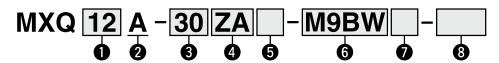
Air Slide Table **Double-ported Type**

A Series

Ø6, Ø8, Ø12, Ø16, Ø20, Ø25



How to Order



1 Bore	Body option: Double-ported type	3 Standard stroke [mm]
size	Α	
6	Port Switch mounting growe Switch mounting grove	10, 20, 30, 40, 50
8		10, 20, 30, 40, 50, 75
12		10, 20, 30, 40, 50, 75, 100
16	Port Switch mounting groone Switch mounting groone Switch mounting groone	10, 20, 30, 40, 50, 75, 100, 125
20		10, 20, 30, 40, 50, 75, 100, 125, 150
25		10, 20, 30, 40, 50, 75, 100, 125, 150*

- * Because piping ports and auto switch grooves are provided on both sides, only the adjuster part of the centralized adjuster is symmetric.
- The operating speed range of the stroke marked with an asterisk (*) is 50 to 300 mm/s. (Refer to page 13.)

5 Functional options

	•
Symbol	Functional option
Nil	Without functional option
1	With buffer
2	With end lock
3	Axial piping
4	With buffer, end lock
5	With buffer, axial piping
6	Centralized adjuster
7	Centralized adjuster (Symmetric)
8	Buffer, Centralized adjuster
9	Buffer, Centralized adjuster (Symmetric)

Number of

auı	O SWILC	•
Nil	2	
S	1	
n	n	

Made to order For details, refer to the next page.

6 Auto switch

Nil Without auto switch

For applicable auto switches, refer to the next page.

4 Adjuster options/Functional option combinations

				unotional option	Adjuster	mounting				Functi	ional opti	on comb	ination				
					position	on*1*8	Nil	1	2	3	4	5	6	7	8	9	
Symbol		Adj	ust	er type* ⁹		Retraction stroke end	Without functional option	*2*3 With buffer	With end lock	Axia l piping	With buffer,	*2*6 With Buffer, axial piping	Centralized	*7 Centralized adjuster (Symmetric)			
Z	W	ithout adjuste	r				0	0	0	0	0	0	×	×	×	×	
ZA							0	×	×	0	×	×	0	0	×	×	
ZB	Me	etal stopper w	/ith	bumper	•		0	×	0	0	×	×	×	×	×	×	
ZC							0	×	×	0	×	×	0	0	0	0	
ZD					•	•	0	×	×	0	×	×	0	0	0	0	
ZE	Rι	ubber stopper			•		0	0	0	0	0	0	×	×	×	×	
ZF						•	0	×	×	0	×	×	0	0	0	0	
ZG					•	•	0	×	×	0	×	×	0	0	×	×	
ZH	Sh	ock absorber	/Ru	J	•		0	×	0	0	×	×	×	×	×	×	
ZJ						•	0	×	×	0	×	×	0	0	0	0	
ZK					•	•	0	×	×	0	×	×	0	0	0	0	
ZL	Metal stopper				•		0	0	0	0	0	0	×	×	×	×	
ZM						•	0	×	×	0	×	×	0	0	0	0	
ZN				Without adjuster	/	1	0	○*5	×	0	×	○*5	×	×	×	×	
ZP	O.			Rubber stopper		•	0	×	×	0	×	×	×	×	×	×	
ZQ		norter total ngth type*4		Shock absorber/RJ	1 /	•	0	×	×	0	×	×	×	×	×	×	
ZS	iei	igin type	type*4	pe*4 5	Metal stopper with bumper	1 /	•	0	×	×	0	×	×	×	×	×	×
ZT			adjuster	Metal stopper	V	•	0	×	×	0	×	×	×	×	×	×	
ZBF	_	Metal	adj.	Rubber stopper	•	•	0	×	×	0	×	×	0	0	×	×	
ZBJ	adjuster	stopper with	end	Shock absorber/RJ	•	•	0	×	×	0	×	×	0	0	×	×	
ZBM	흦	bumper	ē	Metal stopper	•	•	0	×	×	0	×	×	0	0	×	×	
ZEC		Dulahar	stroke	Metal stopper with bumper	•	•	0	×	×	0	×	×	0	0	0	0	
ZEJ	end	Rubber	탏	Shock absorber/RJ	•	•	0	×	×	0	×	×	0	0	0	0	
ZEM	e	stopper		Metal stopper	•	•	0	×	×	0	×	×	0	0	0	0	
ZHC	stroke	Chast	Retraction	Metal stopper with bumper	•	•	0	×	×	0	×	×	0	0	×	×	
ZHF		Shock	ţ.	Rubber stopper	•	•	0	×	×	0	×	×	0	0	×	×	
ZHM	ö	absorber/RJ	æ	Metal stopper	•	•	0	×	×	0	×	×	0	0	×	×	
ZLC	SU			Metal stopper with bumper	•	•	Ō	×	×	Ō	×	×	Ō	Ō	0	0	
ZLF	Extension	Metal		Rubber stopper	•	•	Ö	×	×	Ö	×	×	Ö	Ö	Ö	Ö	
ZLJ	Ш	stopper		Shock absorber/RJ	•	•	Ō	×	×	Ō	×	×	Ō	Ō	Ō	Ō	

