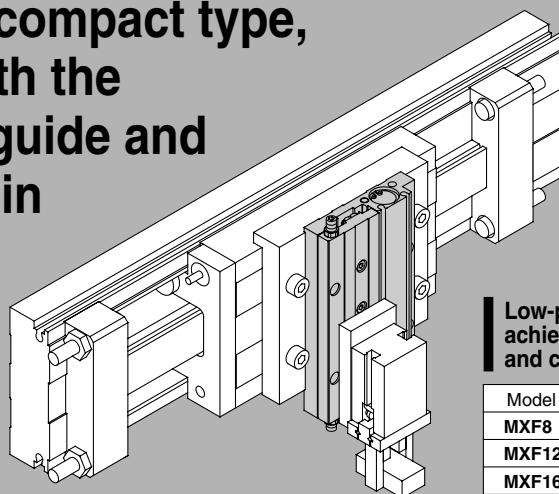


Low Profile Slide Table

Series MXF

$\varnothing 8, \varnothing 12, \varnothing 16, \varnothing 20$

**Low-profile and compact type,
air slide table with the
construction of guide and
cylinder aligned in
parallel.**



Low-profile and compactness have been achieved with the construction of guide and cylinder aligned in parallel.

Model	Height x Width (mm)	Height comparison to MXS
MXF8	16 x 58	67%
MXF12	18.5 x 68	59%
MXF16	21 x 80	53%
MXF20	27 x 92	54%

Neat appearance

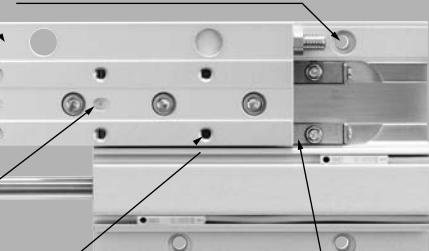
Protecting stopper section with cover realizes neat appearance.

Standard stroke adjustment

Stroke can be adjusted at each stroke end within 5 mm each end and 10 mm is total.



Body mounting (Body tapped)

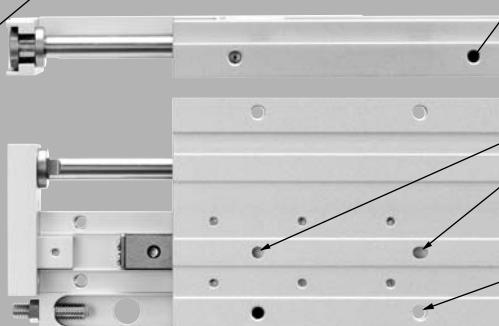


Reproducibility for mounting and dismounting

Positioning pin holes on table top allows precise and easy mounting to change workpiece.

Stronger thread for mounting work

Insert thread for mounting work.



High rigidity

Cross roller guide allows smooth operation without vibration.

Slim body

Low-profile has been achieved with the construction of guide and cylinder aligned in parallel.

Optional porting

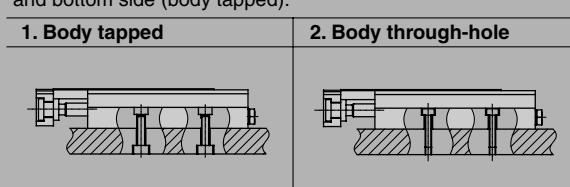
Lateral and axial piping from 2 directions is possible.

Reproducibility for mounting and dismounting

Pin holes for positioning on bottom of slide allows precise and accurate mounting of actuator.

Body mounting (Body tapped)

Mounting can be done from 2 directions top side (through-hole) and bottom side (body tapped).



Series Variations

Model	Bore size (mm)	Stroke (mm)	Auto switch
MXF8	8	10 20 30 50 75 100	Reed auto switch D-A9□, D-A9□V
MXF12	12	20 30 50	Solid state auto switch D-M9□, D-M9□V
MXF16	16	30 50 75	2-color indication solid state auto switch D-M9□W, D-M9□WV
MXF20	20	30 50 75 100	

MXH
MXU
MXS
MXQ
MXF
MXW
MXJ
MXP
MXY
MTS

D-□
-X-□
Individual
-X-□

Model Selection

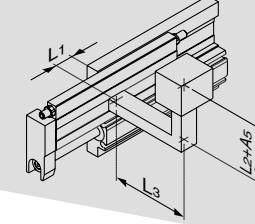
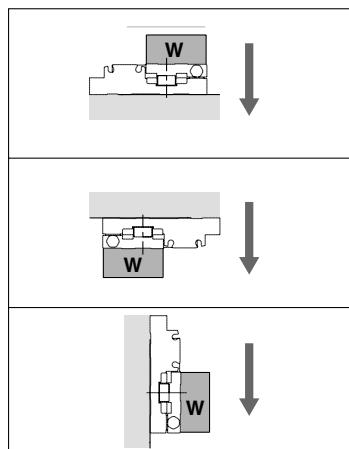
Model Selection Step	Formula/Data	Selection Example
1 Operating Conditions	<ul style="list-style-type: none"> Model to be used Type of cushion Workpiece mounting position Mounting orientation Average speed V_a (mm/s) Load mass W (kg): Fig. (1) Overhang L_n (mm): Fig. (2) 	 <p>Cylinder: MXF20-50 Cushion: Rubber bumper Workpiece table mounting Mounting: Horizontal wall mounting Average speed: $V_a = 300$ [mm/s] Allowable load: $W = 0.5$ [kg] $L_1 = 10$ mm $L_2 = 30$ mm $L_3 = 30$ mm</p>
2 Kinetic Energy	<p>Find the kinetic energy E (J) of the load. Find the allowable kinetic energy E_a (J). Confirm that the kinetic energy of the load does not exceed the allowable kinetic energy.</p> <p>$E = \frac{1}{2} \cdot W \left(\frac{V}{1000} \right)^2$ Collision speed $V = 1.4 \cdot V_a$ *) Correction factor $E_a = K \cdot E_{max}$ Workpiece mounting coefficient K: Fig. (3) Max. allowable kinetic energy E_{max}: Table (1) Kinetic energy (E) \leq Allowable kinetic energy (E_a)</p>	$E = \frac{1}{2} \cdot 0.5 \left(\frac{420}{1000} \right)^2 = 0.044$ $V = 1.4 \times 300 = 420$ $E_a = 1 \cdot 0.16 = 0.16$ Can be used based on $E = 0.044 \leq E_a = 0.16$
3 Load Factor		
3-1 Load factor of load mass	<p>Find the allowable load mass W_a (kg). Note) No need to consider this load factor in the case of using perpendicularly in a vertical position. (Define $\alpha_1 = 0$.) Find the load factor of the load mass α_1.</p> <p>$W_a = K \cdot \beta \cdot W_{max}$ Workpiece mounting coefficient K: Fig. (3) Allowable load mass coefficient β: Graph (1) Max. allowable load mass W_{max}: Table (2) $\alpha_1 = W/W_a$</p>	$W_a = 1 \times 1 \times 4 = 4$ $K = 1$ $\beta = 1$ $W_{max} = 4$ $\alpha_1 = 0.5/4 = 0.125$
3-2 Load factor of the static moment	<p>Find the static moment M (N·m). Find the allowable static moment M_a (N·m).</p> <p>$M = W \times 9.8 (L_n + A_n)/1000$ Moment center position distance compensation amount A_n: Table (3) $M_a = K \cdot \gamma \cdot M_{max}$ Workpiece mounting coefficient K: Fig. (3) Allowable moment coefficient γ: Graph (2) Maximum allowable moment M_{max}: Table (4)</p> <p>$\alpha_2 = M/M_a$</p>	<p>Yawing</p> <p>Examine M_y. $M_y = 0.5 \times 9.8 (10 + 11)/1000 = 0.11$ $A_3 = 11$</p> <p>$M_{max} = 1 \times 1 \times 9.14 = 9.14$ $K = 1$ $\gamma = 1$</p> <p>$\alpha_2 = 0.11/9.14 = 0.012$</p> <p>Rolling</p> <p>Examine M_r. $M_r = 0.5 \times 9.8 (30 + 17)/1000 = 0.23$ $A_6 = 17$</p> <p>$M_{max} = 9.14$ (Same as May)</p> <p>$\alpha_2' = 0.23/9.14 = 0.025$</p>
3-3 Load factor of dynamic moment	<p>Find the dynamic moment M_e (N·m).</p> <p>$M_e = 1/3 \cdot W_e \times 9.8 \frac{(L_n + A_n)}{1000}$</p> <p>Collision equivalent to impact $W_e = \delta \cdot W \cdot V$ δ: Bumper coefficient With urethane bumper (Standard) = 4/100 Corrected value for moment center position distance A_n: Table (3)</p> <p>$M_{ea} = K \cdot \gamma \cdot M_{max}$ Workpiece mounting coefficient K: Fig. (3) Allowable moment coefficient γ: Graph (2) Max. allowable moment M_{max}: Graph (4)</p> <p>$\alpha_3 = M_e/M_{ea}$</p>	<p>Pitching</p> <p>Examine M_{ep}. $M_{ep} = 1/3 \times 8.4 \times 9.8 \times \frac{(30 + 17)}{1000} = 1.3$ $W_e = 4/100 \times 0.5 \times 420 = 8.4$ $A_2 = 17$ $M_{eap} = 1 \times 0.7 \times 9.14 = 6.40$ $K = 1$ $\gamma = 0.7$ $M_{max} = 9.14$ $\alpha_3 = 1.3/6.40 = 0.20$</p> <p>Yawing</p> <p>Examine M_{ey}. $M_{ey} = 1/3 \times 8.4 \times 9.8 \times \frac{(30 + 34)}{1000} = 1.8$ $W_e = 8.4$ $A_4 = 34$ $M_{eay} = 6.40$ (Same value as M_{eap}) $\alpha_3' = 1.8/6.4 = 0.28$</p>
3-4 Sum of the load factors	<p>Use is possible if the sum of the load factors does not exceed 1.</p> <p>$\sum \alpha_n = \alpha_1 + \alpha_2 + \alpha_3 + \alpha_3' \leq 1$</p>	$\sum \alpha_n = \alpha_1 + \alpha_2 + \alpha_3 + \alpha_3' = 0.125 + 0.012 + 0.025 + 0.20 + 0.28 = 0.642 \leq 1$ And it is possible to use.

