	193.5	218.5	243.5	268.5	293.5	318.5	—	—
	V	—	—	—	48.5	23.5	23.5	23.5	23.5	23.5	23.5	—	—
MXW25	A	—	—	—	86.5	74.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
	B	—	—	—	208.5	220.5	250.5	270.5	295.5	320.5	345.5	370.5	395.5
	V	—	—	—	66.5	54.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5

Solid State Auto Switch: D-M9B (V), D-M9N (V), D-M9P (V)

2-Color Indicator Solid State Auto Switch: D-M9BW (V), D-M9NW (V), D-M9PW (V), D-M9□A (V)

Model	Stroke (mm)												
	25	50	75	100	125	150	175	200	225	250	275	300	
MXW8	A	48.5	27.5	23.5	23.5	23.5	23.5	—	—	—	—	—	—
	B	83.5	104.5	129.5	154.5	179.5	204.5	—	—	—	—	—	—
	V	36.5	15.5	11.5	11.5	11.5	11.5	—	—	—	—	—	—
MXW12	A	—	47	27	27	27	27	—	—	—	—	—	—
	B	—	108	128	153	178	203	—	—	—	—	—	—
	V	—	35	15	15	15	15	—	—	—	—	—	—
MXW16	A	—	—	55.5	30.5	30.5	30.5	30.5	30.5	—	—	—	—
	B	—	—	140	165	190	215	240	265	—	—	—	—
	V	—	—	43.5	18.5	18.5	18.5	18.5	18.5	—	—	—	—
MXW20	A	—	—	—	64.5	39.5	39.5	39.5	39.5	39.5	39.5	—	—
	B	—	—	—	172.5	197.5	222.5	247.5	272.5	297.5	322.5	—	—
	V	—	—	—	52.5	27.5	27.5	27.5	27.5	27.5	27.5	—	—
MXW25	A	—	—	—	82.5	70.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
	B	—	—	—	212.5	224.5	254.5	274.5	299.5	324.5	349.5	374.5	399.5
	V	—	—	—	70.5	58.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5

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

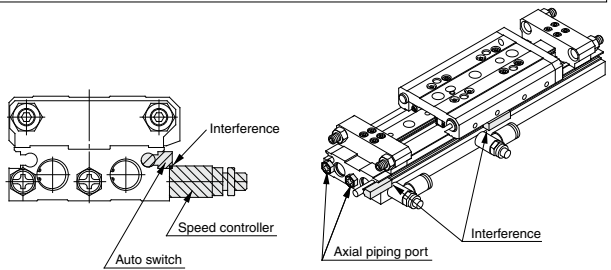
Operating Range

Auto switch model	Applicable bore size (mm)				
	8	12	16	20	25
D-A9□ D-A9□V	6	6	8.5	10	10
D-M9□ D-M9□V D-M9□W D-M9□WV D-M9□A D-M9□AV	3.5	3.5	5	6	5.5

* Since the operating range is provided as a guideline including hysteresis, it cannot be guaranteed (assuming approximately ±30% dispersion). It may vary substantially depending on an ambient environment.

⚠ Caution

Caution on Handling Auto Switches/For MXW8 only



When an auto switch is installed on the port side of MXW8, some switches could interfere with the speed controller or a fitting. Therefore, use one of the methods described below for installing the auto switch.

1. Use the port for piping in the axial direction.
 2. Install an auto switch on the opposite side of the port.
 3. Use a pipe fitting with 7 mm width across flats or ø8 external diameter or less.
- **M-5J** (Extension fittings) + **AS1201F-M5-04** (Speed controller with One-touch fittings, Elbow type)
 - **KJL04-M5** (One-touch fitting) + **AS1001F-04** (Speed controller with One-touch fittings, In-line type)

Table for Auto Switch Interference with Speed Controller and Fittings

Auto switch model	Electrical entry direction	Wiring type	Auto switch model
Solid state auto switch D-M9□V	Perpendicular	3-wire	D-M9NV, D-M9PV
		2-wire	D-M9BV
2-color indicator solid state auto switch D-M9□WV	Perpendicular	3-wire	D-M9NWV, D-M9PWV
		2-wire	D-M9BWV
Water resistant 2-color indicator solid state auto switch D-M9□AV	Perpendicular	3-wire	D-M9NAV, D-M9PAV
		2-wire	D-M9BAV

Auto Switch Mounting

⚠ Caution

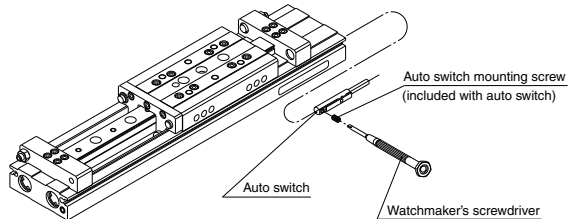
Auto Switch Mounting Tool

- * When adjusting the auto switch mounting screw (included with auto switch), use a watchmaker's screwdriver with a handle about 5 to 6 mm in diameter.