- •: Shipped together with the product, but not assembled Without any symbol for the adjuster mounting position: The adjuster can be mounted afterward.
- *2 For the buffer mechanism, the buffer stroke will be shorter for the stroke that
- *2 For the buller mechanism, the buller stroke will be shorter for the stroke that is adjusted by the extension stroke end adjuster.

 *3 If it is necessary to install a retraction stroke end adjuster with a buffer mechanism, use a buffer and centralized adjuster provided with a retraction stroke end adjuster on the rear end of the body. End lock or axial piping options cannot be mounted to centralized adjuster specification models.
- *4 Extension stroke end adjuster mounting holes have been removed to reduce
- the total length of the table.

 The shorter total length type can be used, but a retraction stroke end adjuster cannot be mounted afterward.

- *6 For axial piping, there are no piping ports on both sides.

 *7 Only the centralized adjuster is symmetric.

 *8 For details on the adjuster mounting position, refer to the next page.
- *9 The metal stopper with bumper option is not available for Ø6.

Air Slide Table/Double-ported Type **MXQ** A Series



Applicable Auto Switches/Refer to the Web Catalog for further information on auto switches.

744	Applicable Auto Ownores/Hele to the web datalog for future, information of auto-switches.																
		Electrical	후	Wiring	L	oad volta	ge	Auto swit	ch model	Lead	wire I	engtl	h [m]	Pre-wired			
Туре	Special function	entry	Indicator light	(Output)	D	C	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	connector	Applical	Applicable load	
Ę				3-wire (NPN)		5 V 10 V		M9NV	M9N	•	•	•	0	0	IC circuit		
switch	_			3-wire (PNP)		5 V, 12 V		M9PV	M9P	•	•	•	0	0	IC circuit		
S				2-wire		12 V	ĺ	M9BV	M9B	•	•	•	0	0	_		
욕	Diagnostic indication (2-color indicator)	diaction		3-wire (NPN)		5 V, 12 V		M9NWV	M9NW	•	•	•	0	0	IC airearit	Dalass	
		Grommet	Yes	3-wire (PNP)	24 V	J V, 12 V	_	M9PWV	M9PW	•	•	•	0	0	IC circuit		
ate				2-wire		12 V		M9BWV	M9BW	•	•	•	0	0	_	PLC	
उ	Motor registent			3-wire (NPN)		5 V, 12 V		M9NAV*1	M9NA*1	0	0	•	0	0	IC circuit		
Solid	Water resistant			3-wire (PNP)				M9PAV*1	M9PA*1	0	0	•	0	0	IC circuit		
ŭ	(2-color indicator)			2-wire		12 V		M9BAV*1	M9BA*1	0	0	•	0	0	_		
auto	switch	Crammat	Yes	3-wire (Equiv. to NPN)	_	5 V	_	A96V	A96	•	_	•	_	_	IC circuit	_	
swi		Grommet		2-wire	2-wire 24 V		100 V	A93V*2	A93	•	•	•	•	_	_	Relay,	
ات <u>ت</u>			None	∠-wire	24 V	12 V	100 V or less	A90V	A90		_		_	_	IC circuit	PLC	