Fig. (1) Load mass: W (kg)



Note) No need to consider this load factor in the case of using perpendicularly in a vertical position.

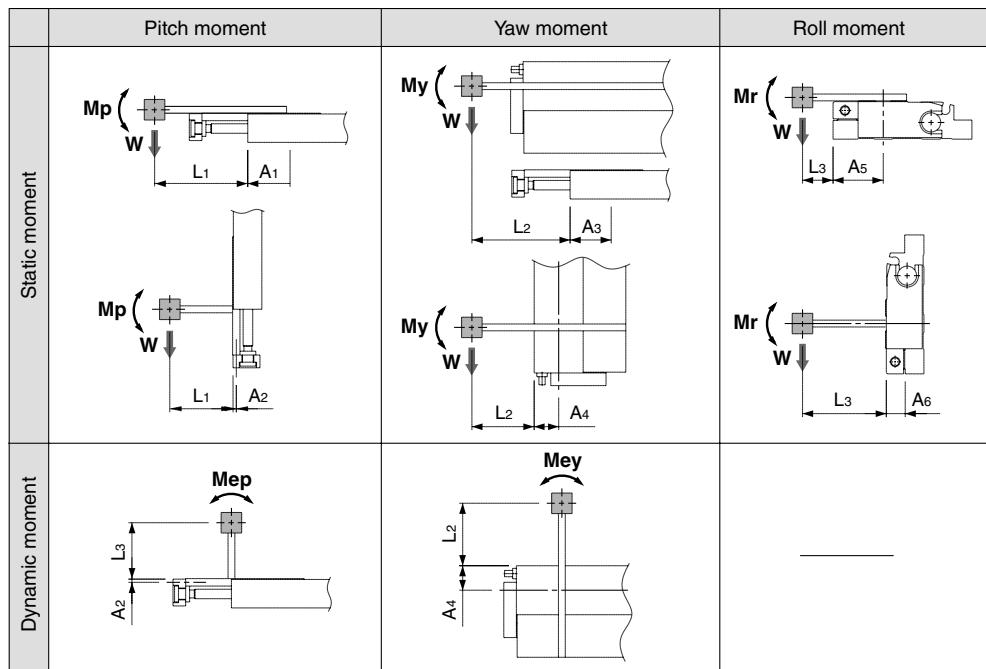
Fig. (3) Workpiece Mounting Coefficient: K

Table mounting	
	$K = 1$
End plate mounting	
	$K = 0.6$

Table (2) Maximum Allowable Load mass: Wmax (kg)

Model	Maximum allowable load mass
MXF8	0.6
MXF12	1
MXF16	2
MXF20	4

Fig. (2) Overhang: Ln (mm), Correction Values for Moment Center Distance: An (mm)



Note) Static moment: Moment generated by gravity
Dynamic moment: Moment generated by impact when colliding with stopper

Table (1) Maximum Allowable Kinetic Energy: Emax (J)

Model	Allowable kinetic energy	
	Rubber bumper	
MXF8	0.027	
MXF12	0.055	
MXF16	0.11	
MXF20	0.16	

Table (3) Moment Center Position Distance Compensation Amount: An (mm)

Model	Moment center position distance compensation amount (Refer to Fig. (2).)					
	A1	A2	A3	A4	A5	A6
MXF8	6 ^{Note)}	10	6 ^{Note)}	21	21	10
MXF12	10	11	10	23	23	11
MXF16	10	12	10	28	28	12
MXF20	11	17	11	34	34	17

Note) 16 mm for MXF8-10 only.

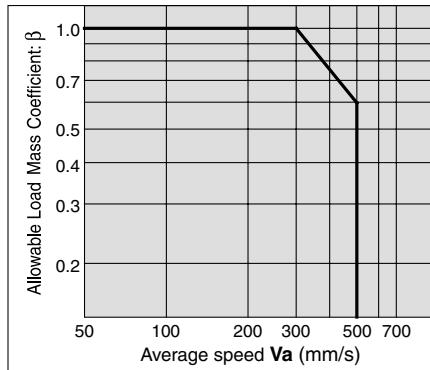
Table (4) Maximum Allowable Moment: Mmax (N·m)

Model	Stroke (mm)				
	10	20	30	50	75
MXF8	0.56	0.78	0.98	—	—
MXF12	—	1.65	2.22	3.34	—
MXF16	—	—	3.41	5.69	7.96
MXF20	—	—	6.66	9.14	13.70
					18.27

