

Air Slide Table

ø6, ø8, ø12, ø16, ø20, ø25

RoHS

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-
retainer

JA

MXH

MXQ

MGP

☐ Y
☐ X

CK□1

C(L)K□

C(L)KU

CKQ

CKZ2N

WRF

INDEX

Reduced in height

10%* reduction 27 mm*
(Existing model: 30 mm*)

Product weight

22%* reduction 298 g*
(Existing model: 380 g*)

Allowable kinetic energy

64%* improvement 0.09 J*
(Existing model: 0.055 J*)

*Comparison between the double ported type and existing MXQ12-30 (without adjuster)



Reduced in height and weight with thinner table

- Thin table made of the special stainless steel
- Durable material with the same strength as the existing model

2 combinations of the guide and cylinder bore size available

Double ported type

Page 874

Increase flexibility of wiring and piping with piping ports and auto switch mounting grooves on both sides.

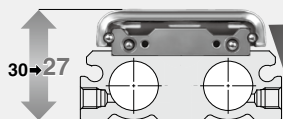
Bore size
ø12

Bore size
ø8

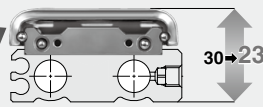
Low thrust with high rigidity type

Page 904

Combination with a cylinder of one bore size smaller increases rigidity according to thrust. Possible to reduce in height.



For MXQ12A



For MXQ8B

Single side ported type

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Better visibility for auto switches. Indicator LED can be checked from one side when used with short stroke.

Bore size
ø12

Bore size
ø12

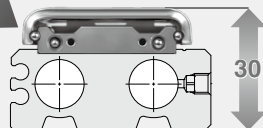
Height interchangeable type

Page 930

Height interchangeable as the existing MXQ series.



For MXQ12C



For MXQ12

1 guide!

4 bodies!

Series **MXQ**



2 combinations of the guide and cylinder bore size available



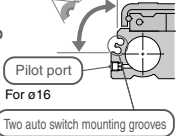
○Combination chart of guide size and cylinder size

Guide size		Maximum load weight
Guide Small ↑ ↓ Guide Large	32 mm	0.6 kg
	32 mm	1 kg
	40 mm	2 kg
	50 mm	4 kg
	60 mm	6 kg
	70 mm	9 kg

Double ported type
MXQ□A

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- Height reduced by 10% of the existing model
30 mm → 27 mm
Improved in visibility
- Weight reduced by 22%
380 g → 298 g
For MXQ12A-30ZN
- Piping port and auto switch mounting groove are provided on both sides.



Bore size	
When the height needs to be the same as the existing model, choose the MXQ□, height interchangeable type.	
ø6	23 mm Purpose of usage ① Rigidity of the guide and large surface of the table are necessary but thrust is not needed. Application example • Horizontal transfer of a workpiece, transfer of tools, low thrust clamping
ø8	23 mm Purpose of usage ① Purpose of usage ②
ø12	27 mm Purpose of usage ② Guide with higher rigidity is necessary without changing the thrust from the existing model. Application example • Transfer of a workpiece with an increased overhang • High accuracy and high thrust clamping
ø16	35 mm
ø20	43 mm
ø25	52 mm Size ø16, ø20, ø25 have two auto switch mounting grooves on both sides.

Select the best actuator with guide according to the application.

Low thrust with high rigidity type MXQ□B

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Guide rigidity according to thrust improved

- Guide rigidity improved by 50%
(For MXQ8B and MXQ8A)
- Cylinder can be downsized when load is light!
 - Reduced in height
 - Reduced in air consumption
 - Light weight

Bore
size

 $\phi 6$

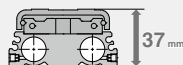
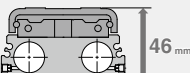
Standard/Symmetric type
(Figure shows standard model.)

 $\phi 8$

Standard/Symmetric type
(Figure shows standard model.)

 $\phi 12$

Standard/Symmetric type
(Figure shows standard model.)

 $\phi 16$

 $\phi 20$

Size $\phi 16$ and $\phi 20$ have two auto switch mounting grooves on both sides.

Single side ported type MXQ□C

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- Compact body with good switch visibility
Applicable to $\phi 8$ and $\phi 12$ only
- Compact design, Two auto switch mounting grooves on one side

Bore
size

 $\phi 6$

Not available.
Use the MXQ□, height interchangeable type.

 $\phi 8$

Standard/Symmetric type
(Figure shows standard model.)

 $\phi 12$

Standard/Symmetric type
(Figure shows standard model.)

 $\phi 16$
 $\phi 20$

Not available.
Use the MXQ□A, double ported type.

 $\phi 25$

Height interchangeable type MXQ□

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- Same height as the existing model
- Visibility of auto switches improved
- Interchangeable in mounting with the existing model

Bore
size

 $\phi 6$

Standard/Symmetric type
(Figure shows standard model.)

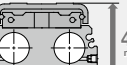
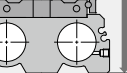
 $\phi 8$

Standard/Symmetric type
(Figure shows standard model.)

 $\phi 12$

Standard/Symmetric type
(Figure shows standard model.)

 $\phi 16$

 $\phi 20$

 $\phi 25$

Size $\phi 16$, $\phi 20$, $\phi 25$ have two auto switch mounting grooves on both sides.

Air Cylinders

CJ2

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CQ2
CQS

Lube-
retainer

JA

MXH

MXQ

MGP

C□Y
C□X

CK□1

C(L)K□

C(L)KU

CKQ

CKZ2N

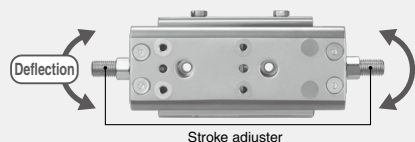
WRF

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Series MXQ

Stroke adjuster (Option)

Stroke adjuster is positioned in the center.
Play at the stroke end reduced.



Allowable kinetic energy improved

Allowable kinetic energy improved by reducing weight of the movable parts

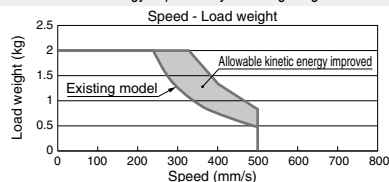
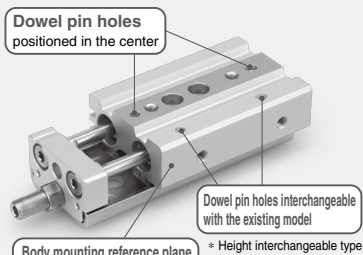
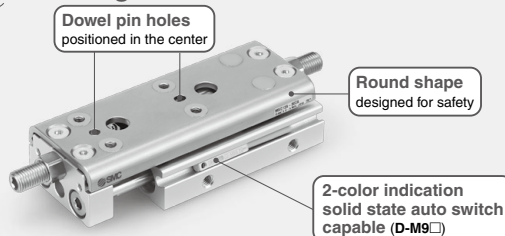


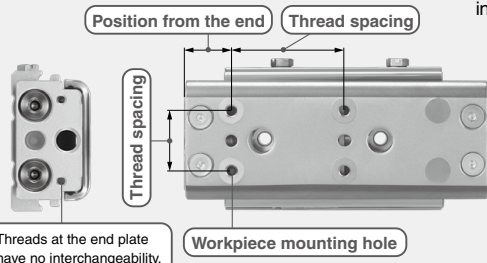
Table configuration for better function and easier maintenance



The mounting dimensions are equivalent to the existing MXQ series.

Workpiece mounting

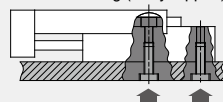
- Mounting screw O.D. and thread positions have interchangeability with the existing MXQ series.



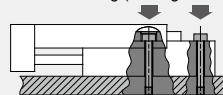
Body mounting

- Two methods of mounting available
- Body mounting threads and spacing have interchangeability with the existing MXQ series.

Lateral mounting (Body tapped)



Lateral mounting (Through hole)



Various stroke adjusters (Option)

Metal Stopper with Bumper

High accuracy with the integrated construction of the bumper and metal stopper: Repeated positioning accuracy ± 0.05 or less
Improved cycle time
Operating speed 300 mm/sec
(Existing model: 200 mm/sec)
(Compared with a stopper of the existing MXQ series)

Shock Absorber

Soft type: RJ series

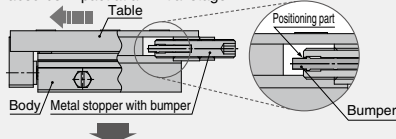
Suitable for operation which requires gentle stop such as a light weight workpiece transfer or low speed transfer.

Rubber Stopper

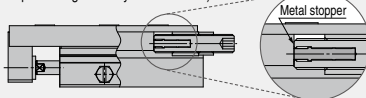
Impact reduced by 1/2 compared with the model without stroke adjuster

Operating Principle/Metal Stopper with Bumper

- Bumper absorbs impact at an initial stage.



- Bumper goes into the adjustment bolt, and the metal stopper performs highly accurate positioning at the end of the adjustment bolt.
(Repeated positioning accuracy: ± 0.05 or less)

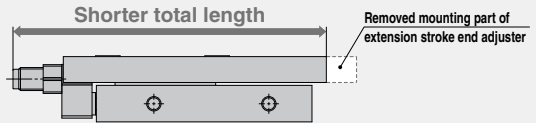


Shorter total length type for table is now available.

Total length shortened **8.5 mm**

70 mm (Basic type 78.5 mm) (For MXQ8A-20)

* Extension stroke end adjuster cannot be mounted.



Series Variations

Bore size (mm)	Series				Standard stroke (mm)								Adjuster option	Functional option	
	Double ported type Series MXQ□A	Single side ported type Series MXQ□C		Height interchangeable type Series MXQ□	10	20	30	40	50	75	100	125			150
		Standard type	Symmetric type												
6	●			●	●	●	●	●	●	●	●	●	●	Metal stopper with bumper Rubber stopper Shock absorber	With buffer With end lock Axial piping
8	●	●	●	●	●	●	●	●	●	●	●	●	●		
12	●	●	●	●	●	●	●	●	●	●	●	●	●		
16	●	●	●	●	●	●	●	●	●	●	●	●	●		
20	●	●	●	●	●	●	●	●	●	●	●	●	●		
25	●	●	●	●	●	●	●	●	●	●	●	●	●		

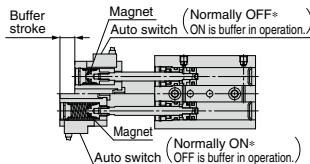
Bore size (mm)	Low thrust with high rigidity type Series MXQ□B		Standard stroke (mm)										Adjuster option
	Standard type	Symmetric type	10	20	30	40	50	75	100	125	150		
6	●												Metal stopper with bumper Rubber stopper Shock absorber
8	●												
12	●												
16	●												
20	●												

Functional Option

● With buffer mechanism

- Protects workpieces and tools, etc., by eliminating impact at the extension stroke end.
- Buffer unit is auto switch capable.

Buffer mechanism operating condition

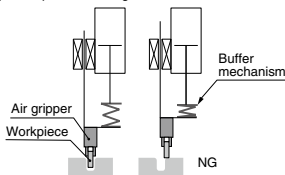


Normal condition

* By changing the mounting angle of auto switches, setting of normally ON/OFF can be changed.

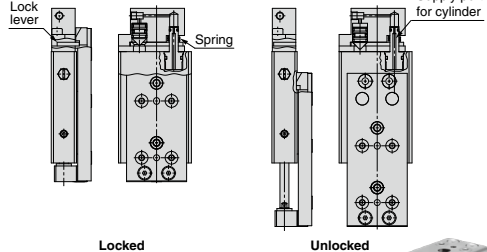
Application Example

In workpiece insertion processes when there is a problem such as faulty positioning, the buffer mechanism absorbs the shock from the workpiece impact to prevent damage.



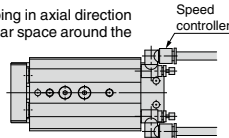
● With end lock

- Holds the cylinder's home position to prevent dropping of the workpiece even if the air supply is cut off.



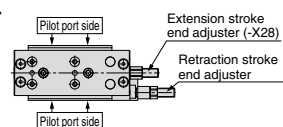
● Axial piping

- Centralized piping in axial direction to maintain clear space around the body



● Centralized adjuster specification (-X27)

- This specification is that the retraction stroke end adjuster is mounted on the extension stroke end adjuster side. Refer to page 962 for details.



Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)□

C(L)XU

CKQ

CKZ2N

WRF

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Double ported type *Series MXQ□A*



When the features as shown below are required for ø8 and ø12 sizes, refer to the MXQ□C, single side ported type as well.
 • Two auto switch mounting grooves are required on one side.
 • (Two auto switches can be mounted on one side when stroke is short.)
 • Lower height than the MXQ□A is required (for ø8).

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Low thrust with high rigidity type *Series MXQ□B*



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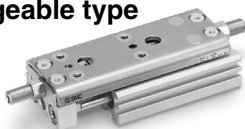
Single side ported type *Series MXQ□C*



When the features as shown below are required for ø8 and ø12 sizes, refer to the MXQ□A, double ported type as well.
 • Auto switch mounting groove and air piping are provided on both sides (for increased flexibility in piping and wiring).

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Dimensions: ø8	Page 921
ø12	Page 925

Height interchangeable type *Series MXQ□*



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ø12	Page 941
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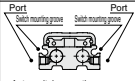
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Air Slide Table Double Ported Type Series **MXQ□A** ø6, ø8, ø12, ø16, ø20, ø25

RoHS

How to Order

MXQ 12 A - 30 ZA - M9BW -

• Bore size	• Body option: Double ported type	• Standard stroke (mm)
	A	
6		10, 20, 30, 40, 50
8		10, 20, 30, 40, 50, 75
12		10, 20, 30, 40, 50, 75, 100
16		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

• **Made to Order**
Refer to page 875 for details.

• Number of auto switches	
Nil	2 pcs.
S	1 pc.
n	"n" pcs.

• Functional option	
Symbol	Functional option
Nil	Without functional option
1	With buffer
2	With end lock
3	Axial piping Note 7)
4	With buffer, end lock
5	With buffer, axial piping

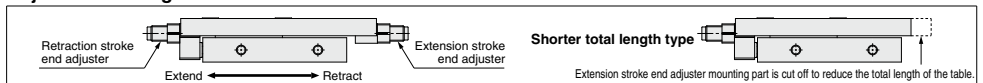
• **Auto switch**
Nil Without auto switch
* For applicable auto switches, refer to the table below.

• Adjuster option/Functional option combinations

Symbol	Adjuster type	Adjuster mounting position Note 1)		Functional option combination					
		Extension stroke end	Retraction stroke end	Nil	1	2	3	4	5
Z	Without adjuster			Without functional option	Buffer Note 2) 3)	End lock Note 4)	Axial piping	Buffer and end lock Note 2 4)	Buffer and axial piping Note 6)
ZA	Metal stopper with bumper (Not available for ø6)	●	●	○	○	○	○	○	○
ZB		●	●	○	x	x	○	x	x
ZC		●	●	○	x	x	○	x	x
ZD		●	●	○	x	x	○	x	x
ZE	Rubber stopper	●	●	○	○	○	○	○	○
ZF	Shock absorber (RJ)	●	●	○	x	x	○	x	x
ZG		●	●	○	x	x	○	x	x
ZH		●	●	○	x	x	○	x	x
ZJ		●	●	○	x	x	○	x	x
ZN	Note 5) Without adjuster		●	○	○ Note 6)	x	○	x	○ Note 6)
ZP	Shorter total length type		●	○	x	x	○	x	x
ZQ			●	○	x	x	○	x	x
ZS			●	○	x	x	○	x	x

Note 1) ● Shipped together with the product, but not assembled. Without any symbols for the adjuster mounting position, the adjuster can be mounted afterward.
Note 2) For buffer mechanism, buffer stroke will be shorter for the stroke that is adjusted by the extension stroke end adjuster.
Note 3) When retraction stroke end adjuster with buffer mechanism is needed, use the centralized adjuster specification (-X27). End lock or axial piping option cannot be mounted to the centralized adjuster specification model.
Note 4) Extension stroke end adjuster with end lock mechanism is available as long adjustment nut and bolt specification (-X28). The adjustment nut cannot be tightened with the standard adjuster.
Note 5) Extension stroke end adjuster mounting holes are removed to reduce the total length.
Note 6) Shorter total length type can be used, but the retraction stroke end adjuster cannot be mounted afterward.
Note 7) For axial piping of the MXQ□A, piping port on the both sides cannot be used.

Adjuster Mounting Position



Applicable Auto Switches/Refer to the WEB catalog or Best Pneumatics No.3 for further information on 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 auto switch	—	Grommet	Yes	3-wire (NPN)	5V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC	Relay, PLC	
				3-wire (PNP)			M9PV	M9P	●	●	○	○				
				2-wire	12 V		M9BV	M9B	●	●	○	○	—			
				3-wire (NPN)	5 V, 12 V		M9NVV	M9NW	●	●	○	○	IC			
	3-wire (PNP)			M9PWW			M9PW	●	●	○	○					
	2-wire			12 V	M9BWW		M9BW	●	●	○	○	—				
	3-wire (NPN)			5V, 12 V	M9NAV***		M9NA***	○	○	●	○	IC				
	3-wire (PNP)				M9PAV***		M9PA***	○	○	●	○					
	2-wire			12 V	M9BAV***		M9BA***	○	○	●	○	—				
	Water resistant (2-color indication)															

*** Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact SMC regarding water resistant types with the above model numbers.
* Lead wire length symbols: 0.5 m Nil (Example) M9NW * Solid state auto switches marked with "○" are produced upon receipt of order.
1 m M (Example) M9NMW * Since there are other applicable auto switches than listed, refer to page 959 for details.
3 m L (Example) M9NWL * For details about auto switches with pre-wired connector, refer to the WEB catalog or Best Pneumatics No.3.
5 m Z (Example) M9NWZ * Auto switches are shipped together, (but not assembled).



Specifications

Bore size (mm)	6	8	12	16	20	25
Piping port size	M5 x 0.8					
Fluid	Air					
Action	Double acting					
Operating pressure	0.15 to 0.7 MPa ^{Note)} (End lock: 0.35 to 0.7 MPa)					
Proof pressure	1.05 MPa					
Ambient and fluid temperature	-10 to 60°C					
Operating speed range	50 to 500 mm/s (Metal stopper with bumper: 50 to 300 mm/s)					
(Average operating speed)	* in the standard stroke table: 50 to 300 mm/s					
Cushion (Without stroke adjuster)	Internal rubber bumper					
Cushion (With stroke adjuster)	Metal stopper with bumper, Rubber stopper, Shock absorber					
Lubrication	Non-lube					
Auto switch	Solid state auto switch (2-wire, 3-wire)					
	2-color indication solid state auto switch (2-wire, 3-wire)					
Stroke length tolerance	+2 to 0 mm					

Note) Refer to page 876 for the minimum operating pressure for metal stopper with bumper. If the operating pressure is lower than the minimum operating pressure, repeated accuracy becomes worse.
Minimum operating pressure of metal stopper with bumper: Pressure required to fully compress the protrusion of the bumper to get in contact with the metal part.
Operating pressure for the bore size 20 cylinder with shock absorber is 0.15 to 0.6 MPa.

Standard Stroke

Model	Standard stroke (mm)
MXQ6A	10, 20, 30, 40, 50
MXQ8A	10, 20, 30, 40, 50, 75
MXQ12A	10, 20, 30, 40, 50, 75, 100
MXQ16A	10, 20, 30, 40, 50, 75, 100, 125
MXQ20A	10, 20, 30, 40, 50, 75, 100, 125, 150
MXQ25A	10, 20, 30, 40, 50, 75, 100, 125, 150*

Note) * Operating speed range is 50 to 300 mm/s. (Without stroke adjuster)

Theoretical Output

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



Made to Order

(For details, refer to pages 960 to 964.)

Symbol	Specifications
-X7	PTFE grease
-X9	Grease for food processing equipment
-X11	Long adjustment bolt (Longer adjustment range by 10 mm)
-X12	Long adjustment bolt (Longer adjustment range by 20 mm)
-X27	Centralized adjuster
-X28	Long adjustment nut and bolt
-X33	Without built-in auto switch magnet
-X39	Fluororubber seal
-X42	Anti-corrosive guide unit
-X45	EPDM seal

Weight

Model	Standard stroke (mm)										Extra for option			
	10	20	30	40	50	75	100	125	150	Reduction of the shorter total length type	Additional weight of adjuster option Extension stroke end Retraction stroke end	End lock	Buffer	Axial piping
MXQ6A	130	130	170	190	210	—	—	—	—	-6	10 8	40	30	No addition
MXQ8A	140	160	180	210	270	290	—	—	—	-6	10 8	60	30	
MXQ12A	270	290	310	370	400	540	610	—	—	-12	20 16	80	70	
MXQ16A	480	510	550	630	670	810	1,000	1,100	—	-21	40 30	150	120	
MXQ20A	840	840	870	950	1,100	1,300	1,600	1,900	2,000	-33	70 50(80)	400	190	
MXQ25A	1,400	1,400	1,500	1,500	1,900	2,000	2,300	2,900	3,100	-60	110 80	700	310	

Note) Value in the () is the additional weight for the shock absorber.

Maximum Load Weight

Model	Without adjuster Internal rubber bumper	Adjuster option			
		Rubber stopper	Metal stopper with bumper	Shock absorber (RJ)	
				Horizontal	Vertical
MXQ6A	0.6	0.6	—	0.6	
MXQ8A	1	1	1	1	
MXQ12A	2	2	2	1.5	1
MXQ16A	4	4	4	4	2.5
MXQ20A	6	6	6	6	
MXQ25A	9	9	9	9	6

Allowable Kinetic Energy

Model	Without adjuster Internal rubber bumper	Adjuster option		
		Rubber stopper	Metal stopper with bumper	Shock absorber (RJ)
MXQ6A	0.026	0.051	—	0.14
MXQ8A	0.033	0.053	0.016	0.17
MXQ12A	0.09	0.11	0.034	0.24
MXQ16A	0.1	0.18	0.07	0.61
MXQ20A	0.2	0.34	0.10	1.2
MXQ25A	0.32	0.51	0.15	1.3

Optional Specifications

With End Lock

Model	MXQ6A	MXQ8A	MXQ12A	MXQ16A	MXQ20A	MXQ25A
Operating pressure range (MPa)	0.35 to 0.7					
Holding force (N)	12	12	23	45	70	110

With Buffer Mechanism

Model		MXQ6A	MXQ8A	MXQ12A	MXQ16A	MXQ20A	MXQ25A
Operating speed range (mm/s)		50 to 500 (Horizontal mounting 50 to 300)					
Buffer stroke (mm)		5		10			
Buffer stroke load (N)	Stroke at 0 (mm)	3	5	9	16	25	40
	Maximum stroke	6	8	15	24	38	59

Applicable Auto Switch to Buffer

Type	Model	Specifications	Electrical entry direction
Solid state auto switch	D-M9BV	With light, 2-wire	Vertical
	D-M9NV	With light, 3-wire, Output: NPN	
	D-M9PV	With light, 3-wire, Output: PNP	

Adjusters

Metal Stopper with Bumper

Applicable slide table	MXQ8A	MXQ12A	MXQ16A	MXQ20A	MXQ25A
Model (Metal stopper with bumper only)	MXQA-A877	MXQA-A1287	MXQA-A1687	MXQA-A2087	MXQA-A2587
Max. absorbed energy (J)	0.018	0.04	0.08	0.12	0.18
Stroke absorption (mm)	2	2.8	3.6	4.4	5.5
Full compression force of bumper (N)	20	42	65	97	154
Min. operating pressure of metal stopper with bumper* (MPa)	0.3	0.3	0.2	0.2	0.2
Weight (g)	7	14	25	42	65
Mounting screw size (mm)	M6 x 0.75	M8 x 1	M10 x 1	M12 x 1	M14 x 1.5

* Pressure required to fully compress the protrusion of the bumper when mounted horizontally to get in contact with the metal part. Consider the additional weight of the load when mounted in the vertical direction. * Not available for ø6.

Rubber Stopper

Applicable slide table	MXQ6A	MXQ8A	MXQ12A	MXQ16A	MXQ20A	MXQ25A
Model (Rubber stopper only)	MXQA-A827		MXQA-A1227	MXQA-A1627	MXQA-A2027	MXQA-A2527
Max. absorbed energy (J)	0.06		0.12	0.2	0.4	0.6
Weight (g)	7		14	25	42	65
Mounting screw size (mm)	M6 x 0.75		M8 x 1	M10 x 1	M12 x 1	M14 x 1.5

Shock Absorber (RJ)

Applicable slide table	MXQ6A	MXQ8A	MXQ12A	MXQ16A	MXQ20A	MXQ25A
Model (Shock absorber only)	RJ0603N		RJ0805N	RJ1006N	RJ1007HN	RJ1410N
Max. absorbed energy (J)	0.35		0.5	1.5	3	3.7
Stroke absorption (mm)	3		5	6	7	10
Collision speed (mm/s)	50 to 500					
Max. operating frequency (cycle/min)	80		80	70	45	
Max. allowable thrust (N)	150		245	422	814	
Spring force (Extended) (N)	1.3		2.8	5.4	6.4	
Spring force (Compressed) (N)	3.9		4.9	8	15	
Weight (g)	5.5		15	23	65	
Mounting screw size (mm)	M6 x 0.75		M8 x 1	M10 x 1	M14 x 1.5	

Cylinder with Stable Lubrication Function (Lube-retainer)

MXQ Bore size Body option **M** — Stroke Adjuster — Auto switch



With stable lubrication function (Lube-retainer)

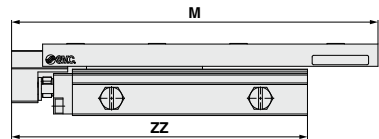
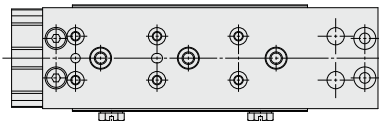
Specifications

Bore size (mm)		6	8	12	16	20	25
Action		Double acting, Single rod					
Minimum operating pressure	Internal rubber bumper	0.15 MPa					
	Rubber stopper						
	Shock absorber						
	Metal stopper with bumper	—	0.3 MPa	0.3 MPa	0.2 MPa	0.2 MPa	0.2 MPa

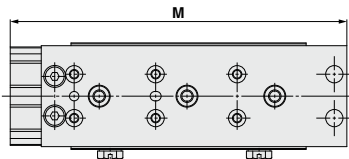
* Specifications other than listed above are the same as those for the standard type.

Dimensions (Dimensions other than shown below are the same as those for the standard type.)

MXQ6AM

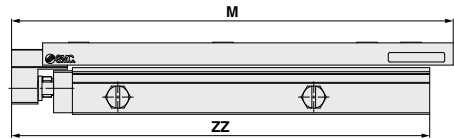
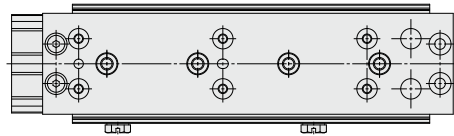


Shorter total length type

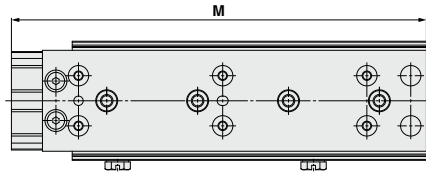


Model	M		ZZ
	Standard type	Shorter total length type	
MXQ6AM-10Z	74	64.5	69.5
MXQ6AM-20Z	84	74.5	69.5
MXQ6AM-30Z	105	95.5	82.5
MXQ6AM-40Z	117	107.4	94.5
MXQ6AM-50Z	127	117.5	104.5

MXQ8AM



Shorter total length type



Model	M		ZZ
	Standard type	Shorter total length type	
MXQ8AM-10Z	78	69.5	70.5
MXQ8AM-20Z	88	79.5	80.5
MXQ8AM-30Z	98	89.5	90.5
MXQ8AM-40Z	114	105.5	106.5
MXQ8AM-50Z	141	132.5	133.5
MXQ8AM-75Z	166	157.5	135.5

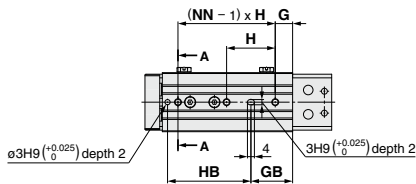
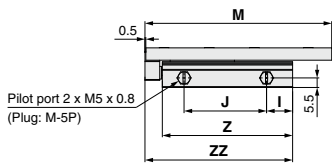
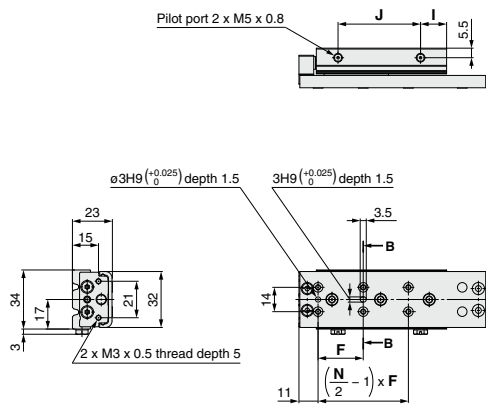
The external dimensions of the MXQ12AM/
MXQ16AM/MXQ20AM/MXQ25AM are the
same as those for the standard type.

For details, refer to the WEB catalog.

Air Cylinders
CJ2
CM2
CG1
MB
CA2
CQ2 CQS
Lube- retainer
JA
MXH
MXQ
MGP
C□Y C□X
CK□1
C(L)K□
C(L)KU
CKQ
CKZ2N
WRF

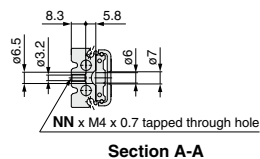
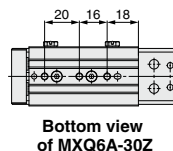
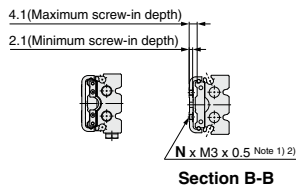
Dimensions: MXQ **6A** [Standard]

MXQ **6A-□Z** Standard type



Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.

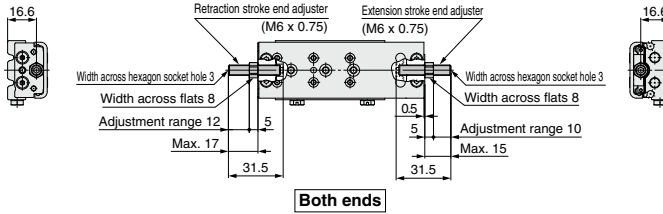


Dimensions	(mm)											
Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ6A-10Z	22	18	9	23	38	10	27.5	64.5	4	2	50	60
MXQ6A-20Z	25	15	9	26	38	10	27.5	74.5	4	2	50	60
MXQ6A-30Z	21	—	12	—	48	13	37.5	95.5	6	3	63	73
MXQ6A-40Z	26	10	24	28	48	15	47.5	107.5	6	3	75	85
MXQ6A-50Z	27	20	34	28	48	15	57.5	117.5	6	3	85	95

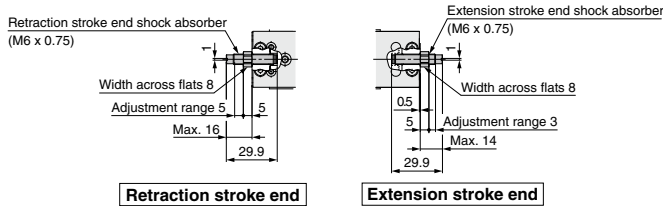
Dimensions: MXQ **6A** [Adjuster Option]

MXQ **6A**-□ With adjuster option (ø6)

Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)

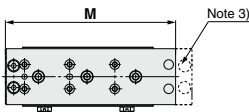


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ **6A**-□ **ZN** Shorter total length type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward. (Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)

Model	M
MXQ6A-10ZN	55
MXQ6A-20ZN	65
MXQ6A-30ZN	86
MXQ6A-40ZN	98
MXQ6A-50ZN	108

Air Cylinders

CJ2
CM2
CG1
MB
CA2
CQ2
CQS

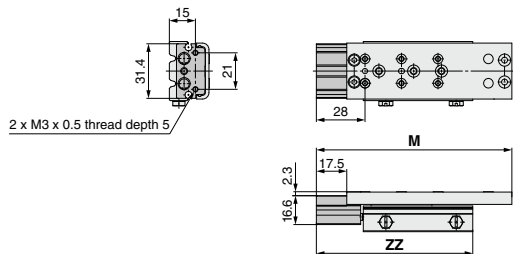
Lube-
retainer

JA
MXH
MXQ
MGP
C□Y
C□X
CK□1
C(L)□
C(L)□U
CKQ
CKZ2N
WRF

INDEX

Dimensions: MXQ **6A** [Functional Option]

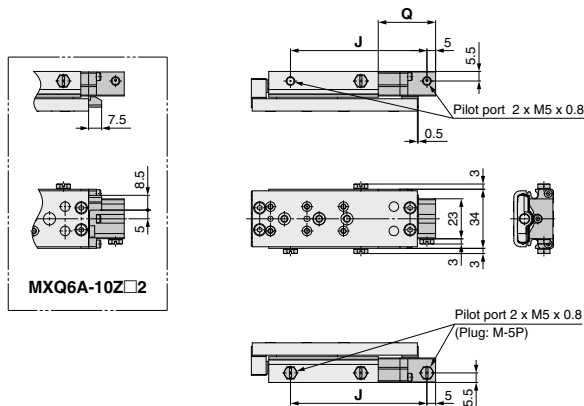
MXQ **6A-□□1** With buffer (ø6)



* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)			
Model	Standard type M	Shorter total length type M	ZZ
MXQ6A-10Z□1	81.5	72	77
MXQ6A-20Z□1	91.5	82	
MXQ6A-30Z□1	112.5	103	90
MXQ6A-40Z□1	124.5	115	102
MXQ6A-50Z□1	134.5	125	112

MXQ **6A-□□2** With end lock (ø6)



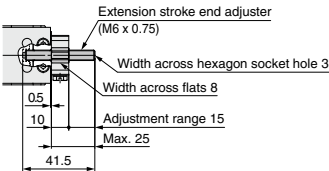
* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)			
Model	J	Q	
MXQ6A-10Z□2	57.5	25	33
MXQ6A-20Z□2			
MXQ6A-30Z□2	78.5		
MXQ6A-40Z□2	90.5		
MXQ6A-50Z□2	100.5		

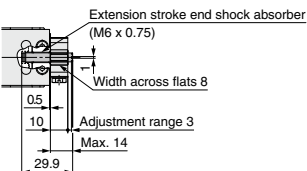
MXQ **6A-□□2** With end lock, extension stroke end adjuster (ø6)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together. The stroke adjustment range is different from the adjuster of the standard product. Retraction stroke end adjuster cannot be mounted to the end lock.

Rubber stopper: **ZE**



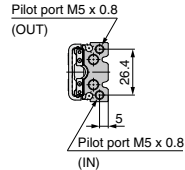
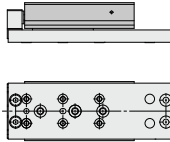
Shock absorber (RJ): **ZH**



* Dimensions other than listed above are the same as those for the standard type.

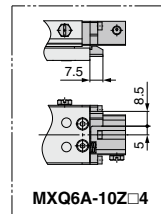
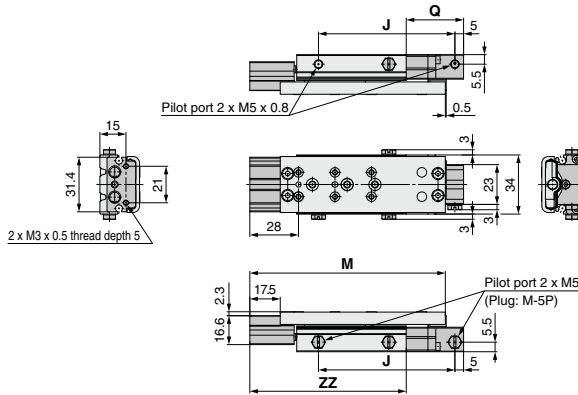
Dimensions: MXQ **6A** [Functional Option]

MXQ **6A**-□□**3** Axial piping (ø6)



* Dimensions other than listed above are the same as those for the standard type.

MXQ **6A**-□□**4** With buffer, end lock (ø6)

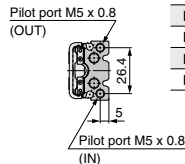
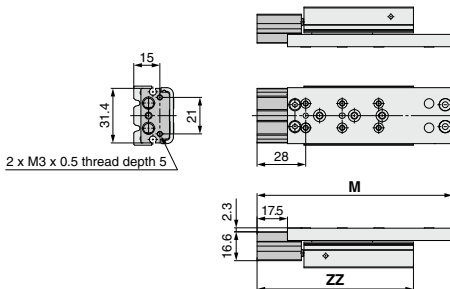


Dimensions

Model	J	Q	Standard type		ZZ
			M	Shorter total length type M	
MXQ6A-10Z□4	57.5	25	81.5	72	77
MXQ6A-20Z□4			91.5	82	
MXQ6A-30Z□4	78.5	33	112.5	103	90
MXQ6A-40Z□4	90.5		124.5	115	102
MXQ6A-50Z□4	100.5		134.5	125	112

* Dimensions other than listed above are the same as those for the standard type.

MXQ **6A**-□□**5** With buffer, axial piping (ø6)



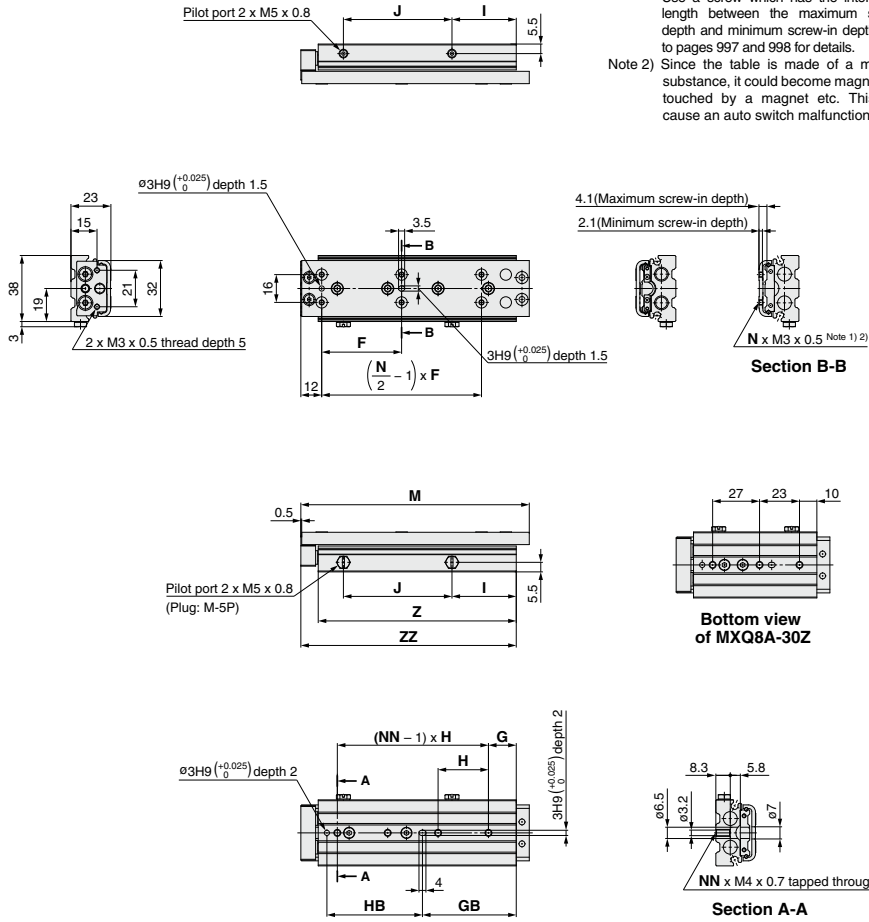
Dimensions

Model	Standard type		ZZ
	M	Shorter total length type M	
MXQ6A-10Z□5	81.5	72	77
MXQ6A-20Z□5	91.5	82	
MXQ6A-30Z□5	112.5	103	90
MXQ6A-40Z□5	124.5	115	102
MXQ6A-50Z□5	134.5	125	112

* Dimensions other than listed above are the same as those for the standard type.

Dimensions: MXQ **8A** [Standard]

MXQ **8A**- **Z** Standard type



Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.

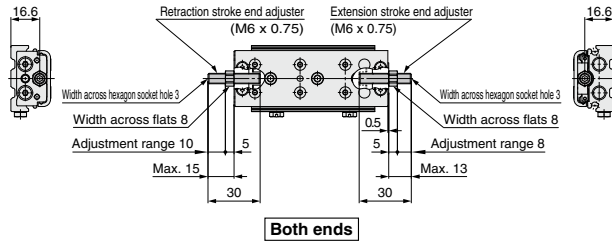
Dimensions

Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ8A-10Z	25	15	9	25	37	10	26.5	68.5	4	2	51	61
MXQ8A-20Z	25	22	16	28	40	14	32.5	78.5	4	2	61	71
MXQ8A-30Z	26	—	26	—	40	14.5	42	88.5	6	3	71	81
MXQ8A-40Z	32	14	27	31	55	20	52.5	104.5	6	3	87	97
MXQ8A-50Z	46	16	54	29	55	37	62.5	131.5	6	4	114	124
MXQ8A-75Z	50	15	56	30	55	10	91.5	156.5	6	4	116	126

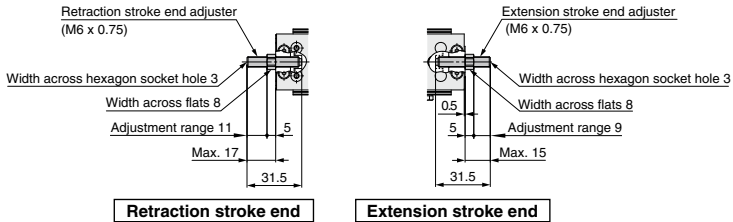
Dimensions: MXQ **8A** [Adjuster Option]

MXQ **8A**-□□ With adjuster option (ø8)

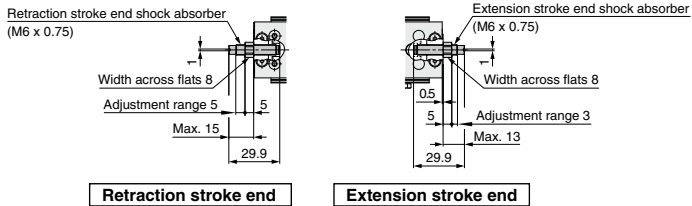
Metal stopper with bumper **[ZA]**: Both ends, **[ZB]**: Extension stroke end, **[ZC]**: Retraction stroke end, **[ZS]**: Retraction stroke end (Shorter total length type)



Rubber stopper **[ZD]**: Both ends, **[ZE]**: Extension stroke end, **[ZF]**: Retraction stroke end, **[ZP]**: Retraction stroke end (Shorter total length type)

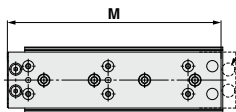


Shock absorber (RJ) **[ZG]**: Both ends, **[ZH]**: Extension stroke end, **[ZJ]**: Retraction stroke end, **[ZQ]**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ **8A**-□**ZN** Shorter total length type



Note 3)

Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward.
(Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)

Model	M
MXQ8A-10ZN	60
MXQ8A-20ZN	70
MXQ8A-30ZN	80
MXQ8A-40ZN	96
MXQ8A-50ZN	123
MXQ8A-75ZN	148

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-

retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)□

C(L)□U

CKQ

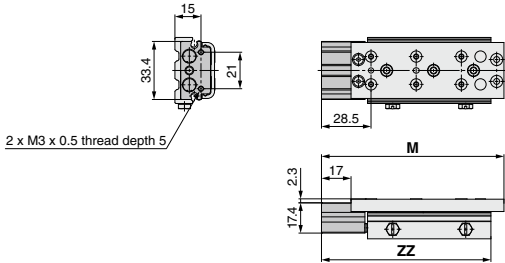
CK2ZN

WRF

INDEX

Dimensions: MXQ **8A** [Functional Option]

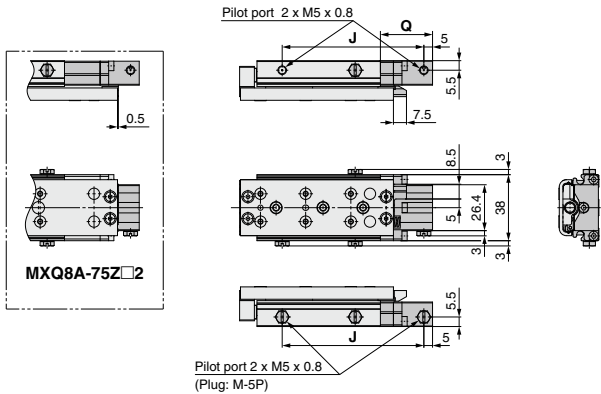
MXQ **8A-□□1** With buffer (ø8)



Dimensions (mm)			
Model	Standard type M	Shorter total length type M	ZZ
MXQ8A-10Z□1	85	76.5	77.5
MXQ8A-20Z□1	95	86.5	87.5
MXQ8A-30Z□1	105	96.5	97.5
MXQ8A-40Z□1	121	112.5	113.5
MXQ8A-50Z□1	148	139.5	140.5
MXQ8A-75Z□1	173	164.5	142.5

* Dimensions other than listed above are the same as those for the standard type.

MXQ **8A-□□2** With end lock (ø8)



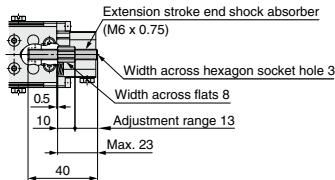
Dimensions (mm)			
Model	J	Q	
MXQ8A-10Z□2	61.5		
MXQ8A-20Z□2	71.5		
MXQ8A-30Z□2	81.5		30
MXQ8A-40Z□2	97.5		
MXQ8A-50Z□2	124.5		
MXQ8A-75Z□2	139.5	43	

* Dimensions other than listed above are the same as those for the standard type.

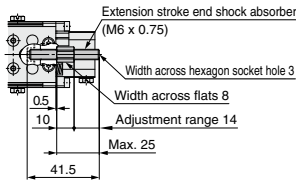
MXQ **8A-□□2** With end lock, extension stroke end adjuster (ø8)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together. The stroke adjustment range is different from the adjuster of the standard product. Retraction stroke end adjuster cannot be mounted to the end lock.

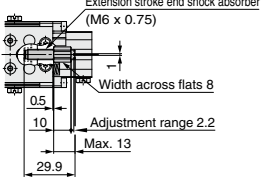
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



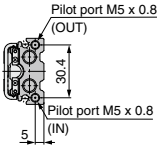
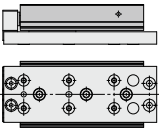
Shock absorber (RJ): **ZH**



* Dimensions other than listed above are the same as those for the standard type.

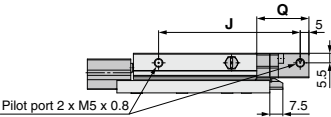
Dimensions: MXQ **8A** [Functional Option]

MXQ **8A-□□3** Axial piping (ø8)

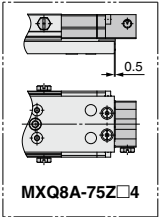


* Dimensions other than listed above are the same as those for the standard type.