- *1 Water-resistant type auto switches can be mounted on the above models, but SMC cannot guarantee water resistance. A water-resistant type cylinder is recommended for use in an environment which requires water resistance.
- *2 1 m lead wire is only applicable to the 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 "O" are produced upon receipt of order.
- * Since there are applicable auto switches other than those listed above, refer to page 125 for details.
- * For details about auto switches with pre-wired connectors, refer to the Web Catalog.
- Auto switches are shipped together, but not assembled.

Made to

Made to Order

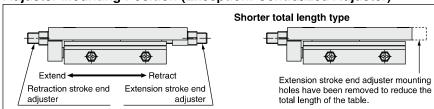
(For details, refer to pages 127 to 156.)

Symbol	Specifications
-X7	PTFE grease
-X9	Grease for food processing equipment
-X11	Long adjustment bolt (10 mm longer adjustment range)
-X12	Long adjustment bolt (20 mm longer adjustment range)
-X28	Long adjustment nut and bolt
-X33	Without built-in auto switch magnet
-X39	Fluororubber seal
-X42	Anti-corrosive guide unit
-X580	Low-speed specification (15 to 50 mm/s)
-X2128	Heat-resistant specification (-10 to 100°C)
-X2192	Dual stroke specification
-X2202	Extension stroke end adjuster fixed from the axial direction

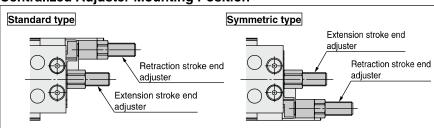
Moisture **Control Tube IDK Series**

When operating an actuator with a small diameter and a short stroke at a high frequency, dew condensation (water droplets) 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.

Adjuster Mounting Position (Exception: Centralized Adjuster)



Centralized Adjuster Mounting Position





Be sure to read "Specific Product Precautions" ■ before handling. Refer to page 195.



MXQ□A Series

Specifications

D	_	_	40	40	-00	0.5							
Bore size [mm]	6	8	12	16	20	25							
Piping port size	M5 x 0.8												
Fluid			Α	ir									
Action			Double	acting									
Operating pressure	0.15 to	0.7 MPa	*1 (End	lock: 0.3	5 to 0.7	MPa)*1							
Proof pressure			1.05	MPa									
Ambient and fluid temperatures			–10 to	60°C									
	50 to 500 mm/s												
Operating speed range	(Meta	l stoppe	r with bu	mper: 50	0 to 300	mm/s)							
(Average operating speed)	(Metal stopper: 50 to 200 mm/s)												
	* in the	standard s			,								
Cushion (Without adjuster)		Inte	ernal rub	ber bum	per								
Cushion	Metal	stopper	with bur	nper, Ru	ubber ste	opper,							
(With adjuster)		Shock	absorbe	r, Metal	stopper	,							
Lubrication			Non-	lube									
Ata aitala	Solid state auto switch, Reed auto switch (2-wire, 3-wire)												
Auto switch	2-color indicator solid state auto switch (2-wire, 3-wire)												
Stroke length tolerance	+2 to 0 mm												

^{*1} Refer to page 14 for the minimum operating pressure of the metal stopper with bumper. If the operating pressure is lower than the minimum operating pressure, the repeated accuracy will decline.

Minimum operating pressure of the metal stopper with bumper: Pressure required to fully compress the protrusion of the bumper to get in contact with the metal part The operating pressure of the bore size 20 cylinder with shock absorber is 0.15 to 0.6 MPa.