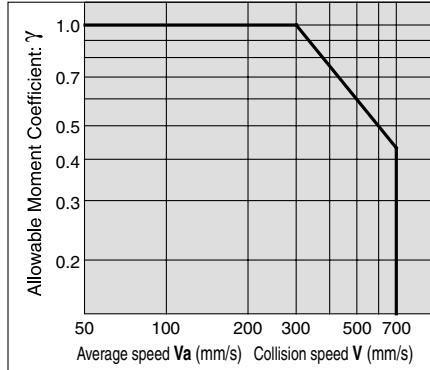
Symbol

Symbol	Definition	Unit
An (n = 1 to 6)	Correction values of moment center position distance	mm
E	Kinetic energy	J
Ea	Allowable kinetic energy	J
Emax	Max. allowable kinetic energy	J
Ln (n = 1 to 3)	Overhang	mm
M (Mp, My, Mr)	Static moment (pitch, yaw, roll)	N·m
Ma (Map, May, Mar)	Allowable static moment (pitch, yaw, roll)	N·m
Me (Mep, May, Mey)	Dynamic moment (pitch, yaw)	N·m
Mea (Meap, Meay)	Allowable dynamic moment (pitch, yaw)	N·m
Mmax (Mpmax, Mymax, Mrmax)	Maximum allowable moment (pitch, yaw, roll)	N·m
V	Collision speed	mm/s

Graph (1) Allowable Load Mass Coefficient: β



Graph (2) Allowable Moment Coefficient: γ



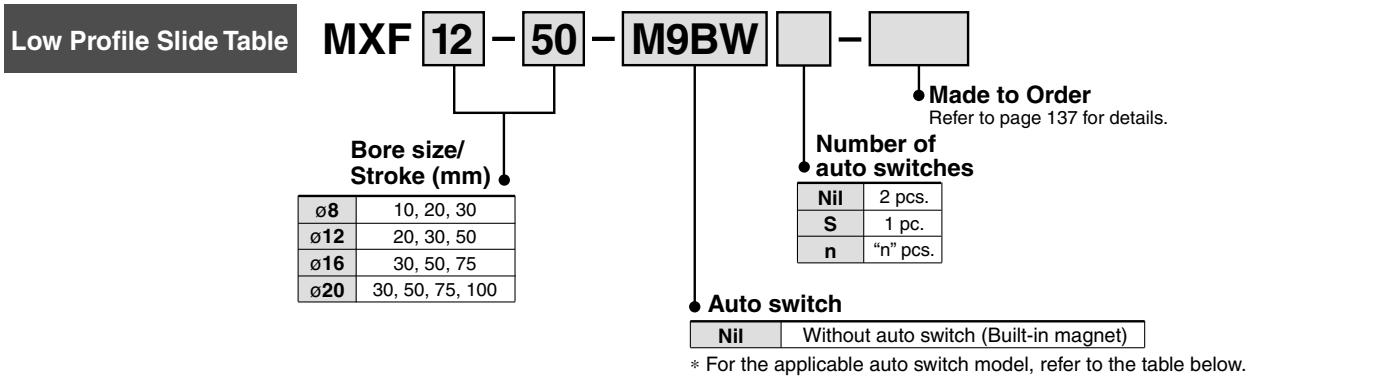
Note) Use the average speed when calculating static moment.
Use the collision speed when calculating dynamic moment.

Symbol	Definition	Unit
V_a	Average speed	mm/s
W	Load mass	kg
Wa	Allowable load mass	kg
We	Mass equivalent to impact	kg
Wmax	Max. allowable load mass	kg
α	Load factor	—
β	Allowable load mass coefficient	—
γ	Allowable moment coefficient	—
δ	Damper coefficient	—
K	Workpiece mounting coefficient	—

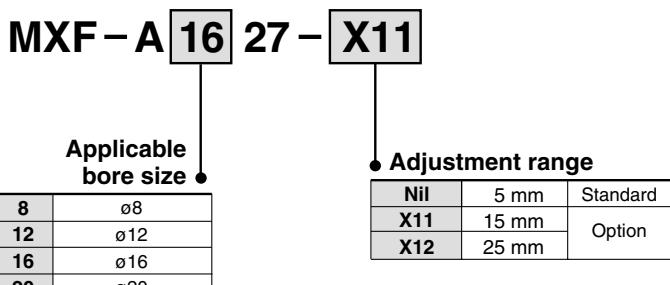
MXH
MXU
MXS
MXQ
MXF
MXW
MXJ
MXP
MXY
MTS

Low Profile Slide Table Series **MXF**

How to Order



How to Order Stroke Adjusting Bolt (Accessory)



* -X12 (adjustable range 25 mm) is not available in Series MXF8/MXF12.

Applicable Auto Switch

Refer to pages 1719 to 1827 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)					
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24 V	—	M9NV	M9N	●	●	●	○	○	IC circuit	Relay, PLC		
				3-wire (PNP)			M9PV	M9P	●	●	●	○	○				
				2-wire			M9BV	M9B	●	●	●	○	○				
				3-wire (NPN)			M9NWV	M9NW	●	●	●	○	○	IC circuit			
				3-wire (PNP)			M9PWV	M9PW	●	●	●	○	○				
				2-wire			M9BWV	M9BW	●	●	●	○	○				
	Diagnostic indication (2-color indication)			3-wire (NPN equivalent)			A96V	A96	●	—	●	—	—	IC circuit	—		
				—			—	—	—	—	—	—	—	Relay, PLC			
				2-wire			100 V	A93V	A93	●	—	●	—				
				24 V			100 V or less	A90V	A90	●	—	●	—	IC circuit			

* 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 145 for details.

* For details about auto switches with pre-wired connector, refer to pages 1784 and 1785.

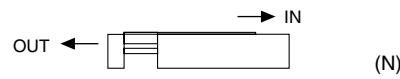
* Auto switches are shipped together (not assembled).



Specifications

Bore size (mm)	8	12	16	20
Piping port size	M3 x 0.5		M5 x 0.8	
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		
Piston speed		50 to 500 mm/s		
Cushion		Rubber bumper on both sides		
Lubrication		Non-lube		
Auto switch (Option)		Reed auto switch Solid state auto switch (2-wire, 3-wire) 2-color indication solid state auto switch (2-wire, 3-wire)		
Stroke length tolerance		+1 mm		
Stroke adjustment range		Extension end 5 mm/Retraction end 5 mm		

Theoretical Output



Bore size (mm)	Rod size (mm)	Operating direction	Piston area (mm²)	Operating pressure (MPa)						
				0.2	0.3	0.4	0.5	0.6	0.7	
8	4	OUT	50	10	15	20	25	30	35	
		IN	38	8	11	15	19	23	27	
12	6	OUT	113	23	34	45	57	68	79	
		IN	85	17	26	34	43	51	60	
16	8	OUT	201	40	60	80	101	121	141	
		IN	151	30	45	60	76	91	106	
20	10	OUT	314	63	94	126	157	188	220	
		IN	236	47	71	94	118	142	165	

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



Made to Order Specifications

(For details, refer to pages 1955 to 2021.)

Symbol	Specifications
-X7	PTFE grease
-X9	Grease for food
-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
-X45	EPDM seal

Standard Stroke

Model	Standard stroke (mm)
MXF8	10, 20, 30
MXF12	20, 30, 50
MXF16	30, 50, 75
MXF20	30, 50, 75, 100

Mass

Model	Standard stroke (mm)					
	10	20	30	50	75	100
MXF8	120	130	170	—	—	—
MXF12	—	210	250	360	—	—
MXF16	—	—	360	500	690	—
MXF20	—	—	600	750	1060	1370

MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS

D-□

-X□

Individual

-X□

Series MXF

Table Deflection (Reference Values)

Table displacement due to pitch moment load

Table displacement when loads are applied to the section marked with the arrow at the full stroke.

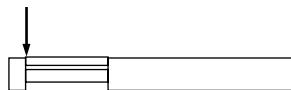


Table displacement due to yaw moment load

Table displacement when loads are applied to the section marked with the arrow at the full stroke.