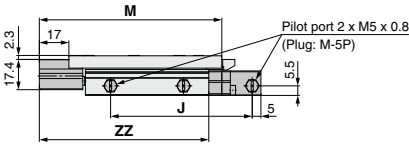
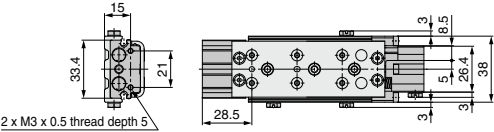
MXQ **8A-□□4** With buffer, end lock (ø8)



Pilot port 2 x M5 x 0.8



MXQ8A-75Z□4

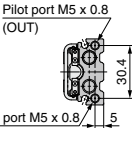
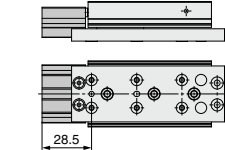
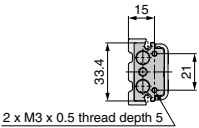


Pilot port 2 x M5 x 0.8 (Plug: M-5P)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)					
Model	J	Q	Standard type	Shorter total length type	ZZ
			M	M	
MXQ8A-10Z□4	61.5	30	85	76.5	77.5
MXQ8A-20Z□4	71.5		95	86.5	87.5
MXQ8A-30Z□4	81.5		105	96.5	97.5
MXQ8A-40Z□4	97.5		121	112.5	113.5
MXQ8A-50Z□4	124.5		148	139.5	140.5
MXQ8A-75Z□4	139.5	43	173	164.5	142.5

MXQ **8A-□□5** With buffer, axial piping (ø8)



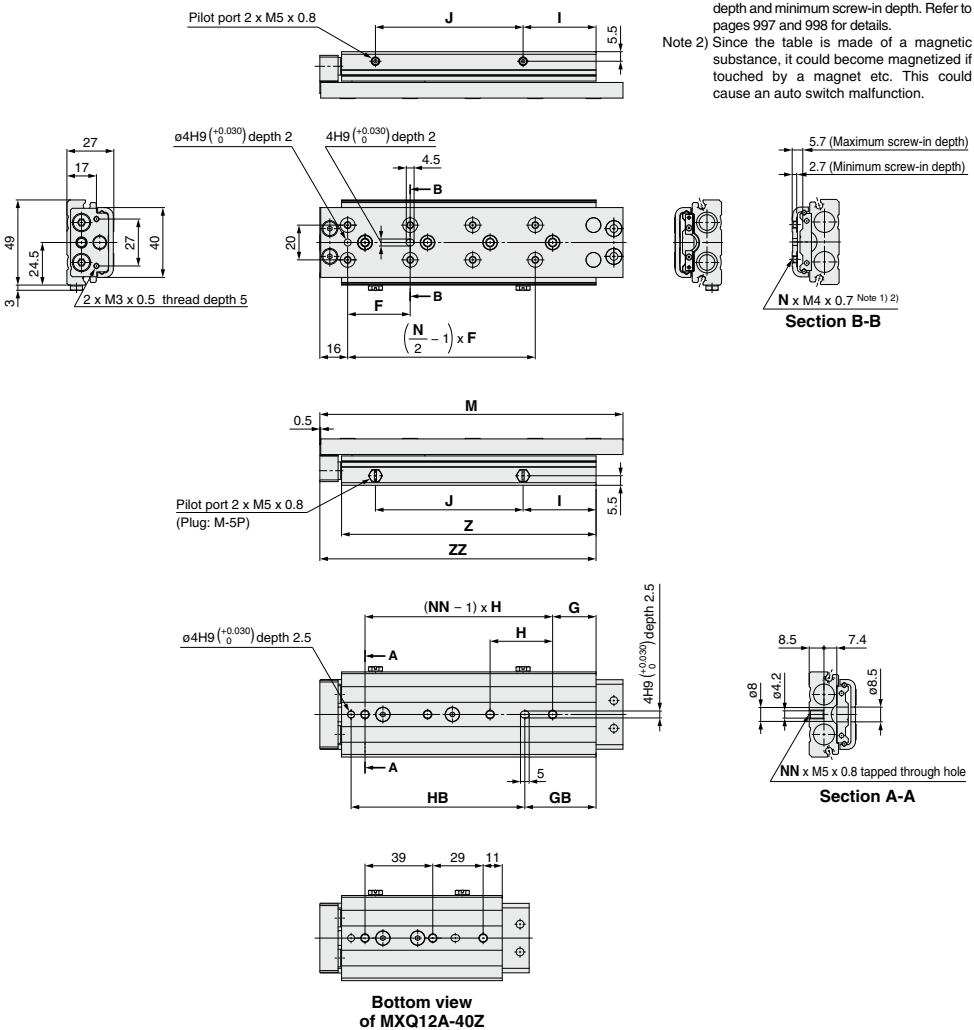
* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)				
Model	Standard type	Shorter total length type	ZZ	
	M	M		
MXQ8A-10Z□5	85	76.5	77.5	
MXQ8A-20Z□5	95	86.5	87.5	
MXQ8A-30Z□5	105	96.5	97.5	
MXQ8A-40Z□5	121	112.5	113.5	
MXQ8A-50Z□5	148	139.5	140.5	
MXQ8A-75Z□5	173	164.5	142.5	

Air Cylinders
CJ2
CM2
CG1
MB
CA2
CQ2
CQS
Lube-retainer
JA
MXH
MXQ
MGP
C□Y
C□X
CK□1
C(L)K□
C(L)KU
CKQ
CKZ2N
WRF

Dimensions: MXQ **12A** [Standard]

MXQ **12A-□Z** Standard type

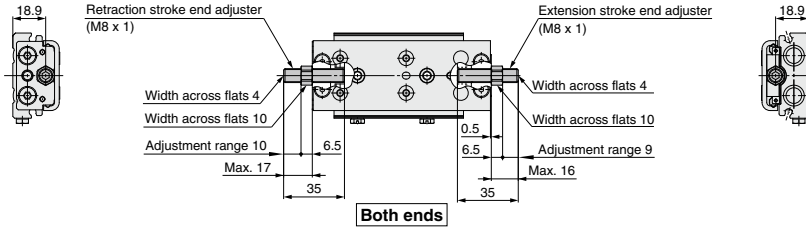


Dimensions												(mm)
Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ12A-10Z	28	17	11	32	46	11	32	82.5	4	2	62.5	75
MXQ12A-20Z	28	19	11	32	48	13	32	92.5	4	2	64.5	77
MXQ12A-30Z	38	21	11	40	58	15	40	102.5	4	2	74.5	87
MXQ12A-40Z	34	—	27	—	60	23	50	120.5	6	3	92.5	105
MXQ12A-50Z	34	11	37	39	60	23	60	130.5	6	3	102.5	115
MXQ12A-75Z	36	25	41	36	100	42	85	174.5	8	4	146.5	159
MXQ12A-100Z	36	14	66	36	100	42	110	199.5	10	5	171.5	184

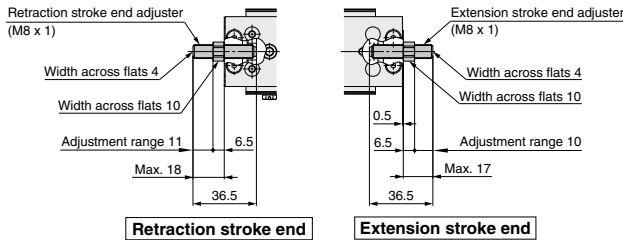
Dimensions: MXQ **12A** [Adjuster Option]

MXQ 12A-□ With adjuster option (ø12)

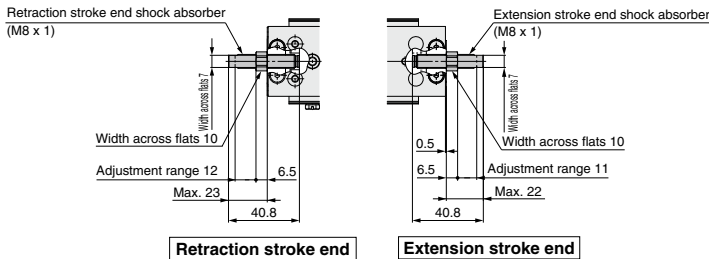
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)

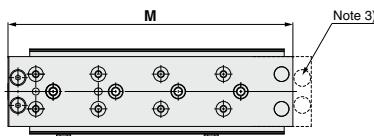


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 12A-□ZN Shorter total length type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward.
(Retraction stroke end adjuster can be mounted afterward.)

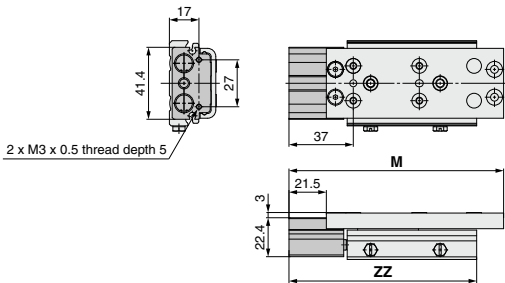
Dimensions (mm)

Model	M
MXQ12A-10ZN	72
MXQ12A-20ZN	82
MXQ12A-30ZN	92
MXQ12A-40ZN	110
MXQ12A-50ZN	120
MXQ12A-75ZN	164
MXQ12A-100ZN	189

* Dimensions other than listed above are the same as those for the standard type.

Dimensions: MXQ **12A** [Functional Option]

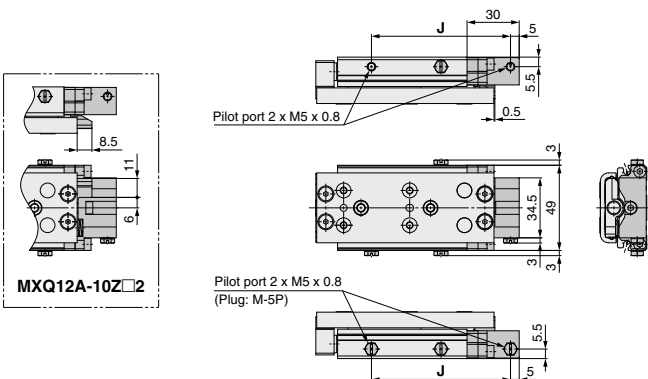
MXQ **12A-□□1** With buffer (ø12)



Model	Dimensions (mm)		
	Standard type	Shorter total length type	ZZ
MXQ12A-10Z□1	M 103.5	M 93	96
MXQ12A-20Z□1	M 113.5	M 103	98
MXQ12A-30Z□1	M 123.5	M 113	108
MXQ12A-40Z□1	M 141.5	M 131	126
MXQ12A-50Z□1	M 151.5	M 141	136
MXQ12A-75Z□1	M 195.5	M 185	180
MXQ12A-100Z□1	M 220.5	M 210	205

* Dimensions other than listed above are the same as those for the standard type.

MXQ **12A-□□2** With end lock (ø12)



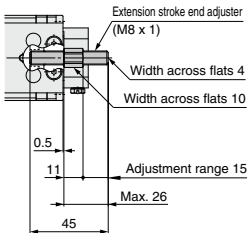
Dimensions (mm)	
Model	J
MXQ12A-10Z□2	68
MXQ12A-20Z□2	70
MXQ12A-30Z□2	80
MXQ12A-40Z□2	98
MXQ12A-50Z□2	108
MXQ12A-75Z□2	152
MXQ12A-100Z□2	177

* Dimensions other than listed above are the same as those for the standard type.

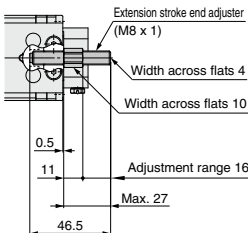
MXQ **12A-□□2** With end lock, extension stroke end adjuster (ø12)

Specify the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together. The stroke adjustment range is different from the adjuster of the standard product. Retraction stroke end adjuster cannot be mounted to the end lock.

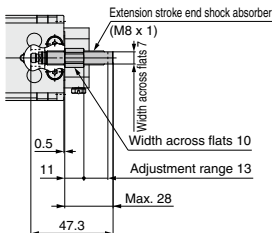
Metal stopper with bumper: **□B**



Rubber stopper: **□E**



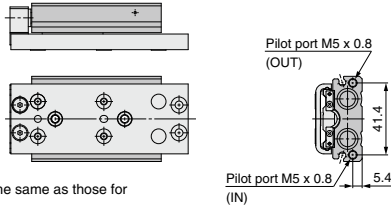
Shock absorber (RJ): **□H**



* Dimensions other than listed above are the same as those for the standard type.

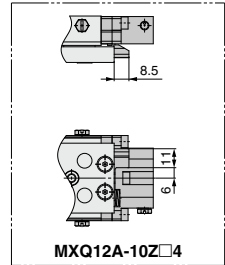
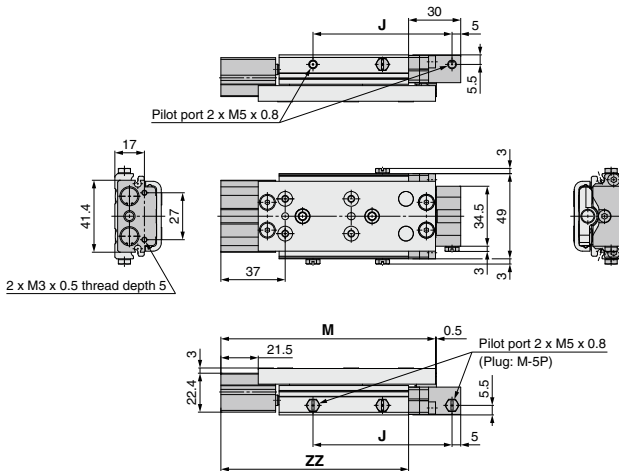
Dimensions: MXQ **12A** [Functional Option]

MXQ 12A-□□3 Axial piping (ø12)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 12A-□□4 With buffer, end lock (ø12)

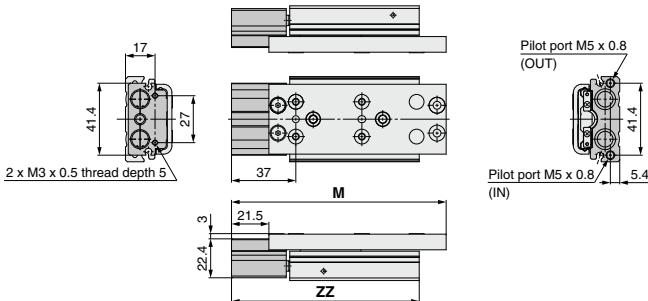


Dimensions

Model	J	Standard type	Shorter total length type	ZZ
		M	M	
MXQ12A-10Z□4	68	103.5	93	96
MXQ12A-20Z□4	70	113.5	103	98
MXQ12A-30Z□4	80	123.5	113	108
MXQ12A-40Z□4	98	141.5	131	126
MXQ12A-50Z□4	108	151.5	141	136
MXQ12A-75Z□4	152	195.5	185	180
MXQ12A-100Z□4	177	220.5	210	205

* Dimensions other than listed above are the same as those for the standard type.

MXQ 12A-□□5 With buffer, axial piping (ø12)



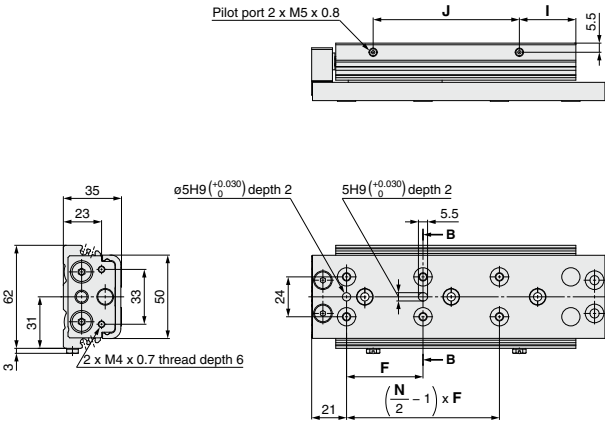
Dimensions

Model	Standard type	Shorter total length type	ZZ
		M	
MXQ12A-10Z□5	103.5	93	96
MXQ12A-20Z□5	113.5	103	98
MXQ12A-30Z□5	123.5	113	108
MXQ12A-40Z□5	141.5	131	126
MXQ12A-50Z□5	151.5	141	136
MXQ12A-75Z□5	195.5	185	180
MXQ12A-100Z□5	220.5	210	205

* Dimensions other than listed above are the same as those for the standard type.

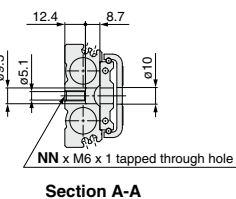
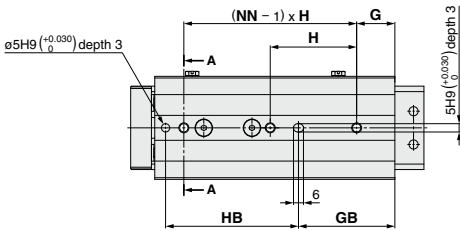
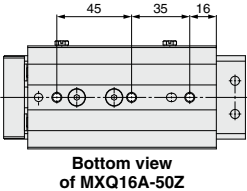
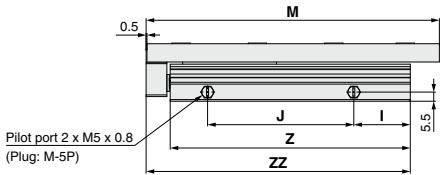
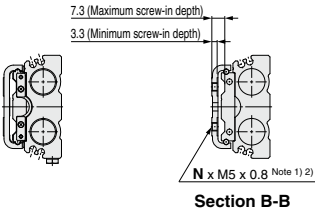
Dimensions: MXQ **16A** [Standard]

MXQ **16A-□Z** Standard type



Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.

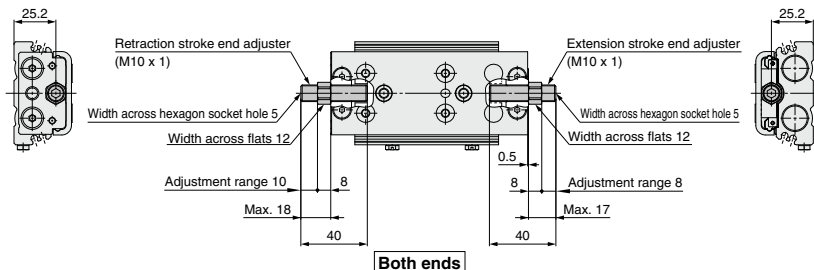


Dimensions	(mm)											
Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ16A-10Z	38	16	8	39	58	22	28	98.5	4	2	72.5	87
MXQ16A-20Z	38	20	12	39	58	15	39	108.5	4	2	76.5	91
MXQ16A-30Z	48	21	30	48	50	16	48	118.5	4	2	86.5	101
MXQ16A-40Z	58	28	17	58	80	23	58	135.5	4	2	103.5	118
MXQ16A-50Z	40	—	27	—	80	28	63	145.5	6	3	113.5	128
MXQ16A-75Z	46	23	58	52	80	34	88	176.5	6	3	144.5	159
MXQ16A-100Z	44	39	102	44	80	53	113	220.5	8	4	188.5	203
MXQ16A-125Z	44	20	127	44	80	53	138	245.5	10	5	213.5	228

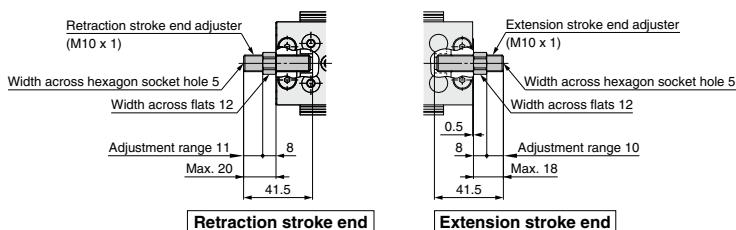
Dimensions: MXQ **16A** [Adjuster Option]

MXQ **16A**-□ With adjuster option (ø16)

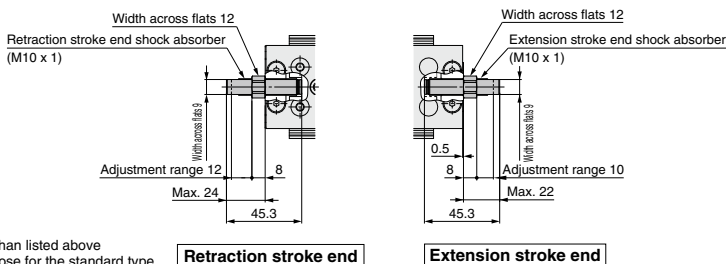
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)

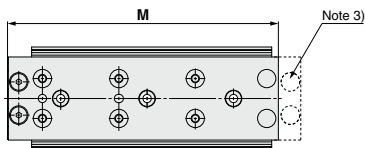


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ **16A**-□**ZN** Shorter total length type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward.
(Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)

Model	M
MXQ16A-10ZN	85
MXQ16A-20ZN	95
MXQ16A-30ZN	105
MXQ16A-40ZN	122
MXQ16A-50ZN	132
MXQ16A-75ZN	163
MXQ16A-100ZN	207
MXQ16A-125ZN	232

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)K□

C(L)KU

CKQ

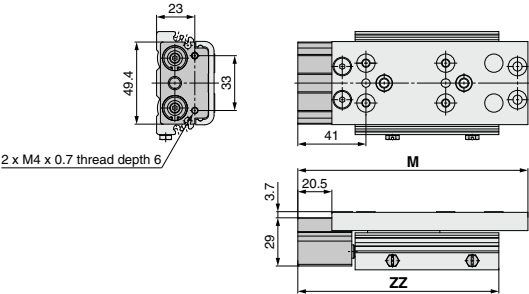
CKZN

WRF

INDEX

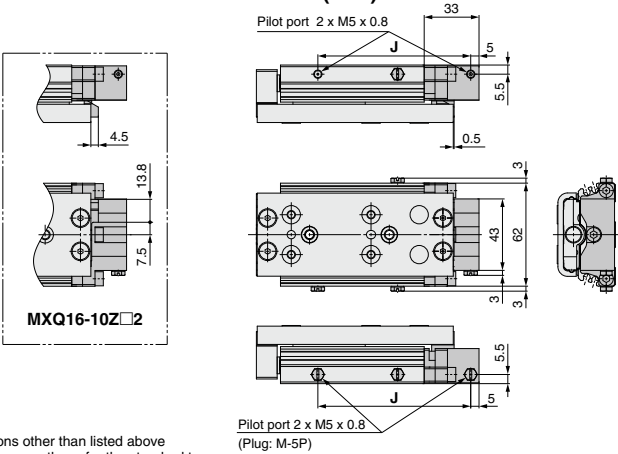
Dimensions: MXQ **16A** [Functional Option]

MXQ **16A-□□1** With buffer (ø16)



Dimensions (mm)			
Model	Standard type	Shorter total length type	ZZ
MXQ16A-10Z□1	118.5	105	107
MXQ16A-20Z□1	128.5	115	111
MXQ16A-30Z□1	138.5	125	121
MXQ16A-40Z□1	155.5	142	138
MXQ16A-50Z□1	165.5	152	148
MXQ16A-75Z□1	196.5	183	179
MXQ16A-100Z□1	240.5	227	223
MXQ16A-125Z□1	265.5	252	248

MXQ **16A-□□2** With end lock (ø16)



Dimensions (mm)	
Model	J
MXQ16A-10Z□2	78
MXQ16A-20Z□2	82
MXQ16A-30Z□2	92
MXQ16A-40Z□2	109
MXQ16A-50Z□2	119
MXQ16A-75Z□2	150
MXQ16A-100Z□2	194
MXQ16A-125Z□2	219

* Dimensions other than listed above are the same as those for the standard type.

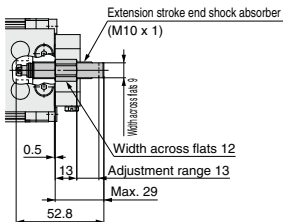
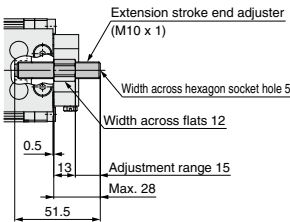
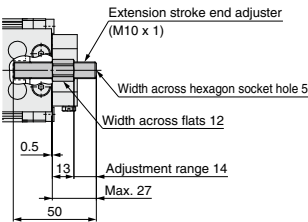
MXQ **16A-□□2** With end lock, extension stroke end adjuster (ø16)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together. The stroke adjustment range is different from the adjuster of the standard product. Retraction stroke end adjuster cannot be mounted to the end lock.

Metal stopper with bumper: **□ZB**

Rubber stopper: **□ZE**

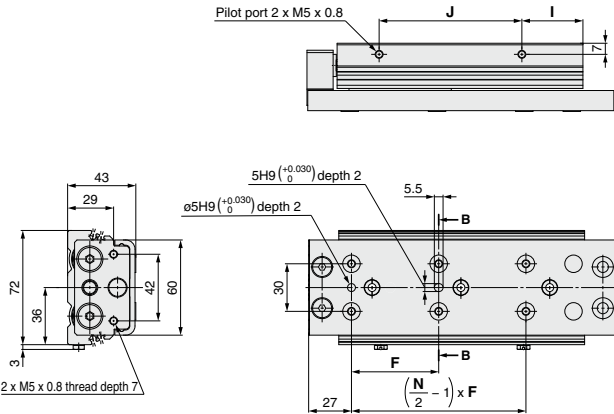
Shock absorber (RJ): **□ZH**



* Dimensions other than listed above are the same as those for the standard type.

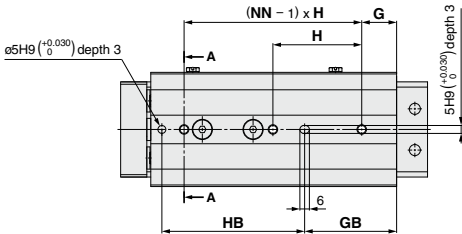
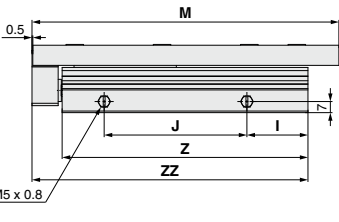
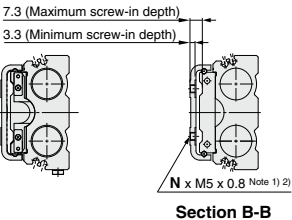
Dimensions: MXQ **20A** [Standard]

MXQ **20A-□Z** Standard type



Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



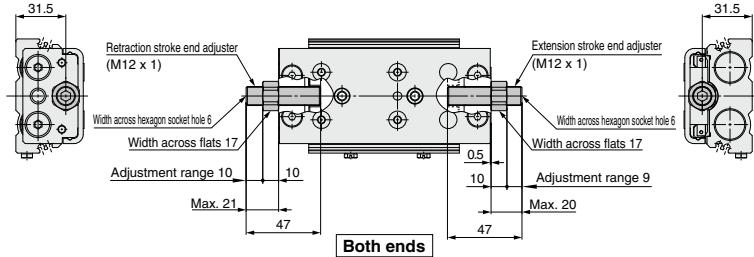
Dimensions

Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ20A-10Z	45	18	8	46	70	24.5	34	113.5	4	2	85	104
MXQ20A-20Z	40	18	8	46	70	24.5	34	123.5	4	2	85	104
MXQ20A-30Z	48	28	18	46	70	22.5	46	133.5	4	2	95	114
MXQ20A-40Z	58	28	18	56	80	22.5	56	143.5	4	2	105	124
MXQ20A-50Z	42	—	34	—	80	30.5	64	159.5	6	3	121	140
MXQ20A-75Z	55	22	58	56	90	38.5	90	193.5	6	3	155	174
MXQ20A-100Z	50	16	108	56	90	63.5	115	266.5	8	4	205	224
MXQ20A-125Z	55	32	133	59	90	63.5	140	291.5	8	4	230	249
MXQ20A-150Z	62	48	158	62	90	63.5	165	316.5	8	4	255	274

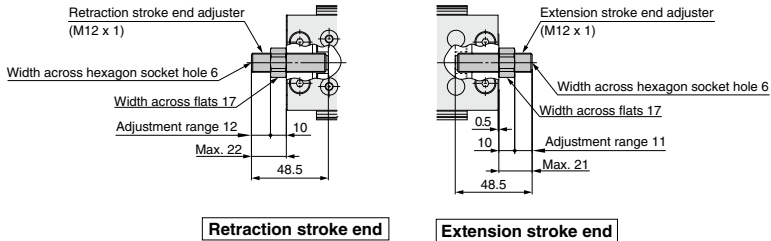
Dimensions: MXQ **20A** [Adjuster Option]

MXQ 20A-□□ With adjuster option (ø20)

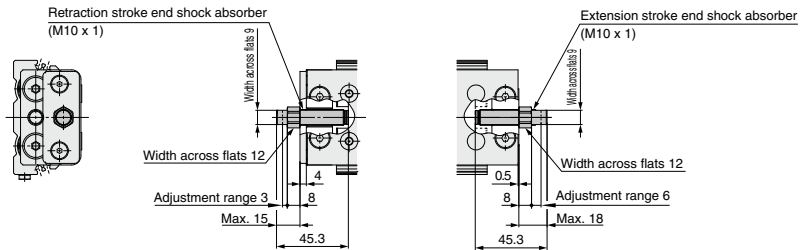
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)

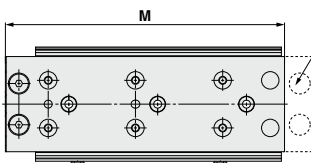


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 20A-□**ZN** Shorter total length type



Note 3)

Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward. (Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)

Model	M
MXQ20A-10ZN	96
MXQ20A-20ZN	106
MXQ20A-30ZN	116
MXQ20A-40ZN	126
MXQ20A-50ZN	142
MXQ20A-75ZN	176
MXQ20A-100ZN	249
MXQ20A-125ZN	274
MXQ20A-150ZN	299

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

□Y

□X

CK□1

□(L)□

□(L)□U

CKQ

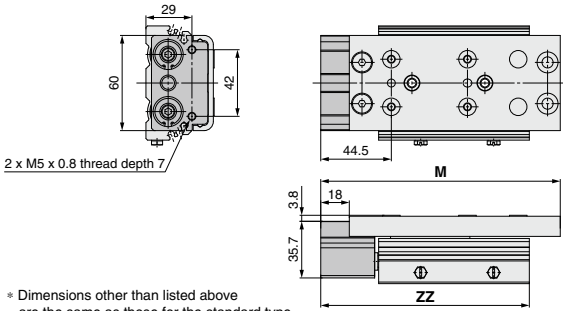
CKZ2N

WRF

INDEX

Dimensions: MXQ **20A** [Functional Option]

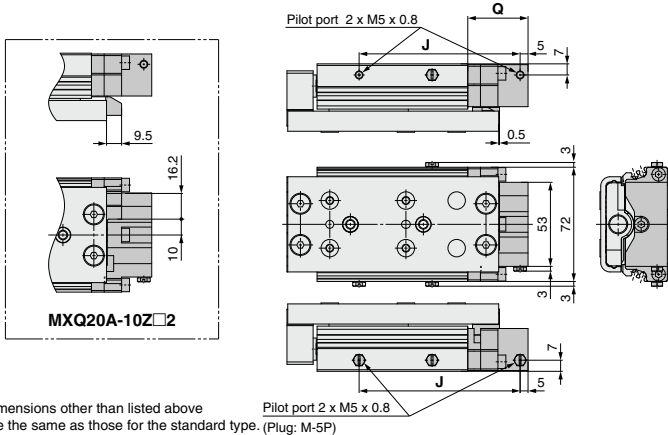
MXQ **20A-□□1** With buffer (ø20)



Model	Dimensions (mm)		
	Standard type	Shorter total length type	ZZ
MXQ20A-10Z□1	131	113.5	121.5
MXQ20A-20Z□1	141	123.5	
MXQ20A-30Z□1	151	133.5	131.5
MXQ20A-40Z□1	161	143.5	141.5
MXQ20A-50Z□1	177	159.5	157.5
MXQ20A-75Z□1	211	193.5	191.5
MXQ20A-100Z□1	284	266.5	241.5
MXQ20A-125Z□1	309	291.5	266.5
MXQ20A-150Z□1	334	316.5	291.5

* Dimensions other than listed above are the same as those for the standard type.

MXQ **20A-□□2** With end lock (ø20)



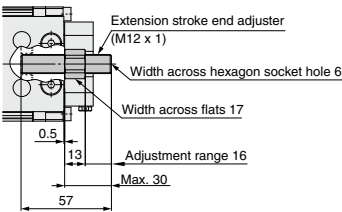
Model	Dimensions (mm)	
	J	Q
MXQ20A-10Z□2	91.5	38
MXQ20A-20Z□2		
MXQ20A-30Z□2		
MXQ20A-40Z□2		
MXQ20A-50Z□2	127.5	61
MXQ20A-75Z□2	161.5	
MXQ20A-100Z□2	234.5	
MXQ20A-125Z□2	259.5	
MXQ20A-150Z□2	284.5	

* Dimensions other than listed above are the same as those for the standard type. (Plug: M-5P)

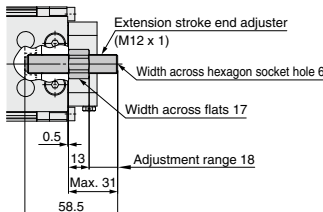
MXQ **20A-□□2** With end lock, extension stroke end adjuster (ø20)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together. The stroke adjustment range is different from the adjuster of the standard product. Retraction stroke end adjuster cannot be mounted to the end lock.

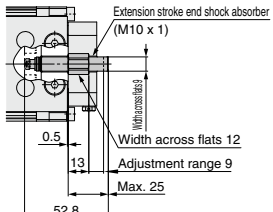
Metal stopper with bumper: **□ZB**



Rubber stopper: **□ZE**



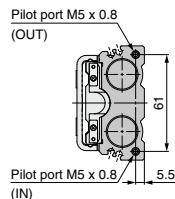
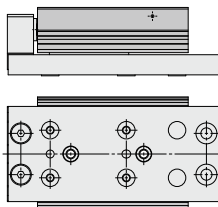
Shock absorber (RJ): **□ZH**



* Dimensions other than listed above are the same as those for the standard type.

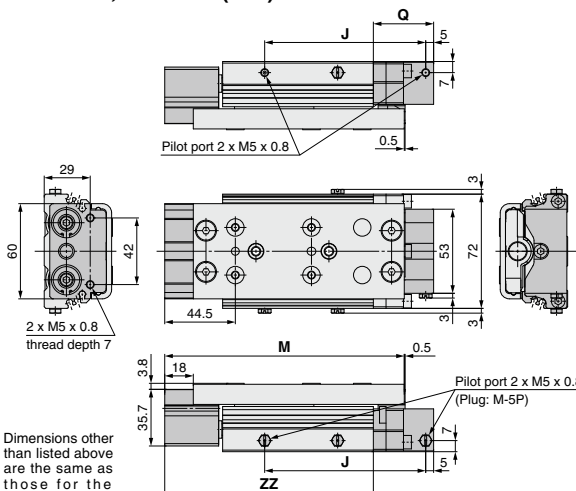
Dimensions: MXQ **20A** [Functional Option]

MXQ 20A-□□3
Axial piping (ø20)

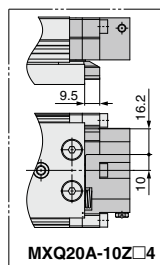


* Dimensions other than listed above are the same as those for the standard type.

MXQ 20A-□□4
With buffer, end lock (ø20)



* Dimensions other than listed above are the same as those for the standard type.

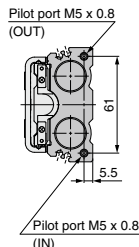
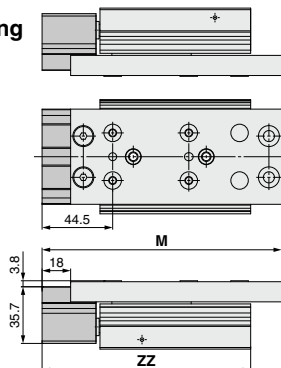
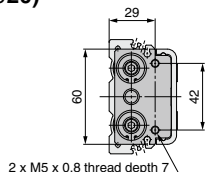


MXQ20A-10Z□4

Dimensions (mm)

Model	J	Q	Standard type M	Shorter total length type M	ZZ
MXQ20A-10Z□4			131	113.5	
MXQ20A-20Z□4	91.5	38	141	123.5	121.5
MXQ20A-30Z□4	101.5		151	133.5	131.5
MXQ20A-40Z□4	111.5		161	143.5	141.5
MXQ20A-50Z□4	127.5		177	159.5	157.5
MXQ20A-75Z□4	131.5		211	193.5	191.5
MXQ20A-100Z□4	264		284	266.5	241.5
MXQ20A-125Z□4	259.5	61	309	291.5	266.5
MXQ20A-150Z□4	284.5		334	316.5	291.5

MXQ 20A-□□5
With buffer, axial piping
(Ø20)



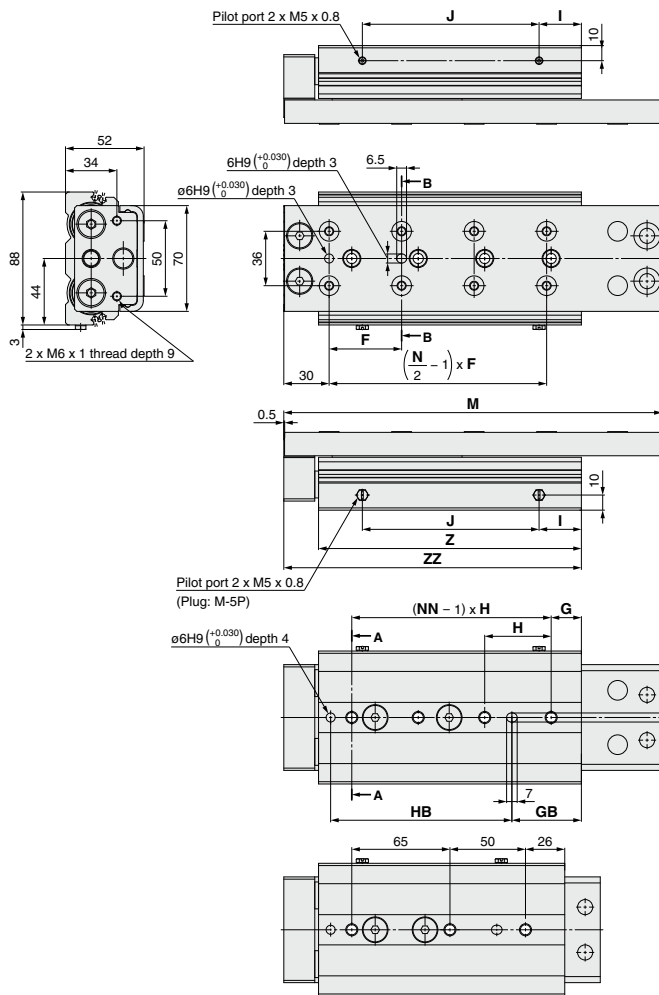
* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)

Model	Standard type	Shorter total length type	ZZ
	M	M	
MXQ20A-10Z ₀₅	131	113.5	121.5
MXQ20A-20Z ₀₅	141	123.5	
MXQ20A-30Z ₀₅	151	133.5	
MXQ20A-40Z ₀₅	161	143.5	141.5
MXQ20A-50Z ₀₅	177	159.5	157.5
MXQ20A-75Z ₀₅	211	193.5	191.5
MXQ20A-100Z ₀₅	284	266.5	241.5
MXQ20A-125Z ₀₅	309	291.5	266.5
MXQ20A-150Z ₀₅	334	316.5	291.5

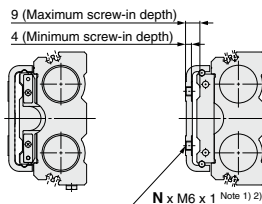
Dimensions: MXQ **25A** [Standard]

MXQ 25A-□Z Standard type

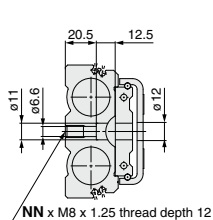


Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



Section B-B



Section A-A

Bottom view of MXQ25A-75Z

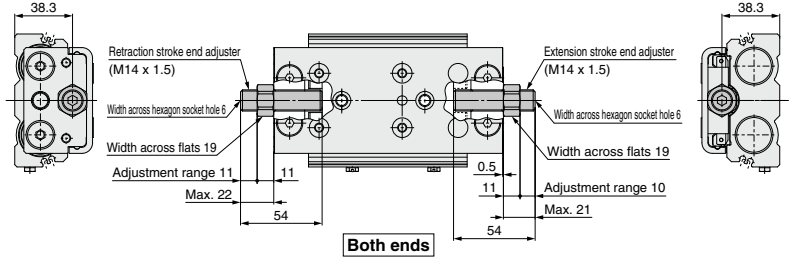
Dimensions (mm)

Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ25A-10Z	55	18	7	55	80	30	36	131.5	4	2	95	118
MXQ25A-20Z	46	18	7	55	80	30	36	141.5	4	2	95	118
MXQ25A-30Z	55	28	17	55	80	22	54	151.5	4	2	105	128
MXQ25A-40Z	65	28	17	65	90	22	64	161.5	4	2	115	138
MXQ25A-50Z	75	36	20	80	110	43	66	184.5	4	2	138	161
MXQ25A-75Z	60	—	45	—	110	42	92	209.5	6	3	163	186
MXQ25A-100Z	48	20	46	44	120	28	117	250.5	8	4	174	197
MXQ25A-125Z	60	18	60	66	170	67	142	314.5	8	4	238	261
MXQ25A-150Z	65	43	85	66	170	66	168	339.5	8	4	263	286

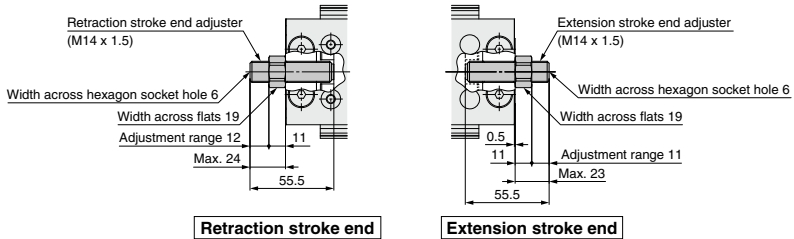
Dimensions: MXQ **25A** [Adjuster Option]

MXQ 25A-□ With adjuster option (ø25)

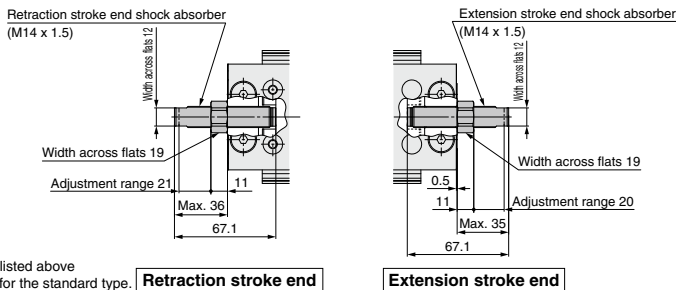
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)

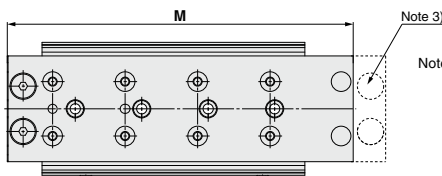


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 25A-□ZN Shorter total length type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward. (Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)

Model	M
MXQ25A-10ZN	110
MXQ25A-20ZN	120
MXQ25A-30ZN	130
MXQ25A-40ZN	140
MXQ25A-50ZN	163
MXQ25A-75ZN	188
MXQ25A-100ZN	229
MXQ25A-125ZN	293
MXQ25A-150ZN	318

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)□

C(L)□U

CKQ

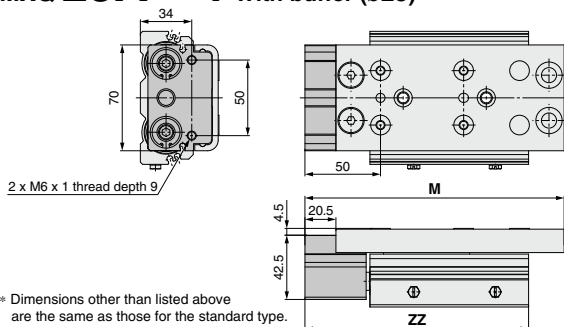
CK2ZN

WRF

INDEX

Dimensions: MXQ **25A** [Functional Option]

MXQ 25A-□□1 With buffer (ø25)

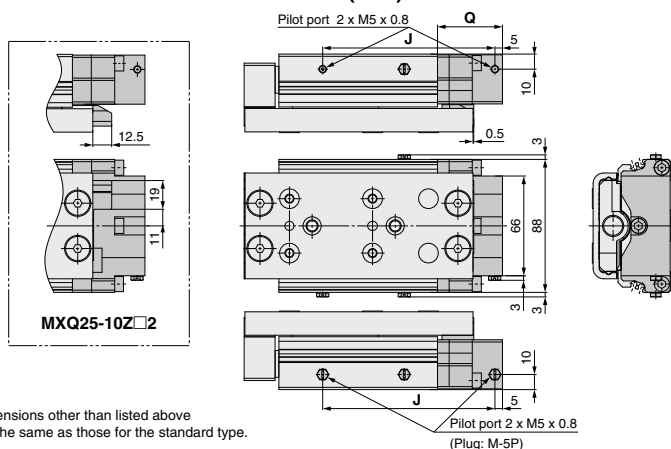


* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)

Model	Standard type		Shorter total length type	ZZ
	M	M		
MXQ25A-10Z□□	151.5	130	138	
MXQ25A-20Z□□	161.5	140		
MXQ25A-30Z□□	171.5	150		148
MXQ25A-40Z□□	181.5	160	158	
MXQ25A-50Z□□	204.5	183	181	
MXQ25A-75Z□□	229.5	208	206	
MXQ25A-100Z□□	270.5	249	217	
MXQ25A-125Z□□	334.5	313	281	
MXQ25A-150Z□□	359.5	338	306	

MXQ 25A-□□2 With end lock (ø25)



* Dimensions other than listed above are the same as those for the standard type.

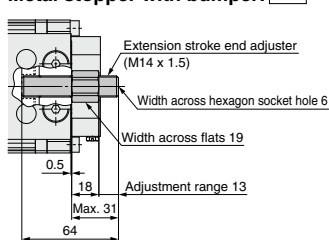
Dimensions (mm)

Model	J	Q
MXQ25A-10Z□2	109	48
MXQ25A-20Z□2	104	
MXQ25A-30Z□2	114	
MXQ25A-40Z□2	124	43
MXQ25A-50Z□2	147	
MXQ25A-75Z□2	172	
MXQ25A-100Z□2	213	
MXQ25A-125Z□2	277	73
MXQ25A-150Z□2	302	

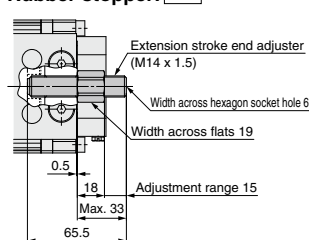
MXQ 25A-□□2 With end lock, extension stroke end adjuster (ø25)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together.
The stroke adjustment range is different from the adjuster of the standard product.
Retraction stroke end adjuster cannot be mounted to the end lock.

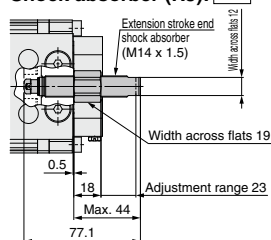
Metal stopper with bumper: **ZB**



Rubber stopper: ZE



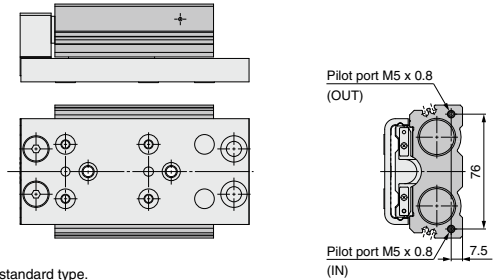
Shock absorber (RJ): ZH



* Dimensions other than listed above are the same as those for the standard type.

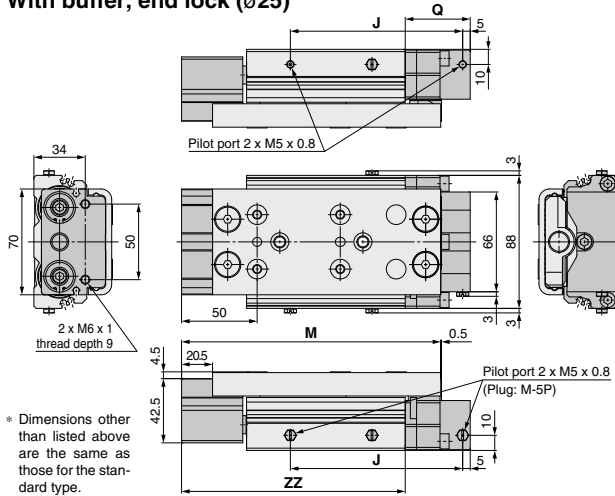
Dimensions: MXQ **25A** [Functional Option]

MXQ **25A-□□3** Axial piping (ø25)

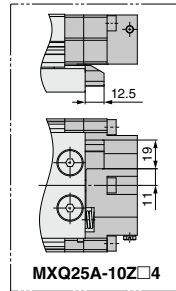


* Dimensions other than listed above are the same as those for the standard type.

MXQ **25A-□□4** With buffer, end lock (ø25)

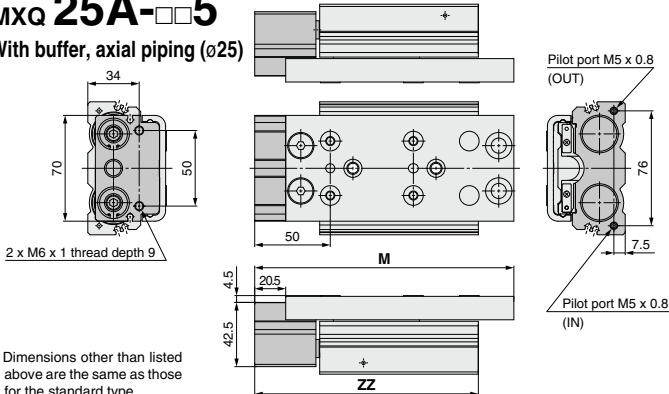


* Dimensions other than listed above are the same as those for the standard type.



Dimensions		(mm)			
Model	J	Q	Standard type	Shorter total length type	ZZ
	M	M			
MXQ25A-102□4	109	48	151.5	130	138
MXQ25A-202□4	104		161.5	140	
MXQ25A-302□4	114		171.5	150	148
MXQ25A-402□4	124	43	181.5	160	158
MXQ25A-502□4	147		204.5	183	181
MXQ25A-752□4	172		229.5	208	206
MXQ25A-1002□4	213		270.5	149	217
MXQ25A-1252□4	277	73	334.5	313	281
MXQ25A-1502□4	302		359.5	338	306

MXQ **25A-□□5** With buffer, axial piping (ø25)



* Dimensions other than listed above are the same as those for the standard type.

Dimensions		(mm)			
Model		Standard type	Shorter total length type	ZZ	
	M	M			
MXQ25A-102□5		151.5	130	138	
MXQ25A-202□5		161.5	140		
MXQ25A-302□5		171.5	150	148	
MXQ25A-402□5		181.5	160	158	
MXQ25A-502□5		204.5	183	181	
MXQ25A-752□5		229.5	208	206	
MXQ25A-1002□5		270.5	149	217	
MXQ25A-1252□5		334.5	313	281	
MXQ25A-1502□5		359.5	338	306	

Air Slide Table

Low Thrust with High Rigidity Type

Series **MXQ□B**

ø6, ø8, ø12, ø16, ø20

RoHS

How to Order

MXQ 12 B - 30 ZA - M9BW □ - □

Bore size	Body option		Standard stroke (mm)
	Standard type B	Symmetric type BL	
6	Port 	Switch mounting groove 	10, 20, 30, 40, 50, 75
8	Port 	Switch mounting groove 	10, 20, 30, 40, 50, 75, 100
12	Port 	Switch mounting groove 	10, 20, 30, 40, 50, 75, 100, 125
16	Port 	Switch mounting groove 	10, 20, 30, 40, 50, 75, 100, 125, 150
20	Port 	— (Note)	10, 20, 30, 40, 50, 75, 100, 125, 150

Note) No setting, as the standard model has the piping ports and auto switch mounting grooves on both sides.

● **Made to Order**
Refer to page 905 for details.

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Auto switch

● **Nil** Without auto switch

* For applicable auto switches, refer to the table below.