Theoretical Output

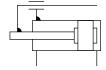


The dual rod ensures an output twice that of current cylinders. [N]													
Bore size	Rod size	Operating	Piston area										
[mm]	[mm]	direction	[mm²]	0.2	0.3	0.4	0.5	0.6	0.7				
6	3	OUT	57	11	17	23	29	34	40				
	٥	IN	42	8	13	17	21	25	29				
8	4	OUT	101	20	30	40	51	61	71				
0	4	IN	75	15	23	30	38	45	53				
12	6	OUT	226	45	68	90	113	136	158				
12		IN	170	34	51	68	85	102	119				
16	6	OUT	402	80	121	161	201	241	281				
10	6	IN	346	69	104	138	173	207	242				
20		OUT	628	126	188	251	314	377	440				
20	8	IN	528	106	158	211	264	317	369				
25	10	OUT	982	196	295	393	491	589	687				
	10	IN	825	165	247	330	412	495	577				

^{*} When the metal stopper with bumper is used for positioning, the theoretical output may vary depending on the full compression force of the bumper. For details, refer to the adjuster specifications on page 14.

Symbol

Rubber bumper



Weight

	<u> </u>															
			9	Standa	rd strol	ke [mm]			Reduction of the	Additional	ster option	Extra for option			
Model	10	20	30	40	50	75	100	125	150	shorter total length type	Extension stroke end	Extension stroke end For end lock	Retraction stroke end	Buffer	End lock	Axial piping
MXQ6A	130	130	170	190	210	_	_	_	_	– 6	10	11 (9)	8	30	40	
MXQ8A	140	160	180	210	270	290	_	_	_	- 6	10	11 (9)	8	30	60	
MXQ12A	270	290	310	370	400	540	610	_	_	-12	20	22 (20)	16	70	80	No
MXQ16A	480	510	550	630	670	810	1,000	1,100	_	-21	40	38 (34)	30	120	150	addition
MXQ20A	840	840	870	950	1,100	1,300	1,600	1,900	2,000	-33	70	62 (34)	50 (80)	190	400	
MXQ25A	1,400	1,400	1,500	1,500	1,900	2,000	2,300	2,900	3,100	-60	110	102 (95)	80	310	700	

^{*} Value in () is the additional weight of the shock absorber.

Weight of Centralized Adjuster

										[g]
Model				Star	ndard stroke [mm]				Reduction only when the product comes
Model	10	20	30	40	50	75	100	125	150	with a retraction stroke end adjuster
MXQ6A	175	180	225	245	265	_	_	_	_	-10
MXQ8A	190	210	230	260	320	350	_	_	_	-10
MXQ12A	355	385	405	465	495	635	705	_	_	-20
MXQ16A	640	680	720	800	840	980	1,170	1,270	_	-40
MXQ20A	1,110	1,140	1,170	1,250	1,400	1,600	1,950	2,250	2,350	-60
WAGZUA	(–60)	(–60)	(–60)	(–60)	(–60)	(–60)	(–60)	(–60)	(–60)	(–25)
MXQ25A	1,880	1,920	2,020	2,020	2,420	2,520	2,930	3,530	3,730	-100

^{*} Value in () is the additional weight of the shock absorber.

Weight of Moving Parts

															[g]	
Model				Standa	ard stroke	e [mm]				Reduction of the shorter Additional weight of adjuster option			E	Extra for option		
Model	10	20	30	40	50	75	100	125	150	total length type	Extension stroke end	Retraction stroke end	Buffer	End lock	Axial piping	
MXQ6A	61	66	80	89	97	_	_	_	_	-6	10	8	30	10		
MXQ8A	68	76	85	97	116	138	_	_	_	-6	10	8	30	10		
MXQ12A	143	154	168	192	206	263	300	_	_	-12	20	16	70	20	No	
MXQ16A	240	257	277	309	329	389	469	520	_	-21	40	30	120	35	addition	
MXQ20A	408	410	437	464	503	588	747	815	882	-33	70	50 (80)	190	65		
MXQ25A	674	681	721	761	836	935	1,078	1,284	1,384	-60	110	80	310	110		

^{*} Value in () is the additional weight of the shock absorber.