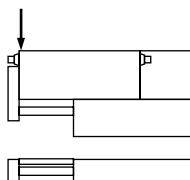
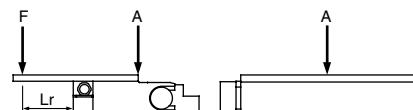
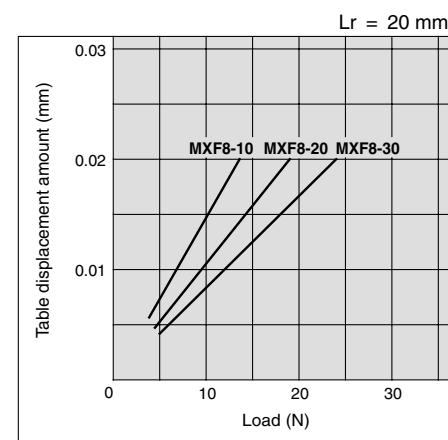
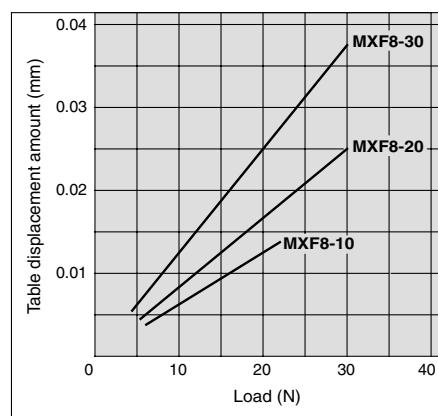
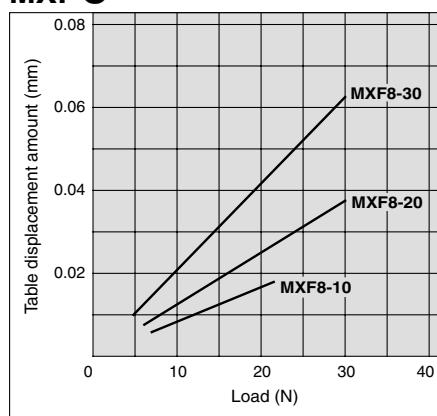


Table displacement due to roll moment load

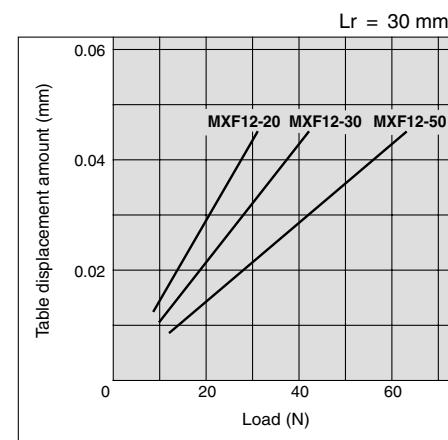
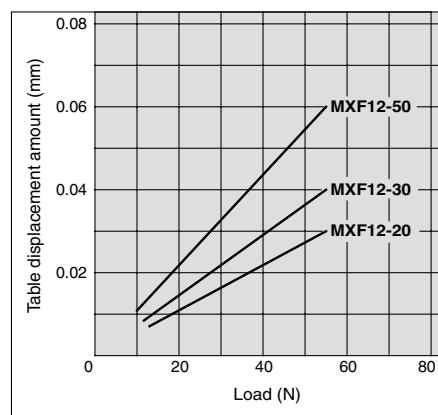
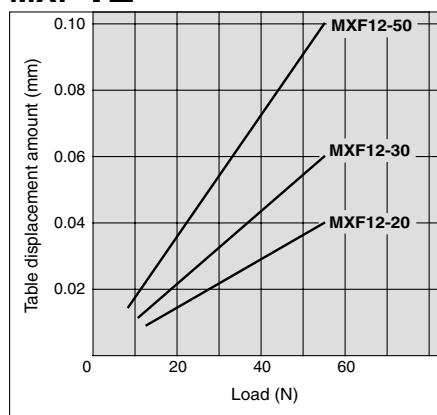
Table displacement of section A when loads are applied to the section F with the slide table retracted.



MXF 8



MXF 12

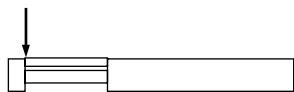


Low Profile Slide Table Series MXF

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 displacement due to pitch moment load

Table displacement when loads are applied to the section marked with the arrow at the full stroke.



MXF 16

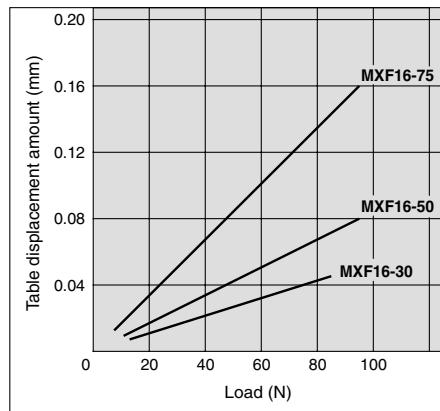


Table displacement due to yaw moment load

Table displacement when loads are applied to the section marked with the arrow at the full stroke.

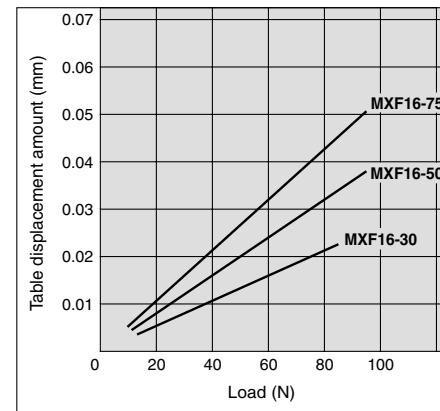
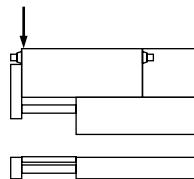
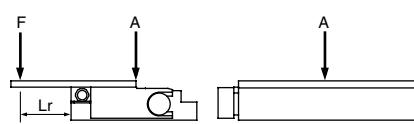
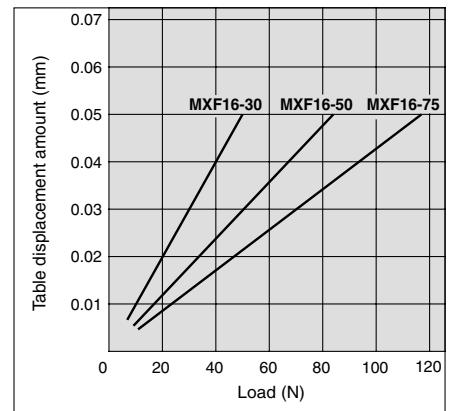


Table displacement due to roll moment load

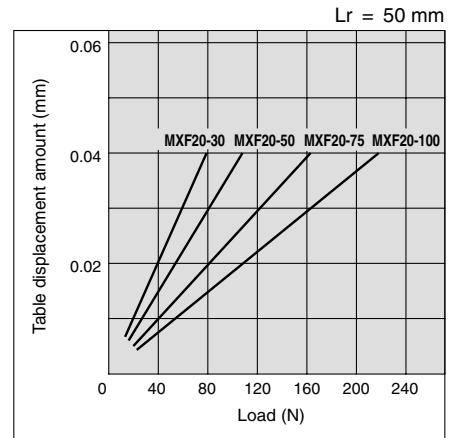
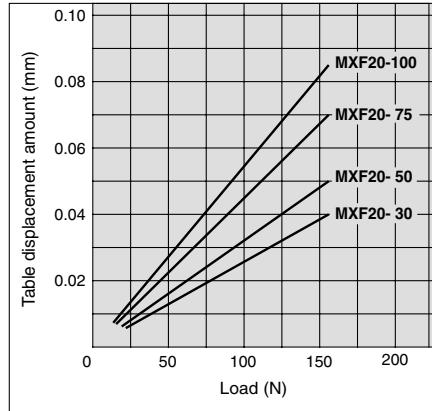
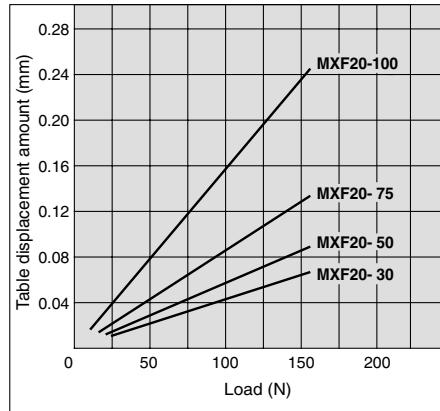
Table displacement of section A when loads are applied to the section F with the slide table retracted.