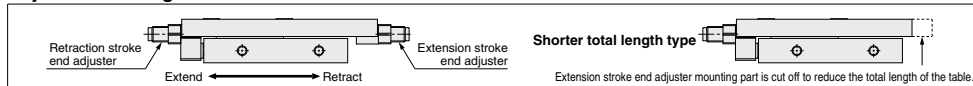
Adjuster option

Symbol	Adjuster type	Adjuster mounting position Note 1)
		Extension stroke end Retraction stroke end
Z	Without adjuster	● ●
ZA	Metal stopper with bumper	● ●
ZB	(Not available for ø6)	● ●
ZC		● ●
ZD	Rubber stopper	● ●
ZE		● ●
ZF		● ●
ZG		● ●
ZH	Shock absorber (R.J)	● ●
ZJ		● ●
ZN	Note 2) Without adjuster	● ●
ZP	Shorter overall length type	● ●
ZQ	Rubber stopper	● ●
ZR	Shock absorber (R.J)	● ●
ZS	Metal stopper with bumper	● ●

Note 1) ●: Shipped together with the product, but not assembled. Without any symbols for the adjuster mounting position, the adjuster can be mounted afterward.

Note 2) Extension stroke end adjuster mounting part is cut off to reduce the total length of the table.

Adjuster Mounting Position



Applicable Auto Switches/Refer to the WEB catalog or Best Pneumatics No.3 for further information on 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 auto switch	—	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NV	M9N	●	●	●	○	IC	Relay, PLC	
	3-wire (PNP)			M9PV			M9P	●	●	●	○				
	2-wire			M9BV			M9B	●	●	●	○				
	3-wire (NPN)			M9NWW			M9NW	●	●	●	○				
	3-wire (PNP)			5 V, 12 V	M9PWV		M9PW	●	●	●	○	IC			
	2-wire				M9BWV		M9BW	●	●	●	○				
	3-wire (NPN)				M9NAV***		M9NA***	○	○	●	○				
	3-wire (PNP)				M9PAV***		M9PA***	○	○	●	○				
	2-wire			5 V, 12 V	M9BAV***		M9BA***	○	○	●	○	IC			
	2-wire							○	○	○	○				

*** Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact 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) M9NWWZ

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

* Since there are other applicable auto switches than listed, refer to page 959 for details.

* For details about auto switches with pre-wired connector, refer to the **WEB catalog** or Best Pneumatics No.3.

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



Specifications

Bore size (mm)	6	8	12	16	20
Piping port size	M5 x 0.8				
Fluid	Air				
Action	Double acting				
Operating pressure	0.15 to 0.7 MPa Note)				
Proof pressure	1.05 MPa				
Ambient and fluid temperature	-10 to 60°C				
Operating speed range	50 to 500 mm/s (Metal stopper with bumper: 50 to 200 mm/s)				
(Average operating speed)	* in the standard stroke table: 50 to 300 mm/s				
Cushion (Without stroke adjuster)	Internal rubber bumper				
Cushion (With stroke adjuster)	Metal stopper with bumper, Rubber stopper, Shock absorber				
Lubrication	Non-lube				
Auto switch	Solid state auto switch (2-wire, 3-wire)				
	2-color indication solid state auto switch (2-wire, 3-wire)				
Stroke length tolerance	+2 to 0 mm				

Note) Refer to page 906 for the minimum operating pressure for metal stopper with bumper. If the operating pressure is lower than the minimum operating pressure, repeated accuracy becomes worse.
Minimum operating pressure of metal stopper with bumper: Pressure required to fully compress the protrusion of the bumper to get in contact with the metal part.

Standard Stroke

Model	Standard stroke (mm)
MXQ6B	10, 20, 30, 40, 50*, 75*
MXQ8B	10, 20, 30, 40, 50, 75*, 100*
MXQ12B	10, 20, 30, 40, 50, 75, 100, 125
MXQ16B	10, 20, 30, 40, 50, 75, 100*, 125*, 150*
MXQ20B	10, 20, 30, 40, 50, 75, 100, 125*, 150*

Note) * Operating speed range is 50 to 300 mm/s. (Without stroke adjuster)



Made to Order

(For details, refer to pages 960 to 964.)

Symbol	Specifications
-X7	PTFE grease
-X9	Grease for food processing equipment
-X11	Long adjustment bolt (Longer adjustment range by 10 mm)
-X12	Long adjustment bolt (Longer adjustment range by 20 mm)
-X28	Long adjustment nut and bolt
-X33	Without built-in auto switch magnet
-X39	Fluororubber seal
-X42	Anti-corrosive guide unit
-X45	EPDM seal

Theoretical Output

The dual rod ensures an output twice that of existing cylinders.

(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	
6	3	OUT	57	11	17	23	29	34	40	
		IN	42	8	13	17	21	25	29	
		OUT	101	20	30	40	51	61	71	
8	4	IN	75	15	23	30	38	45	53	
		OUT	226	45	68	90	113	136	158	
		IN	170	34	51	68	85	102	119	
12	6	OUT	402	80	121	161	201	241	281	
		IN	346	69	104	138	173	207	242	
		OUT	628	126	188	251	314	377	440	
20	8	IN	528	106	158	211	264	317	369	

Weight

Model	Standard stroke (mm)										Reduction of the extension stroke and adjuster non-mounting type	Additional weight of adjuster option	
	10	20	30	40	50	75	100	125	150			Extension stroke end	Retraction stroke end
MXQ6B	120	140	150	180	230	260	—	—	—	—	-6	10	8
MXQ8B	220	240	260	310	330	450	500	—	—	—	-12	20	16
MXQ12B	420	450	480	550	580	700	890	970	—	—	-21	40	30
MXQ16B	710	730	770	820	920	1,100	1,400	1,700	1,800	—	-33	70	50(80)
MXQ20B	1,200	1,200	1,300	1,300	1,600	1,700	2,000	2,600	2,700	—	-60	110	80

Note) Value in the () is the additional weight for the shock absorber.

Maximum Load Weight

Model	Without adjuster Internal rubber bumper	Adjuster option			
		Rubber stopper	Metal stopper with bumper	Shock absorber (RJ)	
				Horizontal	Vertical
MXQ6B	0.6	1	—	—	1
MXQ8B	1	2	1	1.5	1
MXQ12B	2	4	2	4	2.5
MXQ16B	4	6	4	—	6
MXQ20B	6	9	6	9	6

Allowable Kinetic Energy

Model	Without adjuster Internal rubber bumper	Rubber stopper	Adjuster option	
			Metal stopper with bumper	Shock absorber (RJ)
MXQ6B	0.025	0.053	—	0.17
MXQ8B	0.046	0.11	0.013	0.24
MXQ12B	0.095	0.18	0.03	0.61
MXQ16B	0.16	0.34	0.06	1.2
MXQ20B	0.32	0.51	0.095	1.3

Optional Specifications

Adjusters

Metal Stopper with Bumper

Applicable slide table	MXQ8B	MXQ12B	MXQ16B	MXQ20B
Model (Metal stopper with bumper only)	MXQB-A887	MXQB-A1287	MXQB-A1687	MXQB-A2087
Max. absorbed energy (J)	0.018	0.04	0.08	0.12
Stroke absorption (mm)	2	2.8	3.6	4.4
Full compression force of bumper (N)	20	42	65	97
Min. operating pressure of metal stopper with bumper* (MPa)	0.3	0.3	0.2	0.2
Weight (g)	14	25	42	65
Mounting screw size (mm)	M8 x 1	M10 x 1	M12 x 1	M14 x 1.5

* Pressure required to fully compress the protrusion of the bumper when mounted horizontally to get in contact with the metal part. Consider the additional weight of the load when mounted in the vertical direction. * Not available for ø6.

Rubber Stopper

Applicable slide table	MXQ6B	MXQ8B	MXQ12B	MXQ16B	MXQ20B
Model (Rubber stopper only)	MXQA-A827	MXQA-A1227	MXQA-A1627	MXQA-A2027	MXQA-A2527
Max. absorbed energy (J)	0.06	0.12	0.2	0.4	0.6
Weight (g)	7	14	25	42	65
Mounting screw size (mm)	M6 x 0.75	M8 x 1	M10 x 1	M12 x 1	M14 x 1.5

Shock Absorber (RJ)

Applicable slide table	MXQ6B	MXQ8B	MXQ12B	MXQ16B	MXQ20B
Model (Shock absorber only)	RJ0603N	RJ0805N	RJ1006N	RJ1007HN	RJ1410N
Max. absorbed energy (J)	0.35	0.5	1.5	3	3.7
Stroke absorption (mm)	3	5	6	7	10
Collision speed (mm/s)	300 to 500	50 to 500			
Max. operating frequency (cycle/min)	80	80	70	45	
Max. allowable thrust (N)	150	245	422	814	
Spring force (Extended) (N)	1.3	2.8	5.4	6.4	
Spring force (Compressed) (N)	3.9	4.9	8	15	
Weight (g)	5.5	15	23	65	
Mounting screw size (mm)	M6 x 0.75	M8 x 1	M10 x 1	M14 x 1.5	

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2
CQSLube-
retainer

JA

MXH

MXQ

MGP

C□Y
C□X

CK□1

C(L)K□

C(L)KU

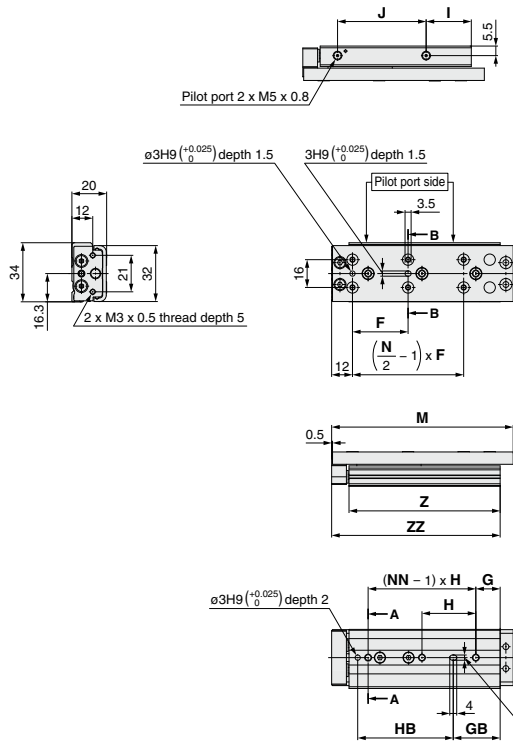
CKQ

CKZN

WRF

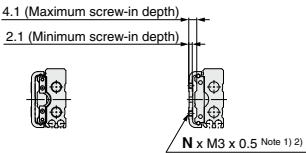
Dimensions: MXQ **6B** [Standard]

MXQ **6B-□Z** Standard type

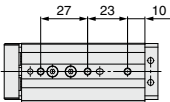


Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

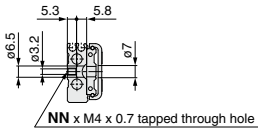
Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



Section B-B



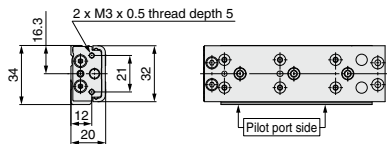
Bottom view of MXQ6B-30Z



Section A-A

Dimensions												(mm)
Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ6B-10Z	25	15	9	25	37	10	31	68.5	4	2	51	61
MXQ6B-20Z	25	22	16	28	40	17	34	78.5	4	2	61	71
MXQ6B-30Z	26	—	26	—	40	20	41	88.5	6	3	71	81
MXQ6B-40Z	32	14	27	31	55	26	51	104.5	6	3	87	97
MXQ6B-50Z	46	16	54	29	55	40	64	131.5	6	4	114	124
MXQ6B-75Z	50	15	56	30	55	20	86	156.5	6	4	116	126

MXQ **6BL-□Z** Symmetric type

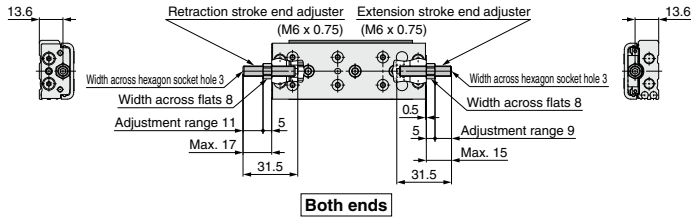


* Dimensions other than listed above are the same as those for the standard type.

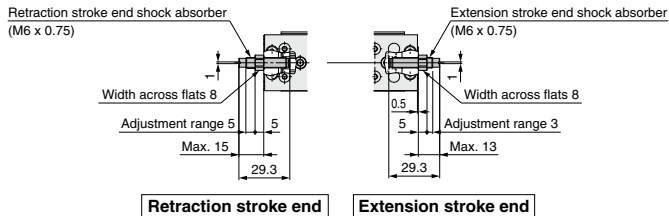
Dimensions: MXQ **6B** [Adjuster Option]

MXQ **6B**-□□ With adjuster option (ø6)

Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)

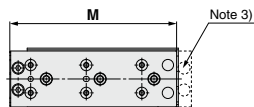


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ **6B**-□**ZN** Shorter total length type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward.
(Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)

Model	M
MXQ6B-10ZN	60
MXQ6B-20ZN	70
MXQ6B-30ZN	80
MXQ6B-40ZN	96
MXQ6B-50ZN	123
MXQ6B-75ZN	148

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-
retainer

JA

MXH

MXQ

MGP

C□Y
C□X

CK□1

C(L)K□

C(L)KU

CKQ

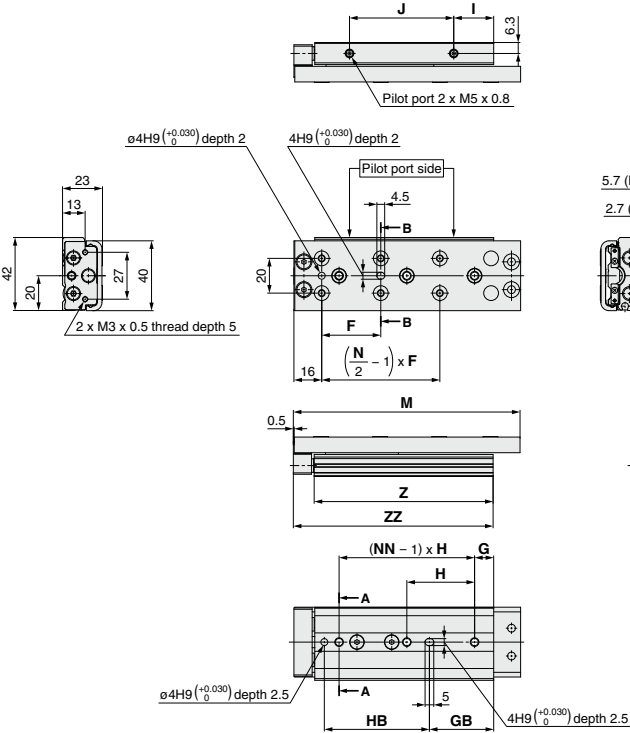
CKZ2N

WRF

INDEX

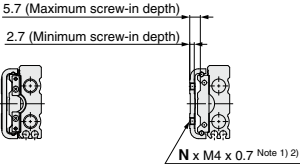
Dimensions: MXQ **8B** [Standard]

MXQ **8B-□Z** Standard type

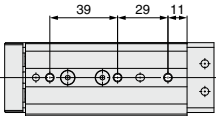


Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

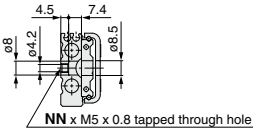
Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



Section B-B



Bottom view of MXQ8B-40



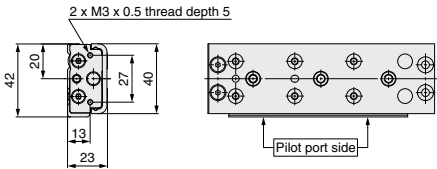
Section A-A

Dimensions

Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ8B-10Z	28	17	11	32	46	11	32	82.5	4	2	63	75
MXQ8B-20Z	28	19	11	32	48	13	32	92.5	4	2	65	77
MXQ8B-30Z	38	21	11	40	58	15	40	102.5	4	2	75	87
MXQ8B-40Z	34	—	27	—	60	23	50	120.5	6	3	93	105
MXQ8B-50Z	34	11	37	39	60	23	60	130.5	6	3	103	115
MXQ8B-75Z	36	25	41	36	100	42	85	174.5	8	4	147	159
MXQ8B-100Z	36	14	66	36	100	42	110	199.5	10	5	172	184

(mm)

MXQ **8BL-□Z** Symmetric type

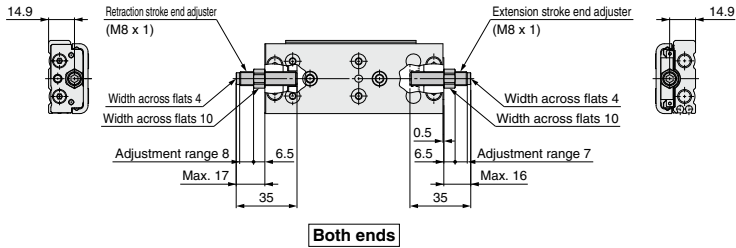


* Dimensions other than listed above are the same as those for the standard type.

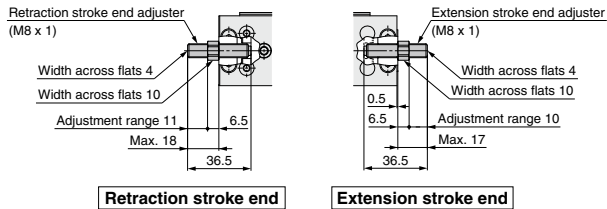
Dimensions: MXQ **8B** [Adjuster Option]

MXQ **8B**-□□ With adjuster option (ø8)

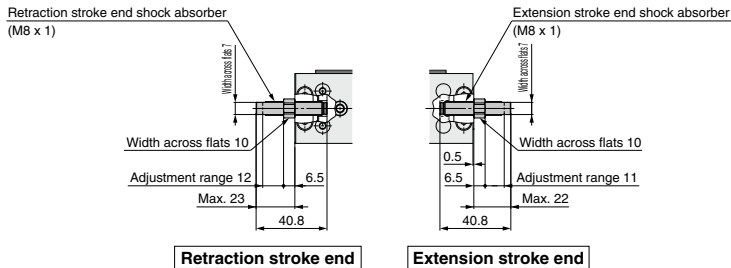
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)

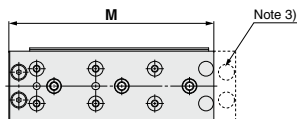


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ **8B**-□**ZN** Shorter total length type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward.
(Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)	
Model	M
MXQ8B-10ZN	72
MXQ8B-20ZN	82
MXQ8B-30ZN	92
MXQ8B-40ZN	110
MXQ8B-50ZN	120
MXQ8B-75ZN	164
MXQ8B-100ZN	189

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-
retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)□

C(L)KU

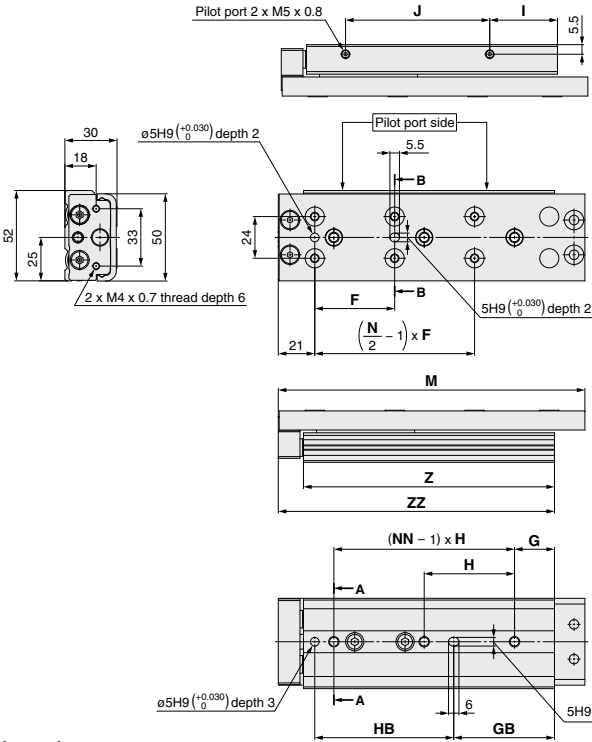
CKQ

CK2ZN

WRF

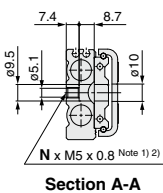
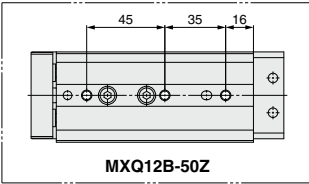
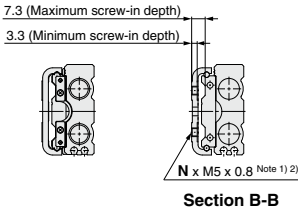
Dimensions: MXQ **12B** [Standard]

MXQ **12B-□Z** Standard type



Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

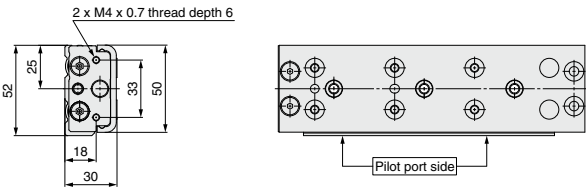
Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



Dimensions

Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ12B-10Z	38	16	8	39	58	21	29	98.5	4	2	72.5	87
MXQ12B-20Z	38	20	12	39	58	25	29	108.5	4	2	76.5	91
MXQ12B-30Z	48	21	30	48	50	26.5	37.5	118.5	4	2	86.5	101
MXQ12B-40Z	58	28	17	58	80	33.5	47.5	135.5	4	2	103.5	118
MXQ12B-50Z	40	—	27	—	80	33	58	145.5	6	3	113.5	128
MXQ12B-75Z	46	23	58	52	80	39	83	176.5	6	3	144.5	159
MXQ12B-100Z	44	39	102	44	80	57	109	220.5	8	4	188.5	203
MXQ12B-125Z	44	20	127	44	80	57	134	245.5	10	5	213.5	228

MXQ **12BL-□Z** Symmetric type

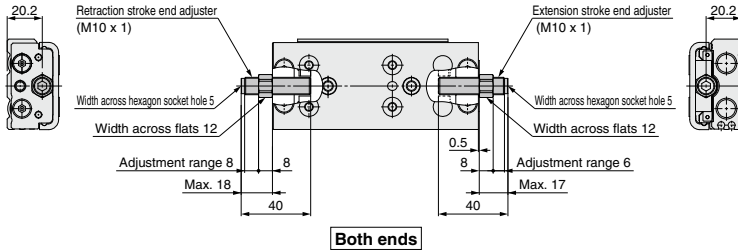


* Dimensions other than listed above are the same as those for the standard type.

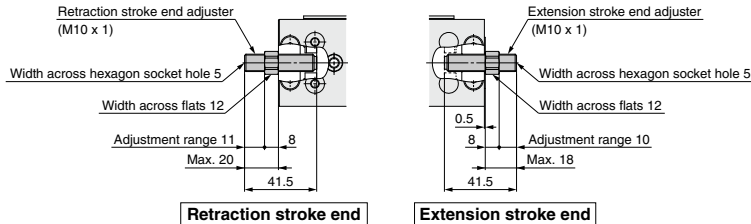
Dimensions: MXQ **12B** [Adjuster Option]

MXQ 12B-□ With adjuster option (ø12)

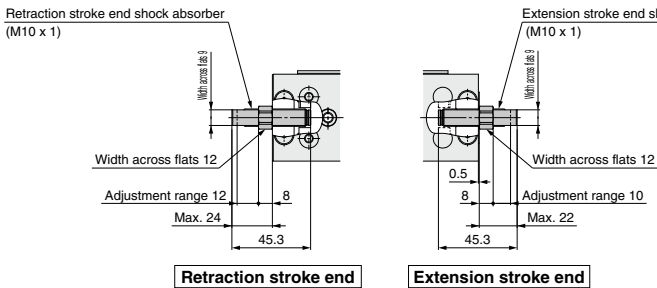
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)

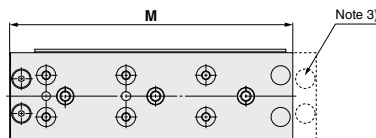


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 12B-□ZN Shorter total length type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward.
(Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)	
Model	M
MXQ12B-10ZN	85
MXQ12B-20ZN	95
MXQ12B-30ZN	105
MXQ12B-40ZN	122
MXQ12B-50ZN	132
MXQ12B-75ZN	163
MXQ12B-100ZN	207
MXQ12B-125ZN	232

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-
retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)K□

C(L)KU

CKQ

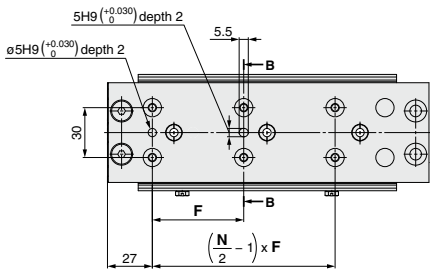
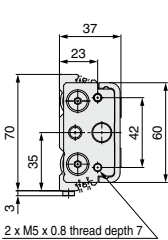
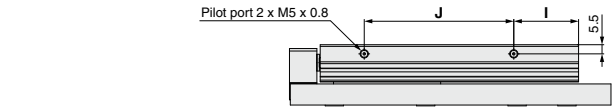
CK2ZN

WRF

INDEX

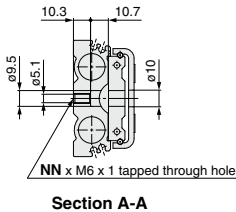
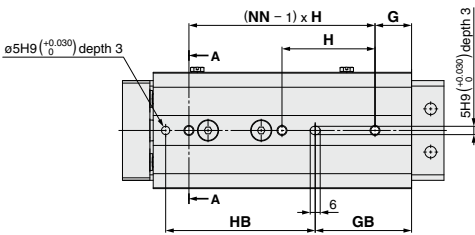
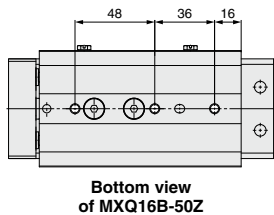
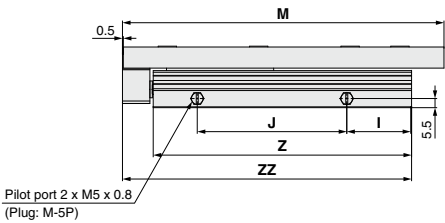
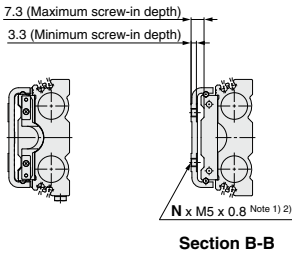
Dimensions: MXQ **16B** [Standard]

MXQ **16B-□Z** Standard type



Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



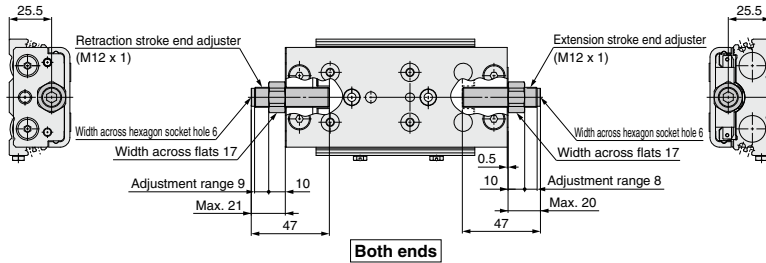
Dimensions

Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ16B-10Z	45	18	8	46	70	40	18.5	113.5	4	2	85.5	104
MXQ16B-20Z	40	18	8	46	70	28.5	30	123.5	4	2	85.5	104
MXQ16B-30Z	48	28	18	46	70	22.5	46	133.5	4	2	95.5	114
MXQ16B-40Z	58	28	18	56	80	22.5	56	143.5	4	2	105.5	124
MXQ16B-50Z	42	—	34	—	80	35.5	59	159.5	6	3	121.5	140
MXQ16B-75Z	55	22	58	56	90	44.5	84	193.5	6	3	155.5	174
MXQ16B-100Z	50	16	108	56	90	66.5	112	266.5	8	4	205.5	224
MXQ16B-125Z	55	32	133	59	90	68.5	135	291.5	8	4	230.5	249
MXQ16B-150Z	62	48	158	62	90	68.5	160	316.5	8	4	255.5	274

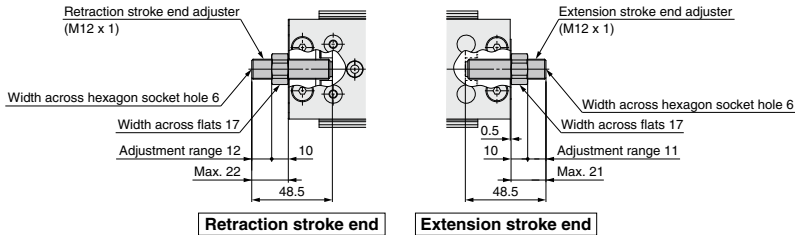
Dimensions: MXQ **16B** [Adjuster Option]

MXQ 16B-□□ With adjuster option (ø16)

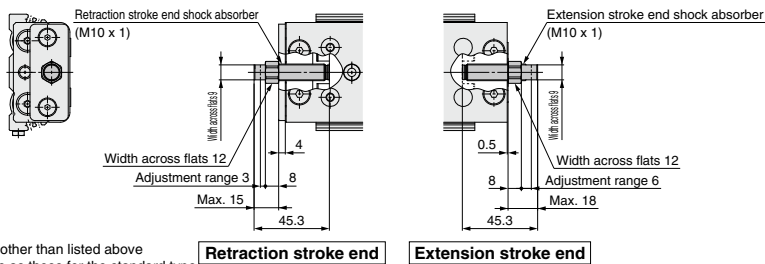
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)

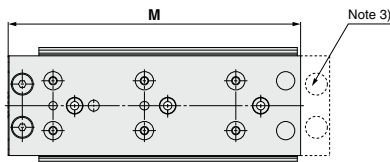


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 16B-□ZN Shorter total length type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward. (Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)	
Model	M
MXQ16B-10ZN	96
MXQ16B-20ZN	106
MXQ16B-30ZN	116
MXQ16B-40ZN	126
MXQ16B-50ZN	142
MXQ16B-75ZN	176
MXQ16B-100ZN	249
MXQ16B-125ZN	274
MXQ16B-150ZN	299

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-
retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)□

C(L)□U

CKQ

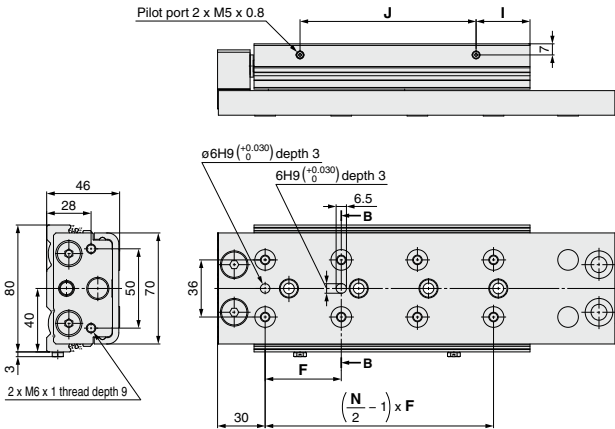
CK2ZN

WRF

INDEX

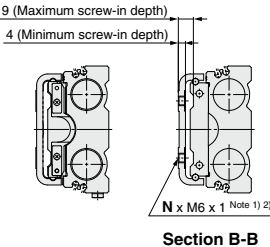
Dimensions: MXQ **20B** [Standard]

MXQ **20B-□Z** Standard type

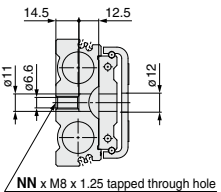
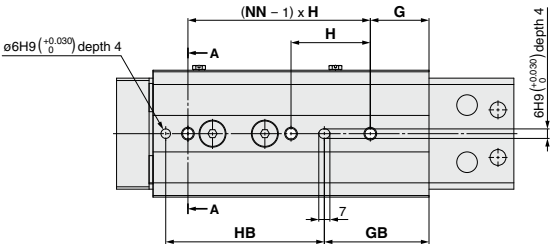
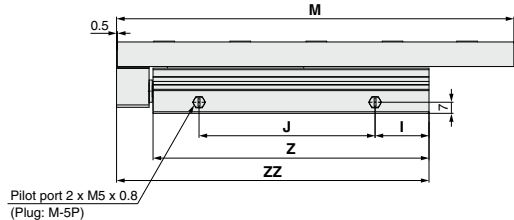
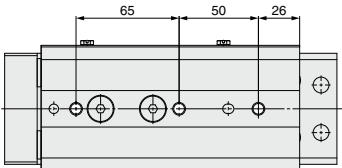


Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



Bottom view of MXQ20B-75Z



Section A-A

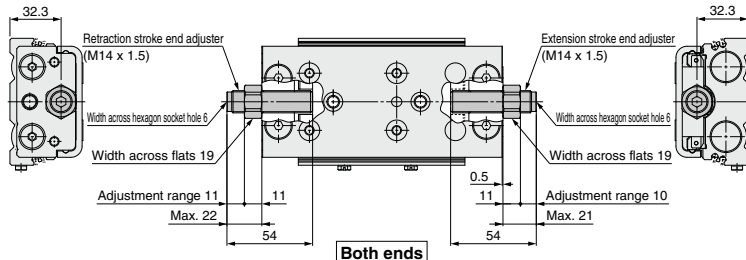
Dimensions

Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ20B-10Z	55	18	7	55	80	30	36	131.5	4	2	95	118
MXQ20B-20Z	46	18	7	55	80	30	36	141.5	4	2	95	118
MXQ20B-30Z	55	28	17	55	80	34	42	151.5	4	2	105	128
MXQ20B-40Z	65	28	17	65	90	34	52	161.5	4	2	115	138
MXQ20B-50Z	75	36	20	80	110	47	62	184.5	4	2	138	161
MXQ20B-75Z	60	—	45	—	110	48	86	209.5	6	3	163	186
MXQ20B-100Z	48	20	46	44	120	34	111	250.5	8	4	174	197
MXQ20B-125Z	60	18	60	66	170	73	136	314.5	8	4	238	261
MXQ20B-150Z	65	43	85	66	170	73	161	339.5	8	4	263	286

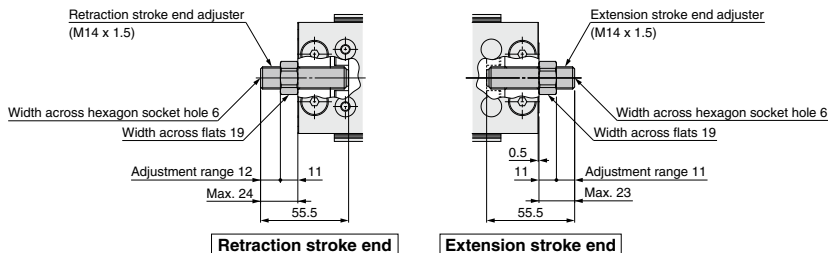
Dimensions: MXQ **20B** [Adjuster Option]

MXQ 20B-□□ With adjuster option (ø20)

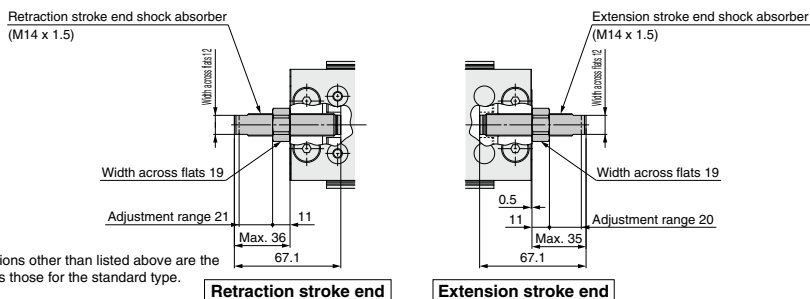
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)

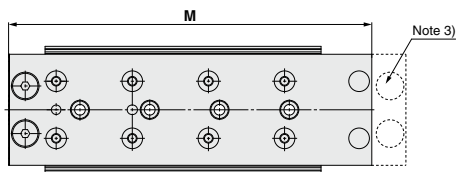


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 20B-□ZN Shorter total length type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward.
(Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)	
Model	M
MXQ20B-10ZN	110
MXQ20B-20ZN	120
MXQ20B-30ZN	130
MXQ20B-40ZN	140
MXQ20B-50ZN	163
MXQ20B-75ZN	188
MXQ20B-100ZN	229
MXQ20B-125ZN	293
MXQ20B-150ZN	318

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)□

C(L)KU

CKQ

CK2ZN

WRF

INDEX

Air Slide Table Single Side Ported Type Series **MXQ□C** ø8, ø12

RoHS

How to Order

MXQ 12 C - 30 ZA - M9BW

• **Bore size**
8
12

• **Body option**
Standard type C
Symmetric type CL

• **Standard stroke (mm)**
10, 20, 30, 40, 50, 75
10, 20, 30, 40, 50, 75, 100

• **Auto switch**
Nil
Without auto switch

• **Functional option**
Symbol Nil
1 Without functional option
2 With buffer
3 With end lock
4 With buffer, end lock
5 With buffer, axial piping

* For applicable auto switches, refer to the table below.

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

• **Made to Order**
Refer to page 919 for details.

Adjuster option/Functional option combinations

Symbol	Adjuster type	Adjuster mounting position (Note 1)		Functional option combination					
		Extension stroke end	Retraction stroke end	Nil	1	2	3	4	5
				Without functional option	Buffer (Note 2) 3)	End lock (Note 4)	Axial piping	Buffer and end lock (Note 2) 4)	Buffer and axial piping (Note 5)
Z	Without adjuster			○	○	○	○	○	○
ZA	Metal stopper with bumper (Not available for ø6)	●	●	○	×	×	○	×	×
ZB		●		○	×	○	○	×	×
ZC			●	○	×	×	○	×	×
ZD		●	●	○	×	×	○	×	×
ZE	Rubber stopper	●		○	○	○	○	○	○
ZF			●	○	×	×	○	×	×
ZG		●	●	○	×	×	○	×	×
ZH	Shock absorber (RJ)	●		○	×	○	○	×	×
ZJ			●	○	×	×	○	×	×
ZN		Note 5) Without adjuster		●	○	×	×	○	×
ZP	Shorter overall length type		●	○	×	×	○	×	×
ZQ			●	○	×	×	○	×	×
ZS			●	○	×	×	○	×	×

Note 1) ● Shipped together with the product, but not assembled. Without any symbols for the adjuster mounting position, the adjuster can be mounted afterward.

Note 2) For buffer mechanism, buffer stroke will be shorter for the stroke that is adjusted by the extension stroke end adjuster.

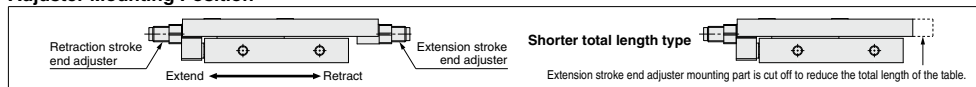
Note 3) When retraction stroke end adjuster with buffer mechanism is needed, use the centralized adjuster specification (-X27). End lock or axial piping option cannot be mounted to the centralized adjuster specification model.

Note 4) Extension stroke end adjuster with end lock mechanism is available as long adjustment nut and bolt specification (-X28). The adjustment nut cannot be tightened with the standard adjuster.

Note 5) Extension stroke end adjuster mounting holes are removed to reduce the total length.

Note 6) Shorter total length type can be used, but the retraction stroke end adjuster cannot be mounted afterward.

Adjuster Mounting Position



Applicable Auto Switches/Refer to the WEB catalog or Best Pneumatics No.3 for further information on 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 auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC	Relay, PLC
				3-wire (PNP)				M9PV	M9P	●	●	●	○	○		
				2-wire				M9BV	M9B	●	●	●	○	○		
				3-wire (NPN)				M9NVW	M9NW	●	●	●	○	○		
	Diagnostic indication (2-color indication)			3-wire (PNP)	M9PWV	M9PW	●	●	●	○	○	IC				
				2-wire	M9BWW	M9BW	●	●	●	○	○					
				3-wire (NPN)	M9NAV***	M9NA***	○	○	●	○	○		IC			
				3-wire (PNP)	M9PAV***	M9PA***	○	○	●	○	○					
	Water resistant (2-color indication)	2-wire	M9BAV***	M9BA***	○	○	●	○	○	—						

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

Please contact 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) M9NWWZ

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

* Since there are other applicable auto switches than listed, refer to page 959 for details.

* For details about auto switches with pre-wired connector, refer to pages the WEB catalog or Best Pneumatics No.3.

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



Specifications

Bore size (mm)	8	12
Piping port size	M5 x 0.8	
Fluid	Air	
Action	Double acting	
Operating pressure	0.15 to 0.7 MPa Note (End lock: 0.35 to 0.7 MPa)	
Proof pressure	1.05 MPa	
Ambient and fluid temperature	-10 to 60°C	
Operating speed range (Average operating speed)	50 to 500 mm/s (Metal stopper with bumper: 50 to 300 mm/s)	
Cushion (Without stroke adjuster)	Internal rubber bumper	
Cushion (With stroke adjuster)	Metal stopper with bumper, Rubber stopper, Shock absorber	
Lubrication	Non-lube	
Auto switch	Solid state auto switch (2-wire, 3-wire)	
	2-color indication solid state auto switch (2-wire, 3-wire)	
Stroke length tolerance	+2 to 0 mm	

Note) Refer to page 920 for the minimum operating pressure for metal stopper with bumper.
If the operating pressure is lower than the minimum operating pressure, repeated accuracy becomes worse.
Minimum operating pressure of metal stopper with bumper: Pressure required to fully compress the protrusion of the bumper to get in contact with the metal part.

Standard Stroke

Model	Standard stroke (mm)
MXQ8C	10, 20, 30, 40, 50, 75
MXQ12C	10, 20, 30, 40, 50, 75, 100



Made to Order
(For details, refer to pages 960 to 964.)

Symbol	Specifications
-X7	PTFE grease
-X9	Grease for food processing equipment
-X11	Long adjustment bolt (Longer adjustment range by 10 mm)
-X12	Long adjustment bolt (Longer adjustment range by 20 mm)
-X27	Centralized adjuster
-X28	Long adjustment nut and bolt
-X33	Without built-in auto switch magnet
-X39	Fluororubber seal
-X42	Anti-corrosive guide unit
-X45	EPDM seal

Theoretical Output

The dual rod ensures an output twice that of existing cylinders. (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	OUT	101	20	30	40	51	61	71
		IN	75	15	23	30	38	45	53
12	6	OUT	226	45	68	90	113	136	158
		IN	170	34	51	68	85	102	119

Weight

Model	Standard stroke (mm)									Reduction of the extension stroke end adjuster non-mounting type	Additional weight of adjuster option		Extra for option		
	10	20	30	40	50	75	100	125	150		Extension stroke end	Retraction stroke end	End lock	Buffer	Axial piping
MXQ8C	140	150	170	200	260	280	—	—	—	-6	10	8	60	30	No addition
MXQ12C	280	290	320	370	400	550	620	—	—	-12	20	16	80	70	

Maximum Load Weight

Model	Adjuster option				
	Without adjuster	Internal rubber bumper	Rubber stopper	Metal stopper with bumper	Shock absorber (RJ)
MXQ8C	1	1	1	1	1
MXQ12C	2	2	2	1.5	1

Allowable Kinetic Energy

Model	Adjuster option			
	Without adjuster	Internal rubber bumper	Rubber stopper	Metal stopper with bumper
MXQ8C	0.033	0.053	0.016	0.17
MXQ12C	0.09	0.11	0.034	0.24

Optional Specifications

With End Lock

Model	MXQ8C	MXQ12C
Operating pressure range (MPa)	0.35 to 0.7	
Holding force (N)	12	23

With Buffer Mechanism

Model		MXQ8C	MXQ12C
Operating speed range (mm/s)		50 to 500 (Horizontal mounting 50 to 300)	
Buffer stroke (mm)		5	10
Buffer stroke load (N)	Stroke at 0 (mm)	5	9
	Maximum stroke	8	15

Applicable Auto Switch to Buffer

Type	Model	Specifications	Electrical entry direction
Solid state auto switch	D-M9BV	With light, 2-wire	Vertical
	D-M9NV	With light, 3-wire, Output: NPN	
	D-M9PV	With light, 3-wire, Output: PNP	

Adjusters

Metal Stopper with Bumper

Applicable slide table	MXQ8C	MXQ12C
Model (Metal stopper with bumper only)	MXQA-A887	MXQA-A1287
Max. absorbed energy (J)	0.018	0.04
Stroke absorption (mm)	2	2.8
Full compression force of bumper (N)	20	42
Min. operating pressure of metal stopper with bumper* (MPa)	0.3	0.3
Weight (g)	7	14
Mounting screw size (mm)	M6 x 0.75	M8 x 1

* Pressure required to fully compress the protrusion of the bumper when mounted horizontally to get in contact with the metal part. Consider the additional weight of the load when mounted in the vertical direction.

Rubber Stopper

Applicable slide table	MXQ8C	MXQ12C
Model (Rubber stopper only)	MXQA-A827	MXQA-A1227
Max. absorbed energy (J)	0.06	0.12
Weight (g)	7	14
Mounting screw size (mm)	M6 x 0.75	M8 x 1

Shock Absorber (RJ)

Applicable slide table	MXQ8C	MXQ12C
Model (Shock absorber only)	RJ0603N	RJ0805N
Max. absorbed energy (J)	0.35	0.5
Stroke absorption (mm)	3	5
Collision speed (mm/s)	50 to 500	50 to 500
Max. operating frequency (cycle/min)	80	80
Max. allowable thrust (N)	150	245
Spring force (Extended) (N)	1.3	2.8
Spring force (Compressed) (N)	3.9	4.9
Weight (g)	5.5	15
Mounting screw size (mm)	M6 x 0.75	M8 x 1

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)□

C(L)KU

CKQ

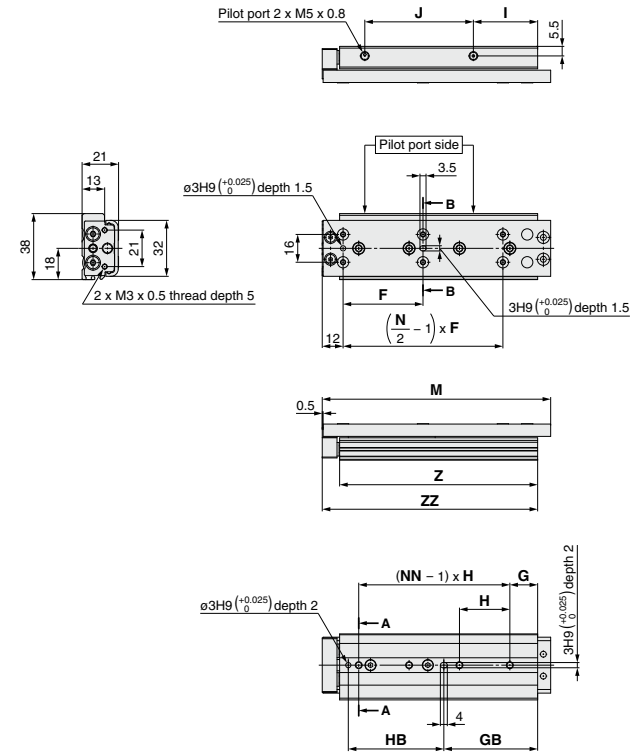
CKZ2N

WRF

INDEX

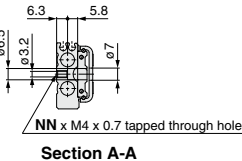
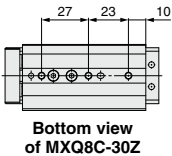
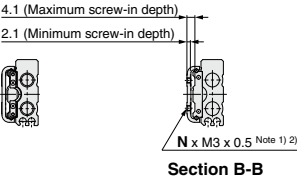
Dimensions: MXQ **8C** [Standard]

MXQ **8C-□Z** Standard type

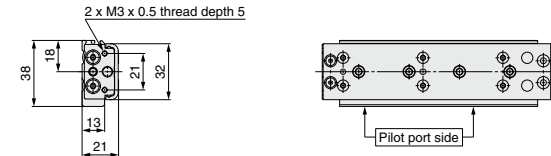


Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



MXQ **8CL-□Z** Symmetric type



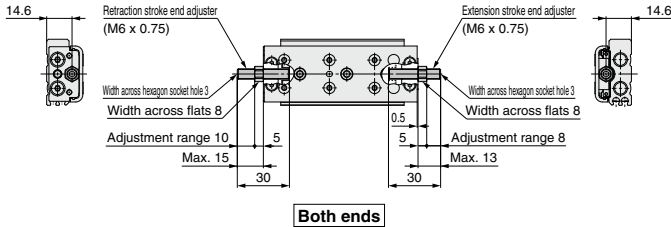
* Dimensions other than listed above are the same as those for the standard type.