Tightening torque

Tightening Torque of Auto Switch Mounting Screw (N·m)

Auto switch model	Tightening torque
D-A9□ (V)	0.10 to 0.20
D-M9□ (V)	0.05 to 0.15
D-M9□W (V)	0.05 to 0.10



Other than the models listed in "How to Order", the following auto switches are applicable.

- * Normally closed (NC = b contact) solid state auto switches (D-M9□E(V)) and solid state auto switch D-F8 are also available. For details, refer to pages 1307 and 1308.



1 PTFE Grease Symbol -X7

MXW Standard model no. — X7
 ↓
 PTFE grease

PTFE grease is used for all parts that grease is applied.
 For the type with a shock absorber, standard grease is used on the shock absorber part.

Specifications

Type	PTFE grease
Bore size (mm)	8, 12, 16, 20, 25

* Dimensions other than the above is the same as the standard type.

⚠ Warning Precautions

Be aware that smoking cigarettes, etc. after your hands have come into contact with the grease used in this cylinder can create a gas that is hazardous to humans.

2 Grease for Food Processing Machines Symbol -X9

MXW Standard model no. — X9
 ↓
 Grease for food processing machines

Grease for food processing machines is used for all parts that grease is applied.
 For the type with a shock absorber, standard grease is used on the shock absorber part.

Specifications

Type	Grease for Food Processing Machines (NSF-H1 certified)/ Aluminum Complex Soap Base Grease
Bore size (mm)	8, 12, 16, 20, 25

* Dimensions other than the above is the same as the standard type.

⚠ Caution

- Do not use in a food contact environment.
- Do not use in a liquid splash environment, e.g. water, detergent, liquid chemicals.

<Not installable>

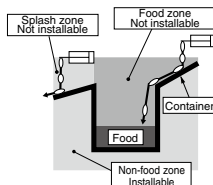
Food zone

An environment where food which will be sold as merchandise directly touches the cylinder's components

Splash zone
 An environment where food which will not be sold as merchandise directly touches the cylinder's components
 <Installable>

Non-food zone

An environment where there is no contact with food



3 Without Built-in Auto Switch Magnet Symbol -X33

MXW Standard model no. — X33
 ↓
 Without built-in auto switch magnet

Auto switch magnet is not built in.

Specifications

Type	Without built-in auto switch magnet
Bore size (mm)	8, 12, 16, 20, 25
Auto switch	Not mountable

* Dimensions other than the above is the same as the standard type.

4 Fluororubber Seal Symbol -X39

MXW Standard model no. — X39
 ↓
 Fluororubber seal

Change the materials for the piston seal, rod seal, O-rings and scrapers (rubber lined parts) to fluororubber.

Specifications

Type	Fluororubber seal
Bore size (mm)	8, 12, 16, 20, 25
Seal material	Fluororubber

* Dimensions other than the above is the same as the standard type.

5 Anti-corrosive Specifications for Guide Unit Symbol -X42

MXW Standard model no. — X42
 ↓
 Anti-corrosive Specifications for Guide Unit

Rail and guide are given anti-corrosive treatment.

Specifications

Type	Anti-corrosive guide unit
Bore size (mm)	8, 12, 16, 20, 25
Surface treatment	Special anti-corrosive treatment (2)

* 1 Dimensions other than the above is the same as the standard type.

* 2 Special anti-corrosive treatment makes the rail and the guide black.



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

6 Adjusting Bolt, Long Specification (Adjustment range: 15 mm)

Symbol
-X11

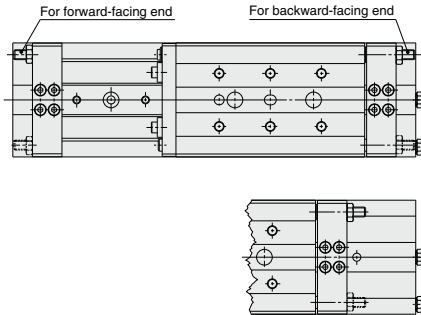
MXW Standard model no. — X11

- Adjusting bolt, long specification
(Adjustment range: 15 mm)

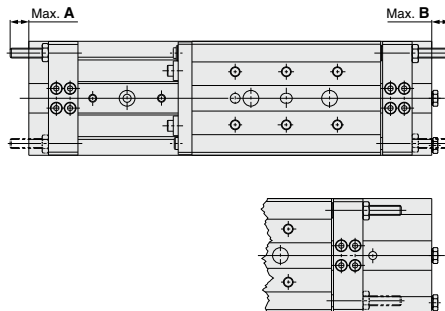
The average adjusting stroke range was extended from 5 mm to 15 mm with a long adjusting bolt.

Dimensions

Standard product



-X11



(mm)

Model	Stroke	A	B
MXW8	25, 50	9	9
	75 to 150	9	—
MXW12	50, 75	9.5	9.5
	100 to 150	9.5	—
MXW16	75, 100	9.5	1.5
	125 to 200	9.5	—
MXW20	100, 125	10	10
	150 to 250	10	—
MXW25	100 to 150	9	9
	175 to 300	9	—