$L_r = 40 \text{ mm}$



MXF 20



MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS

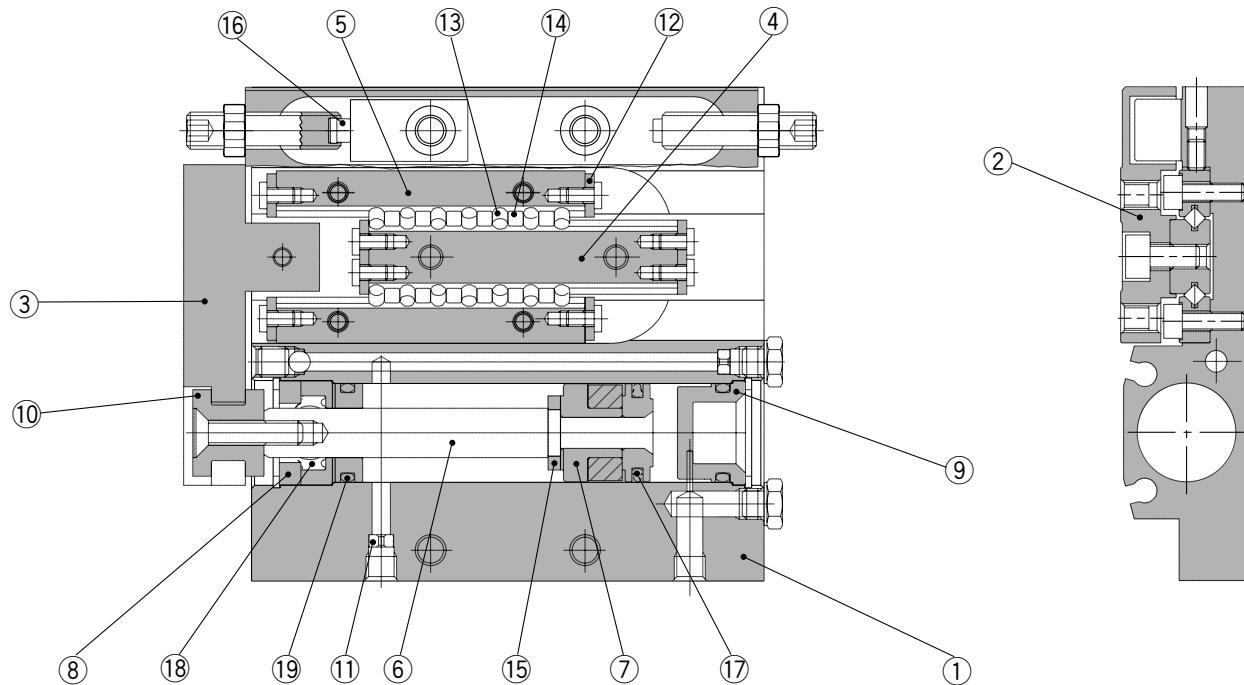
D-

-X

Individual
-X

Series MXF

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	Rail	Carbon tool steel	Heat treated
5	Guide	Carbon tool steel	Heat treated
6	Rod	Stainless steel	
7	Piston assembly	—	With magnet
8	Seal support	Brass	Electroless nickel plated
9	Head cap	Resin	
10	Floating bushing	Stainless steel	
11	Orifice	Brass	Electroless nickel plated
12	Roller stopper	Stainless steel	
13	Cylindrical roller	High carbon chrome bearing steel	
14	Roller spacer	Resin	
15	Rod bumper	Polyurethane	

Component Parts

No.	Description	Material	Note
16	Adjust bumper	Polyurethane	
17	Piston seal	NBR	
18	Rod seal	NBR	
19	O-ring	NBR	

Replacement Parts: Seal Kit

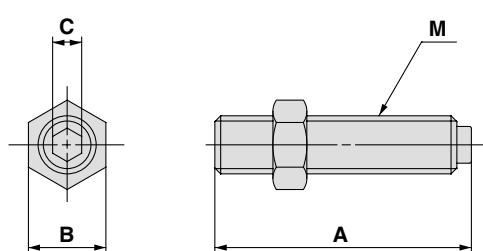
Bore size (mm)	Kit no.	Contents
8	MXF8-PS	Set of nos. above ⑯ to ⑲
12	MXF12-PS	
16	MXF16-PS	
20	MXF20-PS	

* Seal kit includes ⑯, ⑰, ⑲. Order the seal kit, based on each bore size.

Replacement Part: Grease Pack

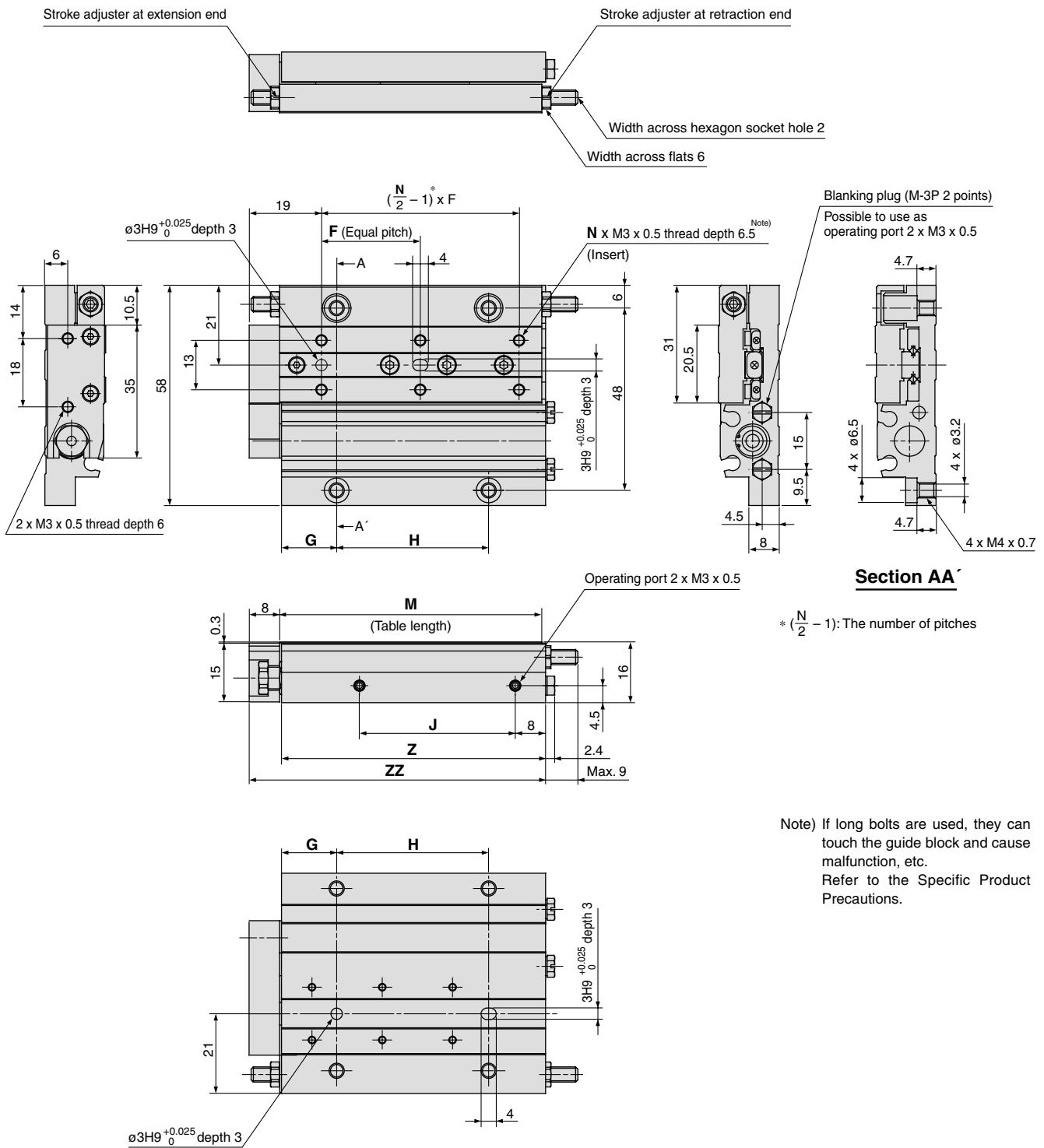
Applied part	Grease pack part no.
Guide	GR-S-005 (5 g) GR-S-010 (10 g) GR-S-020 (20 g) GR-S-050 (50 g)
Cylinder	GR-L-005 (5 g) GR-L-010 (10 g) GR-L-020 (20 g) GR-L-050 (50 g)