Dimensions												(mm)
Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ8C-10Z	25	15	9	25	37	10	26.5	68.5	4	2	51	61
MXQ8C-20Z	25	22	16	28	40	14	32.5	78.5	4	2	61	71
MXQ8C-30Z	26	—	26	—	40	14.5	42	88.5	6	3	71	81
MXQ8C-40Z	32	14	27	31	55	20	52.5	104.5	6	3	87	97
MXQ8C-50Z	46	16	54	29	55	37	62.5	131.5	6	4	114	124
MXQ8C-75Z	50	15	56	30	55	10	91.5	156.5	6	4	116	126

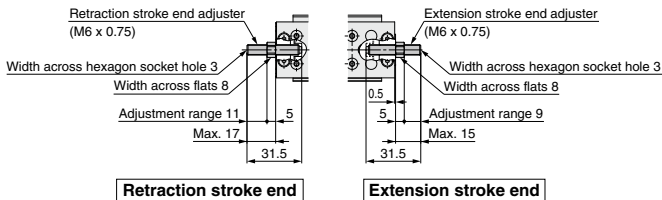
Dimensions: MXQ **8C** [Adjuster Option]

MXQ **8C**-□□ With adjuster option (ø8)

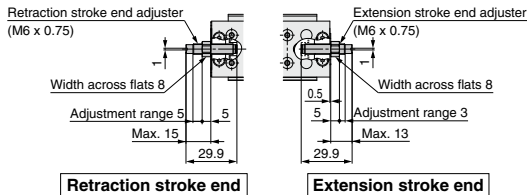
Metal stopper with bumper **[ZA]**: Both ends, **[ZB]**: Extension stroke end, **[ZC]**: Retraction stroke end, **[ZS]**: Retraction stroke end (Shorter total length type)



Rubber stopper **[ZD]**: Both ends, **[ZE]**: Extension stroke end, **[ZF]**: Retraction stroke end, **[ZP]**: Retraction stroke end (Shorter total length type)

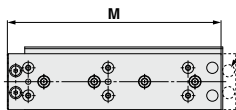


Shock absorber (RJ) **[ZG]**: Both ends, **[ZH]**: Extension stroke end, **[ZJ]**: Retraction stroke end, **[ZQ]**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ **8C**-□**ZN** Shorter total length type



Note 3)

Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward. (Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)

Model	M
MXQ8C-10ZN	60
MXQ8C-20ZN	70
MXQ8C-30ZN	80
MXQ8C-40ZN	96
MXQ8C-50ZN	123
MXQ8C-75ZN	148

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-
retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)□

C(L)XU

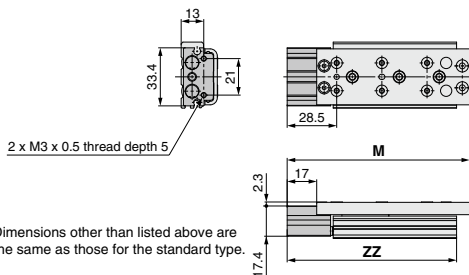
CKQ

CK2ZN

WRF

Dimensions: MXQ **8C** [Functional Option]

MXQ 8C-□□1 With buffer (ø8)

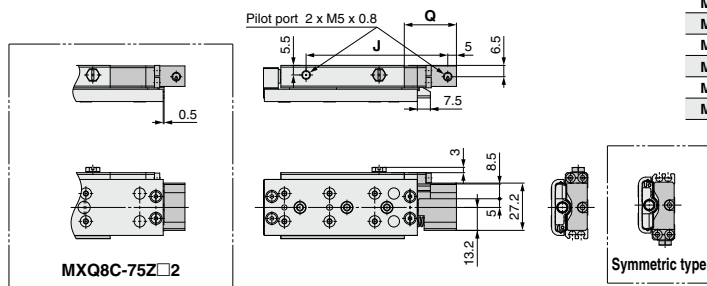


* Dimensions other than listed above are the same as those for the standard type

Dimensions (mm)

Model	Standard type	Shorter total length type	ZZ
	M	M	
MXQ8C-10Z□1	85	76.5	77.5
MXQ8C-20Z□1	95	86.5	87.5
MXQ8C-30Z□1	105	96.5	97.5
MXQ8C-40Z□1	121	112.5	113.5
MXQ8C-50Z□1	148	139.5	140.5
MXQ8C-75Z□1	173	164.5	142.5

MXQ 8C-□□2 With end lock (ø8)

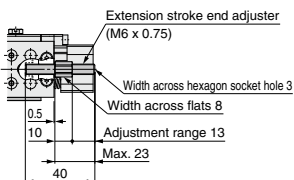


* Dimensions other than listed above are the same as those for the standard type.

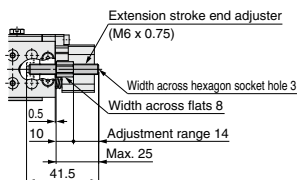
MXQ 8C-□□2 With end lock, extension stroke end adjuster (ø8)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together.
The stroke adjustment range is different from the adjuster of the standard product.
Retraction stroke end adjuster cannot be mounted to the end lock.

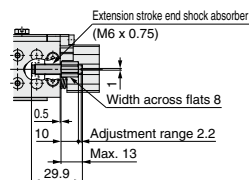
Metal stopper with bumper: ZB



Rubber stopper: **ZE**



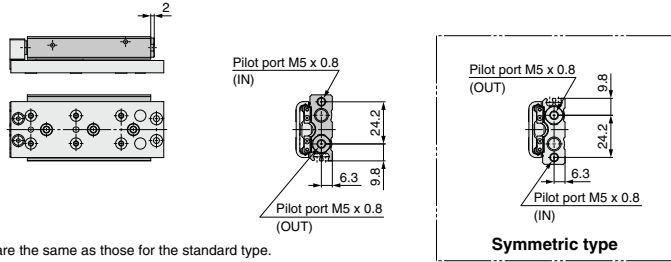
Shock absorber (RJ): ZH



* Dimensions other than listed above are the same as those for the standard type.

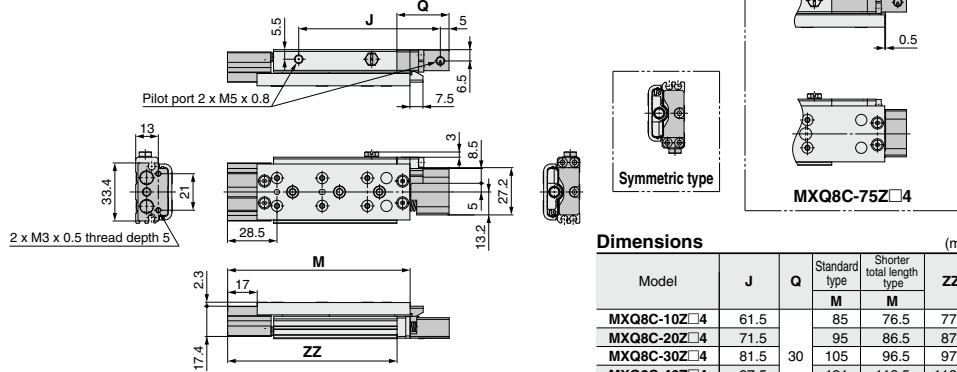
Dimensions: MXQ **8C** [Functional Option]

MXQ **8C**-□□**3** Axial piping (ø8)



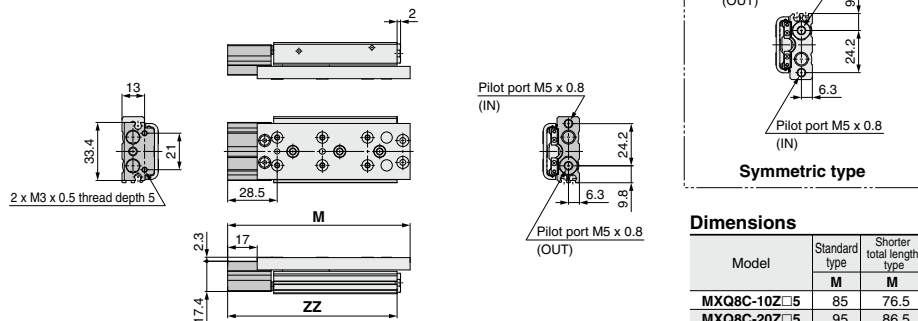
* Dimensions other than listed above are the same as those for the standard type.

MXQ **8C**-□□**4** With buffer, end lock (ø8)



* Dimensions other than listed above are the same as those for the standard type.

MXQ **8C**-□□**5** With buffer, axial piping (ø8)



* Dimensions other than listed above are the same as those for the standard type.

Dimensions

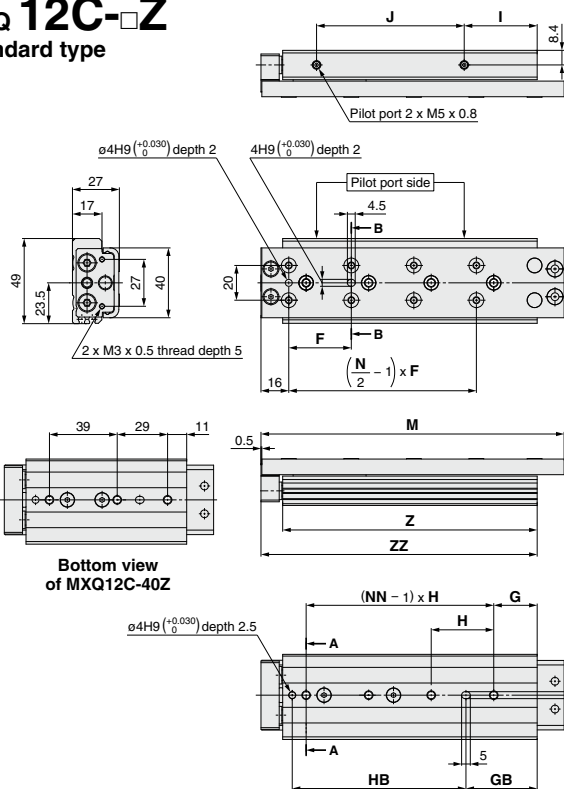
Model	J	Q	Standard type M	Shorter total length type M	ZZ
MXQ8C-10Z□4	61.5		85	76.5	77.5
MXQ8C-20Z□4	71.5		95	86.5	87.5
MXQ8C-30Z□4	81.5	30	105	96.5	97.5
MXQ8C-40Z□4	97.5		121	112.5	113.5
MXQ8C-50Z□4	124.5		148	139.5	140.5
MXQ8C-75Z□4	139.5	43	173	164.5	142.5

Dimensions

Model	Standard type M	Shorter total length type M	ZZ
MXQ8C-10Z□5	85	76.5	77.5
MXQ8C-20Z□5	95	86.5	87.5
MXQ8C-30Z□5	105	96.5	97.5
MXQ8C-40Z□5	121	112.5	113.5
MXQ8C-50Z□5	148	139.5	140.5
MXQ8C-75Z□5	173	164.5	142.5

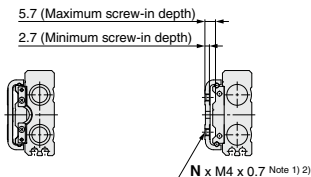
Dimensions: MXQ **12C** [Standard]

MXQ 12C-□Z
Standard type



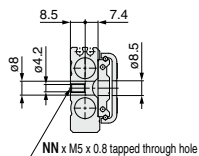
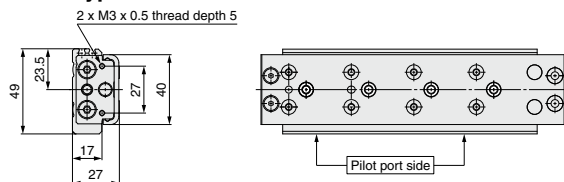
Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



Section B-B

MXQ 12CL-□Z
Symmetric type



Section A-A

* Dimensions other than listed above are the same as those for the standard type.

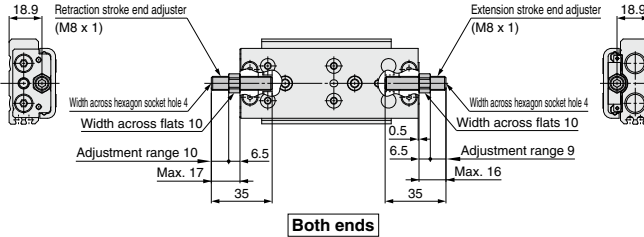
Dimensions

Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ12C-10Z	28	17	11	32	46	11	32	82.5	4	2	62.5	75
MXQ12C-20Z	28	19	11	32	48	13	32	92.5	4	2	64.5	77
MXQ12C-30Z	38	21	11	40	58	15	40	102.5	4	2	74.5	87
MXQ12C-40Z	34	—	27	—	60	23	50	120.5	6	3	92.5	105
MXQ12C-50Z	34	11	37	39	60	23	60	130.5	6	3	102.5	115
MXQ12C-75Z	36	25	41	36	100	42	85	174.5	8	4	146.5	159
MXQ12C-100Z	36	14	66	36	100	42	110	199.5	10	5	171.5	184

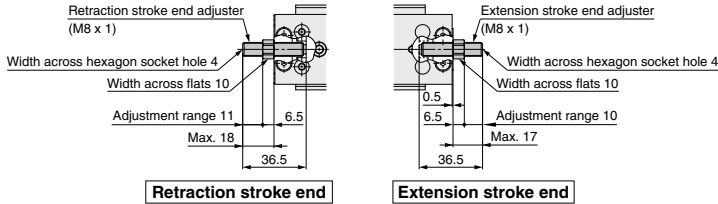
Dimensions: MXQ **12C** [Adjuster Option]

MXQ 12C-□ With adjuster option (ø12)

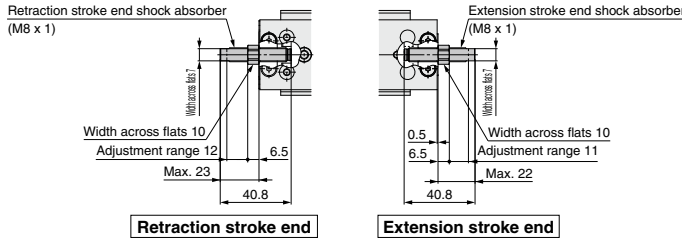
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)

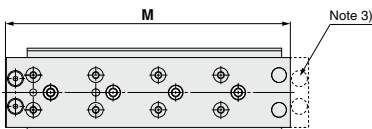


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 12C-□ZN Shorter total length type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward.
(Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)	
Model	M
MXQ12C-10ZN	72
MXQ12C-20ZN	82
MXQ12C-30ZN	92
MXQ12C-40ZN	110
MXQ12C-50ZN	120
MXQ12C-75ZN	164
MXQ12C-100ZN	189

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-
retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)K□

C(L)KU

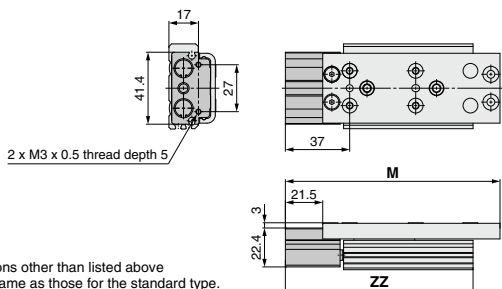
CKQ

CK2ZN

WRF

Dimensions: MXQ **12C** [Functional Option]

MXQ 12C-□□1 With buffer (ø12)

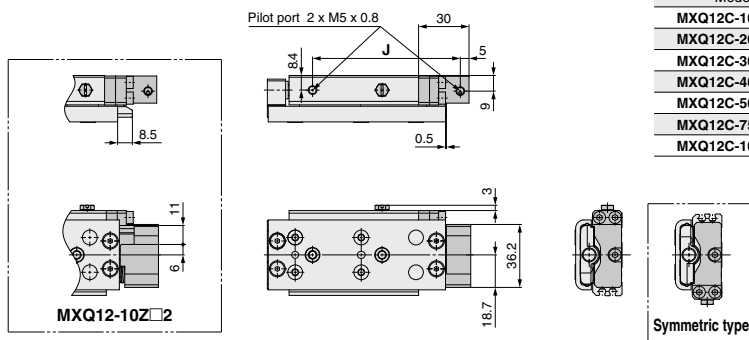


* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)

Model	Standard type	Shorter total length type	ZZ
	M	M	
MXQ12C-10Z□1	103.5	93	96
MXQ12C-20Z□1	113.5	103	98
MXQ12C-30Z□1	123.5	113	108
MXQ12C-40Z□1	141.5	131	126
MXQ12C-50Z□1	151.5	141	136
MXQ12C-75Z□1	195.5	185	180
MXQ12C-100Z□1	220.5	210	205

MXQ 12C-□□2 With end lock (ø12)

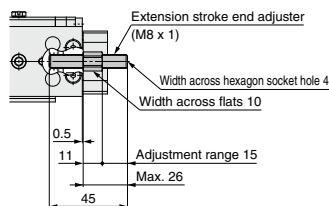
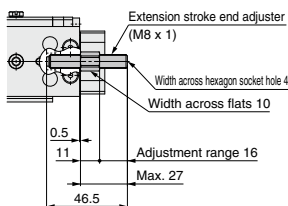


* Dimensions other than listed above are the same as those for the standard type.

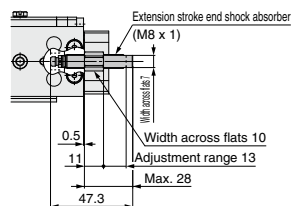
MXQ 12C-□□2 With end lock, extension stroke end adjuster (ø12)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together.
The stroke adjustment range is different from the adjuster of the standard product.
Retraction stroke end adjuster cannot be mounted to the end lock.

Metal stopper with bumper: ZB

Rubber stopper: **ZE**

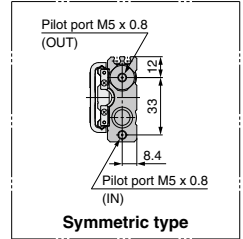
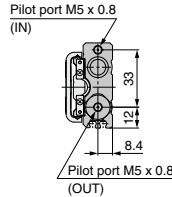
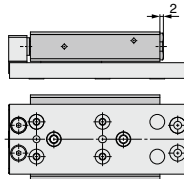
Shock absorber (RJ): ZH



* Dimensions other than listed above are the same as those for the standard type.

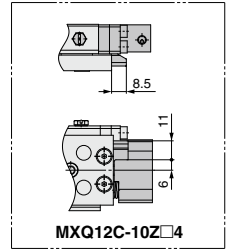
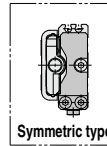
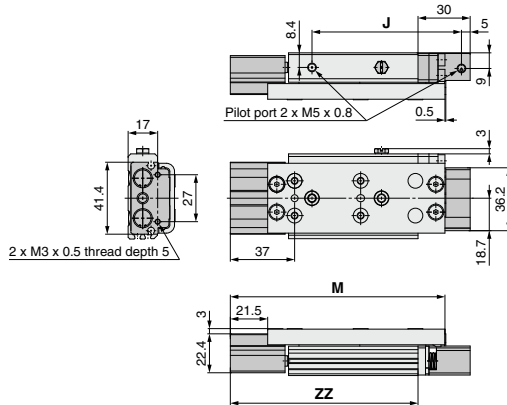
Dimensions: MXQ **12C** [Adjuster Option]

MXQ 12C-□□3 Axial piping (ø12)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 12C-□□4 With buffer, end lock (ø12)

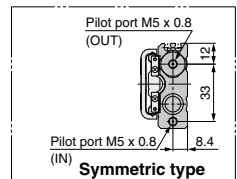
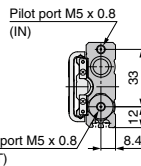
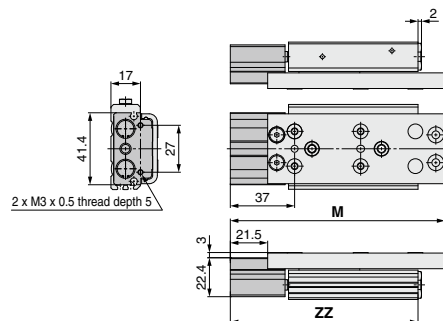


Dimensions (mm)

Model	J	Standard type	Shorter total length type	ZZ
		M	M	
MXQ12C-10Z□4	68	103.5	93	96
MXQ12C-20Z□4	70	113.5	103	98
MXQ12C-30Z□4	80	123.5	113	108
MXQ12C-40Z□4	98	141.5	131	126
MXQ12C-50Z□4	108	151.5	141	136
MXQ12C-75Z□4	152	195.5	185	180
MXQ12C-100Z□4	177	220.5	210	205

* Dimensions other than listed above are the same as those for the standard type.

MXQ 12C-□□5 With buffer, axial piping (ø12)



Dimensions (mm)

Model	Standard type	Shorter total length type	ZZ
		M	
MXQ12C-10Z□5	103.5	93	96
MXQ12C-20Z□5	113.5	103	98
MXQ12C-30Z□5	123.5	113	108
MXQ12C-40Z□5	141.5	131	126
MXQ12C-50Z□5	151.5	141	136
MXQ12C-75Z□5	195.5	185	180
MXQ12C-100Z□5	220.5	210	205

* Dimensions other than listed above are the same as those for the standard type.

Air Slide Table Height Interchangeable Type Series **MXQ** ø6, ø8, ø12, ø16, ø20, ø25

RoHS

How to Order

MXQ 12 - **30 ZA** - **M9BW** -

Bore size	Body option		Standard stroke (mm)
	Standard type	Symmetric type	
	Nil	L	
6			10, 20, 30, 40, 50
8			10, 20, 30, 40, 50, 75
12			10, 20, 30, 40, 50, 75, 100
16			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

Note) No setting, as the standard model has the piping ports and auto switch mounting grooves on both sides.

• **Made to Order**
Refer to page 931 for details.

Auto switch

Nil	Without auto switch
-----	---------------------

* For applicable auto switches, refer to the table below.

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Functional option

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

Adjuster option/Functional option combinations

Symbol	Adjuster type	Adjuster mounting position Note 1)	Functional option combination				
			Nil	1	2	3	4
Z	Without adjuster	Extension stroke end	Without functional option	Buffer Note 2) 3)	End lock Note 4)	Axial piping	Buffer and end lock Note 2) 4)
ZA	Metal stopper with bumper (Not available for ø6)	Retraction stroke end	○	○	○	○	○
ZB			○	×	×	○	×
ZC			○	×	×	○	×
ZD	Rubber stopper		○	×	×	○	×
ZE			○	○	○	○	○
ZF			○	×	×	○	×
ZG	Shock absorber (RJ)		○	×	×	○	×
ZH			○	×	×	○	×
ZJ			○	×	×	○	×
ZN	Note 5) Without adjuster		○	○ Note 6)	×	○	○ Note 6)
ZP	Shorter total length type		○	×	×	○	×
ZQ	Shock absorber (RJ)		○	×	×	○	×
ZS	Metal stopper with bumper		○	×	×	○	×

Note 1) ●: Shipped together with the product, but not assembled. Without any symbols for the adjuster mounting position, the adjuster can be mounted afterward.

Note 2) For buffer mechanism, buffer stroke will be shorter for the stroke that is adjusted by the extension stroke end adjuster.

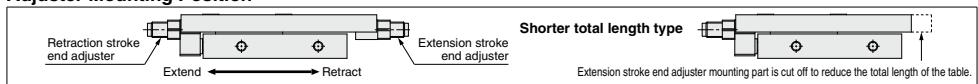
Note 3) When retraction stroke end adjuster with buffer mechanism is needed, use the centralized adjuster specification (-X27). End lock or axial piping option cannot be mounted to the centralized adjuster specification model.

Note 4) Extension stroke end adjuster with end lock mechanism is available as long adjustment nut and bolt specification (-X28). The adjustment nut cannot be tightened with the standard adjuster.

Note 5) Extension stroke end adjuster mounting holes are removed to reduce the total length.

Note 6) Shorter total length type can be used, but the retraction stroke end adjuster cannot be mounted afterward.

Adjuster Mounting Position



Applicable Auto Switches/Refer to the WEB catalog or Best Pneumatics No.3 for further information on 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 auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○	IC	Relay, PLC
				3-wire (PNP)		12 V		M9PV	M9P	●	●	○	○		
				2-wire		12 V		M9BV	M9B	●	●	○	○		
				3-wire (NPN)		5 V, 12 V		M9NVV	M9NW	●	●	○	○		
	Diagnostic indication (2-color indication)			3-wire (PNP)	12 V	M9PVV	M9PW	●	●	○	○	IC			
				2-wire	12 V	M9BWW	M9BW	●	●	○	○		—		
	Water resistant (2-color indication)			3-wire (NPN)	5 V, 12 V	M9NAV***	M9NA***	○	○	●	○	IC			
				3-wire (PNP)	12 V	M9PAV***	M9PA***	○	○	●	○		—		
				2-wire	12 V	M9BAV***	M9BA***	○	○	●	○				

*** Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact SMC regarding water resistant types with the above model numbers.

* Lead wire length symbols: 0.5 m Nil (Example) M9NW * Solid state auto switches marked with "○" are produced upon receipt of order.

1 m M (Example) M9NWM * Since there are other applicable auto switches than listed, refer to page 959 for details.

3 m L (Example) M9NWL * For details about auto switches with pre-wired connector, refer to the WEB catalog or Best Pneumatics No.3.

5 m Z (Example) M9NWZ * Auto switches are shipped together, (but not assembled).



Specifications

Bore size (mm)	6	8	12	16	20	25
Piping port size	M5 x 0.8					
Fluid	Air					
Action	Double acting					
Operating pressure	0.15 to 0.7 MPa ^(Note) (End lock: 0.35 to 0.7 MPa)					
Proof pressure	1.05 MPa					
Ambient and fluid temperature	-10 to 60°C					
Operating speed range (Average operating speed)	50 to 500 mm/s (Metal stopper with bumper: 50 to 300 mm/s) * in the standard stroke table: 50 to 300 mm/s					
Cushion (Without stroke adjuster)	Internal rubber bumper					
Cushion (With stroke adjuster)	Metal stopper with bumper, Rubber stopper, Shock absorber					
Lubrication	Non-lube					
Auto switch	Solid state auto switch (2-wire, 3-wire) 2-color indication solid state auto switch (2-wire, 3-wire)					
Stroke length tolerance	+2 to 0 mm					

(Note) Refer to page 932 for the minimum operating pressure for metal stopper with bumper. If the operating pressure is lower than the minimum operating pressure, repeated accuracy becomes worse.
Minimum operating pressure of metal stopper with bumper: Pressure required to fully compress the protrusion of the bumper to get in contact with the metal part.
Operating pressure for the bore size 20 cylinder with shock absorber is 0.15 to 0.6 MPa.

Standard Stroke

Model	Standard stroke (mm)
MXQ6	10, 20, 30, 40, 50
MXQ8	10, 20, 30, 40, 50, 75
MXQ12	10, 20, 30, 40, 50, 75, 100
MXQ16	10, 20, 30, 40, 50, 75, 100, 125
MXQ20	10, 20, 30, 40, 50, 75, 100, 125, 150
MXQ25	10, 20, 30, 40, 50, 75, 100, 125, 150*

(Note) * Operating speed range is 50 to 300 mm/s. (Without stroke adjuster)

Theoretical Output

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



Made to Order

(For details, refer to pages 960 to 964.)

Symbol	Specifications
-X7	PTFE grease
-X9	Grease for food processing equipment
-X11	Long adjustment bolt (Longer adjustment range by 10 mm)
-X12	Long adjustment bolt (Longer adjustment range by 20 mm)
-X27	Centralized adjuster
-X28	Long adjustment nut and bolt
-X33	Without built-in auto switch magnet
-X39	Fluororubber seal
-X42	Anti-corrosive guide unit
-X45	EPDM seal

Weight

Model	Standard stroke (mm)										Reduction of the shorter total length type	Additional weight of adjuster option		Extra for option		
	10	20	30	40	50	75	100	125	150			Extension stroke end	Retraction stroke end	End lock	Buffer	Axial piping
MXQ6	120	120	160	180	190	—	—	—	—	—	-6	10	8	40	30	No addition
MXQ8	150	180	190	230	310	350	—	—	—	—	-6	10	8	60	30	
MXQ12	290	310	340	400	430	590	670	—	—	—	-12	20	16	80	70	
MXQ16	500	520	570	650	690	840	1,100	1,200	—	—	-21	40	30	150	120	
MXQ20	870	870	900	990	1,100	1,300	1,700	2,000	2,100	-33	70	50(80)		400	190	
MXQ25	1,400	1,400	1,500	1,600	1,900	2,100	2,300	3,000	3,300	-60	110	80		700	310	

(Note) Value in the () is the additional weight for the shock absorber.

Maximum Load Weight

Model	Without adjuster Internal rubber bumper	Adjuster option			
		Rubber stopper	Metal stopper with bumper	Shock absorber (RJ)	
MXQ6	0.6	0.6	—	0.6	
MXQ8	1	1	1	1	
MXQ12	2	2	2	1.5	1
MXQ16	4	4	4	4	2.5
MXQ20	6	6	6	6	
MXQ25	9	9	9	9	6

Allowable Kinetic Energy

Model	Without adjuster Internal rubber bumper	Rubber stopper	Adjuster option	
			Metal stopper with bumper	Shock absorber (RJ)
MXQ6	0.026	0.051	—	0.14
MXQ8	0.033	0.053	0.016	0.17
MXQ12	0.09	0.11	0.034	0.24
MXQ16	0.1	0.18	0.07	0.6
MXQ20	0.2	0.34	0.10	1.2
MXQ25	0.32	0.51	0.15	1.3

Optional Specifications

With End Lock

Model	MXQ6	MXQ8	MXQ12	MXQ16	MXQ20	MXQ25
Operating pressure range (MPa)	0.35 to 0.7					
Holding force (N)	12	12	23	45	70	110

With Buffer Mechanism

Model		MXQ6	MXQ8	MXQ12	MXQ16	MXQ20	MXQ25
Operating speed range (mm/s)		50 to 500 (Horizontal mounting 50 to 300)					
Buffer stroke (mm)		5		10			
Buffer stroke load (N)	Stroke at 0 (mm)	3	5	9	16	25	40
	Maximum stroke	6	8	15	24	38	59

Applicable Auto Switch to Buffer

Type	Model	Specifications	Electrical entry direction
Solid state auto switch	D-M9BV	With light, 2-wire	Vertical
	D-M9NV	With light, 3-wire, Output: NPN	
	D-M9PV	With light, 3-wire, Output: PNP	

Adjusters

Metal Stopper with Bumper

Applicable slide table	MXQ8	MXQ12	MXQ16	MXQ20	MXQ25
Model (Metal stopper with bumper only)	MXQA-A887	MXQA-A1287	MXQA-A1687	MXQA-A2087	MXQA-A2587
Max. absorbed energy (J)	0.018	0.04	0.08	0.12	0.18
Stroke absorption (mm)	2	2.8	3.6	4.4	5.5
Full compression force of bumper (N)	20	42	65	97	154
Min. operating pressure of metal stopper with bumper* (MPa)	0.3	0.3	0.2	0.2	0.2
Weight (g)	7	14	25	42	65
Mounting screw size (mm)	M6 x 0.75	M8 x 1	M10 x 1	M12 x 1	M14 x 1.5

* Pressure required to fully compress the protrusion of the bumper to get in contact with the metal part.

Rubber Stopper

Applicable slide table	MXQ6	MXQ8	MXQ12	MXQ16	MXQ20	MXQ25
Model (Rubber stopper only)	MXQA-A827		MXQA-A1227	MXQA-A1627	MXQA-A2027	MXQA-A2527
Max. absorbed energy (J)	0.06		0.12	0.2	0.4	0.6
Weight (g)	7		14	25	42	65
Mounting screw size (mm)	M6 x 0.75		M8 x 1	M10 x 1	M12 x 1	M14 x 1.5

Shock Absorber (RJ)

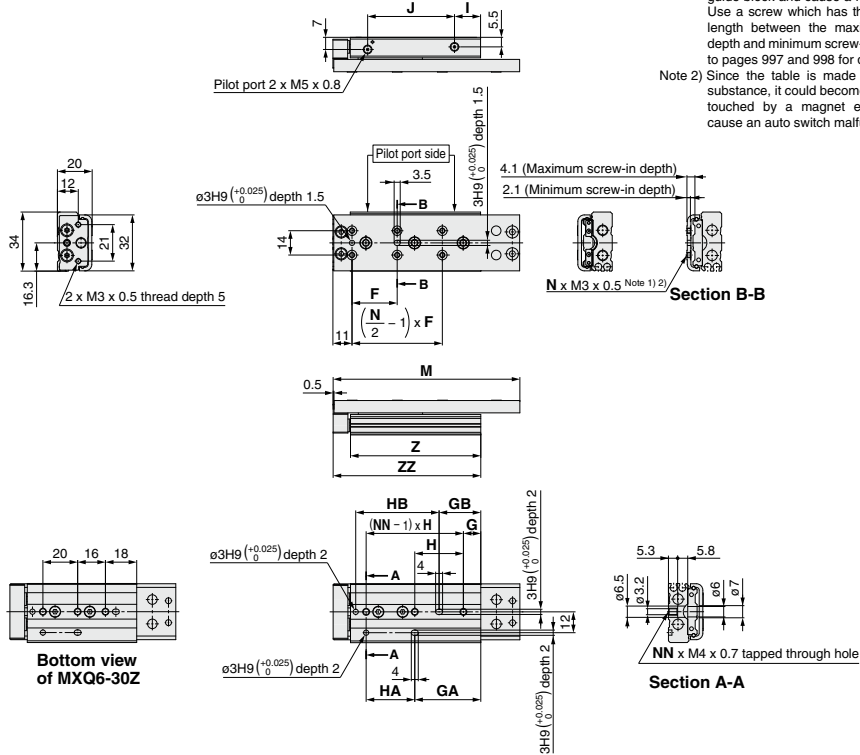
Applicable slide table	MXQ6	MXQ8	MXQ12	MXQ16	MXQ20	MXQ25
Model (Shock absorber only)	RJ0603N		RJ0805N	RJ1006N	RJ1007HN	RJ1410N
Max. absorbed energy (J)	0.35		0.5	1.5	3	3.7
Stroke absorption (mm)	3		5	6	7	10
Collision speed (mm/s)	50 to 500					
Max. operating frequency (cycle/min)	80		80	70		45
Max. allowable thrust (N)	150		245	422		814
Spring force (Extended) (N)	1.3		2.8	5.4		6.4
Spring force (Compressed) (N)	3.9		4.9	8		15
Weight (g)	5.5		15	23		65
Mounting screw size (mm)	M6 x 0.75		M8 x 1	M10 x 1		M14 x 1.5

Dimensions: MXQ **6** [Standard]

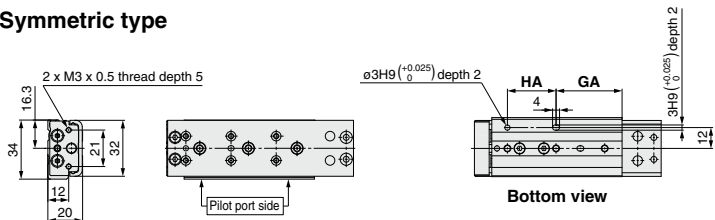
MXQ **6-□Z** Standard type

Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



MXQ **6L-□Z** Symmetric type



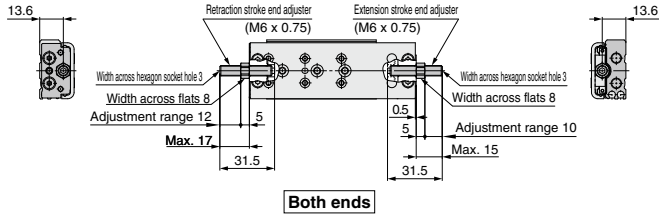
Dimensions

Model	F	G	GA	GB	H	HA	HB	I	J	M	N	NN	Z	ZZ
MXQ6-10Z	22	18	25	9	23	16	38	10	30	64.5	4	2	50	60
MXQ6-20Z	25	15	15	9	26	26	38	10	30	74.5	4	2	50	60
MXQ6-30Z	21	—	34	12	—	20	48	13	40	95.5	6	3	63	73
MXQ6-40Z	26	10	38	24	28	28	48	15	50	107.5	6	3	75	85
MXQ6-50Z	27	20	48	34	28	28	48	15	60	117.5	6	3	85	95

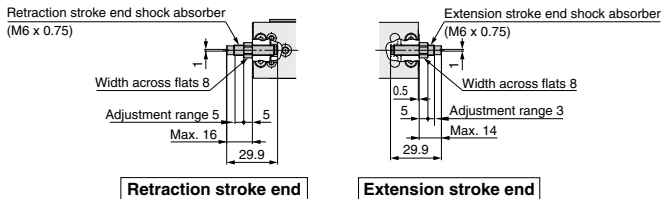
Dimensions: MXQ **6** [Adjuster Option]

MXQ 6-□□ With adjuster option (ø6)

Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)

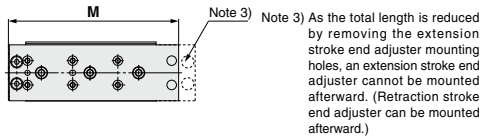


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 6-□**ZN** Height interchangeable type



* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)	
Model	M
MXQ6-10ZN	55
MXQ6-20ZN	65
MXQ6-30ZN	86
MXQ6-40ZN	98
MXQ6-50ZN	108

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)□

C(L)KU

CKQ

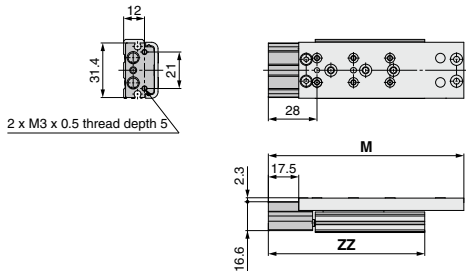
CKZ2N

WRF

INDEX

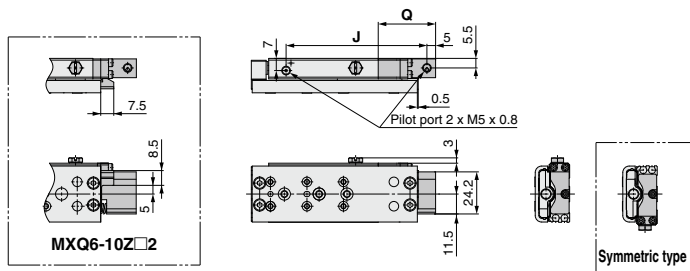
Dimensions: MXQ **6** [Functional Option]

MXQ 6-□□1 With buffer (ø6)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 6-□□2 With end lock (ø6)



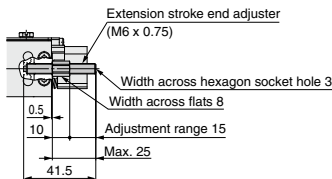
Dimensions (mm)		
Model	J	Q
MXQ6-10Z□2	60	25
MXQ6-20Z□2	81	33
MXQ6-30Z□2	93	
MXQ6-40Z□2	103	

* Dimensions other than listed above are the same as those for the standard type.

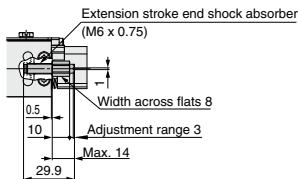
MXQ 6-□□2 With end lock, extension stroke end adjuster (ø6)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together. The stroke adjustment range is different from the adjuster of the standard product. Retraction stroke end adjuster cannot be mounted to the end lock.

Rubber stopper: **ZE**



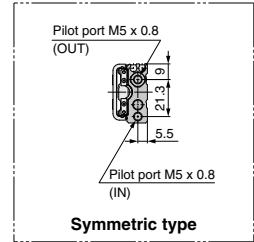
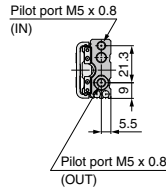
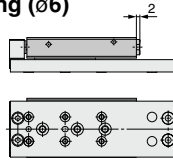
Shock absorber (RJ): **ZH**



* Dimensions other than listed above are the same as those for the standard type.

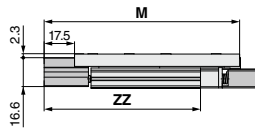
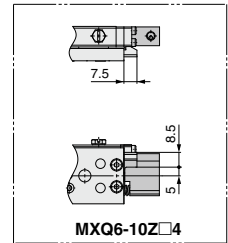
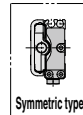
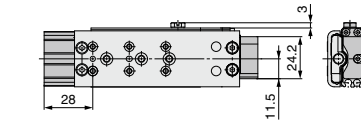
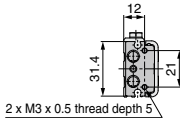
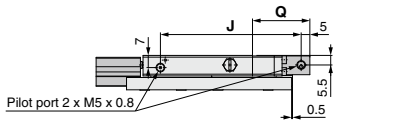
Dimensions: MXQ **6** [Functional Option]

MXQ 6-□□3 Axial piping (ø6)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 6-□□4 With buffer, end lock (ø6)

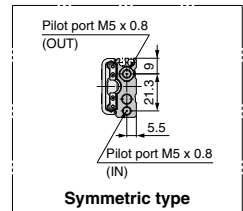
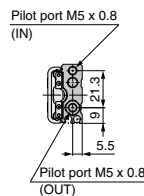
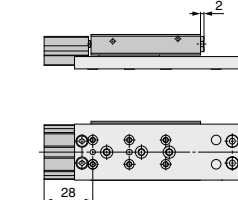
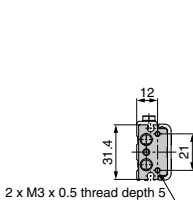


Dimensions

Model	J	Q	Standard type		ZZ
			M	Shorter total length type M	
MXQ6-10Z□4	60	25	81.5	72	77
MXQ6-20Z□4			91.5	82	
MXQ6-30Z□4	81	33	112.5	103	90
MXQ6-40Z□4	93		124.5	115	102
MXQ6-50Z□4	103		134.5	125	112

* Dimensions other than listed above are the same as those for the standard type.

MXQ 6-□□5 With buffer, axial piping (ø6)



Dimensions

Model	Standard type		ZZ
	M	Shorter total length type M	
MXQ6-10Z□5	81.5	72	77
MXQ6-20Z□5	91.5	82	
MXQ6-30Z□5	112.5	103	90
MXQ6-40Z□5	124.5	115	102
MXQ6-50Z□5	134.5	125	112

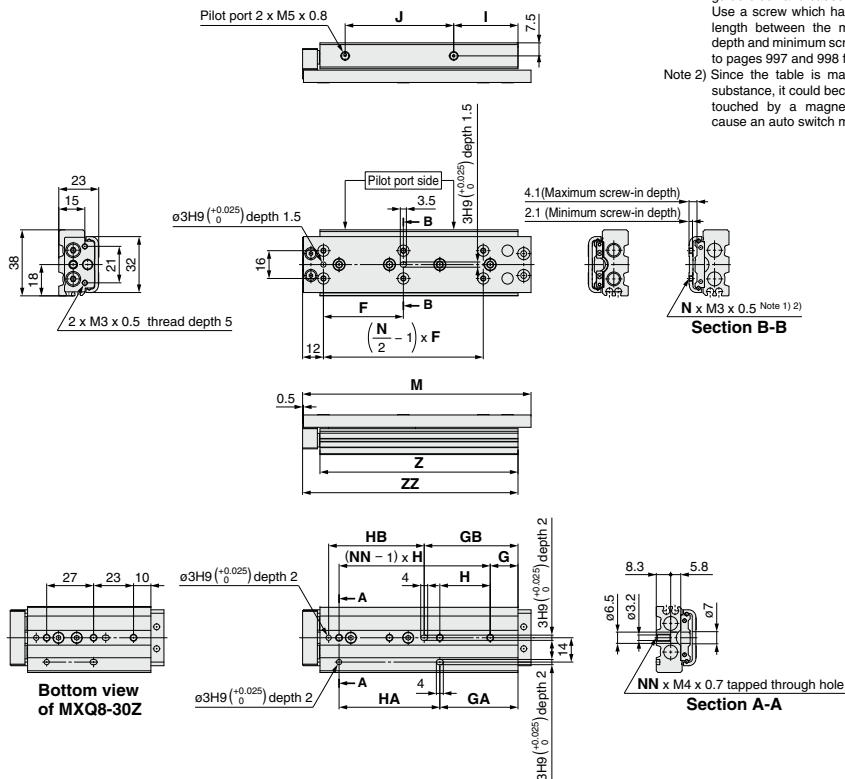
* Dimensions other than listed above are the same as those for the standard type.

Dimensions: MXQ **8** [Standard]

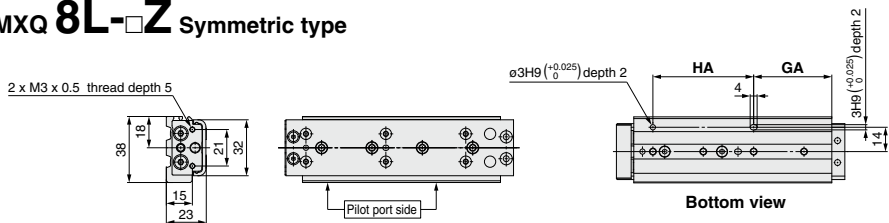
MXQ **8**-□**Z** Standard type

Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



MXQ **8L**-□**Z** Symmetric type



* Dimensions other than listed above are the same as those for the standard type.

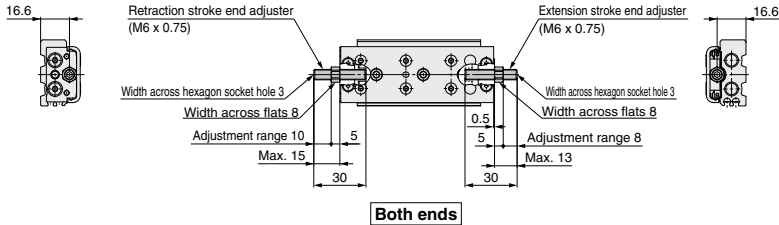
Dimensions

Model	F	G	GA	GB	H	HA	HB	I	J	M	N	NN	Z	ZZ
MXQ8-10Z	25	15	21	9	25	19	37	10	26.5	68.5	4	2	51	61
MXQ8-20Z	25	22	22	16	28	28	40	14	32.5	78.5	4	2	61	71
MXQ8-30Z	26	—	33	26	—	27	40	14.5	42	88.5	6	3	71	81
MXQ8-40Z	32	14	45	27	31	31	55	20	52.5	104.5	6	3	87	97
MXQ8-50Z	46	16	45	54	29	58	55	37	62.5	131.5	6	4	114	124
MXQ8-75Z	50	15	45	56	30	60	55	10	91.5	156.5	6	4	116	126

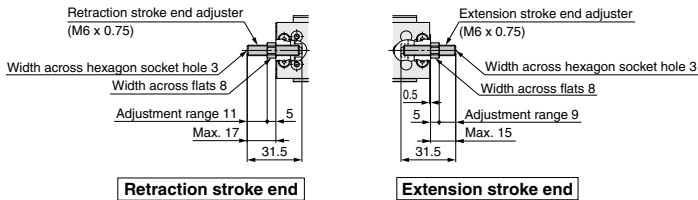
Dimensions: MXQ 8 [Adjuster Option]

MXQ 8- With adjuster option (ø8)

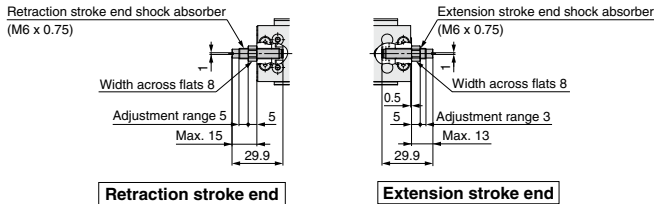
Metal stopper with bumper **[ZA]**: Both ends, **[ZB]**: Extension stroke end, **[ZC]**: Retraction stroke end, **[ZS]**: Retraction stroke end (Shorter total length type)



Rubber stopper **[ZD]**: Both ends, **[ZE]**: Extension stroke end, **[ZF]**: Retraction stroke end, **[ZP]**: Retraction stroke end (Shorter total length type)

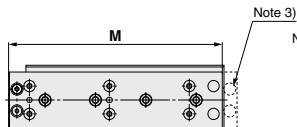


Shock absorber (R.) **[ZG]**: Both ends, **[ZH]**: Extension stroke end, **[ZJ]**: Retraction stroke end, **[ZQ]**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 8- ZN Height interchangeable type



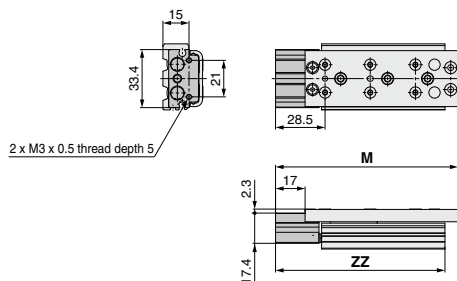
Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward. (Retraction stroke end adjuster can be mounted afterward.)

Dimensions (mm)	
Model	M
MXQ8-10ZN	60
MXQ8-20ZN	70
MXQ8-30ZN	80
MXQ8-40ZN	96
MXQ8-50ZN	123
MXQ8-75ZN	148

* Dimensions other than listed above are the same as those for the standard type.

Dimensions: MXQ **8** [Functional Option]

MXQ 8-□□1 With buffer (ø8)

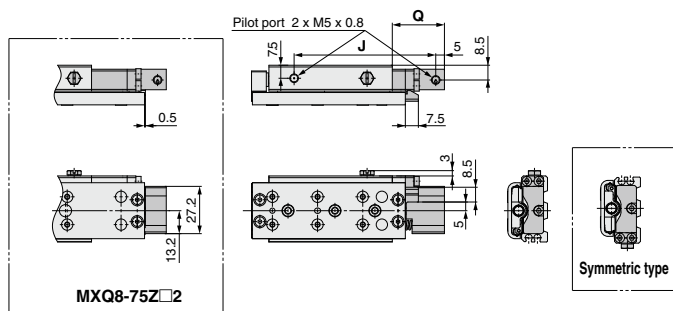


* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)

Model	Standard type	Shorter total length type	ZZ
	M	M	
MXQ8-10Z□1	85	76.5	77.5
MXQ8-20Z□1	95	86.5	87.5
MXQ8-30Z□1	105	96.5	97.5
MXQ8-40Z□1	121	112.5	113.5
MXQ8-50Z□1	148	139.5	140.5
MXQ8-75Z□1	173	164.5	142.5

MXQ 8-□□2 With end lock (ø8)



* Dimensions other than listed above are the same as those for the standard type.

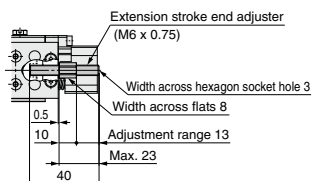
Dimensions (mm)

Model	J	Q
MXQ8-10Z□2	61.5	30
MXQ8-20Z□2	71.5	
MXQ8-30Z□2	81.5	
MXQ8-40Z□2	97.5	
MXQ8-50Z□2	124.5	
MXQ8-75Z□2	139.5	43

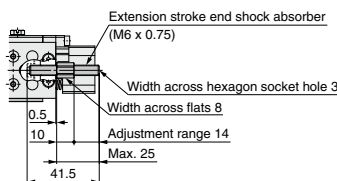
MXQ 8-□□2 With end lock, extension stroke end adjuster (Ø8)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together.
The stroke adjustment range is different from the adjuster of the standard product.
Retraction stroke end adjuster cannot be mounted to the end lock.

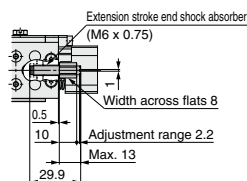
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



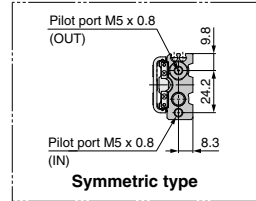
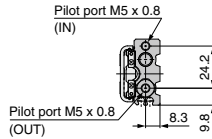
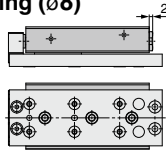
Shock absorber (RJ): ZH



* Dimensions other than listed above are the same as those for the standard type.

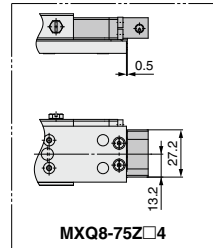
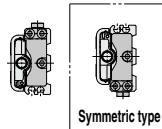
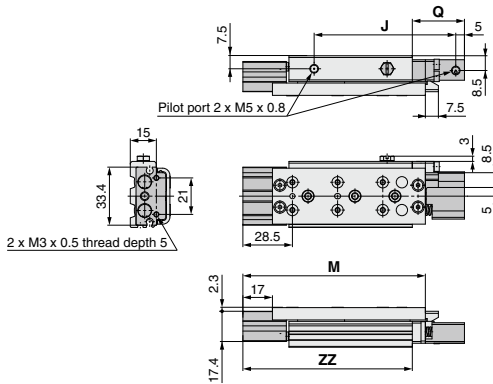
Dimensions: MXQ **8** [Functional Option]

MXQ 8-□□3 Axial piping (ø8)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 8-□□4 With buffer, end lock (ø8)

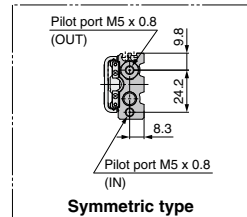
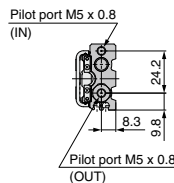
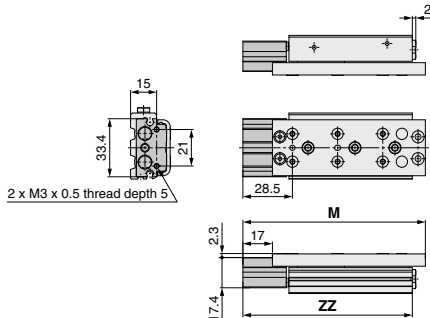


Dimensions

Model	J	Q	Standard type		Shorter total length type	ZZ
			M	M		
MXQ8-10Z□4	61.5	30	85	76.5	77.5	
MXQ8-20Z□4	71.5		95	86.5	87.5	
MXQ8-30Z□4	81.5		105	96.5	97.5	
MXQ8-40Z□4	97.5		121	112.5	113.5	
MXQ8-50Z□4	124.5	43	148	139.5	140.5	
MXQ8-75Z□4	139.5		173	164.5	142.5	

* Dimensions other than listed above are the same as those for the standard type.

MXQ 8-□□5 With buffer, axial piping (ø8)



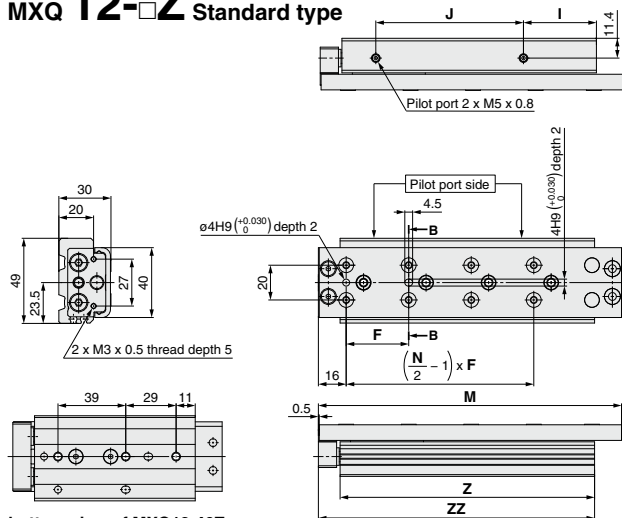
Dimensions

Model	Standard type		Shorter total length type	ZZ
	M	M		
MXQ8-10Z□5	85	76.5	77.5	
MXQ8-20Z□5	95	86.5	87.5	
MXQ8-30Z□5	105	96.5	97.5	
MXQ8-40Z□5	121	112.5	113.5	
MXQ8-50Z□5	148	139.5	140.5	
MXQ8-75Z□5	173	164.5	142.5	

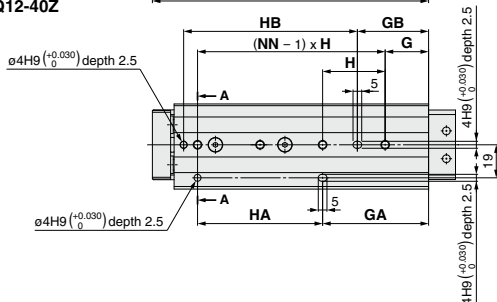
* Dimensions other than listed above are the same as those for the standard type.

Dimensions: MXQ 12 [Standard]

MXQ 12-□Z Standard type

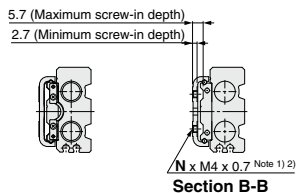


bottom view of MXQ12-40Z

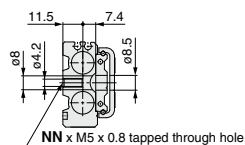


Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.

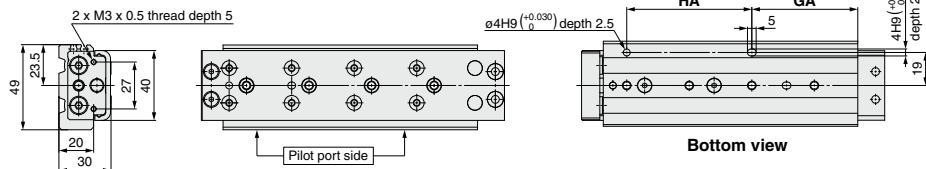


Section B-B



Section A-A

MXQ 12L-□Z Symmetric type



Bottom view

* Dimensions other than listed above are the same as those for the standard type.

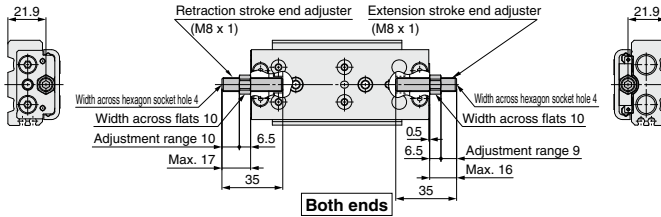
Dimensions

Dimensions														(mm)
Model	F	G	GA	GB	H	HA	HB	I	J	M	N	NN	Z	ZZ
MXQ12-10Z	28	17	17	11	32	32	46	11	32	82.5	4	2	62.5	75
MXQ12-20Z	28	19	19	11	32	32	48	13	32	92.5	4	2	64.5	77
MXQ12-30Z	38	21	21	11	40	40	58	15	40	102.5	4	2	74.5	87
MXQ12-40Z	34	—	40	27	—	39	60	23	50	120.5	6	3	92.5	105
MXQ12-50Z	34	11	50	37	39	39	60	23	60	130.5	6	3	102.5	115
MXQ12-75Z	36	25	61	41	36	72	100	42	85	174.5	8	4	146.5	159
MXQ12-100Z	36	14	86	66	36	72	100	42	110	199.5	10	5	171.5	184

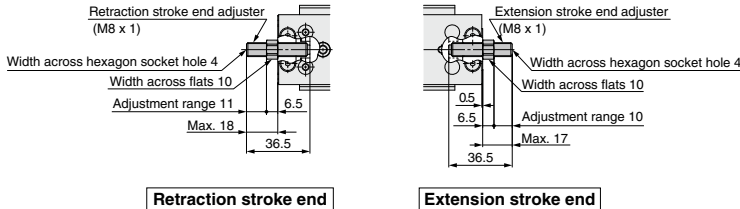
Dimensions: MXQ **12** [Adjuster Option]

MXQ 12-□ With adjuster option (ø12)

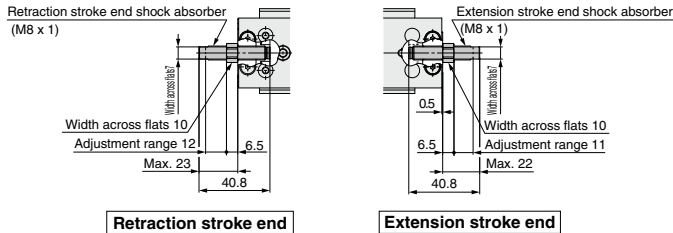
Metal stopper with bumper **[ZA]**: Both ends, **[ZB]**: Extension stroke end, **[ZC]**: Retraction stroke end, **[ZS]**: Retraction stroke end (Shorter total length type)



Rubber stopper **[ZD]**: Both ends, **[ZE]**: Extension stroke end, **[ZF]**: Retraction stroke end, **[ZP]**: Retraction stroke end (Shorter total length type)

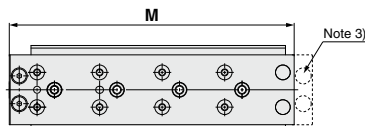


Shock absorber (RJ) **[ZG]**: Both ends, **[ZH]**: Extension stroke end, **[ZJ]**: Retraction stroke end, **[ZQ]**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 12-□ZN Height interchangeable type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward. (Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)	
Model	M
MXQ12-10ZN	72
MXQ12-20ZN	82
MXQ12-30ZN	92
MXQ12-40ZN	110
MXQ12-50ZN	120
MXQ12-75ZN	164
MXQ12-100ZN	189

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)K□

C(L)KU

CKQ

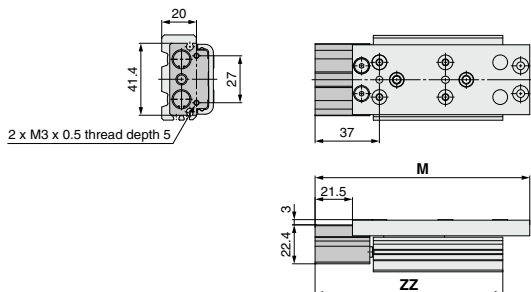
CK2ZN

WRF

INDEX

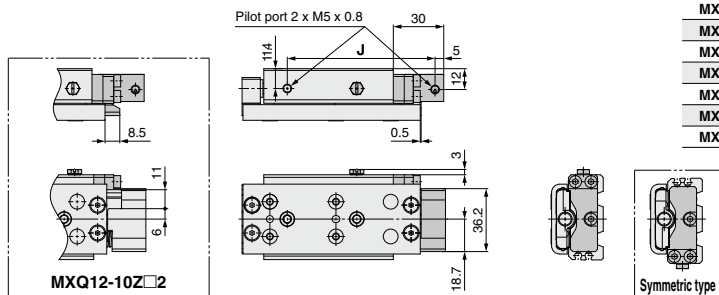
Dimensions: MXQ **12** [Functional Option]

MXQ 12-□□1 With buffer (ø12)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 12-□□2 With end lock (ø12)

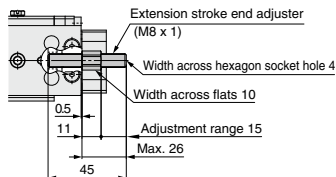


* Dimensions other than listed above are the same as those for the standard type.

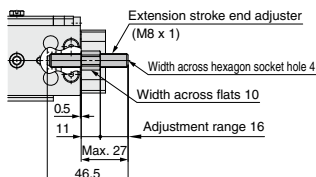
MXQ 12-□□2 With end lock, extension stroke end adjuster (ø12)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together. The stroke adjustment range is different from the adjuster of the standard product. Retraction stroke end adjuster cannot be mounted to the end lock.

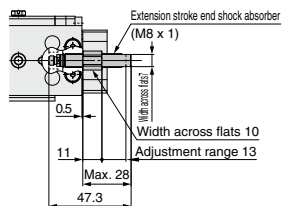
Metal stopper with bumper: ZB



Rubber stopper: **ZE**



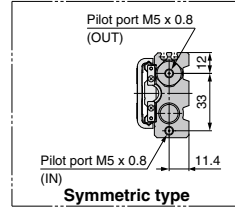
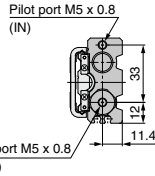
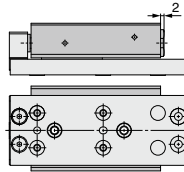
Shock absorber (RJ): ZH



* Dimensions other than listed above are the same as those for the standard type.

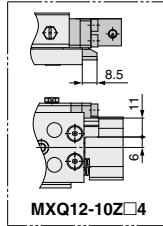
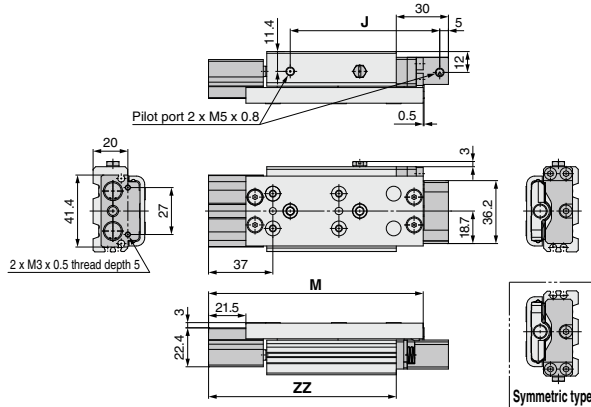
Dimensions: MXQ **12** [Functional Option]

MXQ **12-□□3** Axial piping (ø12)



* Dimensions other than listed above are the same as those for the standard type.

MXQ **12-□□4** With buffer, end lock (ø12)

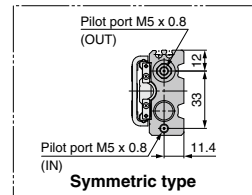
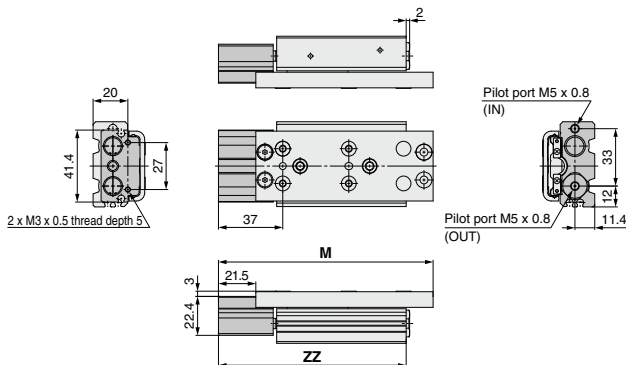


Dimensions (mm)

Model	J	Standard type	Shorter total length type	ZZ
		M	M	
MXQ12-10Z□4	68	103.5	93	96
MXQ12-20Z□4	70	113.5	103	98
MXQ12-30Z□4	80	123.5	113	108
MXQ12-40Z□4	98	141.5	131	126
MXQ12-50Z□4	108	151.5	141	136
MXQ12-75Z□4	152	195.5	185	180
MXQ12-100Z□4	177	220.5	210	205

* Dimensions other than listed above are the same as those for the standard type.

MXQ **12-□□5** With buffer, axial piping (ø12)



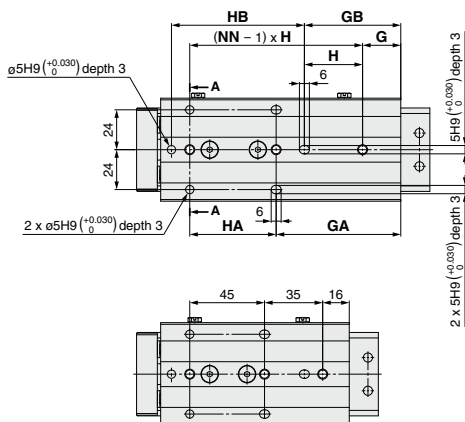
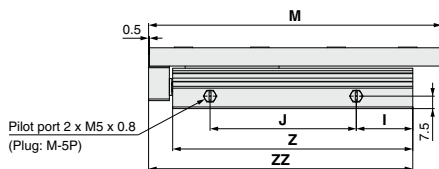
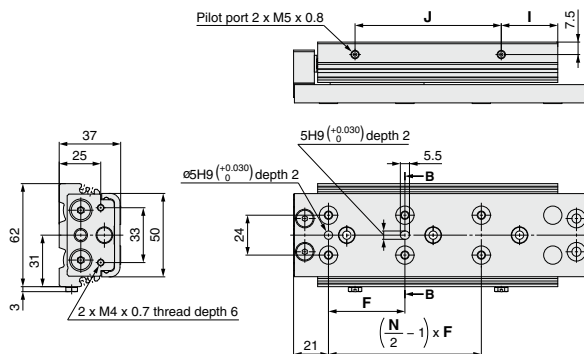
Dimensions (mm)

Model	Standard type	Shorter total length type	ZZ
	M	M	
MXQ12-10Z□5	103.5	93	96
MXQ12-20Z□5	113.5	103	98
MXQ12-30Z□5	123.5	113	108
MXQ12-40Z□5	141.5	131	126
MXQ12-50Z□5	151.5	141	136
MXQ12-75Z□5	195.5	185	180
MXQ12-100Z□5	220.5	210	205

* Dimensions other than listed above are the same as those for the standard type.

Dimensions: MXQ **16 [Standard]**

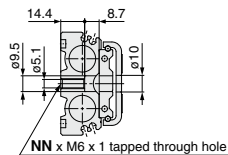
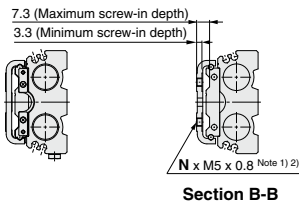
MXQ 16-□Z Standard type



Bottom view of MXQ16A-50Z

Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



Section A-A

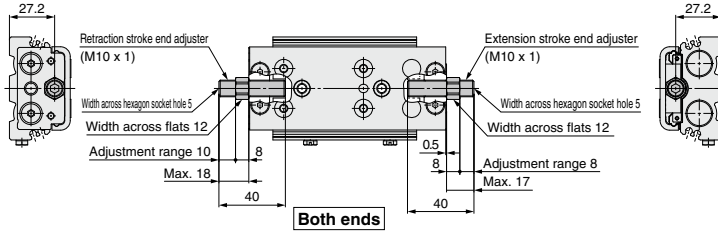
Dimensions

Dimensions														(mm)
Model	F	G	GA	GB	H	HA	HB	I	J	M	N	NN	Z	ZZ
MXQ16-10Z	38	16	16	8	39	39	58	22	28	98.5	4	2	72.5	87
MXQ16-20Z	38	20	20	12	39	39	58	15	39	108.5	4	2	76.5	91
MXQ16-30Z	48	21	21	30	48	48	50	16	48	118.5	4	2	86.5	101
MXQ16-40Z	58	28	28	17	58	58	80	23	58	135.5	4	2	103.5	118
MXQ16-50Z	40	—	51	27	—	45	80	28	63	145.5	6	3	113.5	128
MXQ16-75Z	46	23	75	58	52	52	80	34	88	176.5	6	3	144.5	159
MXQ16-100Z	44	39	83	102	44	88	80	53	113	220.5	8	4	188.5	203
MXQ16-125Z	44	20	108	127	44	88	80	53	138	245.5	10	5	213.5	228

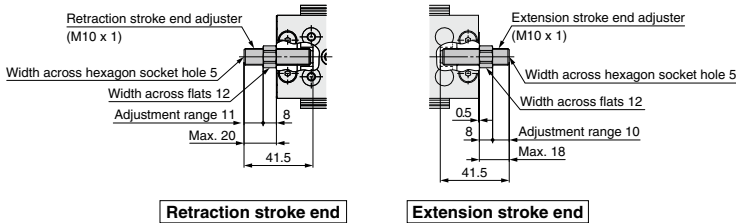
Dimensions: MXQ **16** [Adjuster Option]

MXQ 16-□ □ With adjuster option (ø16)

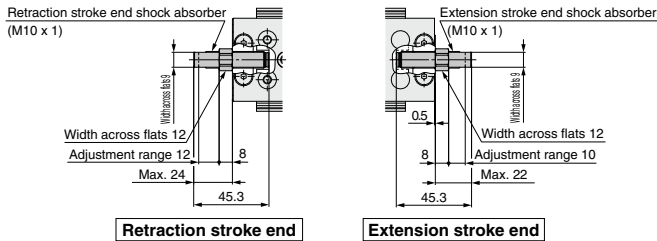
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



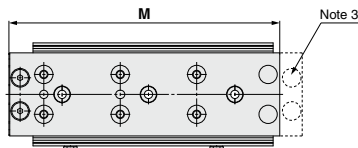
Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)



Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



MXQ 16-□ **ZN** Shorter total length type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward. (Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)	
Model	M
MXQ16-10ZN	85
MXQ16-20ZN	95
MXQ16-30ZN	105
MXQ16-40ZN	122
MXQ16-50ZN	132
MXQ16-75ZN	163
MXQ16-100ZN	207
MXQ16-125ZN	232

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-
retainer

JA

MXH

MXQ

MGP

C□Y
C□X

CK□1

C(L)□

C(L)XU

CKQ

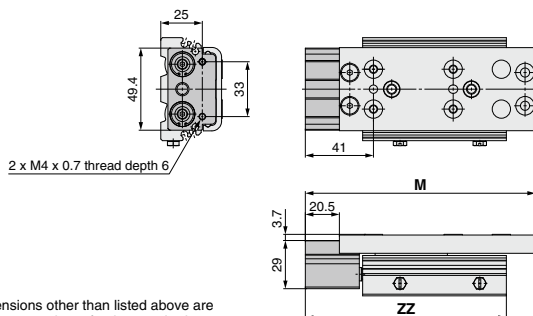
CK2ZN

WRF

INDEX

Dimensions: MXQ **16** [Functional Option]

MXQ 16-□□1 With buffer (ø16)

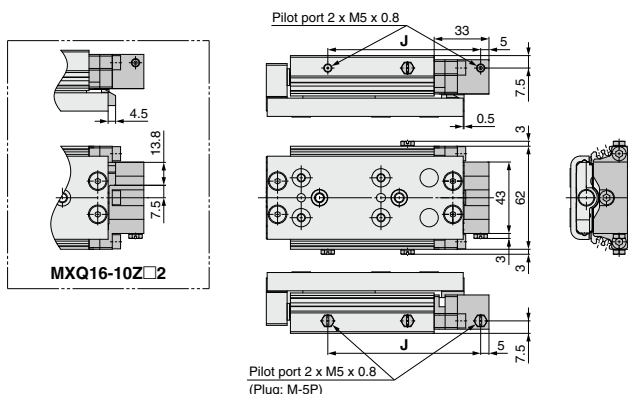


* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)

Model	Standard type		ZZ
	M	M	
MXQ16-10Z□	118.5	105	107
MXQ16-20Z□	128.5	115	111
MXQ16-30Z□	138.5	125	121
MXQ16-40Z□	155.5	142	138
MXQ16-50Z□	165.5	152	148
MXQ16-75Z□	196.5	183	179
MXQ16-100□	240.5	227	223
MXQ16-125Z□	265.5	252	248

MXQ 16-□□2 With end lock (ø16)



* Dimensions other than listed above are the same as those for the standard type.

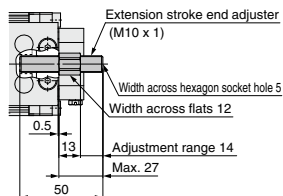
Dimensions (mm)

Model	J
MXQ16-10Z□□2	78
MXQ16-20Z□□2	82
MXQ16-30Z□□2	92
MXQ16-40Z□□2	109
MXQ16-50Z□□2	119
MXQ16-75Z□□2	150
MXQ16-100Z□□2	194
MXQ16-125Z□□2	219

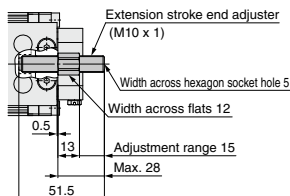
MXQ 16-□□2 With end lock, extension stroke end adjuster (ø16)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together.
The stroke adjustment range is different from the adjuster of the standard product.
Retraction stroke end adjuster cannot be mounted to the end lock.

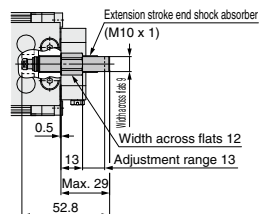
Metal stopper with bumper: ZB



Rubber stopper: ZE



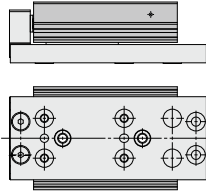
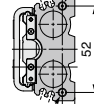
Shock absorber (RJ): ZH



* Dimensions other than listed above are the same as those for the standard type.

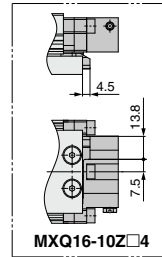
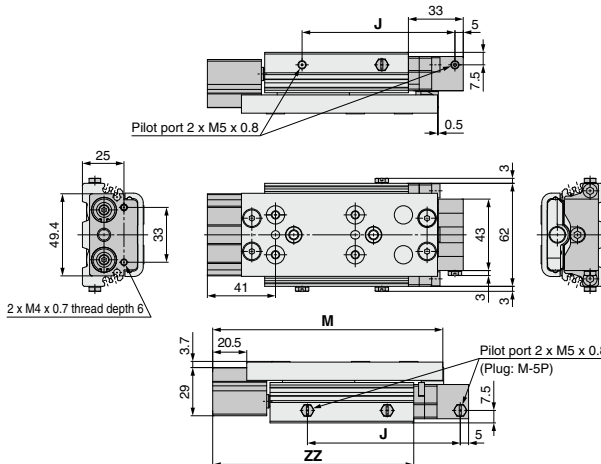
Dimensions: MXQ **16** [Functional Option]

MXQ **16-□□3** Axial piping (ø16)


Pilot port M5 x 0.8
(OUT)


* Dimensions other than listed above are the same as those for the standard type.

MXQ **16-□□4** With buffer, end lock (ø16)

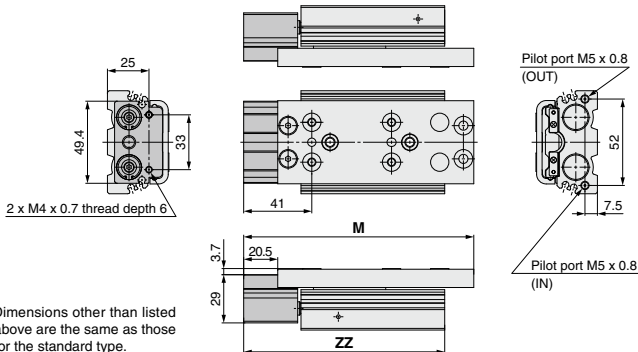


Dimensions

Model	J	Standard type	Shorter total length type	ZZ
		M	M	
MXQ16-10Z□4	78	118.5	105	107
MXQ16-20Z□4	82	128.5	115	111
MXQ16-30Z□4	92	138.5	125	121
MXQ16-40Z□4	109	155.5	142	138
MXQ16-50Z□4	119	165.5	152	148
MXQ16-75Z□4	150	196.5	183	179
MXQ16-100Z□4	194	240.5	227	223
MXQ16-125Z□4	219	265.5	252	248

* Dimensions other than listed above are the same as those for the standard type.

MXQ **16-□□5** With buffer, axial piping (ø16)



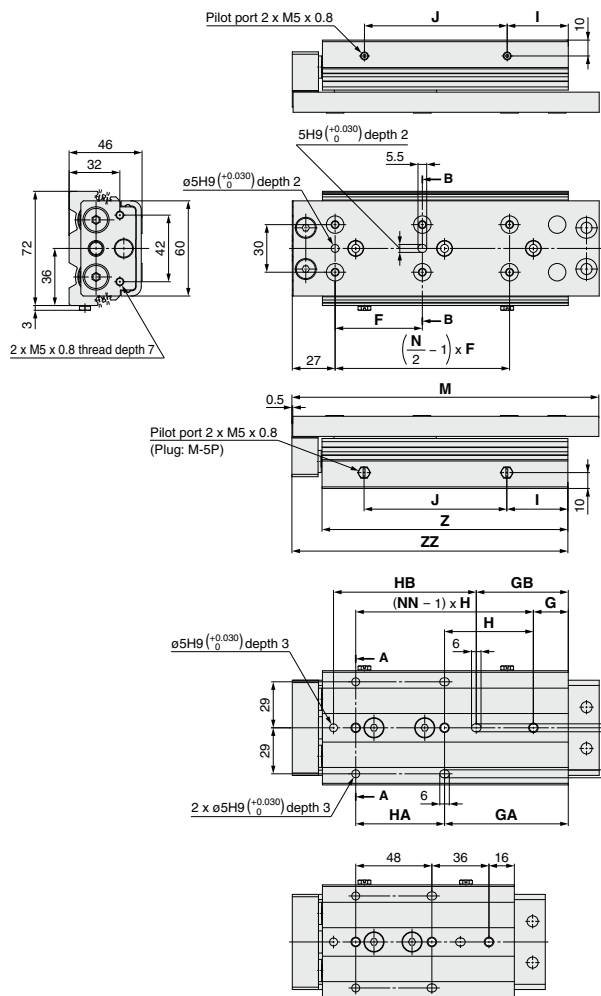
Dimensions

Model	Standard type	Shorter total length type	ZZ
	M	M	
MXQ16-10Z□5	118.5	105	107
MXQ16-20Z□5	128.5	115	111
MXQ16-30Z□5	138.5	125	121
MXQ16-40Z□5	155.5	142	138
MXQ16-50Z□5	165.5	152	148
MXQ16-75Z□5	196.5	183	179
MXQ16-100Z□5	240.5	227	223
MXQ16-125Z□5	265.5	252	248

* Dimensions other than listed above are the same as those for the standard type.

Dimensions: MXQ **20** [Standard]

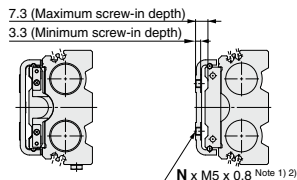
MXQ 20-□Z Standard type



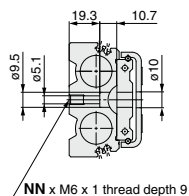
Bottom view of MXQ20-50Z

Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



Section B-B



Section A-A

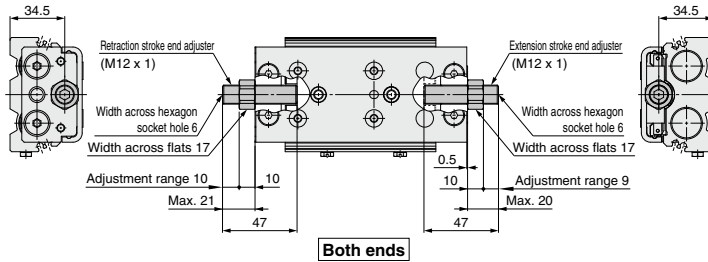
Dimensions

Model	F	G	GA	GB	H	HA	HB	I	J	M	N	NN	Z	ZZ
MXQ20-10Z	45	18	14	8	46	50	70	24.5	34	113.5	4	2	85	104
MXQ20-20Z	40	18	14	8	46	50	70	24.5	34	123.5	4	2	85	104
MXQ20-30Z	48	28	24	18	46	50	70	22.5	46	133.5	4	2	95	114
MXQ20-40Z	58	28	28	18	56	56	80	22.5	56	143.5	4	2	105	124
MXQ20-50Z	42	—	52	34	—	48	80	30.5	64	159.5	6	3	121	140
MXQ20-75Z	55	22	78	58	56	56	90	38.5	90	193.5	6	3	155	174
MXQ20-100Z	50	16	72	108	56	112	90	63.5	115	266.5	8	4	205	224
MXQ20-125Z	55	32	91	133	59	118	90	63.5	140	291.5	8	4	230	249
MXQ20-150Z	62	48	110	158	62	124	90	63.5	165	316.5	8	4	255	274

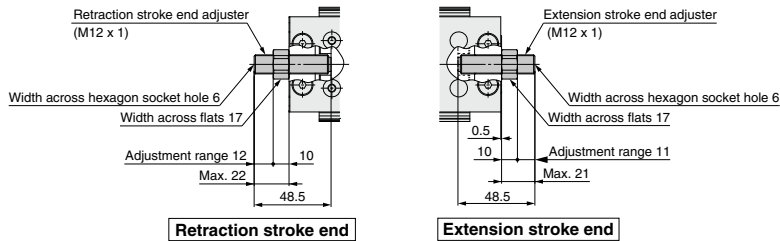
Dimensions: MXQ **20** [Adjuster Option]

MXQ **20**-□ □ With adjuster option (ø20)

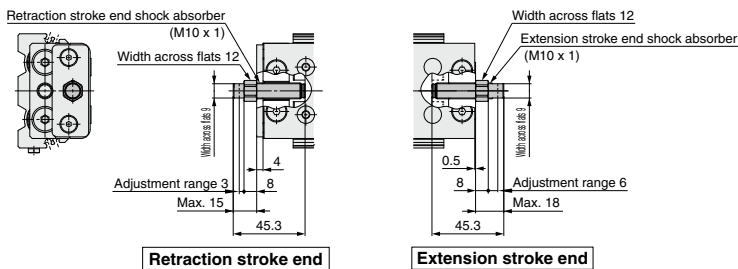
Metal stopper with bumper **[ZA]**: Both ends, **[ZB]**: Extension stroke end, **[ZC]**: Retraction stroke end, **[ZS]**: Retraction stroke end (Shorter total length type)



Rubber stopper **[ZD]**: Both ends, **[ZE]**: Extension stroke end, **[ZF]**: Retraction stroke end, **[ZP]**: Retraction stroke end (Shorter total length type)

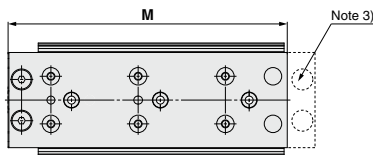


Shock absorber (RJ) **[ZG]**: Both ends, **[ZH]**: Extension stroke end, **[ZJ]**: Retraction stroke end, **[ZQ]**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ **20**-□ **ZN** Height interchangeable type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward. (Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)	
Model	M
MXQ20-10ZN	96
MXQ20-20ZN	106
MXQ20-30ZN	116
MXQ20-40ZN	126
MXQ20-50ZN	142
MXQ20-75ZN	176
MXQ20-100ZN	249
MXQ20-125ZN	274
MXQ20-150ZN	299

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-
retainer

JA

MXH

MXQ

MGP

CY

CX

CK□1

C(L)□

C(L)XU

CKQ

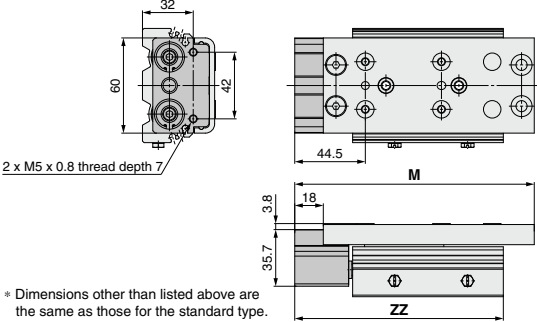
CKZN

WRF

INDEX

Dimensions: MXQ **20** [Functional Option]

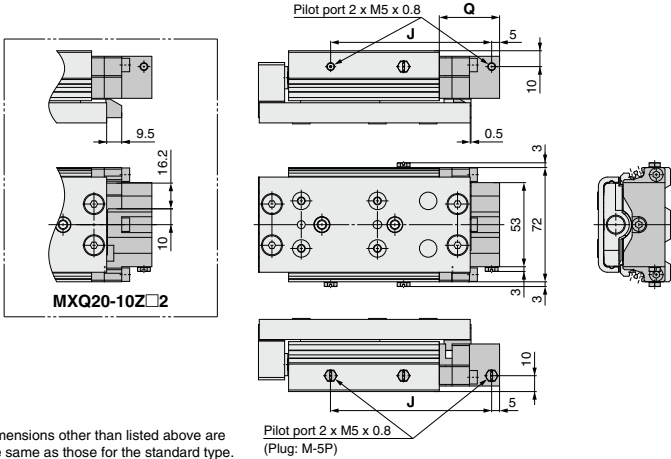
MXQ **20-□□1** With buffer (ø20)



* Dimensions other than listed above are the same as those for the standard type.

Dimensions		(mm)		
Model	Standard type	Stroke total length type		
	M	M	ZZ	
MXQ20-10Z□1	131	113.5	121.5	
MXQ20-20Z□1	141	123.5		
MXQ20-30Z□1	151	133.5	131.5	
MXQ20-40Z□1	161	143.5	141.5	
MXQ20-50Z□1	177	159.5	157.5	
MXQ20-75Z□1	211	193.5	191.5	
MXQ20-100Z□1	284	266.5	241.5	
MXQ20-125Z□1	309	291.5	266.5	
MXQ20-150Z□1	334	316.5	291.5	

MXQ **20-□□2** With end lock (ø20)



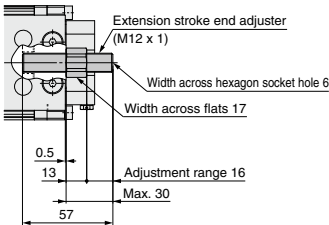
* Dimensions other than listed above are the same as those for the standard type.

Dimensions		(mm)	
Model	J	Q	
MXQ20-10Z□2	91.5	38	
MXQ20-20Z□2			
MXQ20-30Z□2			
MXQ20-40Z□2			
MXQ20-50Z□2	127.5	61	
MXQ20-75Z□2	161.5		
MXQ20-100Z□2	234.5		
MXQ20-125Z□2	259.5		
MXQ20-150Z□2	284.5		

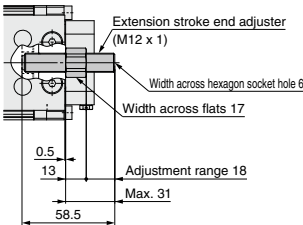
MXQ **20-□□2** With end lock, extension stroke end adjuster (ø20)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together. The stroke adjustment range is different from the adjuster of the standard product. Retraction stroke end adjuster cannot be mounted to the end lock.

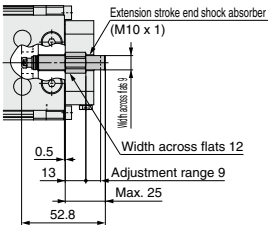
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



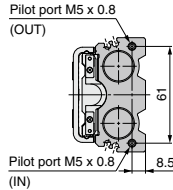
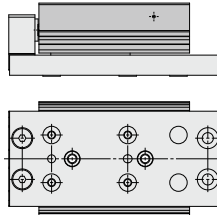
Shock absorber (RJ): **ZH**



* Dimensions other than listed above are the same as those for the standard type.

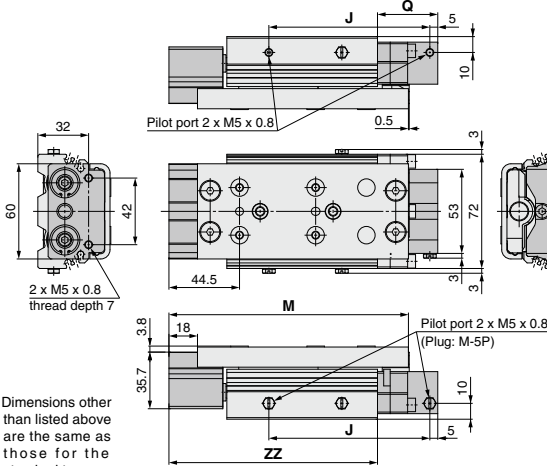
Dimensions: MXQ **20A** [Functional Option]

MXQ 20-□□3 Axial piping (ø20)

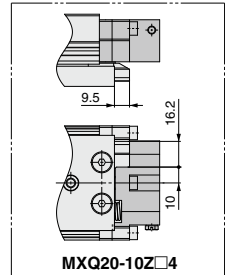


* Dimensions other than listed above are the same as those for the standard type.

MXQ 20-□□4 With buffer, end lock (ø20)



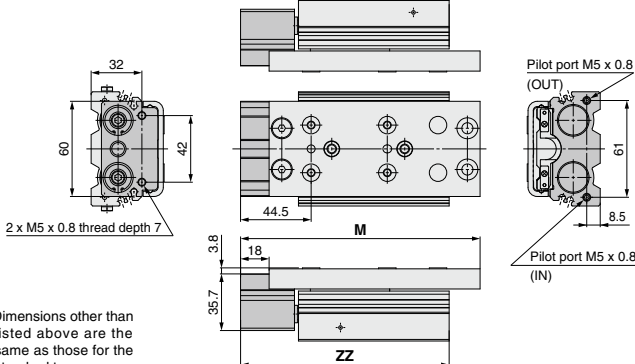
* Dimensions other than listed above are the same as those for the standard type.



Dimensions

Model	J	Q	Standard type		Shorter total length type	ZZ
			M	M		
MXQ20-10Z□4	91.5	38	131	113.5	121.5	
MXQ20-20Z□4			141	123.5		
MXQ20-30Z□4			151	133.5		
MXQ20-40Z□4			161	143.5		
MXQ20-50Z□4			177	159.5		
MXQ20-75Z□4	161.5	211	193.5	191.5	241.5	
MXQ20-100Z□4	234.5	284	266.5			
MXQ20-125Z□4	259.5	309	291.5	266.5		
MXQ20-150Z□4	284.5	334	316.5	291.5		

MXQ 20-□□5 With buffer, axial piping (ø20)



* Dimensions other than listed above are the same as those for the standard type.

Dimensions

Model	Standard type	Shorter total length type	ZZ
MXQ20-10Z□5	131	113.5	121.5
MXQ20-20Z□5	141	123.5	
MXQ20-30Z□5	151	133.5	131.5
MXQ20-40Z□5	161	143.5	141.5
MXQ20-50Z□5	177	159.5	157.5
MXQ20-75Z□5	211	193.5	191.5
MXQ20-100Z□5	284	266.5	241.5
MXQ20-125Z□5	309	291.5	266.5
MXQ20-150Z□5	334	316.5	291.5

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)□

C(L)□U

CKQ

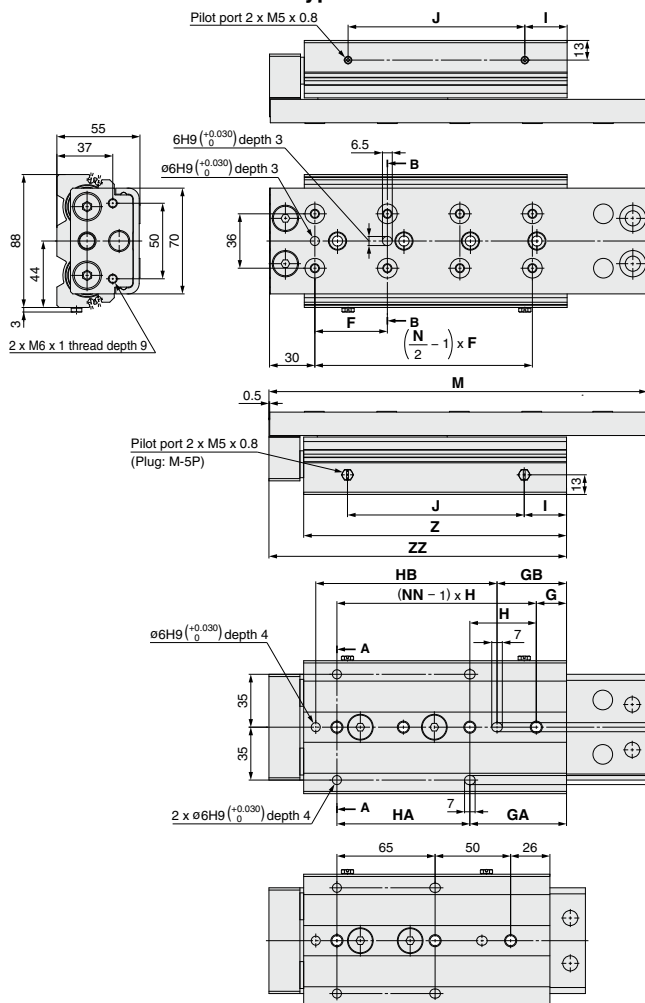
CK2ZN

WRF

INDEX

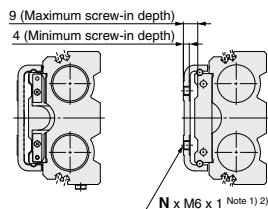
Dimensions: MXQ **25** [Standard]

MXQ 25-□Z Standard type

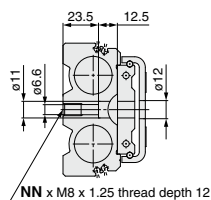


Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has the intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 997 and 998 for details.

Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



Section B-B



Section A-A

Dimensions

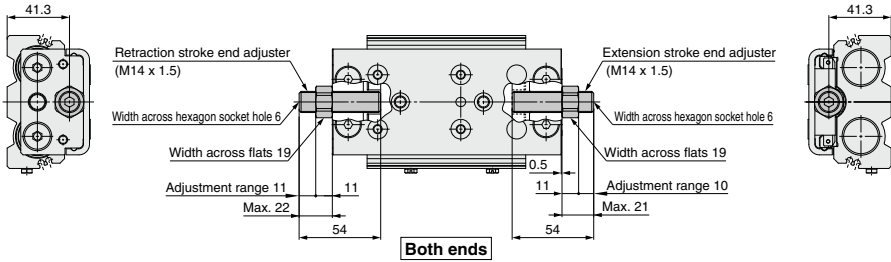
Bottom view of MXQ25-75Z

Model	F	G	GA	GB	H	HA	HB	I	J	M	N	NN	Z	ZZ
MXQ25-10Z	55	18	18	7	55	55	80	30	36	131.5	4	2	95	118
MXQ25-20Z	46	18	18	7	55	55	80	30	36	141.5	4	2	95	118
MXQ25-30Z	55	28	28	17	55	55	80	22	54	151.5	4	2	105	128
MXQ25-40Z	65	28	28	17	65	65	90	22	64	161.5	4	2	115	138
MXQ25-50Z	75	36	36	20	80	80	110	43	66	184.5	4	2	138	161
MXQ25-75Z	60	—	76	45	—	65	110	42	92	209.5	6	3	163	186
MXQ25-100Z	48	20	64	46	44	88	120	28	117	250.5	8	4	174	197
MXQ25-125Z	60	18	84	60	66	132	170	67	142	314.5	8	4	238	261
MXQ25-150Z	65	43	109	85	66	132	170	66	168	339.5	8	4	263	286

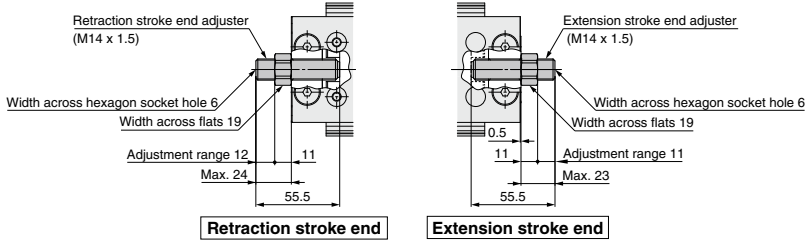
Dimensions: MXQ **25** [Adjuster Option]

MXQ 25-□ □ With adjuster option (ø25)

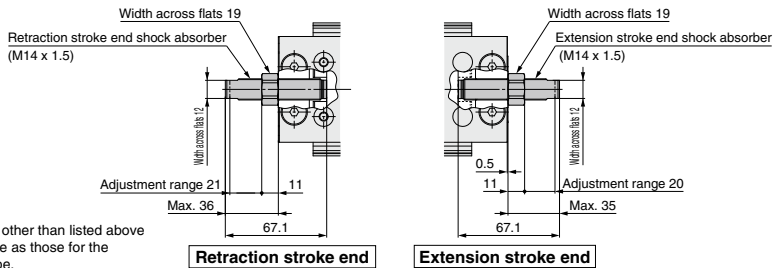
Metal stopper with bumper **[ZA]**: Both ends, **[ZB]**: Extension stroke end, **[ZC]**: Retraction stroke end, **[ZS]**: Retraction stroke end (Shorter total length type)



Rubber stopper **[ZD]**: Both ends, **[ZE]**: Extension stroke end, **[ZF]**: Retraction stroke end, **[ZP]**: Retraction stroke end (Shorter total length type)

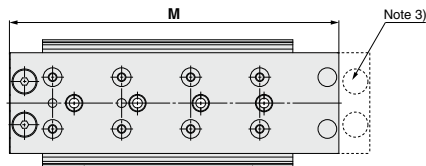


Shock absorber (RJ) **[ZG]**: Both ends, **[ZH]**: Extension stroke end, **[ZJ]**: Retraction stroke end, **[ZQ]**: Retraction stroke end (Shorter total length type)



* Dimensions other than listed above are the same as those for the standard type.

MXQ 25-□ **ZN** Height interchangeable type



Note 3) As the total length is reduced by removing the extension stroke end adjuster mounting holes, an extension stroke end adjuster cannot be mounted afterward. (Retraction stroke end adjuster can be mounted afterward.)

* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)	
Model	M
MXQ25-10ZN	110
MXQ25-20ZN	120
MXQ25-30ZN	130
MXQ25-40ZN	140
MXQ25-50ZN	163
MXQ25-75ZN	188
MXQ25-100ZN	229
MXQ25-125ZN	293
MXQ25-150ZN	318

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-

retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)□

C(L)□U

CKQ

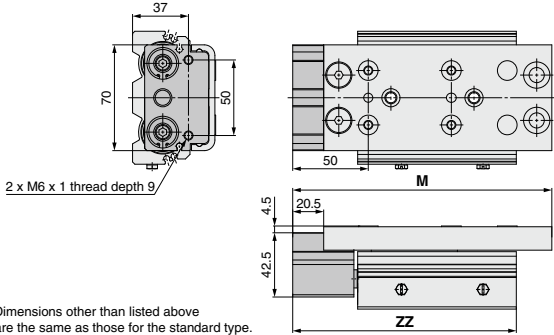
CKZN

WRF

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Dimensions: MXQ **25** [Functional Option]

MXQ **25-□□1** With buffer (ø25)

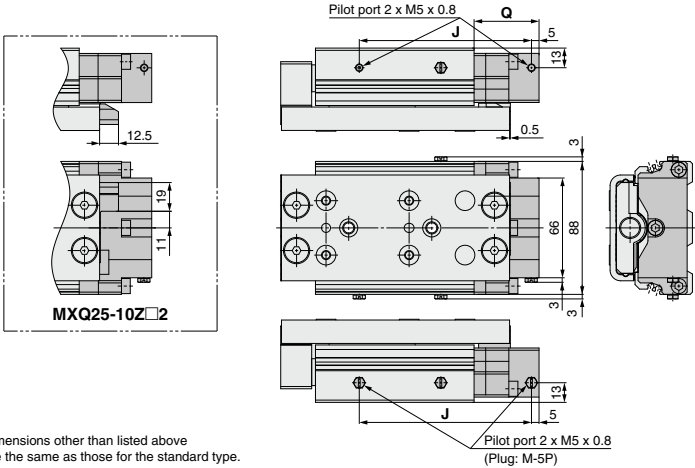


* Dimensions other than listed above are the same as those for the standard type.

Dimensions (mm)

Model	Standard type	Shorter total length type	ZZ
MXQ25-10Z□1	151.5	130	138
MXQ25-20Z□1	161.5	140	
MXQ25-30Z□1	171.5	150	148
MXQ25-40Z□1	181.5	160	158
MXQ25-50Z□1	204.5	183	181
MXQ25-75Z□1	229.5	208	206
MXQ25-100Z□1	270.5	249	217
MXQ25-125Z□1	334.5	313	281
MXQ25-150Z□1	359.5	338	306

MXQ **25-□□2** With end lock (ø25)



* Dimensions other than listed above are the same as those for the standard type.

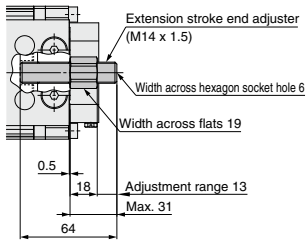
Dimensions (mm)

Model	J	Q
MXQ25-10Z□2	109	48
MXQ25-20Z□2	104	
MXQ25-30Z□2	114	43
MXQ25-40Z□2	124	
MXQ25-50Z□2	147	
MXQ25-75Z□2	172	73
MXQ25-100Z□2	213	
MXQ25-125Z□2	277	
MXQ25-150Z□2	302	

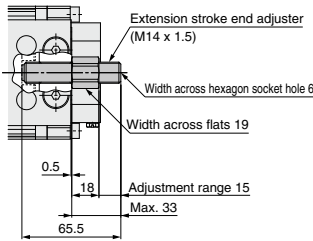
MXQ **25-□□2** With end lock, extension stroke end adjuster (ø25)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together. The stroke adjustment range is different from the adjuster of the standard product. Retraction stroke end adjuster cannot be mounted to the end lock.

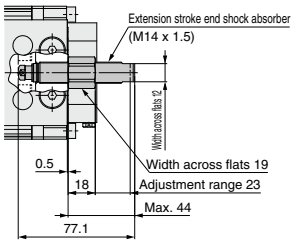
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



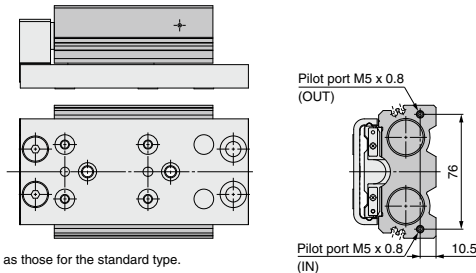
Shock absorber (RJ): **ZH**



* Dimensions other than listed above are the same as those for the standard type.

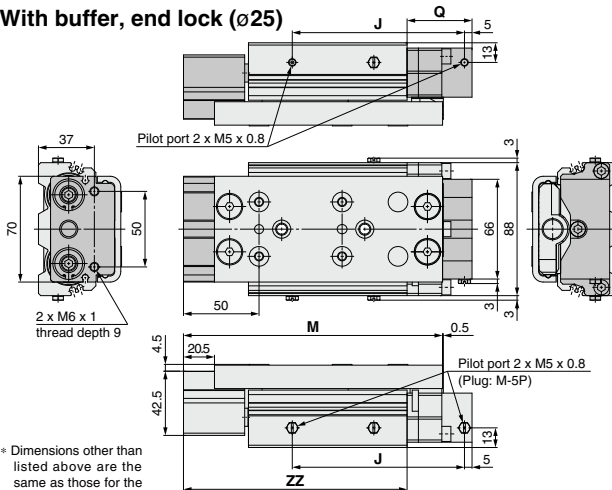
Dimensions: MXQ

MXQ 25-□□3
Axial piping (ø25)

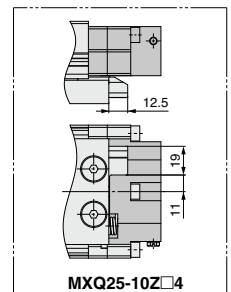


* Dimensions other than listed above are the same as those for the standard type.

MXQ 25-□□4
With buffer, end lock (ø25)



* Dimensions other than listed above are the same as those for the standard type.

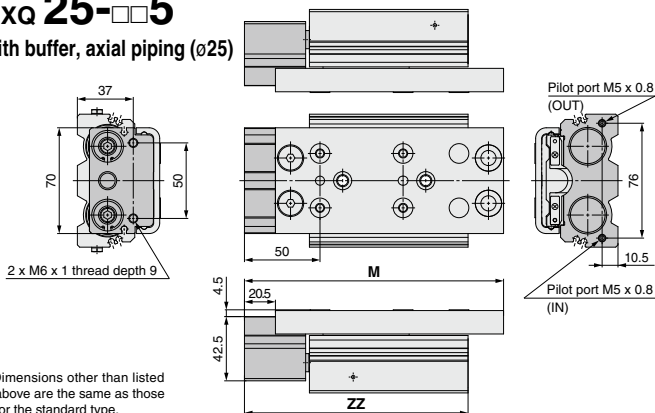


MXQ25-10Z□4

Dimensions (mm)

Model	J	Q	Standard type		Shorter total length type	ZZ
			M	M		
MXQ25-10Z□4	109	48	151.5	130		
MXQ25-20Z□4	104		161.5	140		138
MXQ25-30Z□4	114		171.5	150	148	
MXQ25-40Z□4	124	43	181.5	160	158	
MXQ25-50Z□4	147		204.5	183	181	
MXQ25-75Z□4	172		229.5	208	206	
MXQ25-100Z□4	213		270.5	149	217	
MXQ25-125Z□4	277	73	354.5	313	281	
MXQ25-150Z□4	302		339.5	338	306	

MXQ 25-□□5
With buffer, axial piping (ø25)



* Dimensions other than listed above are the same as those for the standard type.

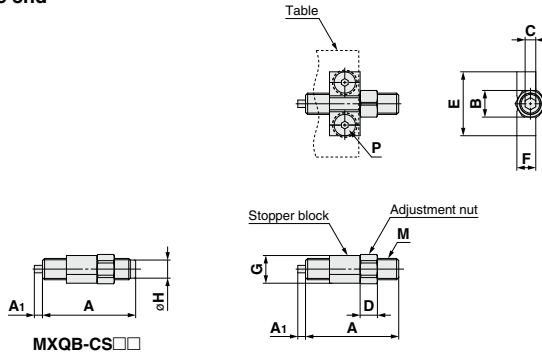
Dimensions (mm)

Model	Standard type	Shorter total length type	ZZ
	M	M	
MXQ25-10Z□□	151.5	130	138
MXQ25-20Z□□	161.5	140	
MXQ25-30Z□□	171.5	150	148
MXQ25-40Z□□	181.5	160	158
MXQ25-50Z□□	204.5	183	181
MXQ25-75Z□□	229.5	208	206
MXQ25-100Z□□	270.5	149	217
MXQ25-125Z□□	334.5	313	281
MXQ25-150Z□□	359.5	338	306

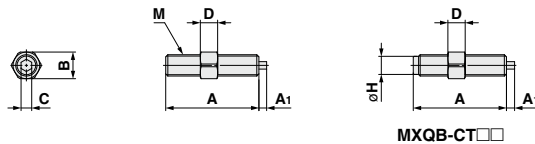
Common Adjuster Options

Metal Stopper with Bumper

Extension stroke end



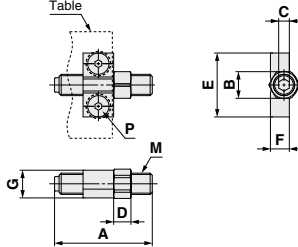
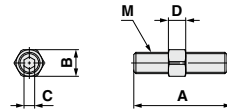
Retraction stroke end



Applicable size		Model			A	A ₁	B	C	D	E	F	G	M (Fine pitch)	P (Note 2)	øH
		Extension stroke end	Retraction stroke end	Metal stopper with bumper only (Note 1)											
MXQ6(A)	—	MXQA-CS8	MXQA-CT8	MXQA-A887	30	2	8	3	5	18	5.8	8.3	M6 x 0.75	M3 x 6	—
MXQ8(A,C)	—	MXQA-CS12	MXQA-CT12	MXQA-A1287	35	2.8	10	4	6.5	24	7.1	10.4	M8 x 1	M4 x 8	—
MXQ12(A,C)	—	MXQA-CS16	MXQA-CT16	MXQA-A1687	40	3.6	12	5	8	29.4	9.2	12.6	M10 x 1	M5 x 10	—
MXQ16(A)	—	MXQA-CS20	MXQA-CT20	MXQA-A2087	47	4.4	17	6	10	36	11.2	16.2	M12 x 1	M6 x 12	—
MXQ20(A)	—	MXQA-CS25	MXQA-CT25	MXQA-A2587	54	5.5	19	6	11	44	13.5	19.3	M14 x 1.5	M8 x 16	—
MXQ25(A)	—	MXQA-CS25	MXQA-CT25	MXQA-A2587	54	5.5	19	6	11	44	13.5	19.3	M14 x 1.5	M8 x 16	—
—	MXQ8B	MXQB-CS8	MXQB-CT8	MXQB-A887	35	2	10	4	6.5	24	7.1	10.4	M8 x 1	M4 x 8	6.8
—	MXQ12B	MXQB-CS12	MXQB-CT12	MXQB-A1287	40	2.8	12	5	8	29.4	9.2	12.6	M10 x 1	M5 x 10	8.8
—	MXQ16B	MXQB-CS16	MXQB-CT16	MXQB-A1687	47	3.6	17	6	10	36	11.2	16.2	M12 x 1	M6 x 12	10.8
—	MXQ20B	MXQB-CS20	MXQB-CT20	MXQB-A2087	54	4.4	19	6	11	44	13.5	19.3	M14 x 1.5	M8 x 16	12.3

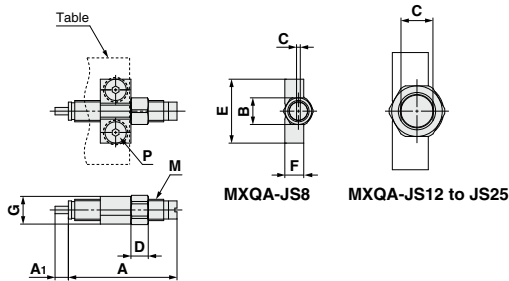
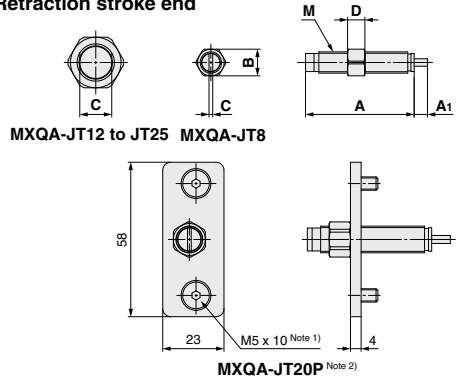
Note 1) Metal stopper with bumper only: A single unit of stopper without stopper block, adjustment nut and hexagon socket head cap screw

Note 2) Size of hexagon socket head cap screw

Rubber Stopper**Extension stroke end****Retraction stroke end**

Applicable size	Model			A	B	C	D	E	F	G	M (Fine pitch)	P (Note)
	Extension stroke end	Retraction stroke end	Rubber stopper only									
MXQ6(A)	MXQA-AS8	MXQA-AT8	MXQA-A827	31.5	8	3	5	18	5.8	8.3	M6 x 0.75	M3 x 6
MXQ6B												
MXQ8(A,C)												
MXQ12(A,C)	MXQA-AS12	MXQA-AT12	MXQA-A1227	36.5	10	4	6.5	24	7.1	10.4	M8 x 1	M4 x 8
MXQ8B												
MXQ16(A)	MXQA-AS16	MXQA-AT16	MXQA-A1627	41.5	12	5	8	29.4	9.2	12.6	M10 x 1	M5 x 10
MXQ12B												
MXQ20(A)	MXQA-AS20	MXQA-AT20	MXQA-A2027	48.5	17	6	10	36	11.2	16.2	M12 x 1	M6 x 12
MXQ16B												
MXQ25(A)	MXQA-AS25	MXQA-AT25	MXQA-A2527	55.5	19	6	11	44	13.5	19.3	M14 x 1.5	M8 x 16
MXQ20B												

Note) Size of hexagon socket head cap screw

Shock Absorber (RJ)**Extension stroke end****Retraction stroke end**

Applicable size	Model			A	A ₁	B	C	D	E	F	G	M (Fine pitch)	P (Note 1)
	Extension stroke end	Retraction stroke end	Shock absorber only										
MXQ6(A)	MXQA-JS8	MXQA-JT8	RJ0603N	29.9	3.4	8	1	5	18	5.8	8.3	M6 x 0.75	M3 x 6
MXQ6B													
MXQ8(A,C)													
MXQ12(A,C)	MXQA-JS12	MXQA-JT12	RJ0805N	40.8	5	10	7	6.5	24	7.1	10.4	M8 x 1	M4 x 8
MXQ8B													
MXQ16(A)	MXQA-JS16	MXQA-JT16	RJ1006N	45.3	6	12	9	8	29.4	9.2	12.6	M10 x 1	M5 x 10
MXQ12B													
MXQ20(A)	MXQA-JS20	MXQA-JT20P	RJ1007HN	45.3	7	12	9	8	36	11.2	16.2	M10 x 1	M6 x 12
MXQ16B													
MXQ25(A)	MXQA-JS25	MXQA-JT25	RJ1410N	67.1	10	19	12	11	44	13.5	19.3	M14 x 1.5	M8 x 16
MXQ20B													

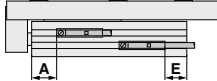
Note 1) Size of hexagon socket head cap screw

Note 2) Since the retraction stroke end shock absorber of the MXQ20(A) and MXQ16B has the different thread size from the thread of the product, use the mounting plate to mount the shock absorber. This makes the part number to be different from other sizes. (The part number has a suffix "P".)

Auto Switch Mounting

Auto Switch Proper Mounting Position (Detection at Stroke End)

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



Solid State Auto Switch: D-M9□/M9□W

(mm)

Model	A stroke									E stroke								
	10	20	30	40	50	75	100	125	150	10	20	30	40	50	75	100	125	150
MXQ6(A)	18	7.4	7.4	7.4	7.4	—	—	—	—	0	0.6	3.6	5.6	5.6	—	—	—	—
MXQ8(A,C)	13.9	13.9	13.9	13.9	13.9	13.9	—	—	—	5.1	5.1	5.1	11.1	28.1	5.1	—	—	—
MXQ12(A,C)	16.9	16.5	16.5	16.5	16.5	16.5	16.5	—	—	14.1	6.1	6.1	14.1	14.1	33.1	33.1	—	—
MXQ16(A)	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	—	20	14	14	21	21	27	46	46	—
MXQ20(A)	32.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	20.9	21.9	21.9	21.9	27.9	36.9	69.1	61.9	61.9
MXQ25(A)	34.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	28.7	27.7	27.7	27.7	40.7	40.7	42.7	65.4	65.7
MXQ6B	18	7.4	7.4	7.4	7.4	7.4	—	—	—	1	11.6	11.6	17.6	34.6	11.6	—	—	—
MXQ8B	29	13.9	13.9	13.9	13.9	13.9	13.9	—	—	2	9.1	9.1	17.1	17.1	36.1	36.1	—	—
MXQ12B	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	—	24.1	18.1	18.1	25.1	25.1	31.1	50.1	50.1	—
MXQ16B	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	33	23	23	23	29	38	63	63	63
MXQ20B	32.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	30.9	31.9	31.9	31.9	44.9	44.9	46.9	69.9	69.9

Solid State Auto Switch: D-M9□V/M9□WV

(mm)

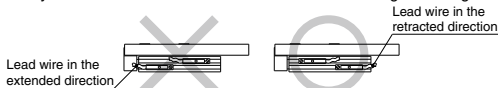
Model	A stroke									E stroke								
	10	20	30	40	50	75	100	125	150	10	20	30	40	50	75	100	125	150
MXQ6(A)	18	7.4	7.4	7.4	7.4	—	—	—	—	2	2.6	5.6	7.6	7.6	—	—	—	—
MXQ8(A,C)	13.9	13.9	13.9	13.9	13.9	13.9	—	—	—	7.1	7.1	7.1	13.1	30.1	7.1	—	—	—
MXQ12(A,C)	16.5	16.5	16.5	16.5	16.5	16.5	16.5	—	—	16.1	8.1	8.1	16.1	16.1	35.1	35.1	—	—
MXQ16(A)	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	—	22	16	16	23	23	29	48	48	—
MXQ20(A)	32.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	22.9	23.9	23.9	23.9	29.9	38.9	63.9	63.9	63.9
MXQ25(A)	34.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	30.7	29.7	29.7	29.7	42.7	42.7	28.7	67.7	67.7
MXQ6B	18	7.4	7.4	7.4	7.4	7.4	—	—	—	3	13.6	13.6	19.6	36.6	13.6	—	—	—
MXQ8B	29	13.9	13.9	13.9	13.9	13.9	13.9	—	—	4	11.1	11.1	19.1	19.1	38.1	38.1	—	—
MXQ12B	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	—	26.1	20.1	20.1	27.1	27.1	33.1	52.1	52.1	—
MXQ16B	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	35	25	25	25	31	39	65	65	65
MXQ20B	32.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	32.9	33.9	33.9	33.9	46.9	46.9	32.9	71.9	71.9

Auto Switch Mounting

⚠ Caution

■ Auto switch mounting direction

If the lead wire is positioned like the drawing on the left, the auto switch may malfunction. Mount the lead wire like the drawing on the right.



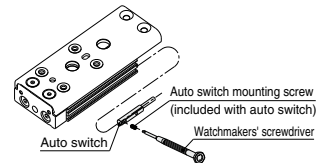
■ Auto switch mounting tool

When tightening the auto switch set screw (included with auto switch), use a watchmakers' 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-M9□V/M9□W(V)	0.05 to 0.15



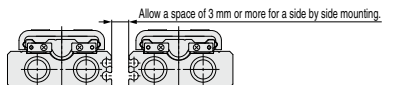
Operating Range

Auto switch model	Applicable bore size					
	6	8	12	16	20	25
D-M9□/M9□V/M9□W/M9□WV	2.5	2.5	3	4	4.5	5

* Values which include hysteresis are for guideline purposes only, they are not a guarantee (assuming approximately ±30% dispersion) and may change substantially depending on the ambient environment.

⚠ Caution

Allow a space of 3 mm or more if standard type and symmetric type are used side by side. Otherwise, the auto switch may malfunction.



Other than the applicable auto switches listed in "How to Order", the following auto switches can be mounted.

* Normally closed (NC = b contact) solid state auto switches (D-F9G/F9H) and solid state auto switch (D-F8) are also available.
Refer to the **WEB catalog** or Best Pneumatics No.3 for details.

Series MXQ Made to Order

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



1 PTFE Grease

Symbol

-X7

PTFE grease is used for all parts that grease is applied.

MXQ **Standard model no.** - X7

● PTFE grease

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 Equipment

Symbol

-X9

Grease for food is used for all parts that grease is applied.

MXQ **Standard model no.** - X9

● Grease for food

Caution

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

3 Long Adjustment Bolt (Longer adjustment range by 10 mm)

Symbol

-X11

Metal stopper with bumper, Rubber stopper: Stroke adjustment range is increased by 10 mm compared with the standard product by making the adjustment bolt longer. Shock absorber (RJ): Adjustment range becomes larger with the cap bracket mounted at the rod end of the shock absorber.

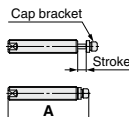
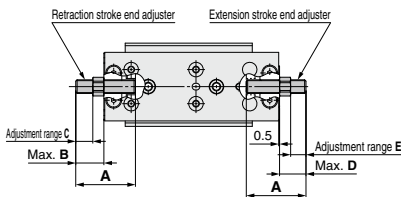
Note 1) Refer to the table below for the shock absorber unit applicable to "-X11".

Note 2) "-X11" is not available for the product with end lock. Please consult with SMC when a product with the 10 mm longer adjustment range is required.

MXQ	Standard model no.
	Standard adjuster model no.
	Standard adjustment bolt model no. Note 1)

- X11

● Long adjustment bolt (Longer adjustment range by 10 mm)



RJ□□□□-X2300

Cap bracket is mounted to lengthen the A dimension.

Metal Stopper with Bumper

(mm)

Applicable model	A	B	C	D	E
MXQ8(A,C)	—	40	25	20	23
MXQ12(A,C)	MXQ8B	45	27	20	26
MXQ16(A)	MXQ12B	50	28	20	27
MXQ20(A)	MXQ16B	57	31	20	30
MXQ25(A)	MXQ20B	64	32	21	31

"-X11" is not available for the MXQ6(A,B).

Rubber Stopper

(mm)

Applicable model	A	B	C	D	E
MXQ6(A)	—	41.5	27	22	25
MXQ8(A,C)	MXQ6B	41.5	27	21	25
MXQ12(A,C)	MXQ8B	46.5	28	21	27
MXQ16(A)	MXQ12B	51.5	30	21	28
MXQ20(A)	MXQ16B	58.5	32	22	31
MXQ25(A)	MXQ20B	65.5	34	22	33

Shock Absorber (RJ)

(mm)

Applicable model	A	B	C	D	E	Applicable shock absorber model
MXQ12(A,C)	MXQ8B	47.3	29	19	29	RJ0805U-X2300
MXQ16(A)	MXQ12B	52.8	31	19	30	RJ1006U-X2300
MXQ20(A)	MXQ16B	52.8	23	11	26	RJ1007HU-X2300
MXQ25(A)	MXQ20B	77.1	46	31	45	RJ1410U-X2300

"-X11" is not available for the MXQ6(A,B) and MXQ8(A,C).

Shape of the adjustment part varies (hexagonal hole, width across flats, slot) depending on the model of the adjuster or shock absorber. Refer to the full view of the standard product for details.

4

Long Adjustment Bolt (Longer adjustment range by 20 mm)

Symbol

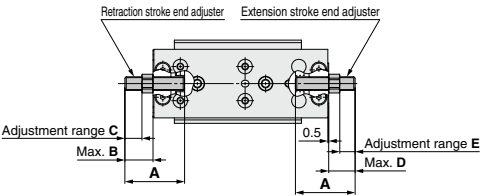
-X12

With bumper metal stopper, rubber stopper: Stroke adjustment range is increased by 20 mm compared with the standard product by making the adjustment bolt longer. For adjustment range, refer to the table below.

Note 1) “-X12” is not available for the shock absorber (RJ).
Note 2) “-X12” is not available for the product with end lock. Please consult with SMC when a product with the 20 mm longer adjustment range is required.

MXQ	Standard model no.	- X12
	Standard adjuster model no.	
	Standard adjustment bolt model no.	

● Long adjustment bolt (Longer adjustment range by 20 mm)



Metal Stopper with Bumper		(mm)					
Applicable model		A	B	C	D	E	
MXQ8(A,C)	—	50	35	30	33	28	
MXQ12(A,C)	MXQ8B	55	37	30	36	29	
MXQ16(A)	MXQ12B	60	38	30	37	28	
MXQ20(A)	MXQ16B	67	41	30	40	29	
MXQ25(A)	MXQ20B	74	42	31	41	30	

“-X12” is not available for the MXQ6(A,B).

Rubber Stopper		(mm)					
Applicable model		A	B	C	D	E	
MXQ6(A)	—	51.5	37	32	35	30	
MXQ8(A,C)	MXQ6B	51.5	37	31	35	29	
MXQ12(A,C)	MXQ8B	56.5	38	31	37	30	
MXQ16(A)	MXQ12B	61.5	40	31	38	30	
MXQ20(A)	MXQ16B	68.5	42	32	41	31	
MXQ25(A)	MXQ20B	75.5	44	32	43	31	

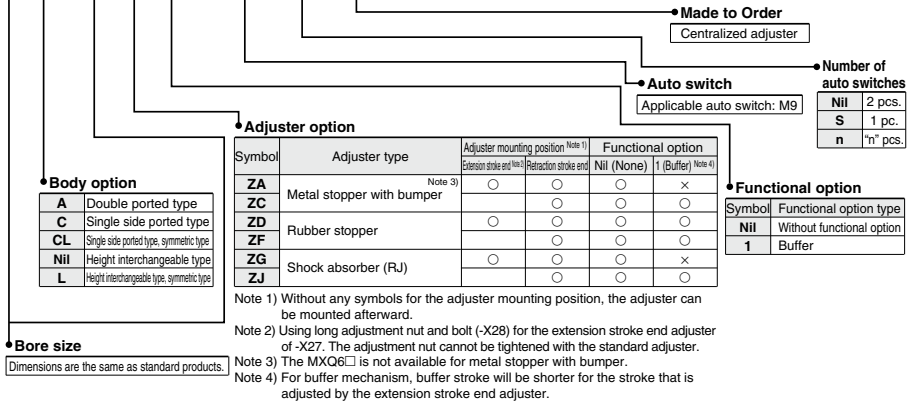
Shape of the adjustment part varies (hexagonal hole, width across flats, slot) depending on the model of the adjuster or shock absorber. Refer to the full view of the standard product for details.

Symbol
-X27

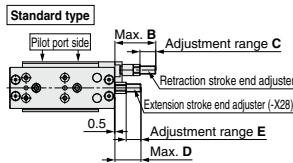
5 Centralized Adjuster

When a retraction stroke end adjuster with buffer mechanism is needed or when the standard model's retraction stroke end adjuster cannot be used, use the centralized adjuster specification (-X27).

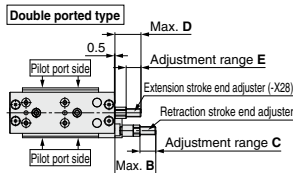
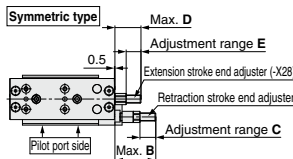
MXQ 12 A - 30 ZA 1 - M9BW S - X27



Single side ported type/Height interchangeable type



Single side ported type/Height interchangeable type



Metal Stopper with Bumper

Model	B	C	D	E	Adjuster model no. Note 1)		Adjustment bolt model no. Note 2)	
					Extension stroke end	Retraction stroke end	Extension stroke end	Retraction stroke end
MXQ8(A,C)-□-X27	34	15	23	13	MXQA-CT8-X28	MXQA-CT8	MXQA-A887-X11	MXQA-A887
MXQ12(A,C)-□-X27	41	16	26	14	MXQA-CT12-X28	MXQA-CT12	MXQA-A1287-X11	MXQA-A1287
MXQ16(A)-□-X27	47	17	27	13	MXQA-CT16-X28	MXQA-CT16	MXQA-A1687-X11	MXQA-A1687
MXQ20(A)-□-X27	54	17	30	16	MXQA-CT20-X28	MXQA-CT20	MXQA-A2087-X11	MXQA-A2087
MXQ25(A)-□-X27	64	19	31	13	MXQA-CT25-X28	MXQA-CT25	MXQA-A2587-X11	MXQA-A2587

Rubber Stopper

Model	B	C	D	E	Adjuster model no. Note 1)		Adjustment bolt model no. Note 2)	
					Extension stroke end	Retraction stroke end	Extension stroke end	Retraction stroke end
MXQ6(A)-□-X27	36	16	25	15	MXQA-AT8-X28	MXQA-AT8	MXQA-A827-X11	MXQA-A827
MXQ8(A,C)-□-X27	35	16	25	14	MXQA-AT12-X28	MXQA-AT12	MXQA-A1227-X11	MXQA-A1227
MXQ12(A,C)-□-X27	43	18	27	16	MXQA-AT16-X28	MXQA-AT16	MXQA-A1627-X11	MXQA-A1627
MXQ16(A)-□-X27	48	19	28	15	MXQA-AT20-X28	MXQA-AT20	MXQA-A2027-X11	MXQA-A2027
MXQ20(A)-□-X27	56	19	31	18	MXQA-AT25-X28	MXQA-AT25	MXQA-A2527-X11	MXQA-A2527
MXQ25(A)-□-X27	66	20	33	14				

Shock Absorber (RJ)

Model	B	C	D	E	Adjuster model no. Note 1)		Shock absorber model no. Note 2)	
					Extension stroke end	Retraction stroke end	Extension stroke end	Retraction stroke end
MXQ6(A)-□-X27	34	9	13	1	MXQA-JT8-X28	MXQA-JT8	RJ0603N	RJ0603N
MXQ8(A,C)-□-X27	34	9	13	1	MXQA-JT12-X28	MXQA-JT12	RJ0805U-X2300	RJ0805N
MXQ12(A,C)-□-X27	46	16	28	11	MXQA-JT16-X28	MXQA-JT16	RJ1006U-X2300	RJ1006N
MXQ16(A)-□-X27	52	15	30	8	MXQA-JT20-X28	MXQA-JT20	RJ1007HU-X2300	RJ1007HN
MXQ20(A)-□-X27	53	10	26	4	MXQA-JT25-X28	MXQA-JT25	RJ1410U-X2300	RJ1410N
MXQ25(A)-□-X27	78	23	45	17				

Note 1) Adjuster part number is for a set of an adjustment bolt (shock absorber) and a nut. This is used to add an adjuster later.

Note 2) This part number is only for a single unit of the adjustment bolt (shock absorber) without a nut. This is used as a spare part when the adjustment bolt is worn.

Shape of the adjustment part varies (hexagonal hole, width across flats, slot) depending on the model of the adjuster or shock absorber. Refer to the full view of the standard product for details.

6 Long Adjustment Nut and Bolt

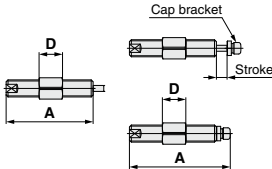
Symbol
-X28

Easier stroke adjustment with the longer overall lengths of the adjustment nut, adjustment bolt and shock absorber. This is used for the extension stroke end adjuster of the end lock mechanism and the extension stroke end adjuster of the centralized adjuster specification (-X27).

MXQ Standard adjuster model no. - X28

Long adjustment nut and bolt

Metal Stopper with Bumper



RJ□□□□-X2300

Cap bracket is mounted to lengthen the A dimension.

Applicable model	Adjuster model no.	Note 1)		Adjustment bolt model no.
		Nut total length	Bolt total length	
MXQ8(A,C)	—	D	A	MXQA-A887-X11
MXQ12(A,C)	—	D	A	MXQA-A1287-X11
MXQ16(A)	—	D	A	MXQA-A1687-X11
MXQ20(A)	—	D	A	MXQA-A2087-X11
MXQ25(A)	—	D	A	MXQA-A2587-X11
—	MXQ8B	D	A	MXQB-A887-X11
—	MXQ12B	D	A	MXQB-A1287-X11
—	MXQ16B	D	A	MXQB-A1687-X11
—	MXQ20B	D	A	MXQB-A2087-X11

Not available for the MXQ6(A,B).

Rubber Stopper

Applicable model	Adjuster model no.	Note 1)		Adjustment bolt model no.
		Nut total length	Bolt total length	
MXQ6(A), MXQ8(A,C)	MXQ6B	D	A	MXQA-A827-X11
MXQ12(A,C)	MXQ8B	D	A	MXQA-A1227-X11
MXQ16(A)	MXQ12B	D	A	MXQA-A1627-X11
MXQ20(A)	MXQ16B	D	A	MXQA-A2027-X11
MXQ25(A)	MXQ20B	D	A	MXQA-A2527-X11

Shock Absorber (RJ)

Applicable model	Adjuster model no.	Note 1)		Adjustment bolt model no.
		Nut total length	Shock absorber total length	
MXQ6(A), MXQ8(A,C)	MXQ6B	D	A	RJ0603N
MXQ12(A,C)	MXQ8B	D	A	RJ0805U-X2300
MXQ16(A)	MXQ12B	D	A	RJ1006U-X2300
MXQ20(A)	MXQ16B	D	A	RJ1007HU-X2300
MXQ25(A)	MXQ20B	D	A	RJ1410U-X2300

Note 1) Adjuster part number is for a set of an adjustment bolt (shock absorber) and a nut.

Note 2) This part number is only for a single unit of the adjustment bolt (shock absorber) without a nut. This is used as a spare part when the adjustment bolt is worn.

Shape of the adjustment part varies (hexagonal hole, width across flats, slot) depending on the model of the adjuster or shock absorber. Refer to the full view of the standard product for details.

7 Without Built-in Auto Switch Magnet

Symbol
-X33

This product does not have a magnet for an auto switch. It is suitable for applications where magnetic force is not acceptable.

MXQ Standard model no. - X33

Without built-in auto switch magnet

Specifications

Bore size (mm)	6, 8, 12, 16, 20, 25
Auto switch	Not mountable

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

8 Fluororubber Seal

Symbol
-X39

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

MXQ Standard model no. - X39

Fluororubber seal

Specifications

Bore size (mm)	6, 8, 12, 16, 20, 25
Seal material	Fluororubber

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

9 Anti-corrosive Guide Unit

Symbol
-X42

Martensitic stainless steel is used for table and guide block. Use this treatment if more effective anti-corrosiveness is necessary. Table and guide block are given anti-corrosive treatment.

MXQ Standard model no. - X42

● Anti-corrosive guide unit

Specifications

Bore size (mm)	6, 8, 12, 16, 20, 25
Surface treatment	Special anti-corrosive treatment*2

*1 Specifications other than above are the same as those for standard models.
*2 Special anti-corrosive treatment makes the table and the guide block black.

10 EPDM Seal

Symbol
-X45

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

MXQ Standard model no. - X45

● EPDM seal

Specifications

Bore size (mm)	6, 8, 12, 16, 20, 25
Seal material	EPDM
Grease	PTFE grease

* Dimensions other than the above is the same as those for 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.

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2
CQS

Lube-
retainer

JA

MXH

MXQ

MGP

C□Y
C□X

CK□1

C(L)K□

C(L)KU

CKQ

CK2ZN

WRF

Series MXQ

Model Selection

Guideline for Model Selection 1

Model selection criteria	Body type	Bore size	Dimensions (mm)			Weight (g) (Compared at 50 stroke)	Thrust (N) (0.5 MPa, OUT direction)	Allowable moment (N·m) (Compared at 50 stroke)		
			Height	Width	Table width			Pitch	Yaw	Roll
Air Slide Table without preset piping directions. The piping direction can be set when mounting to application. * ø16, ø20, ø25: Standard type, Low thrust with high rigidity type (excluding ø25): Double piping direction type	Double ported (MXQ□A)	ø6	23	34	32	210	29	6	6	13
		ø8	23	38	32	270	51	10	10	18
		ø12	27	49	40	400	113	10	10	19
		ø16	35	62	50	670	201	16	16	33
		ø20	43	72	60	1,100	314	21	21	49
		ø25	52	88	70	1,900	491	41	41	82
Application which requires more guide rigidity than thrust	Low thrust with high rigidity type (MXQ□B)	ø6	20	34	32	230	29	10	10	18
		ø8	23	42	40	330	51	10	10	19
		ø12	30	52	50	580	113	16	16	33
		ø16	37	70	60	920	201	21	21	49
		ø20	46	80	70	1,600	314	41	41	82
●When lower height is required ●When two indicator LEDs need to be observed on one side (including short stroke)	Single side ported type (MXQ□C)	ø8	21	38	32	260	51	10	10	18
		ø12	27	49	40	400	113	10	10	19
To replace with the current type. Mounting dimensions and height are interchangeable.	Height interchangeable type (MXQ□)	ø6	20	34	32	190	29	6	6	13
		ø8	23	38	32	310	51	10	10	18
		ø12	30	49	40	430	113	10	10	19
		ø16	37	62	50	690	201	16	16	33
		ø20	46	72	60	1,100	314	21	21	49
		ø25	55	88	70	1,900	491	41	41	82

Guideline for Model Selection 2

Model Variations

Guide size (Width)	Double ported type MXQ□A		Low thrust with high rigidity type MXQ□B			Single side ported type MXQ□C			Height interchangeable type MXQ□		
	Bore size		Bore size	Standard type	Symmetric type (L)	Bore size	Standard type	Symmetric type (L)	Bore size	Standard type	Symmetric type (L)
Note) 32(1)	ø6		—	—	—	—	—	—	ø6		
32(2)	ø8		ø6			ø8			ø8		
40	ø12		ø8			ø12			ø12		
50	ø16		ø12			—	—	—	ø16		
60	ø20		ø16			—	—	—	ø20		
70	ø25		ø20			—	—	—	ø25		

Note) There are two rigidity types of actuator tables for width 32.

Selection Conditions

There are two model selection methods according to the usage. Model selection procedure is shown below.

Model selection procedure shown below is for when an MXQ is mounted onto a static table. When using the product mounted to a rodless cylinder, etc., it is necessary to perform model selection in another method as the product can be influenced by the impact at the bellows cylinder operation stoppage. For details, refer to the model selection software at SMC's website.

Application	Transfer				Pressing	
	Table mounting		End plate mounting		Table mounting	End plate mounting
Workpiece mounting position Overhang						
	L1: Distance from the center of the table to the center of gravity of the workpiece L2: Distance from the top surface of the table to the center of gravity of the workpiece L3: Distance from the end of the body to the center of gravity of the workpiece in Z direction				L1: Distance from the center of the table to the pressing part L2: Distance from the center of the table to the pressing part	
Stroke adjuster	Without adjuster	Metal stopper with bumper	Rubber stopper	Shock absorber (RJ)		
Selection graph	Double ported type	Page 970	Page 976	Page 981	Page 987	Page 993
	Single side ported type Height interchangeable type Low thrust with high rigidity type	Page 973	Page 979	Page 984	Page 990	Page 994

For Transfer

Model Selection Step

1 Necessary conditions

- Equipment to be used
- Load weight
- Overhang
- Average speed
- Adjuster type

2 Select a graph.

Select the applicable graph (page on and after 970) with the body configuration and stroke adjuster type.

3 Determine the overhang.

Determine the overhang at the workpiece mounting positions L1, L2 and L3
 * Positional relationships among L1, L2 and L3 do not change regardless of the body mounting direction.

4 Check the overhang.

- Check the overhang, L1max, L2max, L3max during transfer
- L1max: Check the overhang from the cross point of the work load and driving speed.
- L2max: a: When mounted to the table
Check the allowable overhang from the cross point of the work load and driving speed.
b: When mounted to the end plate
Allowable overhang is found by multiplying the allowable overhang by 1/2 (coefficient No.4).
- L3max: Can be used within the range of the "Allowable overhang range" in the selection graph if it is within the allowable range of the load weight and driving speed.

(Note) Coefficient varies depending on the model and stroke. Refer to page 967 for details.

5 Overhang as the operating condition

The product can be used with the overhang required as the operating condition (L1, L2, L3 of No.3) if it is within the allowable range of overhang (L1max, L2max, L3max of No.4) that is selected.

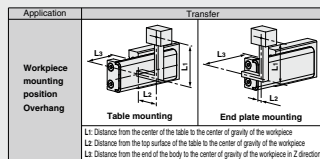
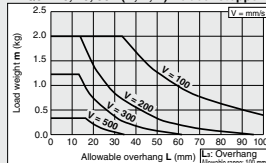
* When the required overhang exceeds the allowable overhang, review the overhang, load weight, driving speed, etc., and reconfirm that the product operates normally.

Precautions for Metal Stopper with Bumper

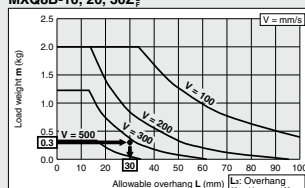
When a metal stopper with bumper is used in a vertical position, thrust larger than "the operating load weight + full compression force of metal stopper with bumper" is required. This needs to be considered when adjusting the operating pressure and selecting the cylinder size.

* The metal stopper with bumper may not be fully compressed due to lack of thrust.

MXQ8B-10, 20, 30Z (D, E, F) Rubber stopper



MXQ8B-10, 20, 30Z (D, E, F) Rubber stopper



Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2
CQS

Lube-
retainer

JA

MXH

MXQ

MGP

C□Y
C□X

CK□1

C(L)□

C(L)KU

CKQ

CK2ZN

WRF

INDEX

For Pressing

Model Selection Step

1 Necessary conditions

- Equipment to be used
- Required pressing force or operating pressure
- Overhang

2 Select a graph.

Select the applicable graph for body configuration (page on and after 993).

3 Determine the overhang.

Determine the overhang L1, L2.

- » Positional relationships among L1, L2 do not change regardless of the body mounting direction.

4 Check the overhang.

Confirm the allowable pressing force Nmax with the overhang.

Nmax: ① When mounted to the table

Determine the allowable pressing force with the cross point of the overhang L1 and L2.

② When mounted to the end plate

Allowable overhang is found by multiplying the allowable pressing force by 1/2 (coefficient Note).

Note) Coefficient varies depending on the model and stroke. Refer to below for details.

5 Allowable pressing force in the operating condition

It is acceptable if the required pressing force is smaller than the allowable pressing force.

- » When the required pressing force is larger than the allowable pressing force, reexamine the operating pressing force or operating pressure, and overhang, etc., and confirm if they are acceptable again.

6 Check the allowable supply pressure.

Allowable supply pressure can be confirmed with the selection graph.

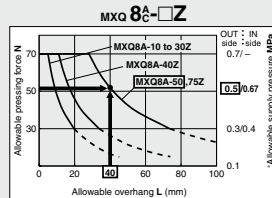
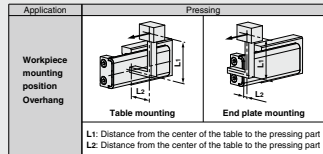
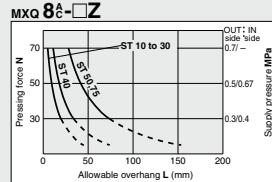
Note) Allowable pressing force coefficient used to calculate the allowable overhang of the models shown below is 1/4.

Model	Stroke
MXQ8(A,C)	50, 75
MXQ12(A,C)	75, 100
MXQ16(A)	100, 125
MXQ20(A)	100, 125, 150
MXQ25(A)	125, 150
MXQ6B	50, 75
MXQ8B	75, 100
MXQ12B	100, 125
MXQ16B	100, 125, 150
MXQ20B	125, 150

Precautions for Metal Stopper with Bumper

When a metal stopper with bumper is used in a vertical position, thrust larger than "the operating load weight + full compression force of metal stopper with bumper" is required. This needs to be considered when adjusting the operating pressure and selecting the cylinder size.

- » The metal stopper with bumper may not be fully compressed due to lack of thrust.



» Allowable supply pressure on OUT side and IN side is the theoretical output of cylinder when pressing force is required.

Selection Example 1 (Transfer, Table Mounting)

Selection conditions

Selected model: **MXQ8B-30Z(D, E, F)**

Maximum load weight: 0.3 kg

Average operating speed: 300 mm/s

Note) Average operating speed: Speed calculated by dividing the stroke by the time from starting operation until reaching the end.

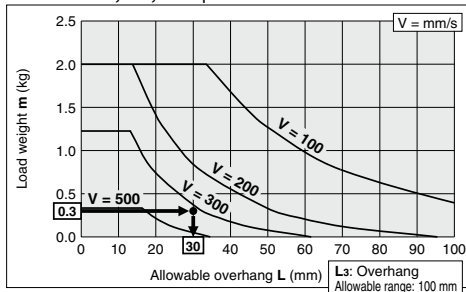
Overhang: **L1 = 20, L2 = 20, L3 = 50**

Stroke adjuster: Rubber stopper

Selection method

- Find the **L1, L2, L3** Upper limit of the overhang from the selection graph.
L1, L2: Use the graph to find the **L** when the speed is 300 mm/s and load weight $m = 0.3$ kg. **L = 30 mm** → **L1, L2** Upper limit of the overhang = 30 mm
L3: Check the allowable overhang range shown at the right bottom of the graph. **L3** Upper limit of the overhang = 100 mm
- Confirm that **L1, L2, L3** are lower than the upper limit of the overhang.
L1 = 20 mm and **L2 = 20 mm** OK (**L1, L2** Upper limit of the overhang = 30 mm), **L3 = 50 mm** OK (**L3** Upper limit of the overhang = 100 mm)
 Therefore, the **MXQ8B-30Z(D, E, F)** can be used.

MXQ8B-10, 20, 30Z^D



Selection Example 2 (Transfer, End Plate Mounting)

Selection conditions

Selected model: **MXQ8B-30Z(D, E, F)**

Maximum load weight: 0.3 kg

Average operating speed: 300 mm/s

Note) Average operating speed: Speed calculated by dividing the stroke by the time from starting operation until reaching the end.

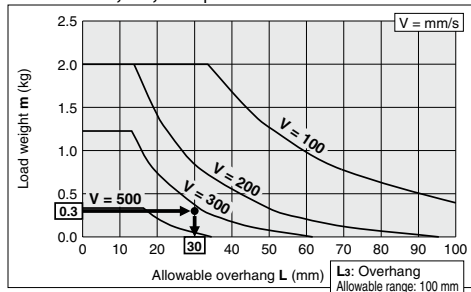
Overhang: **L1 = 20, L2 = 10, L3 = 50**

Stroke adjuster: Rubber stopper

Selection method

- Find the **L1, L2, L3** Upper limit of the overhang from the selection graph.
L1: Use the graph to find the **L** when the speed is 300 mm/s and load weight $m = 0.3$ kg. **L = 30 mm** → **L1** Upper limit of the overhang = 30 mm
L2: Use the graph to find the **L** when the speed is 300 mm/s and load weight $m = 0.3$ kg and multiply it by 1/2.
L = 30 mm → **L2** Upper limit of the overhang = $30 \text{ mm} / 2 = 15 \text{ mm}$
 Note) For end plate mounting, **L2** is 1/2 of the **L** which is found from the graph.
L3: Confirm that this value is lower than the upper limit of the overhang shown at the right bottom of the graph. **L3** Upper limit of the overhang = 100 mm
- Confirm that **L1, L2, L3** are lower than the upper limit of the overhang.
L1 = 20 mm OK (**L1** Upper limit of the overhang = 30 mm)
L2 = 10 mm OK (**L2** Upper limit of the overhang = 15 mm)
L3 = 50 mm OK (**L3** Upper limit of the overhang = 100 mm)
 Therefore, the **MXQ8B-30Z(D, E, F)** can be used.

MXQ8B-10, 20, 30Z^D



Selection Example 3 (Pressing, Table Mounting)

Selection conditions

Selected model: **MXQ8A-50Z**

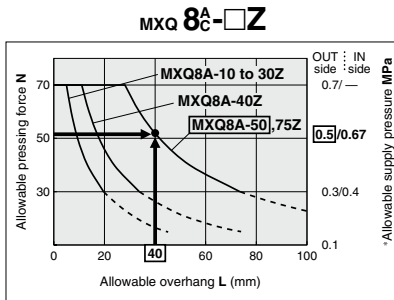
Operating direction: OUT

Operating pressure: 0.5 MPa (Pressing force: 50 N)

Overhang: **L1 = 20, L2 = 30**

Selection method

- Find the **L1, L2** Upper limit of the overhang from the selection graph.
Find the **L** at the operating pressure of 0.5 MPa from the graph.
L1, L2 Upper limit of the overhang = 40 mm
- Confirm that **L1, L2** are lower than the upper limit of the overhang.
L1 = 20 mm and **L2 = 30 mm** OK (**L1, L2** Upper limit of the overhang = 40 mm)
Therefore, the **MXQ8A-50** can be used with the supply pressure at 0.5 MPa.



* Allowable supply pressure on OUT side and IN side is the theoretical output of cylinder when pressing force is required.