Dimensions: Stroke Adjusting Bolt



Applicable size	Model	Stroke adjustable range (mm)	A	B	C	M
MXF8	MXF-A827	5	17	6	2	M4 x 0.7
	MXF-A827-X11	15	27			
MXF12	MXF-A1227	5	23.5	7	2.5	M5 x 0.8
	MXF-A1227-X11	15	33.5			
MXF16	MXF-A1627	5	26.5	8	3	M6 x 1
	MXF-A1627-X11	15	36.5			
	MXF-A1627-X12	25	46.5			
MXF20	MXF-A2027	5	30	12	4	M8 x 1
	MXF-A2027-X11	15	40			
	MXF-A2027-X12	25	50			

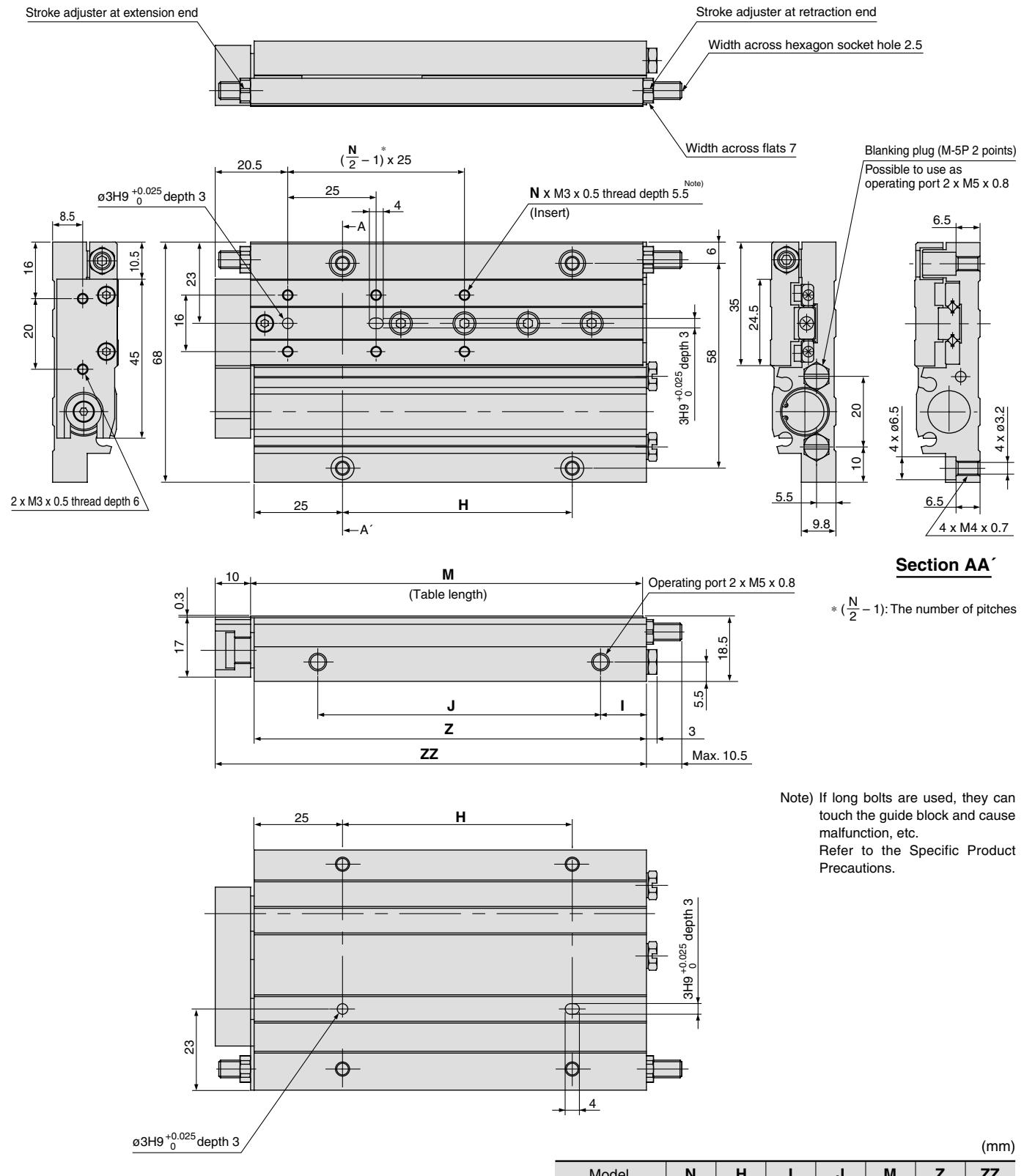
Dimensions: MXF8



Model	F	N	G	H	J	M	Z	ZZ	(mm)
MXF8-10	20	4	13.5	22	21	49	49.5	58	
MXF8-20	26	4	14.5	26	26	54	54.5	63	
MXF8-30	26	6	14.5	40	41	69	69.5	78	

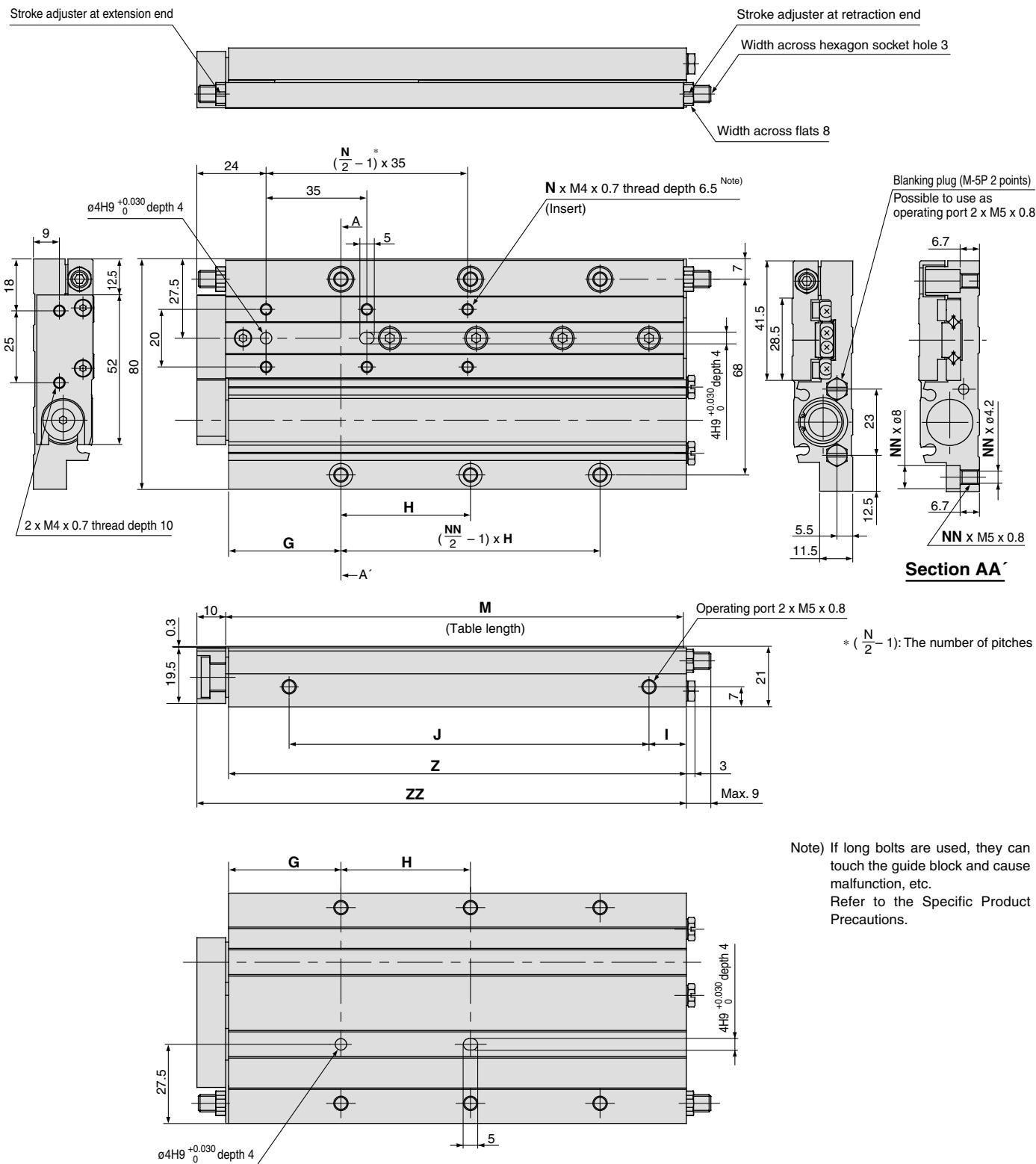
Series MXF

Dimensions: MXF12



Model	N	H	I	J	M	Z	ZZ
MXF12-20	4	22	11	36	65	65	76
MXF12-30	4	30	12	45	75	75	86
MXF12-50	6	65	13	80	111	111	122

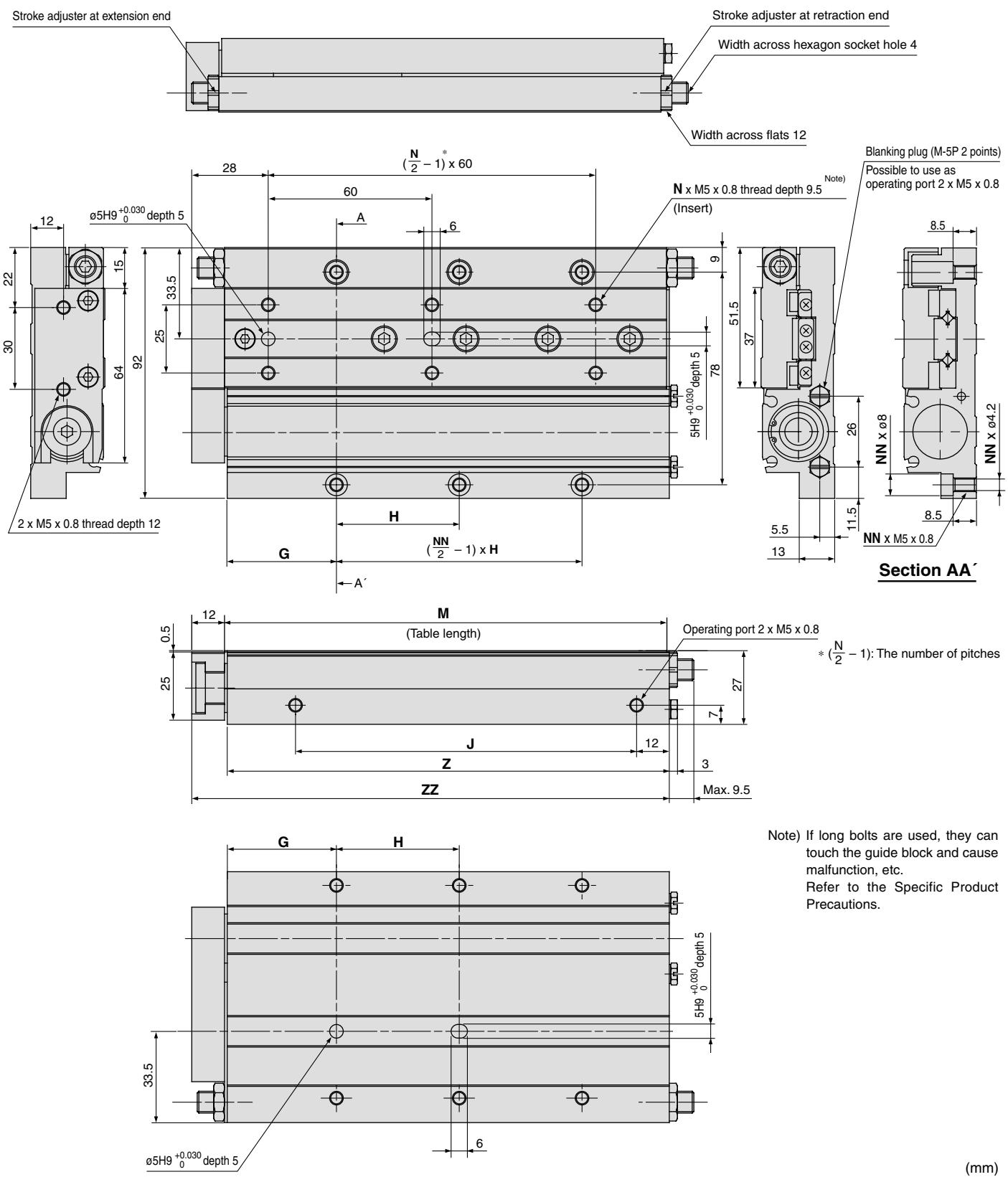
Dimensions: MXF16



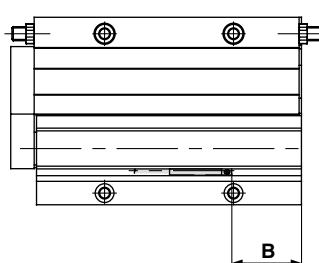
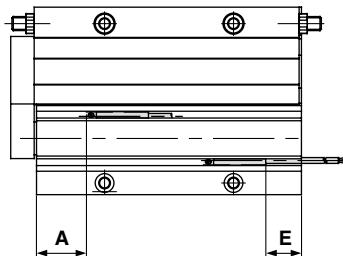
Model	N	G	H	NN	I	J	M	Z	ZZ	(mm)
MXF16-30	4	29	25	4	12	50	83	83	94	
MXF16-50	6	29	55	4	12	80	113	113	124	
MXF16-75	6	39	45	6	13	125	159	159	170	