Selection Example 4 (Pressing, End Plate Mounting)

Selection conditions

Selected model: **MXQ8A-50Z**

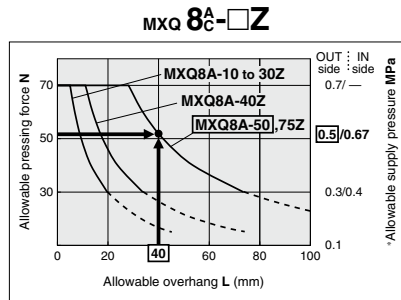
Operating direction: OUT

Operating pressure: 0.5 MPa (Pressing force: 50 N)

Overhang: **L1 = 20, L2 = 10**

Selection method

- Find the **L1, L2** Upper limit of the overhang from the selection graph.
L1: Find the **L** at the operating pressure of 0.5 MPa from the graph.
L1 Upper limit of the overhang = 40 mm
L2: Find the **L** at the operating pressure of 0.5 MPa from the graph, and multiply it by 1/2. **L2** Upper limit of the overhang = 20 mm
(Note) For end plate mounting, **L2** is 1/2 of the **L** which is found from the graph.
- Confirm that **L1, L2** are lower than the upper limit of the overhang.
L1 = 20 mm OK (**L1** Upper limit of the overhang = 40 mm)
L2 = 10 mm OK (**L2** Upper limit of the overhang = 20 mm)
Therefore, the **MXQ8A-50** can be used.



* Allowable supply pressure on OUT side and IN side is the theoretical output of cylinder when pressing force is required.

⚠ Caution

1. Operate loads within the range of the operating limits.

Select the model according to the model selection step.

If the product is used outside of the operating limit, the product may have adverse effects such as creating play at the guide, degraded accuracy and shortened product life.

2. If intermediate stop by external stopper is done, avoid ejection when restarting.

If lurching occurs, damage can result. In the case slide table is stopped at intermediate positions by the external stopper then forwarded to the front, after slide table is returned to the back for just a moment to retract the stopper, supply pressure to the opposite port to operate slide table.

3. Do not use it in such a way that excessive external force or impact force could work on it.

Malfunction or the damage of the table can result.

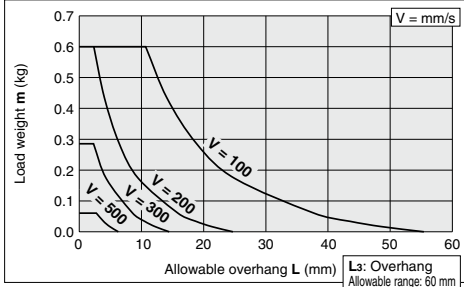
Although the table has adequate strength, if it is damaged, protect your hands with gloves. Otherwise, it may cause injury.

MXQ **6A-□Z**, MXQ **6-□Z** (Height interchangeable type)
 MXQ **8^AC-□Z**, MXQ **8-□Z** (Height interchangeable type)

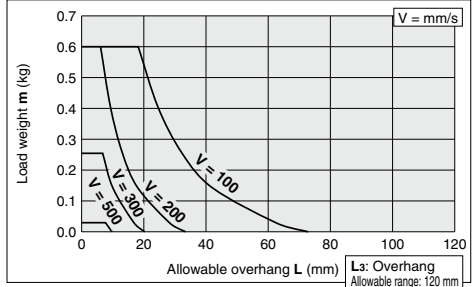
For Transfer/
Without Adjuster

Determine the overhang. (Refer to page 966 for details.)
 L₁, L₂: Check from the cross point of the load weight and driving speed.
 L₃: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

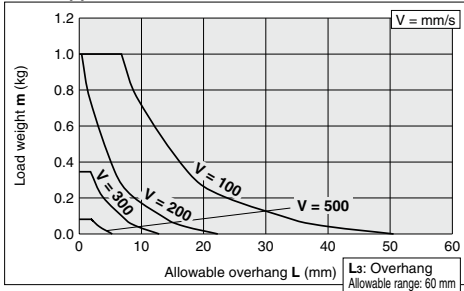
MXQ6(A)-10, 20Z



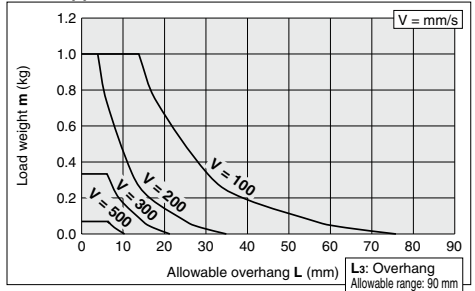
MXQ6(A)-30, 40, 50Z



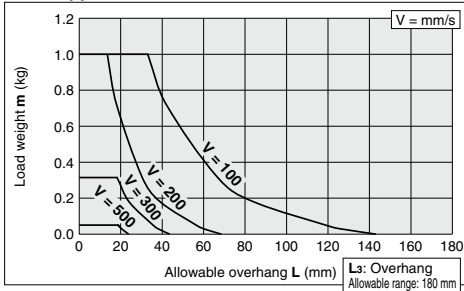
MXQ8(ε)-10, 20, 30Z



MXQ8(ε)-40Z



MXQ8(ε)-50, 75Z



Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-
retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)K□

C(L)KU

CKQ

CKZ2N

WRF

Series MXQ

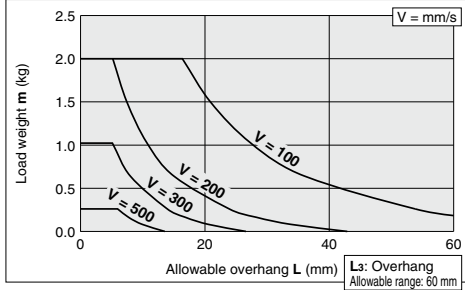
MXQ 12^A_C-□Z, MXQ 12-□Z (Height interchangeable type)

MXQ 16A-□Z, MXQ 16-□Z (Height interchangeable type)

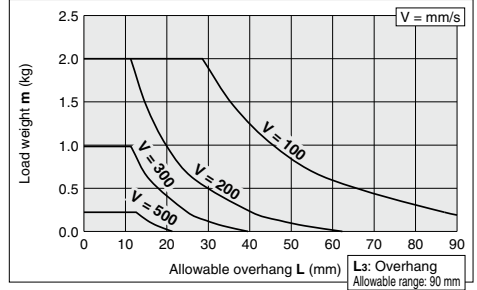
For Transfer/
Without Adjuster

Determine the overhang. (Refer to page 966 for details.)
L1, L2: Check from the cross point of the load weight and driving speed.
L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

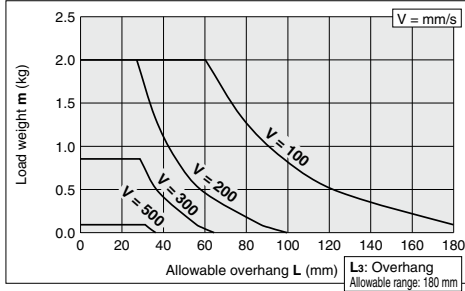
MXQ12(ε)-10, 20, 30Z



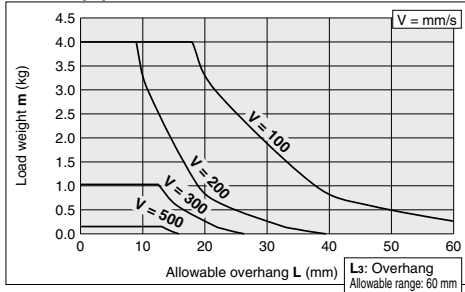
MXQ12(ε)-40, 50Z



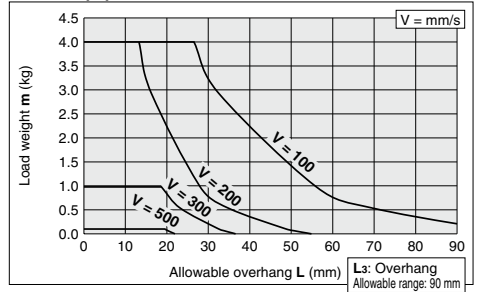
MXQ12(ε)-75, 100Z



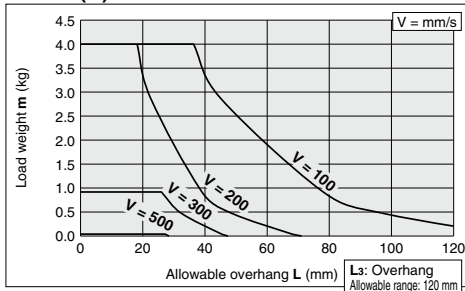
MXQ16(A)-10, 20, 30Z



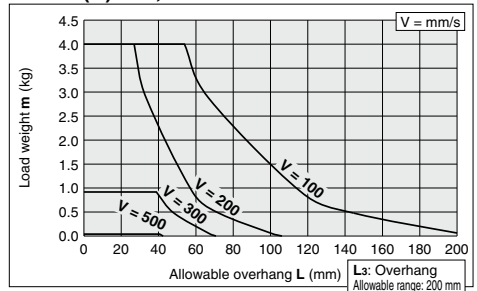
MXQ16(A)-40, 50Z



MXQ16(A)-75Z



MXQ16(A)-100, 125Z

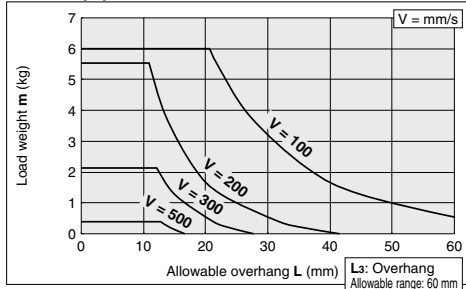


MXQ **20A-□Z**, MXQ **20-□Z** (Height interchangeable type)
 MXQ **25A-□Z**, MXQ **25-□Z** (Height interchangeable type)

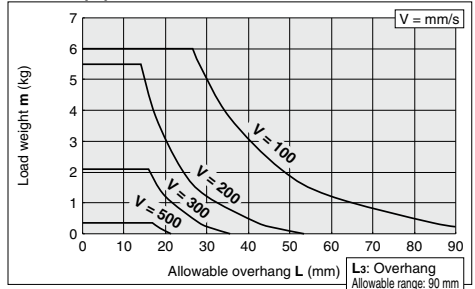
For Transfer/
Without Adjuster

Determine the overhang. (Refer to page 966 for details.)
 L1, L2: Check from the cross point of the load weight and driving speed.
 L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

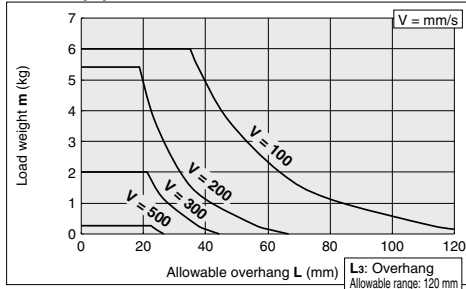
MXQ20(A)-10, 20, 30, 40Z



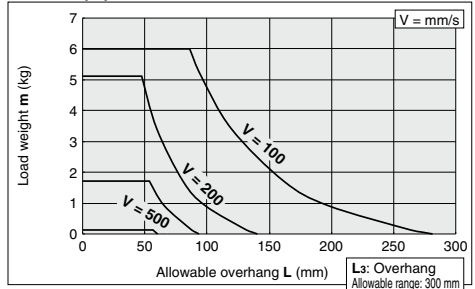
MXQ20(A)-50Z



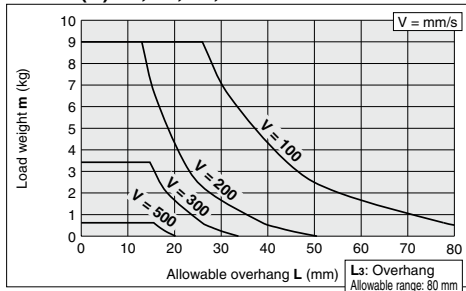
MXQ20(A)-75Z



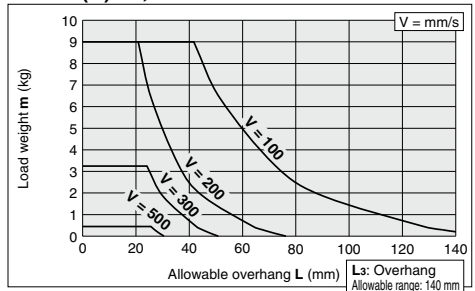
MXQ20(A)-100, 150Z



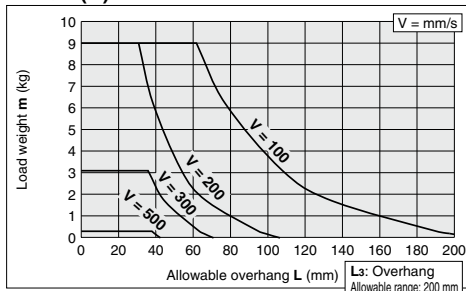
MXQ25(A)-10, 20, 30, 40Z



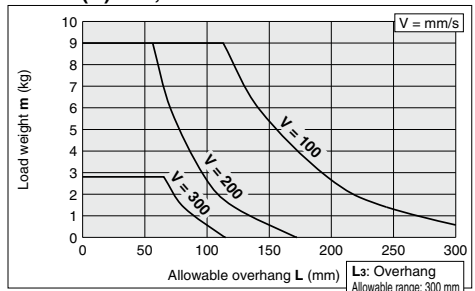
MXQ25(A)-50, 75Z



MXQ25(A)-100Z



MXQ25(A)-125, 150Z



Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)K□

C(L)KU

CKQ

CK2ZN

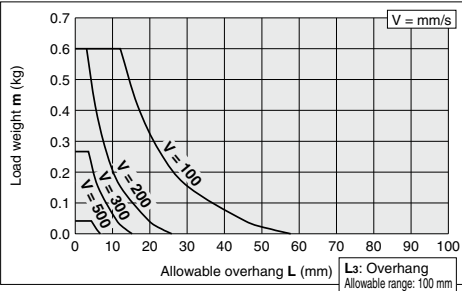
WRF

INDEX

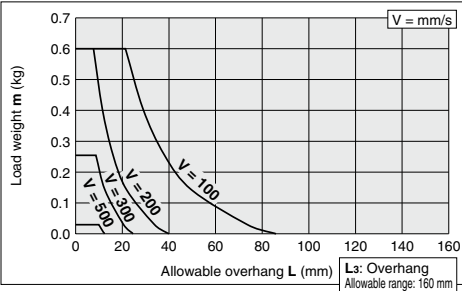
MXQ 6B-□Z/For Transfer/Without Adjuster

Determine the overhang. (Refer to page 966 for details.)
L1, L2: Check from the cross point of the load weight and driving speed.
L3: Can be used within the "Allowable overhang range"
in the selection graph if the load weight and driving
speed values are within the allowable range.

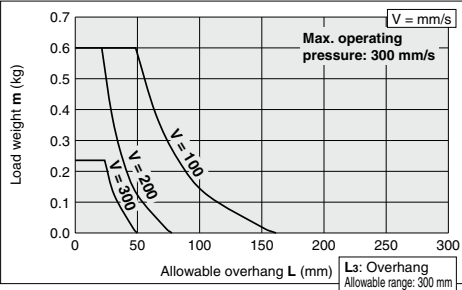
MXQ6B-10, 20, 30Z



MXQ6B-40Z



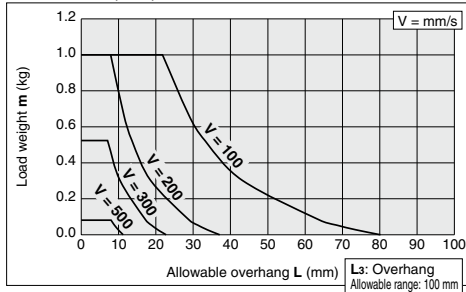
MXQ6B-50, 75Z



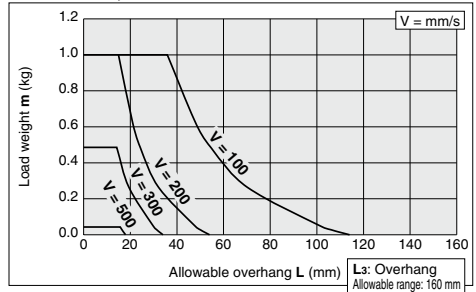
Determine the overhang. (Refer to page 966 for details.)
 L₁, L₂: Check from the cross point of the load weight and driving speed.
 L₃: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

MXQ 8B-□Z, MXQ 12B-□Z / For Transfer/ Without Adjuster

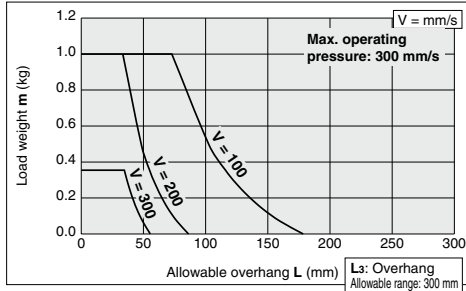
MXQ8B-10, 20, 30Z



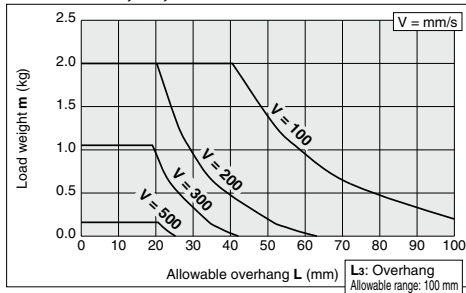
MXQ8B-40, 50Z



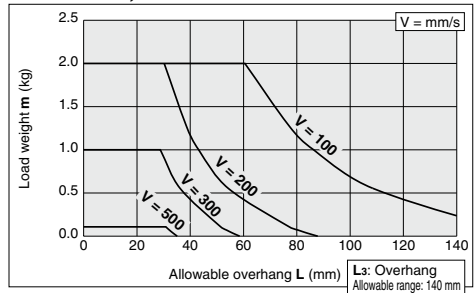
MXQ8B-75, 100Z



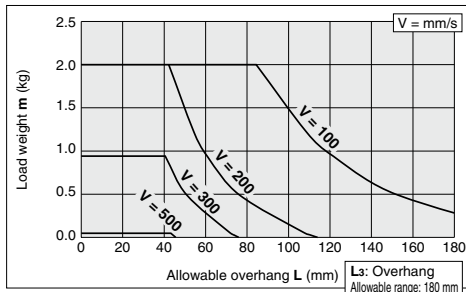
MXQ12B-10, 20, 30Z



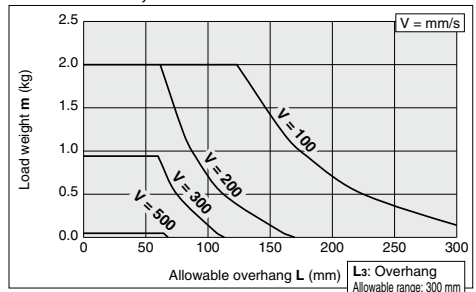
MXQ12B-40, 50Z



MXQ12B-75Z



MXQ12B-100, 125Z



Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)K□

C(L)KU

CKQ

CK2ZN

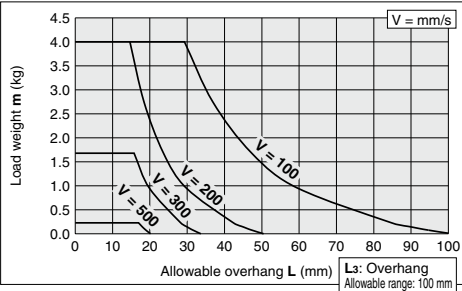
WRF

INDEX

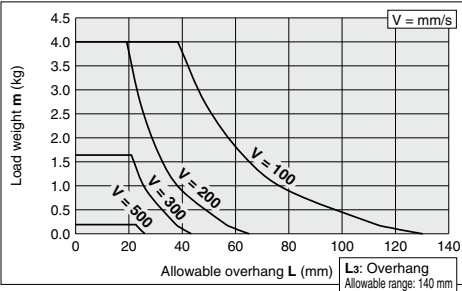
Determine the overhang. (Refer to page 966 for details.)
L1, L2: Check from the cross point of the load weight and driving speed.
L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

MXQ 16B-□Z, MXQ 20B-□Z / For Transfer/
Without Adjuster

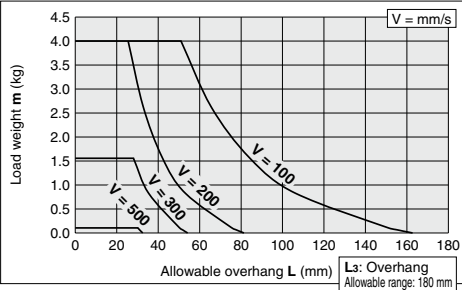
MXQ16B-10, 20, 30, 40Z



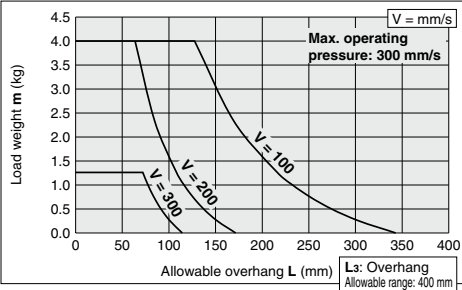
MXQ16B-50Z



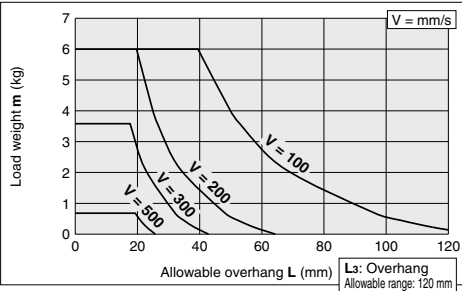
MXQ16B-75Z



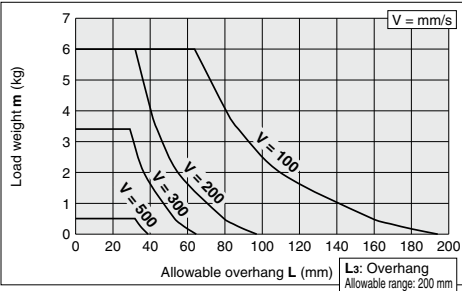
MXQ16B-100, 150Z



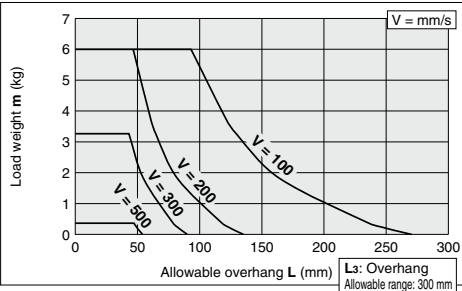
MXQ20B-10, 20, 30, 40Z



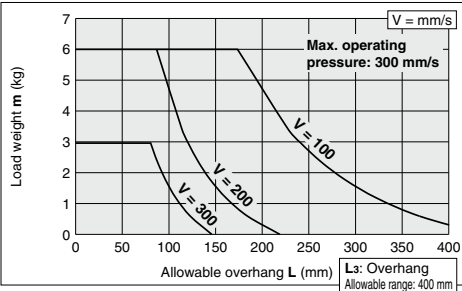
MXQ20B-50, 75Z



MXQ20B-100Z



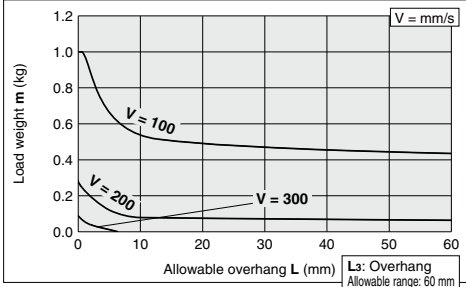
MXQ20B-125, 150Z



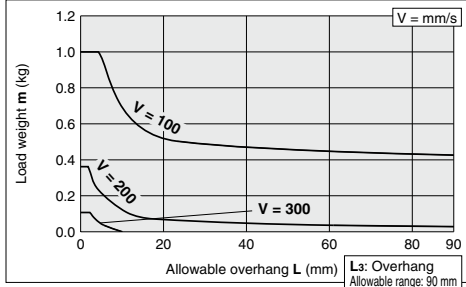
Determine the overhang. (Refer to page 966 for details.)
L1, L2: Check from the cross point of the load weight and driving speed.
L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

**MXQ 8^A_C-□Z^A_B_C, MXQ 8-□Z^A_B_C (Height interchangeable type) / For Transfer/
Metal Stopper with Bumper**

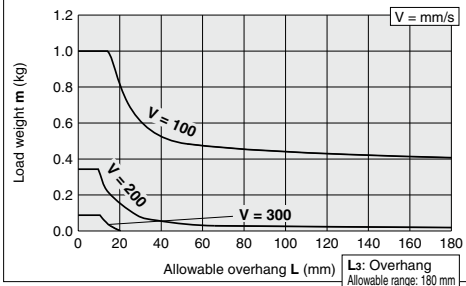
MXQ8(ε)-10, 20, 30Z^A_B_C



MXQ8(ε)-40Z^A_B_C



MXQ8(ε)-50, 75Z^A_B_C



- Air Cylinders
- CJ2
- CM2
- CG1
- MB
- CA2
- CQ2
- CQS
- Lube-retainer
- JA
- MXH
- MXQ**
- MGP
- C□Y
- C□X
- CK□1
- C(L)K□
- C(L)KU
- CKQ
- CKZ2N
- WRF

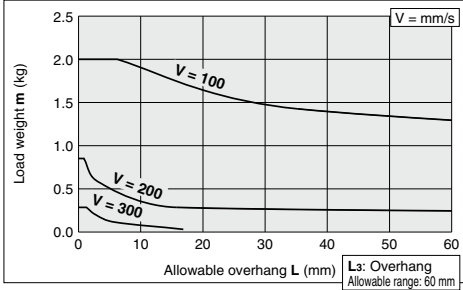
Series MXQ

MXQ 12^A_C-□Z^A_B_C, MXQ 12-□Z^A_B_C (Height interchangeable type)
 MXQ 16A-□Z^A_B_C, MXQ 16-□Z^A_B_C (Height interchangeable type)

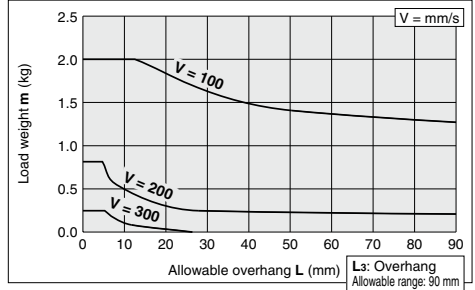
For Transfer/
Metal Stopper with Bumper

Determine the overhang. (Refer to page 966 for details.)
 L1, L2: Check from the cross point of the load weight and driving speed.
 L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

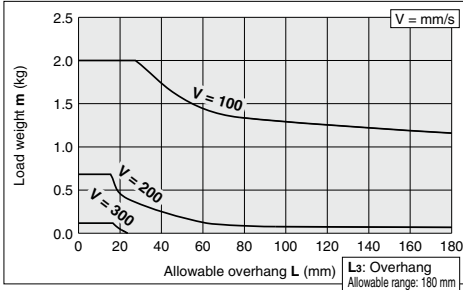
MXQ12(ε)-10, 20, 30Z^A_B_C



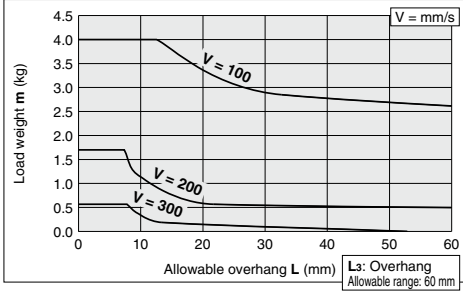
MXQ12(ε)-40, 50Z^A_B_C



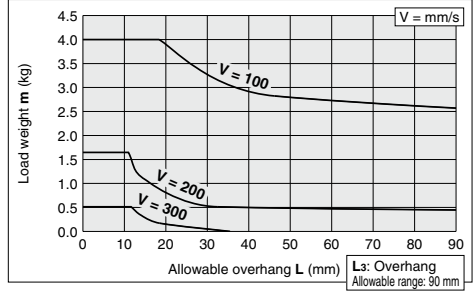
MXQ12(ε)-75, 100Z^A_B_C



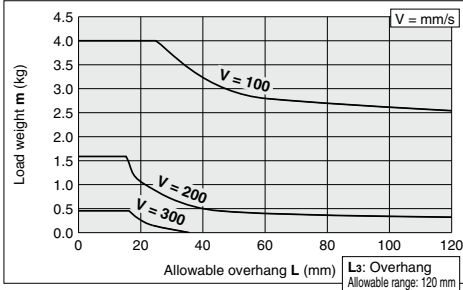
MXQ16(A)-10, 20, 30Z^A_B_C



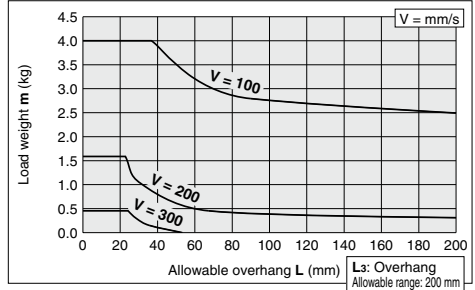
MXQ16(A)-40, 50Z^A_B_C



MXQ16(A)-75Z^A_B_C



MXQ16(A)-100, 125Z^A_B_C

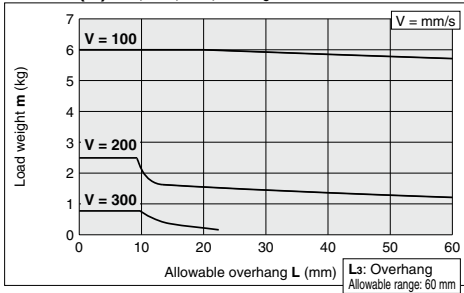


MXQ 20A-□Z^A_{BC}, MXQ 20-□Z^A_{BC} (Height interchangeable type)
 MXQ 25A-□Z^A_{BC}, MXQ 25-□Z^A_{BC} (Height interchangeable type)

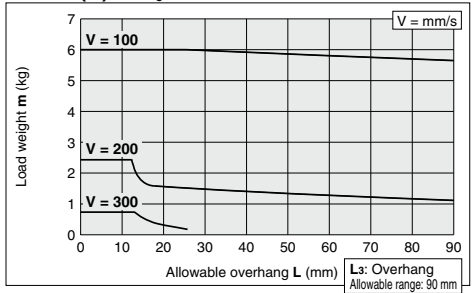
For Transfer/
Metal Stopper with Bumper

Determine the overhang. (Refer to page 966 for details.)
 L₁, L₂: Check from the cross point of the load weight and driving speed.
 L₃: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

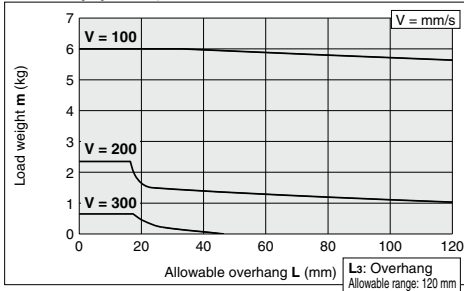
MXQ20(A)-10, 20, 30, 40Z^A_C



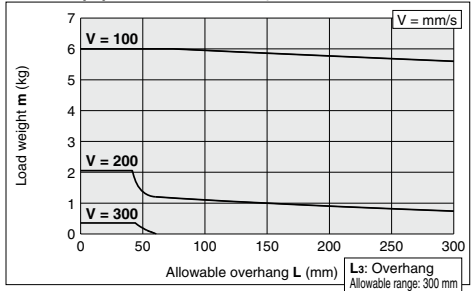
MXQ20(A)-50Z^A_C



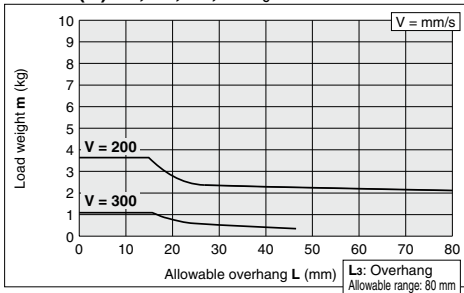
MXQ20(A)-75Z^A_C



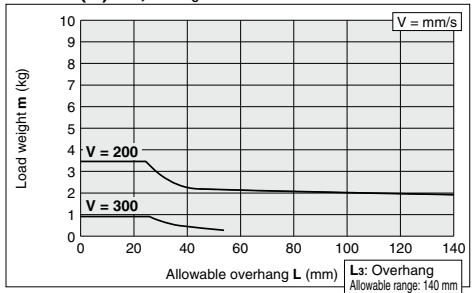
MXQ20(A)-100, 125, 150Z^A_C



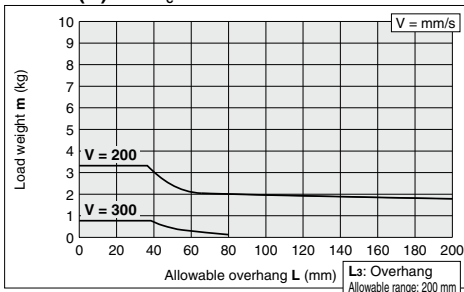
MXQ25(A)-10, 20, 30, 40Z^A_C



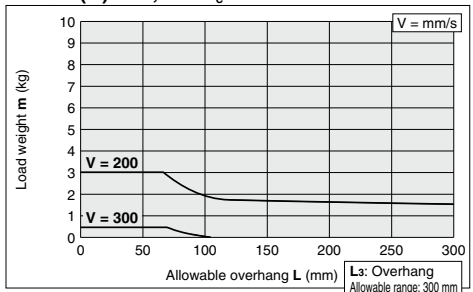
MXQ25(A)-50, 75Z^A_C



MXQ25(A)-100Z^A_C



MXQ25(A)-125, 150Z^A_C



Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

CY

CX

CK□1

C(L)□

C(L)XU

CKQ

CK2ZN

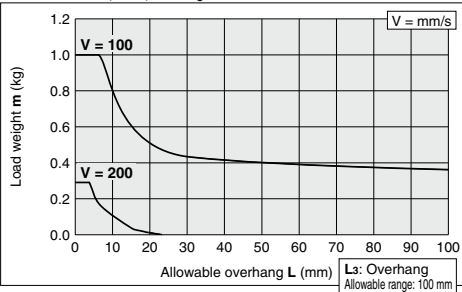
WRF

INDEX

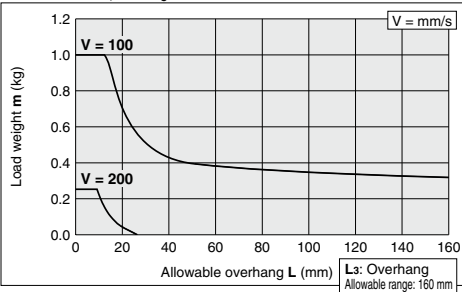
Determine the overhang. (Refer to page 966 for details.)
L1, L2: Check from the cross point of the load weight and driving speed.
L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

MXQ 8B-□Z^A_{BC}, MXQ 12B-□Z^A_{BC} / For Transfer/
Metal Stopper with Bumper

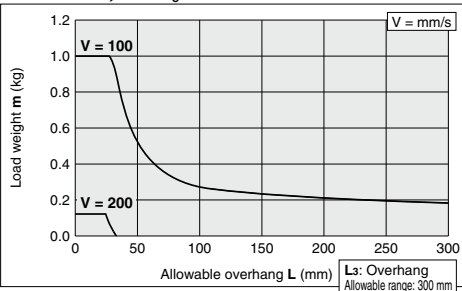
MXQ8B-10, 20, 30Z^A_{BC}



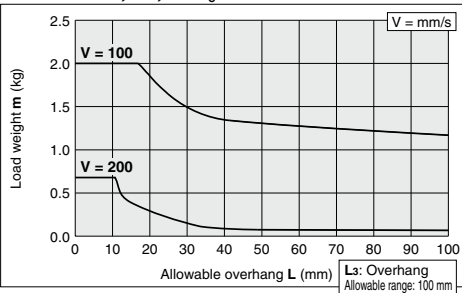
MXQ8B-40, 50Z^A_{BC}



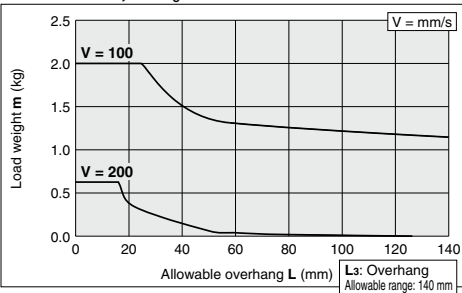
MXQ8B-75, 100Z^A_{BC}



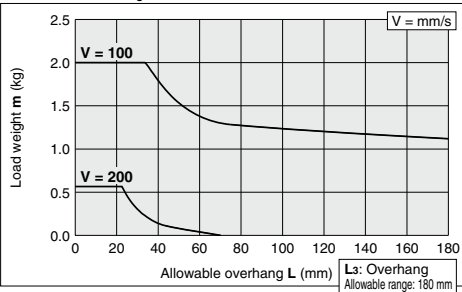
MXQ12B-10, 20, 30Z^A_{BC}



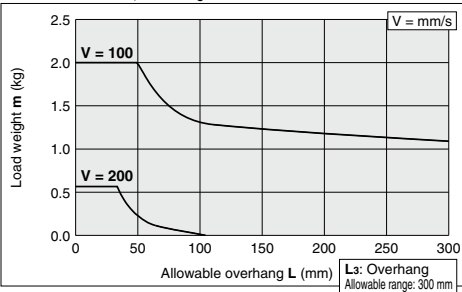
MXQ12B-40, 50Z^A_{BC}



MXQ12B-75Z^A_{BC}



MXQ12B-100, 125Z^A_{BC}

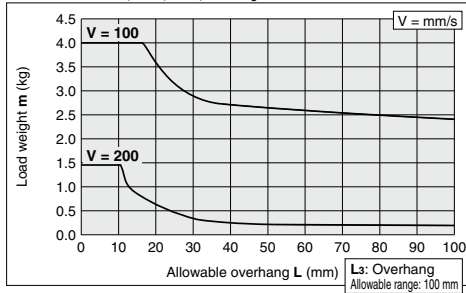


Determine the overhang. (Refer to page 966 for details.)
 L₁, L₂: Check from the cross point of the load weight and driving speed.
 L₃: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

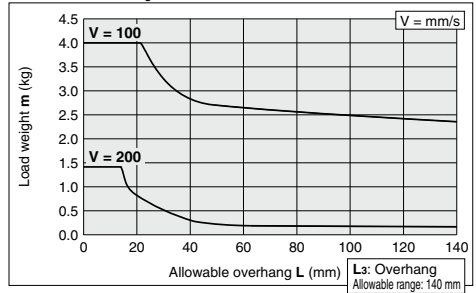
MXQ 16B-□Z^A_{BC}, MXQ 20B-□Z^A_{BC}

For Transfer/
Metal Stopper with Bumper

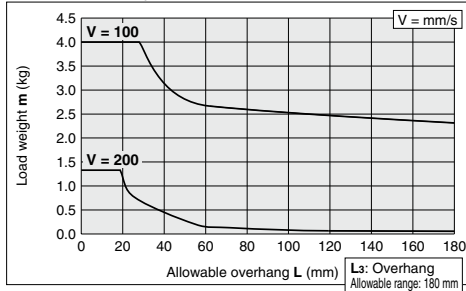
MXQ16B-10, 20, 30, 40Z^A_{BC}



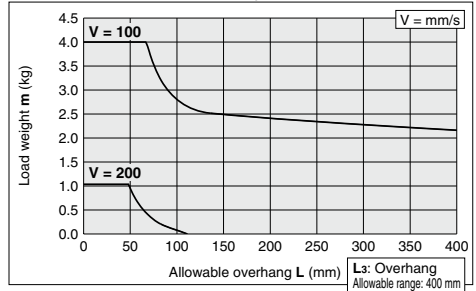
MXQ16B-50Z^A_C



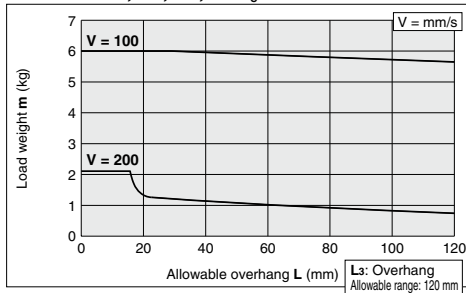
MXQ16B-75Z^A_C



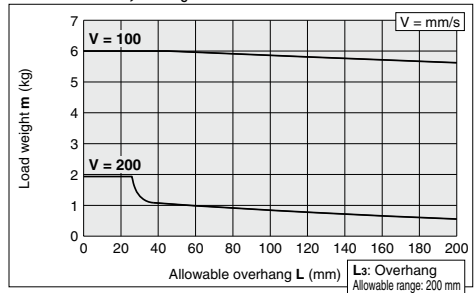
MXQ16B-100, 125, 150Z^A_C



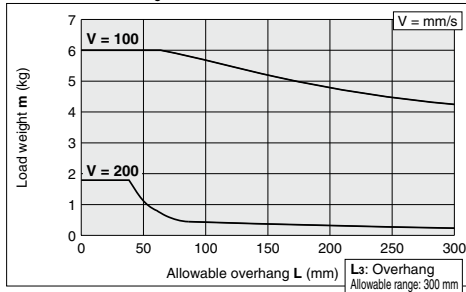
MXQ20B-10, 20, 30, 40Z^A_C



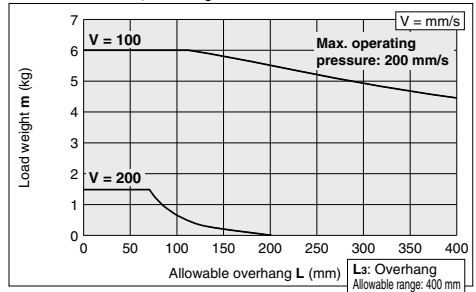
MXQ20B-50, 75Z^A_C



MXQ20B-100Z^A_C



MXQ20B-125, 150Z^A_C



Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

CY

CX

CK□1

C(L)□

C(L)XU

CKQ

CK2ZN

WRF

INDEX

Series MXQ

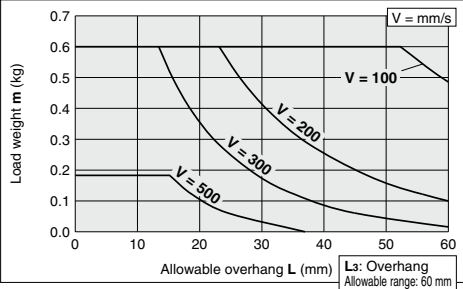
MXQ 6A-□Z_{FD}^D, MXQ 6-□Z_{FD}^D
MXQ 8^A_C-□Z_{FD}^D, MXQ 8-□Z_{FD}^D

Height interchangeable type
Height interchangeable type

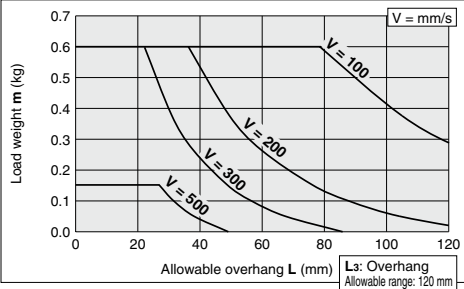
For Transfer/
Rubber Stopper

Determine the overhang. (Refer to page 966 for details.)
L1, L2: Check from the cross point of the load weight and driving speed.
L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

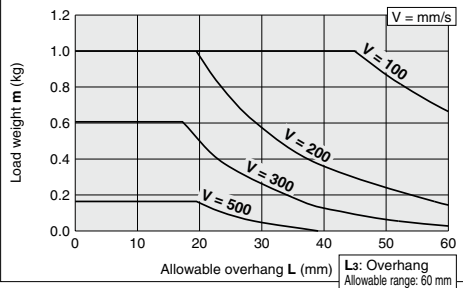
MXQ6(A)-10, 20Z_{FD}^D



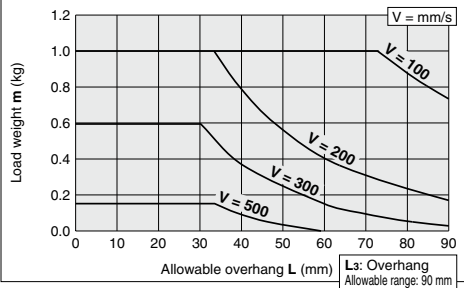
MXQ6(A)-30, 40, 50Z_{FD}^D



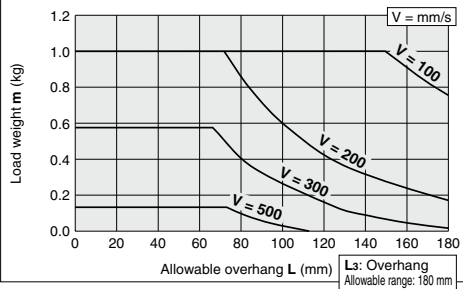
MXQ8(8)-10, 20, 30Z_{FD}^D



MXQ8(8)-40Z_{FD}^D



MXQ8(8)-50Z_{FD}^D

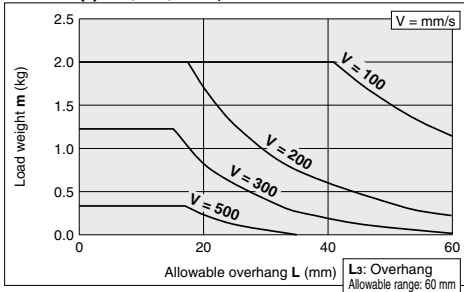


MXQ 12^A-□Z^{TD}, MXQ 12-□Z^{TD} (Height interchangeable type)
 MXQ 16A-□Z^{TD}, MXQ 16-□Z^{TD} (Height interchangeable type)

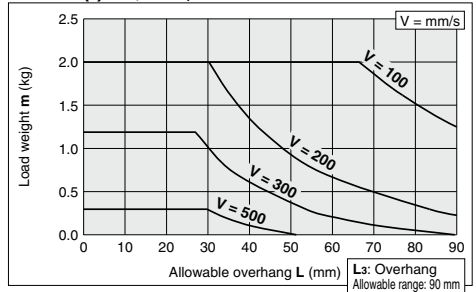
For Transfer/
Rubber Stopper

Determine the overhang. (Refer to page 966 for details.)
 L₁: Check from the cross point of the load weight and driving speed.
 L₂: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

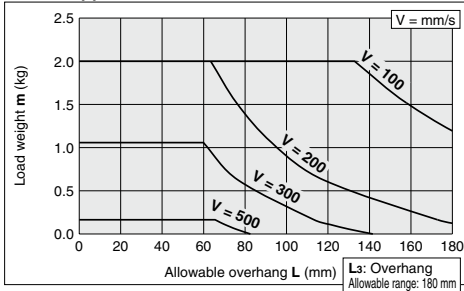
MXQ12(ε)-10, 20, 30Z^{TD}



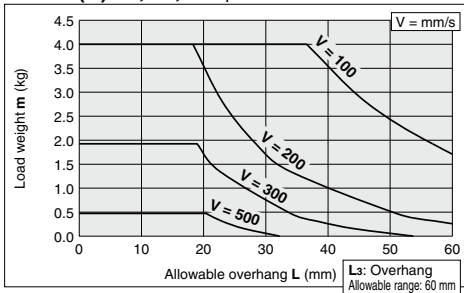
MXQ12(ε)-40, 50Z^{TD}



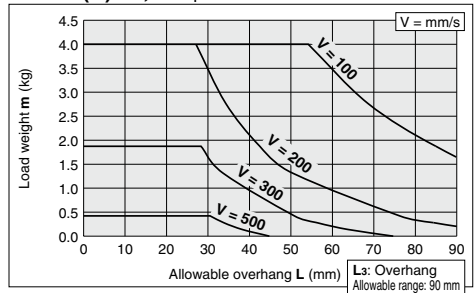
MXQ12(ε)-75, 100Z^{TD}



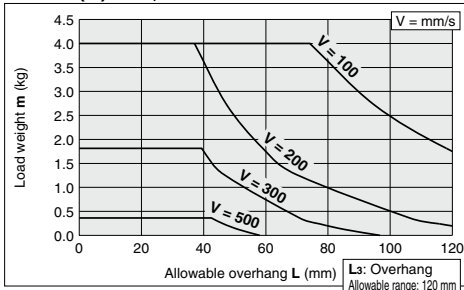
MXQ16(A)-10, 20, 30Z^{TD}



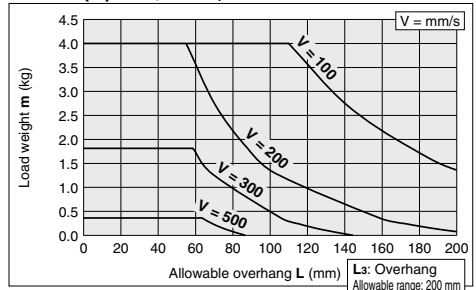
MXQ16(A)-40, 50Z^{TD}



MXQ16(A)-75Z^{TD}



MXQ16(A)-100, 125Z^{TD}



Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-
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JA

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MXQ

MGP

C□Y
C□X

CK□1

C(L)K□

C(L)KU

CKQ

CKZ2N

WRF

INDEX

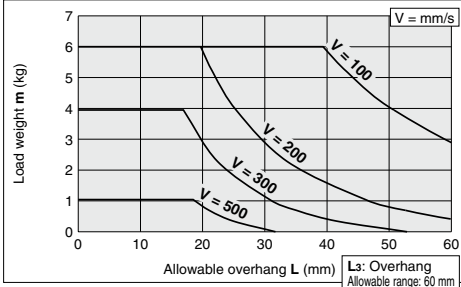
Series MXQ

MXQ 20A-□Z_{FD}^D, MXQ 20-□Z_{FD}^D (Height interchangeable type)
 MXQ 25A-□Z_{FD}^D, MXQ 25-□Z_{FD}^D (Height interchangeable type)

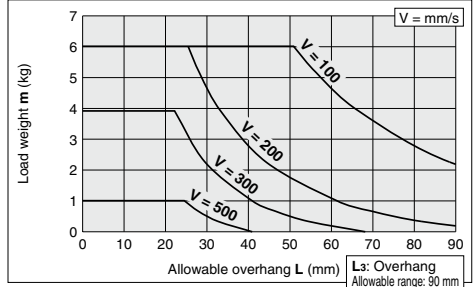
For Transfer/
Rubber Stopper

Determine the overhang. (Refer to page 966 for details.)
 L₁, L₂: Check from the cross point of the load weight and driving speed.
 L₃: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

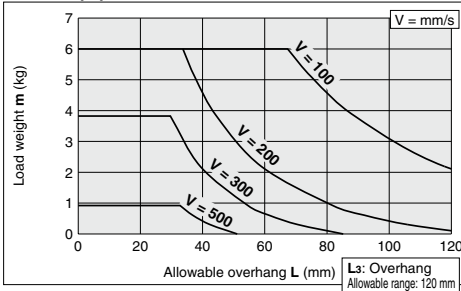
MXQ20(A)-10, 20, 30, 40Z_{FD}^D



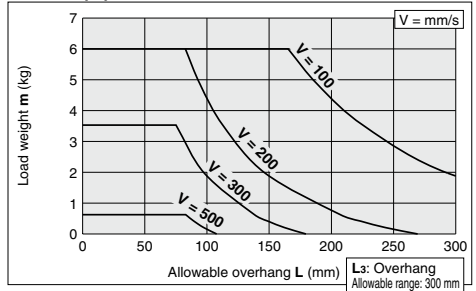
MXQ20(A)-50Z_{FD}^D



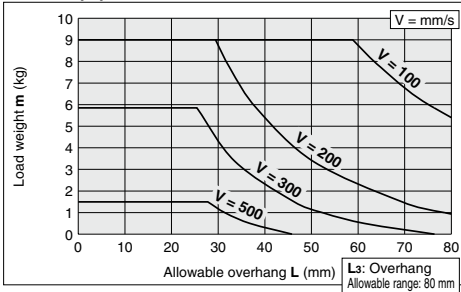
MXQ20(A)-75Z_{FD}^D



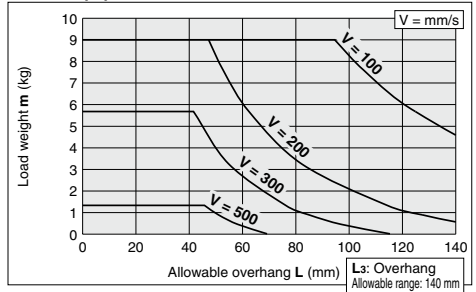
MXQ20(A)-100, 150Z_{FD}^D



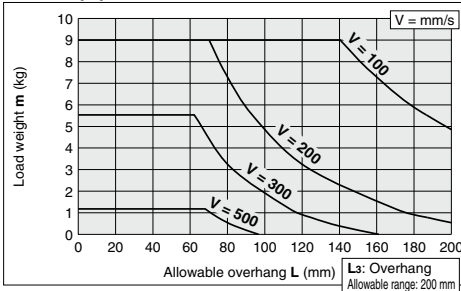
MXQ25(A)-10, 20, 30, 40Z_{FD}^D



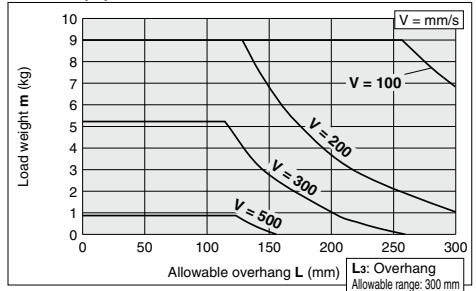
MXQ25(A)-50, 75Z_{FD}^D



MXQ25(A)-100Z_{FD}^D



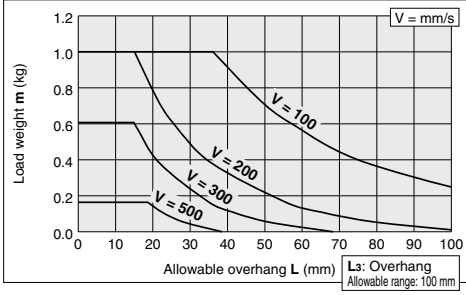
MXQ25(A)-125, 150Z_{FD}^D



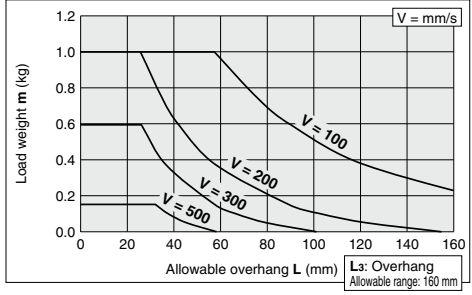
Determine the overhang. (Refer to page 966 for details.)
L1, L2: Check from the cross point of the load weight and driving speed.
L3: Can be used within the "Allowable overhang range"
in the selection graph if the load weight and driving
speed values are within the allowable range.