Series MXF

Dimensions: MXF20



Model	N	G	H	NN	J	M	Z	ZZ
MXF20-30	4	29	30	4	57	91	91	104
MXF20-50	4	36	45	4	77	113	113	126
MXF20-75	6	40	45	6	125	162	162	175
MXF20-100	6	59	60	6	175	211	211	224

Auto Switch Proper Mounting Position (Detection at Stroke End)**Reed Auto Switch: D-A90, D-A93, D-A96, D-A90V, D-A93V, D-A96V (mm)**

Model	A	B						E					
		Stroke						Stroke					
		10	20	30	50	75	100	10	20	30	50	75	100
MXF8	9.5	10	5	10	—	—	—	(5.5)	(0.5)	(5.5)	—	—	—
MXF12	12	—	13.1	13.1	29.1	—	—	(8.6)	11.1	11.1	27.1	(24.6)	—
MXF16	17.2	—	—	15.8	25.8	46.8	—	—	—	13.8	23.8	44.8	—
MXF20	19.4	—	—	20.7	22.7	46.2	70.7	—	—	18.7	20.7	44.2	68.7

Solid State Auto Switch: D-M9B, D-M9N, D-M9P, D-M9BW, D-M9NW, D-M9PW (mm)

Model	A	B						E					
		Stroke						Stroke					
		10	20	30	50	75	100	10	20	30	50	75	100
MXF8	13.5	14	9	14	—	—	—	4	-1	4	—	—	—
MXF12	16	—	17.1	17.1	33.1	—	—	—	7.1	7.1	23.1	—	—
MXF16	21.2	—	—	19.8	29.8	50.8	—	—	—	9.8	19.8	40.8	—
MXF20	23.4	—	—	24.7	26.7	50.2	74.7	—	—	14.7	16.7	40.2	64.7

Solid State Auto Switch: D-M9BV, D-M9NV, D-M9PV, D-M9BWV, D-M9NWV, D-M9PWV (mm)

Model	A	B						E					
		Stroke						Stroke					
		10	20	30	50	75	100	10	20	30	50	75	100
MXF8	13.5	14	9	14	—	—	—	6	1	6	—	—	—
MXF12	16	—	17.1	17.1	33.1	—	—	—	9.1	9.1	25.1	—	—
MXF16	21.2	—	—	19.8	29.8	50.8	—	—	—	11.8	21.8	42.3	—
MXF20	23.4	—	—	24.7	26.7	50.2	74.7	—	—	16.7	18.7	42.2	66.7



*(): Denotes the values of D-A93.

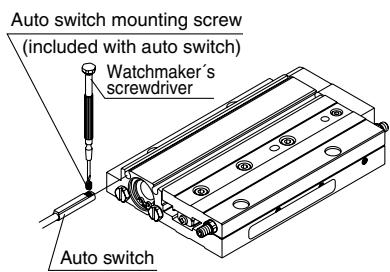
Note) Adjust the auto switch after confirming the operating conditions in the actual setting.

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 0.15

**Operating Range**

Auto switch model	Applicable bore size (mm)			
	8	12	16	20
D-A9□(V)	4.5	5	6	7
D-M9□, M9□V	3	3	4.5	5
D-M9□W, M9□WV	3	3	4.5	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.

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-F9G/F9H types) and solid state auto switch D-F8 are also available.
- For details, refer to pages 1745 and 1746.

D-□**-X**□

Individual

-X□



Series MXF

Specific Product Precautions

Be sure to read before handling. Refer to front matters 42 and 43 for Safety Instructions and pages 3 to 11 for Actuator and Auto Switch Precautions.

Mounting

⚠ Caution

- Do not scratch or dent the mounting side of the body, table or end plate. It causes play in the guide section and increases sliding resistance.
- Do not scratch or dent on the forward side of the rail or guide. It will result in looseness of the guide section and increased sliding resistance.
- Keep away from objects which are influenced by magnets.
As the piston part has magnets built-in, do not allow close contact with magnetic disks, magnetic cards or magnetic tapes. Data may be erased.
- When mounting the body, use screws with appropriate length and do not exceed the maximum tightening torque. Tightening with a torque above the limit could malfunction. Whereas tightening insufficiently could result in misalignment or come to a drop.
- Be careful when adjusting stroke not to allow cylinder end plate to bottom out against cylinder body.

Positioning

⚠ Caution

- The positioning hole on the table and on the bottom of the body does not have the same center. Positioning hole is meant to be for reproducibility for mounting and dismounting.

Selection

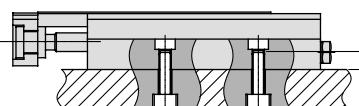
⚠ Caution

- If intermediate stop by external stopper is done, avoid ejection.
If ejection occurs, it may cause damage. In the case the slide table is stopped at an intermediate position by an external stopper then forwarded to the front, return the slide table to the back for just a moment to retract the stopper, then supply pressure to the opposite port to operate slide table.
- Do not use it in such a way that excessive external force or impact force could work on it.
This could result in damage.

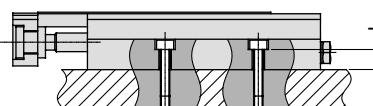
Mounting of Body

The slide table can be mounted from 2 directions. Select the best direction according to your application.

1. Body Tapped



2. Body Through-hole



Model	Bolt	Maximum tightening torque (N·m)	Maximum screw-in depth L (mm)
MXF8	M4 x 0.7	2.1	4.7
MXF12	M4 x 0.7	2.1	6.5
MXF16	M5 x 0.8	4.4	6.7
MXF20	M5 x 0.8	4.4	8.5

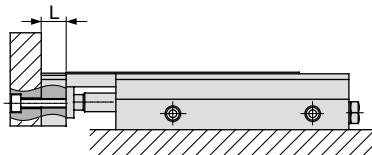
Model	Bolt	Maximum tightening torque (N·m)	Maximum screw-in depth L (mm)
MXF8	M3 x 0.5	1.2	4.7
MXF12	M3 x 0.5	1.2	6.5
MXF16	M4 x 0.7	2.8	6.7
MXF20	M4 x 0.7	2.8	8.5

⚠ Caution 0.02 mm or less of flatness is recommended for the body mounting surface. An uneven mounting surface of a workpiece or a base may cause vibration or increase sliding resistance.

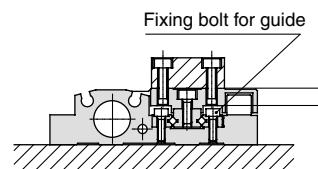
Mounting of Workpiece

Work can be mounted on two sides of the body.

1. Front Mounting



2. Top Mounting



Model	Bolt	Maximum tightening torque (N·m)	Maximum screw-in depth L (mm)
MXF8	M3 x 0.5	0.9	6
MXF12	M3 x 0.5	0.9	6
MXF16	M4 x 0.7	2.1	10
MXF20	M5 x 0.8	4.4	12

Model	Bolt	Maximum tightening torque (N·m)	Maximum screw-in depth L (mm)
MXF8	M3 x 0.5	0.9	6.5
MXF12	M3 x 0.5	0.9	5.5
MXF16	M4 x 0.7	2.1	6.5
MXF20	M5 x 0.8	4.4	9.5

⚠ Caution

To prevent the workpiece holding bolts from touching the guide holding bolts, use bolts that are 0.5 mm or more shorter than the maximum screw-in depth.

If the bolts are too long, they hit the end plate and may cause malfunctions.