MXQ 6B-□Z^D_{mm}/For Transfer/Rubber Stopper

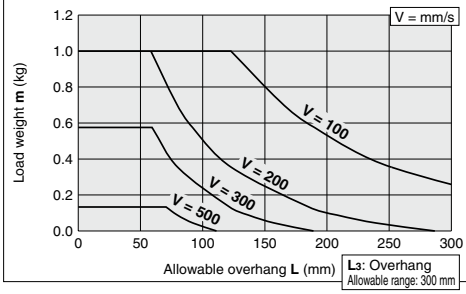
MXQ6B-10, 20, 30Z^D_{mm}



MXQ6B-40Z^D_{mm}



MXQ6B-50, 75Z^D_{mm}



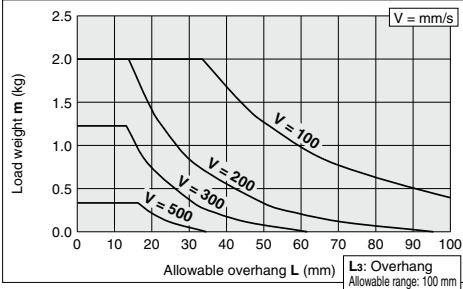
- Air Cylinders
- CJ2
- CM2
- CG1
- MB
- CA2
- CQ2
- CQS
- Lube-retainer
- JA
- MXH
- MXQ**
- MGP
- C□Y
- C□X
- CK□1
- C(L)K□
- C(L)KU
- CKQ
- CKZ2N
- WRF

MXQ 8B-□Z_{mm}^D, MXQ 12B-□Z_{mm}^D

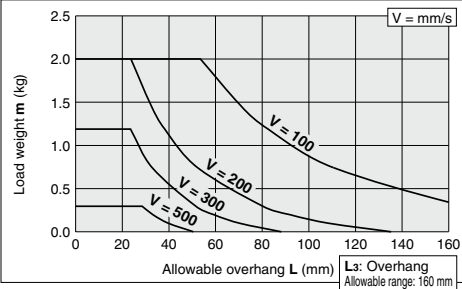
**For Transfer/
Rubber Stopper**

Determine the overhang. (Refer to page 966 for details.)
L₁, L₂: Check from the cross point of the load weight and driving speed.
L₃: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

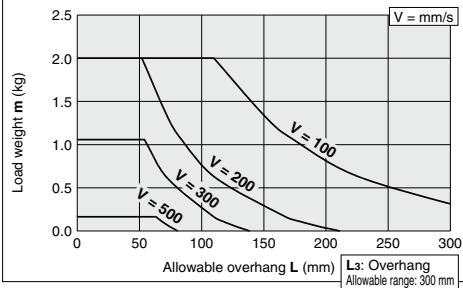
MXQ8B-10, 20, 30Z_{mm}^{HD}



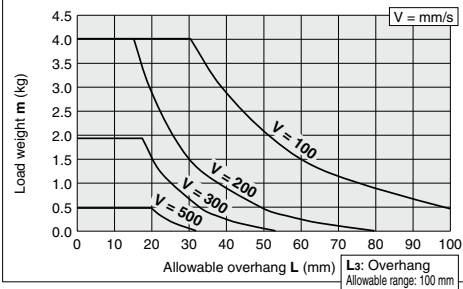
MXQ8B-40, 50Z_{mm}^{HD}



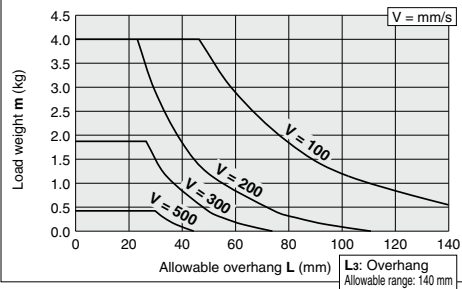
MXQ8B-75, 100Z_{mm}^D



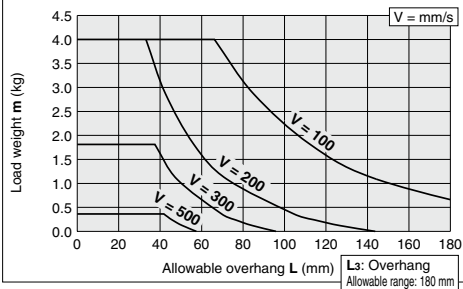
MXQ12B-10, 20, 30Z_{mm}^D



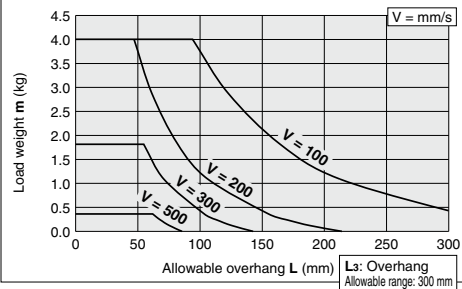
MXQ12B-40, 50Z_{mm}^D



MXQ12B-75Z_{mm}^D



MXQ12B-100, 125Z_{mm}^D

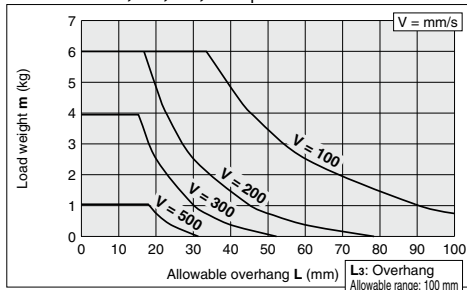


MXQ 16B-□Z_{FD}, MXQ 20B-□Z_{FD}

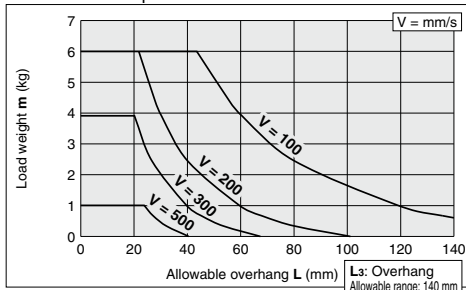
For Transfer/
Rubber Stopper

Determine the overhang. (Refer to page 966 for details.)
L₁, L₂: Check from the cross point of the load weight and driving speed.
L₃: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

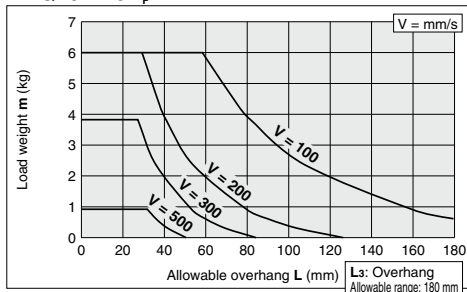
MXQ16B-10, 20, 30, 40Z_{FD}



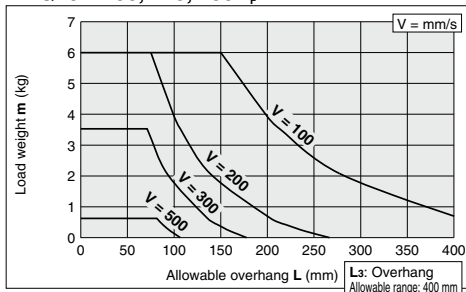
MXQ16B-50Z_{FD}



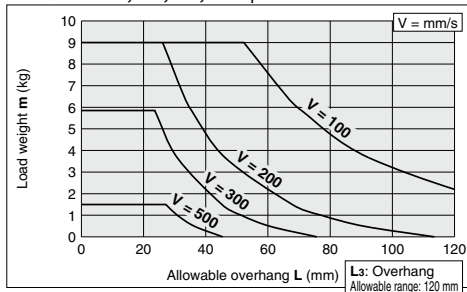
MXQ16B-75Z_{FD}



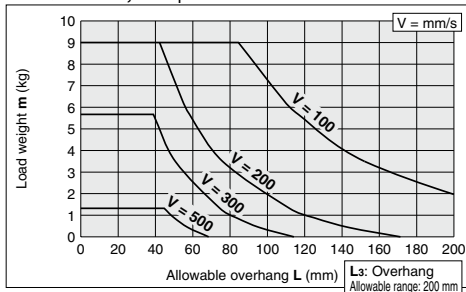
MXQ16B-100, 125, 150Z_{FD}



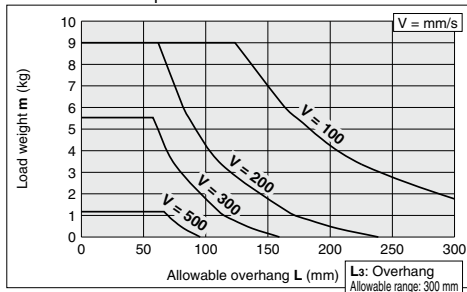
MXQ20B-10, 20, 30, 40Z_{FD}



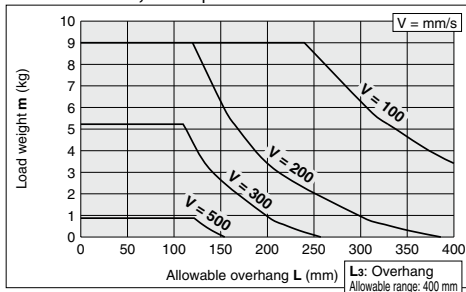
MXQ20B-50, 75Z_{FD}



MXQ20B-100Z_{FD}



MXQ20B-125, 150Z_{FD}



Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

CY

CX

CK□1

C(L)□

C(L)KU

CKQ

CK2ZN

WRF

INDEX

Series MXQ

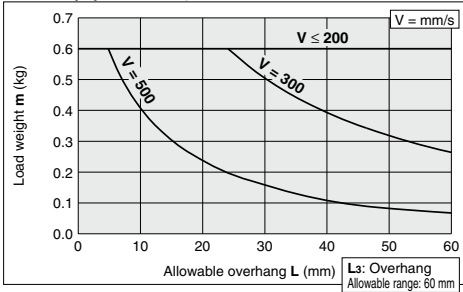
MXQ 6A-□Z^G_J, MXQ 6-□Z^G_J (Height interchangeable type)

MXQ 8^A_C-□Z^G_J, MXQ 8-□Z^G_J (Height interchangeable type)

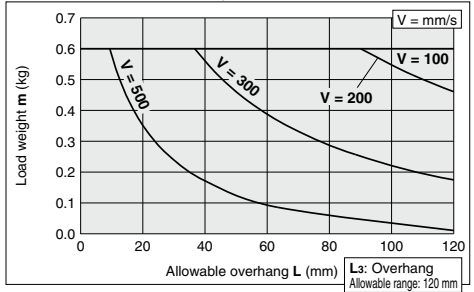
For Transfer/
Shock Absorber (RJ)

Determine the overhang. (Refer to page 966 for details.)
L1, L2: Check from the cross point of the load weight and driving speed.
L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

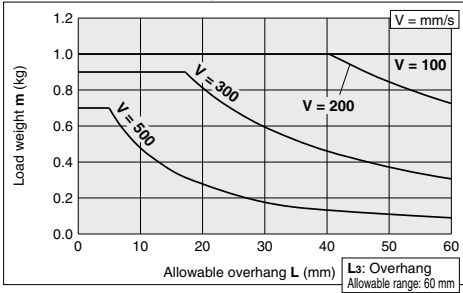
MXQ6(A)-10, 20Z^G_J



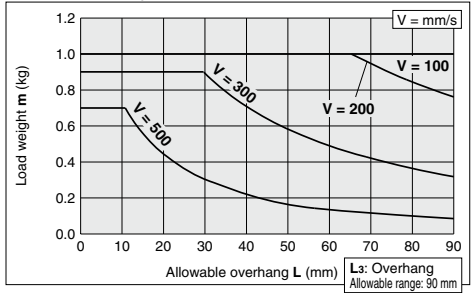
MXQ6(A)-30, 40, 50Z^G_J



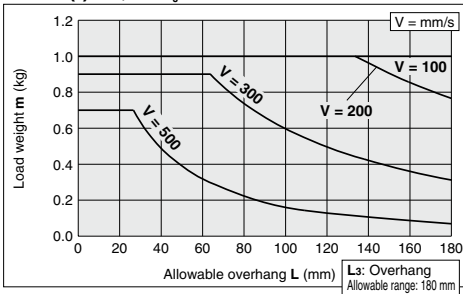
MXQ8(Δ)-10, 20, 30Z^G_J



MXQ8(Δ)-40Z^G_J



MXQ8(Δ)-50, 75Z^G_J

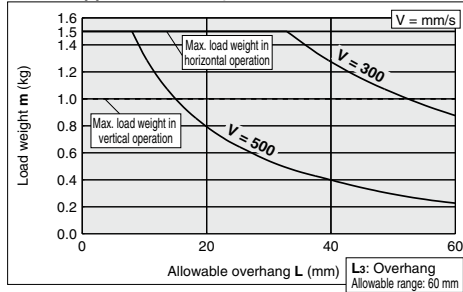


MXQ 12^A-□Z^G_{HJ}, MXQ 12-□Z^G_{HJ} (Height interchangeable type)
 MXQ 16A-□Z^G_{HJ}, MXQ 16-□Z^G_{HJ} (Height interchangeable type)

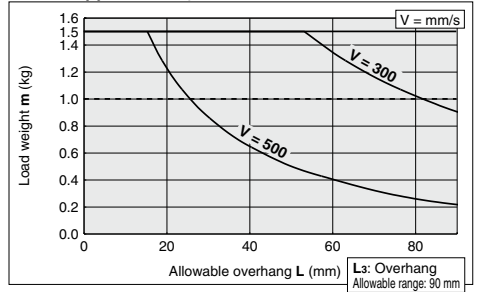
For Transfer/
Shock Absorber (RJ)

Determine the overhang. (Refer to page 966 for details.)
 L₁, L₂: Check from the cross point of the load weight and driving speed.
 L₃: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

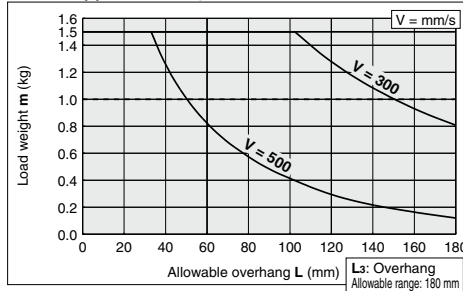
MXQ12(ε)-10, 20, 30Z^G_{HJ}



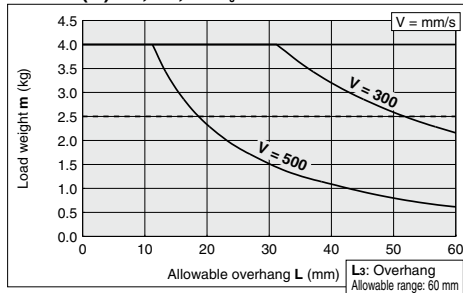
MXQ12(ε)-40, 50Z^G_{HJ}



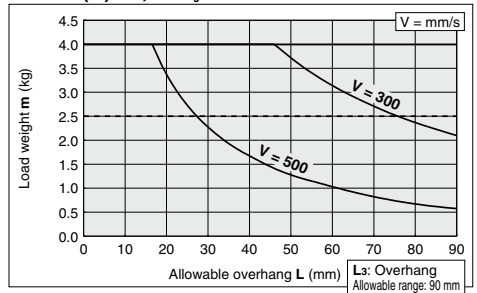
MXQ12(ε)-75, 100Z^G_{HJ}



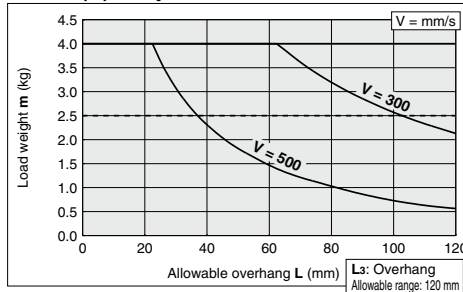
MXQ16(A)-10, 20, 30Z^G_{HJ}



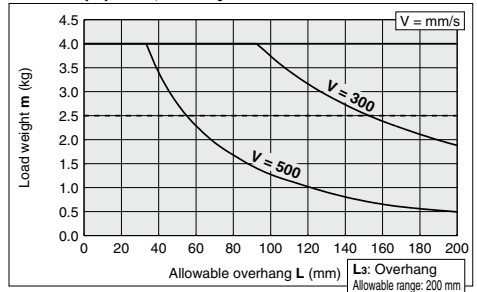
MXQ16(A)-40, 50Z^G_{HJ}



MXQ16(A)-75Z^G_{HJ}



MXQ16(A)-100, 125Z^G_{HJ}



Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-
retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)□

C(L)XU

CKQ

CKZ2N

WRF

INDEX

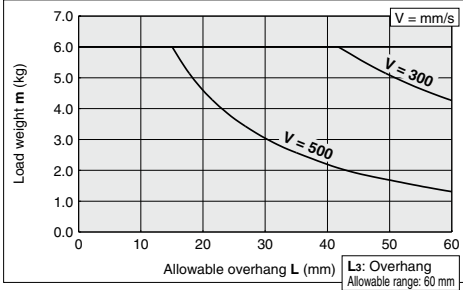
Series MXQ

MXQ 20A-□Z^G_{HJ}, MXQ 20-□Z^G_{HJ} (Height interchangeable type)
MXQ 25A-□Z^G_{HJ}, MXQ 25-□Z^G_{HJ} (Height interchangeable type)

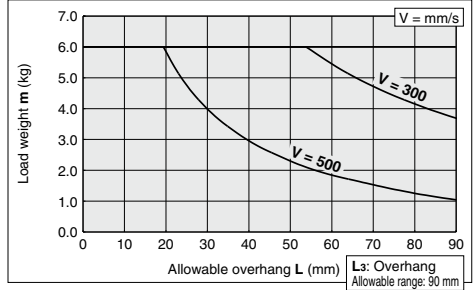
For Transfer/
Shock Absorber (RJ)

Determine the overhang. (Refer to page 966 for details.)
L1, L2: Check from the cross point of the load weight and driving speed.
L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

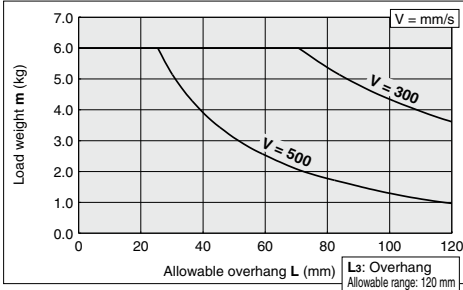
MXQ20(A)-10, 20, 30, 40Z^G_J



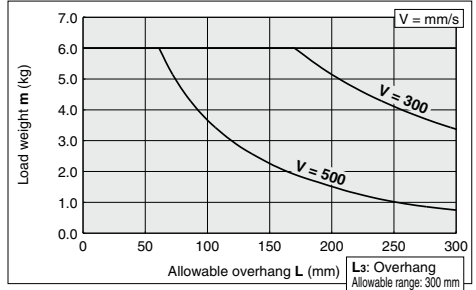
MXQ20(A)-50Z^G_J



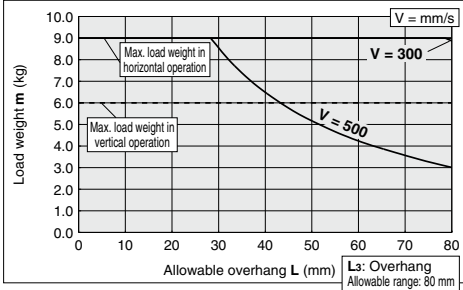
MXQ20(A)-75Z^G_J



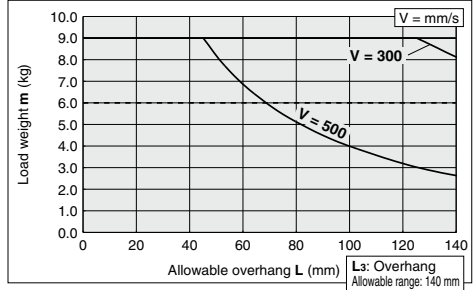
MXQ20(A)-100, 150Z^G_J



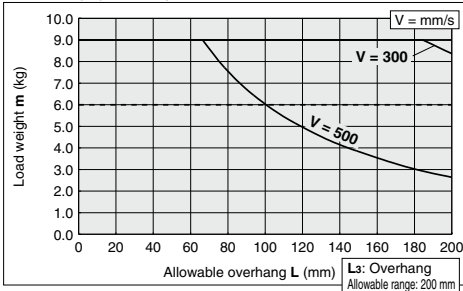
MXQ25(A)-10, 20, 30, 40Z^G_J



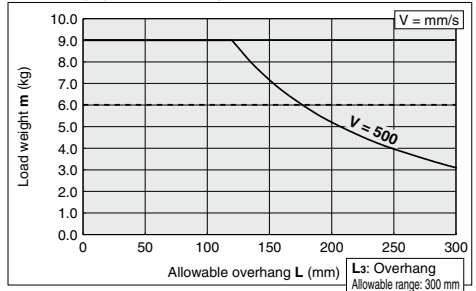
MXQ25(A)-50, 75Z^G_J



MXQ25(A)-100Z^G_J



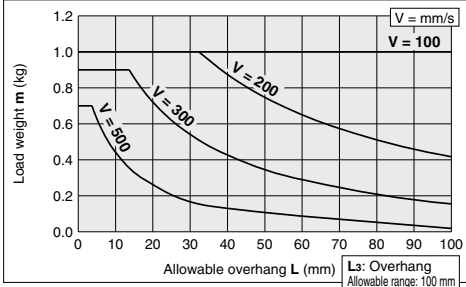
MXQ25(A)-125, 150Z^G_J



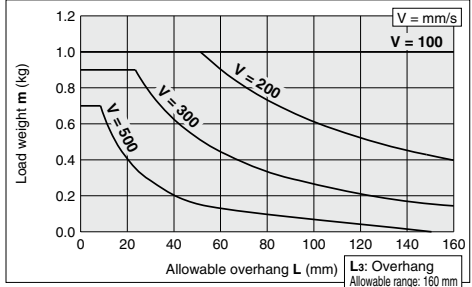
Determine the overhang. (Refer to page 966 for details.)
L1, L2: Check from the cross point of the load weight and driving speed.
L3: Can be used within the "Allowable overhang range"
in the selection graph if the load weight and driving
speed values are within the allowable range.

MXQ 6B-□Z^G_{HJ}/For Transfer/Shock Absorber (RJ)

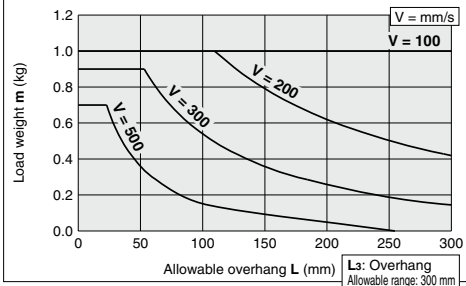
MXQ6B-10, 20, 30Z^G_{HJ}



MXQ6B-40Z^G_{HJ}



MXQ6B-50, 75Z^G_{HJ}

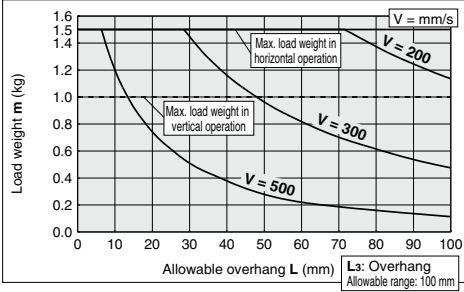


- Air Cylinders
- CJ2
- CM2
- CG1
- MB
- CA2
- CQ2
- CQS
- Lube-
retainer
- JA
- MXH
- MXQ**
- MGP
- C□Y
- C□X
- CK□1
- C(L)K□
- C(L)KU
- CKQ
- CKZ2N
- WRF

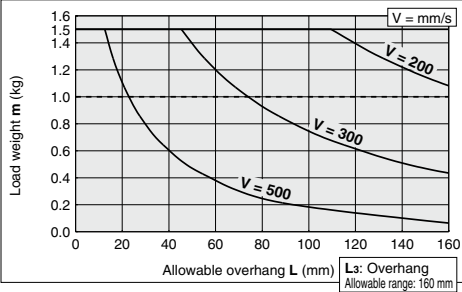
Determine the overhang. (Refer to page 966 for details.)
L₁, L₂: Check from the cross point of the load weight and driving speed.
L₃: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

MXQ 8B-□Z^G_{HJ}, MXQ 12B-□Z^G_{HJ} / For Transfer/
Shock Absorber (RJ)

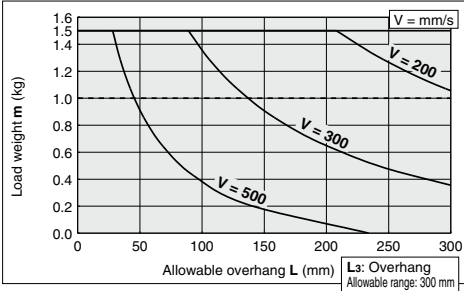
MXQ8B-10, 20, 30Z^G_{HJ}



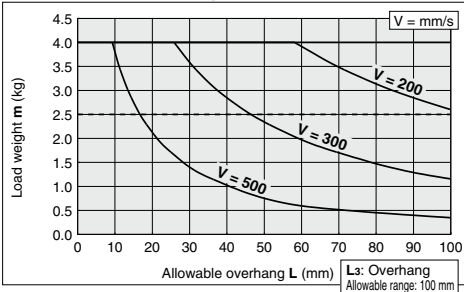
MXQ8B-40, 50Z^G_{HJ}



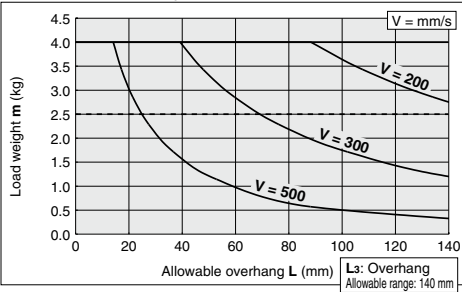
MXQ8B-75, 100Z^G_{HJ}



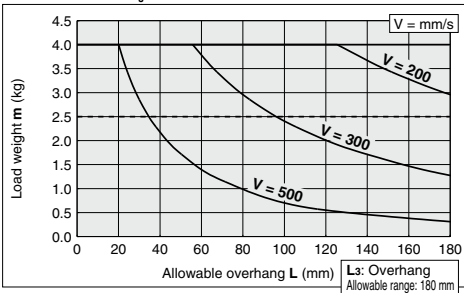
MXQ12B-10, 20, 30Z^G_{HJ}



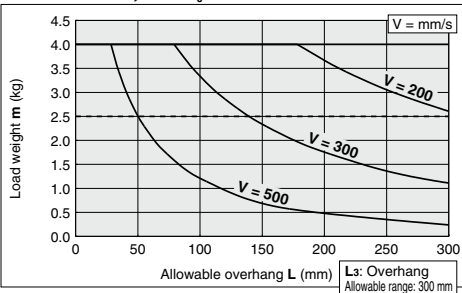
MXQ12B-40, 50Z^G_{HJ}



MXQ12B-75Z^G_{HJ}



MXQ12B-100, 125Z^G_{HJ}

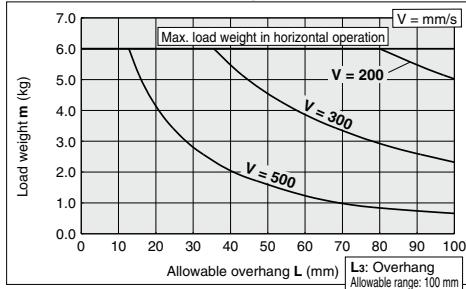


Determine the overhang. (Refer to page 966 for details.)
 L₁, L₂: Check from the cross point of the load weight and driving speed.
 L₃: Can be used within the "Allowable overhang range"
 in the selection graph if the load weight and driving
 speed values are within the allowable range.

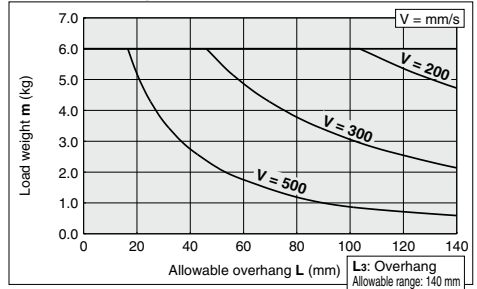
MXQ 16B-□Z_H^G, MXQ 20B-□Z_H^G

For Transfer/
Shock Absorber (RJ)

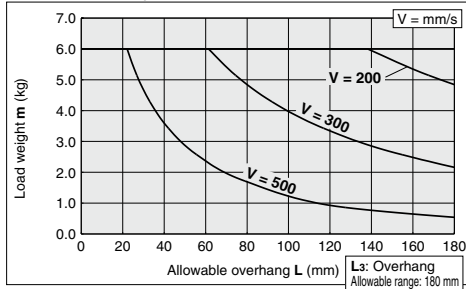
MXQ16B-10, 20, 30, 40Z_H^G



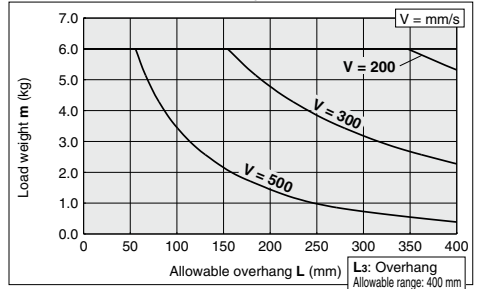
MXQ16B-50Z_H^G



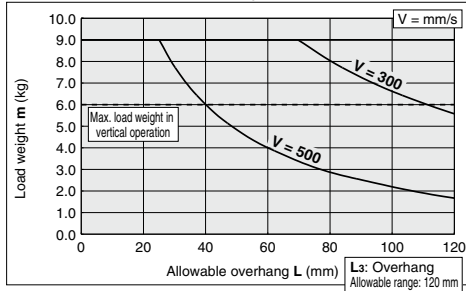
MXQ16B-75Z_H^G



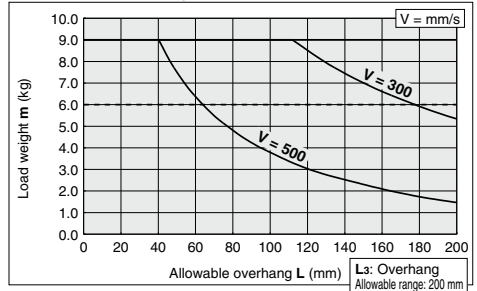
MXQ16B-100, 125, 150Z_H^G



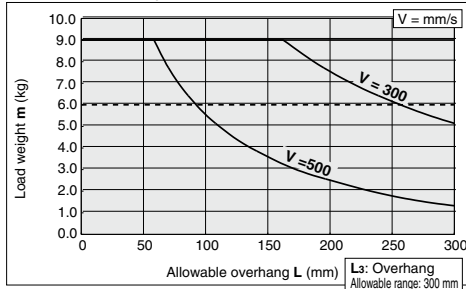
MXQ20B-10, 20, 30, 40Z_H^G



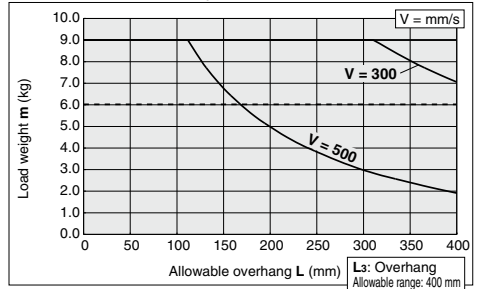
MXQ20B-50, 75Z_H^G



MXQ20B-100Z_H^G



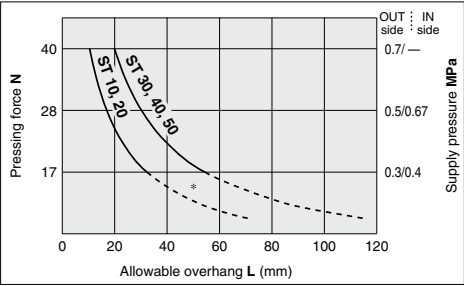
MXQ20B-125, 150Z_H^G



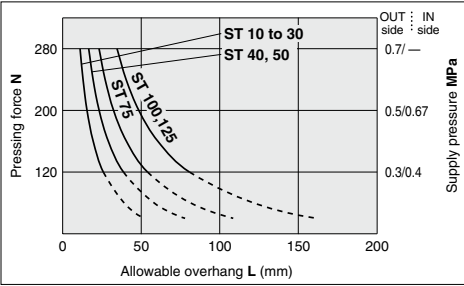
Double Ported Type, Single Side Ported Type, Height Interchangeable Type/For Pressing

Determine the overhang. (Refer to page 966 for details.)
L₁, L₂: Check from the cross point of the pressing force and driving speed.

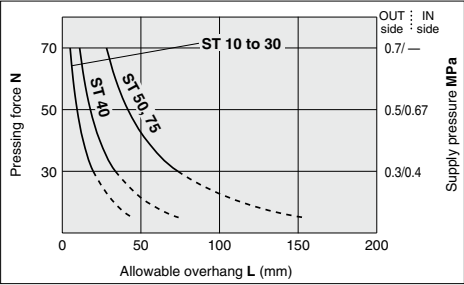
MXQ6A-□Z



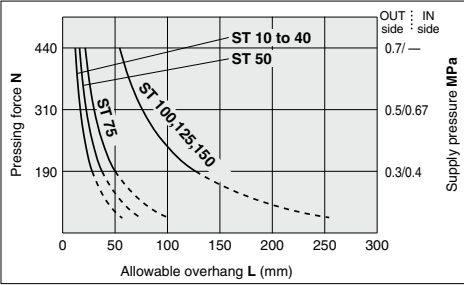
MXQ16A-□Z



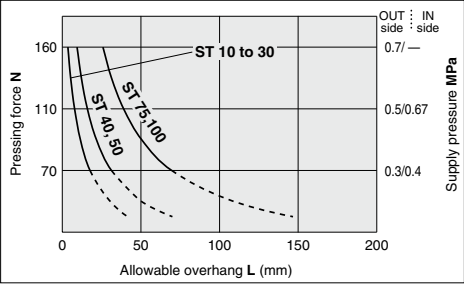
MXQ8A_C-□Z



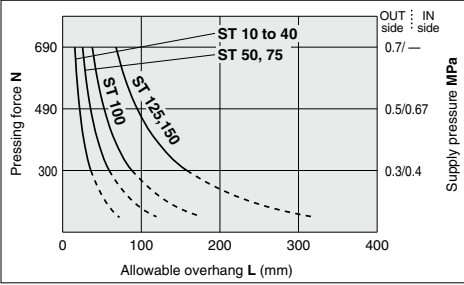
MXQ20A-□Z



MXQ12A_C-□Z



MXQ25A-□Z

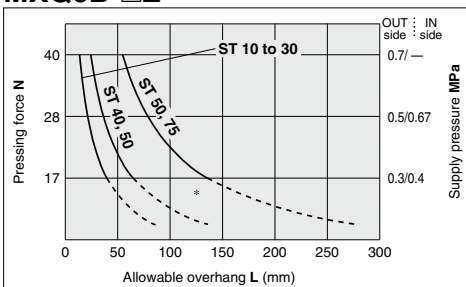


* Pressing force in the dotted line ranges are reference values as the pressing force may vary in these ranges.
* ST = Stroke

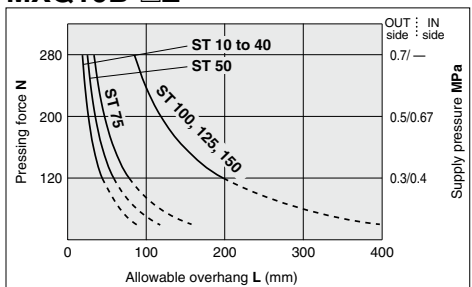
Determine the overhang. (Refer to page 966 for details.)
L1, L2: Check from the cross point of the pressing force and driving speed.

Low Thrust with High Rigidity Type/For Pressing

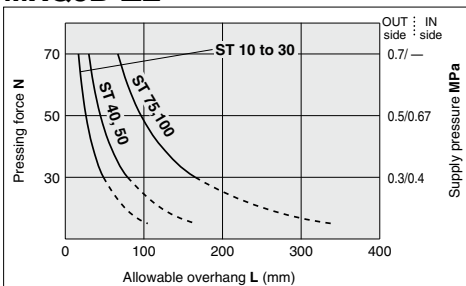
MXQ6B-□Z



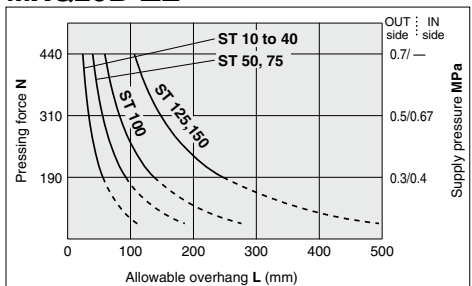
MXQ16B-□Z



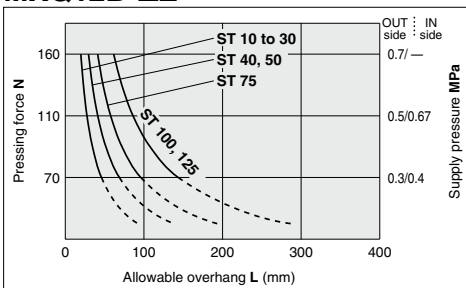
MXQ8B-□Z



MXQ20B-□Z



MXQ12B-□Z



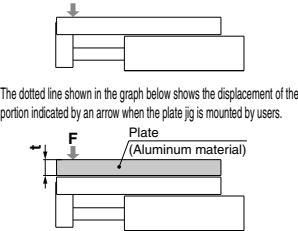
* Pressing force in the dotted line ranges are reference values as the pressing force may vary in these ranges.
* ST = Stroke

Air Cylinders
CJ2
CM2
CG1
MB
CA2
CQ2 CQS
Lube- retainer
JA
MXH
MXQ
MGP
C□Y C□X
CK□1
C(L)K□
C(L)KU
CKQ
CKZ2N
WRF

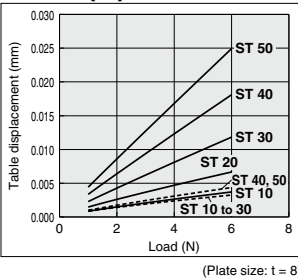
Table Deflection (Reference Values)

Table displacement due to pitch moment load

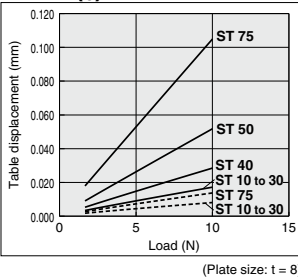
Displacement when a load is applied to the part indicated by the arrow for the entire stroke of the air slide table



MXQ6(A)-□Z



MXQ8(Δ)-□Z, MXQ6B-□Z



MXQ12(Δ)-□Z, MXQ8B-□Z

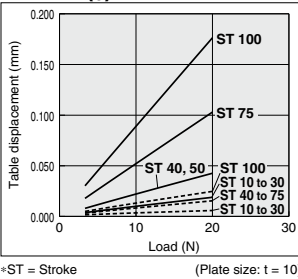
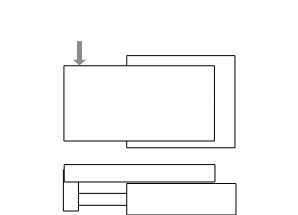
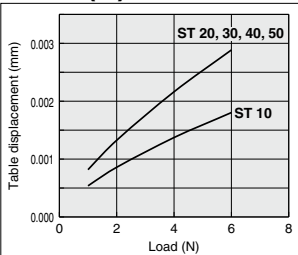


Table displacement due to yaw moment load

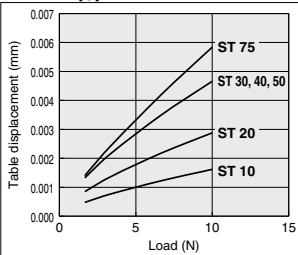
Displacement when a load is applied to the part indicated by the arrow for the entire stroke of the air slide table



MXQ6(A)-□Z



MXQ8(Δ)-□Z, MXQ6B-□Z



MXQ12(Δ)-□Z, MXQ8B-□Z

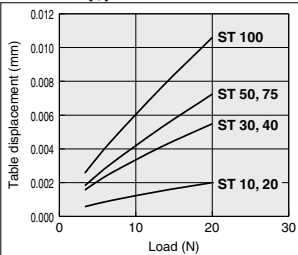
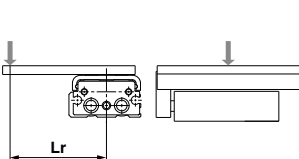
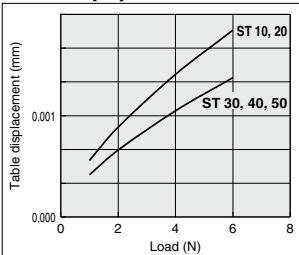


Table displacement due to roll moment load

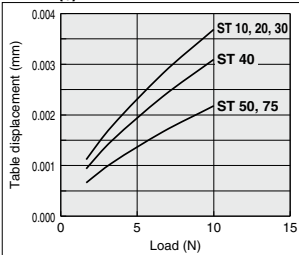
Displacement when a load is applied to the part indicated by the arrow when the air slide table is retracted



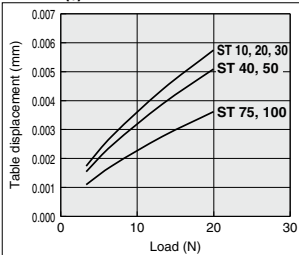
MXQ6(A)-□Z



MXQ8(Δ)-□Z, MXQ6B-□Z



MXQ12(Δ)-□Z, MXQ8B-□Z



*ST = Stroke

(Plate size: $t = 10$)

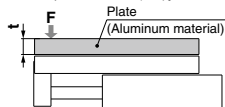
Table Deflection (Reference Values)

Table displacement due to pitch moment load

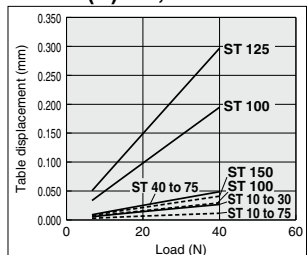
Displacement when a load is applied to the part indicated by the arrow for the entire stroke of the air slide table



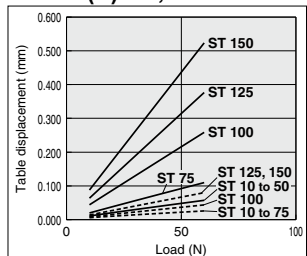
The dotted line shown in the graph below shows the displacement of the portion indicated by an arrow when the plate jig is mounted by users.



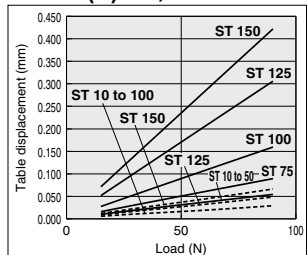
MXQ16(A)-□Z, MXQ12B-□Z



MXQ20(A)-□Z, MXQ16B-□Z



MXQ25(A)-□Z, MXQ20B-□Z

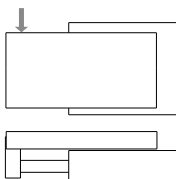


*ST = Stroke

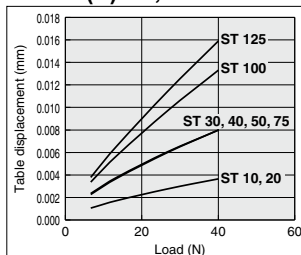
(Plate size: $t = 15$)

Table displacement due to yaw moment load

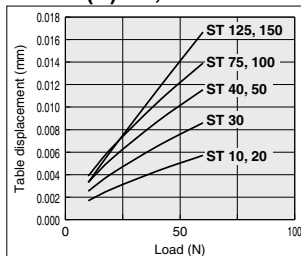
Displacement when a load is applied to the part indicated by the arrow for the entire stroke of the air slide table



MXQ16(A)-□Z, MXQ12B-□Z



MXQ20(A)-□Z, MXQ16B-□Z



MXQ25(A)-□Z, MXQ20B-□Z

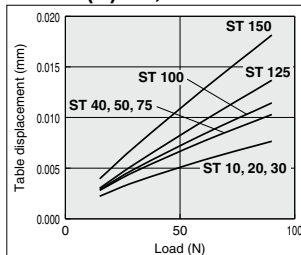
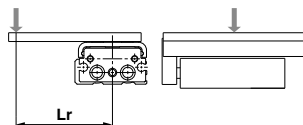
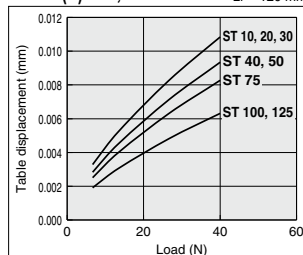


Table displacement due to roll moment load

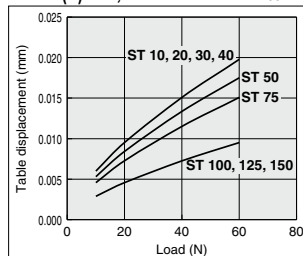
Displacement when a load is applied to the part indicated by the arrow when the air slide table is retracted



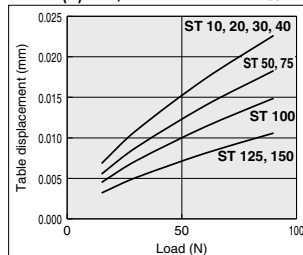
MXQ16(A)-□Z, MXQ12B-□Z $L_r = 120$ mm



MXQ20(A)-□Z, MXQ16B-□Z $L_r = 160$ mm



MXQ25(A)-□Z, MXQ20B-□Z $L_r = 200$ mm



Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)□

C(L)□U

CKQ

CK2ZN

WRF

INDEX



Series MXQ

Specific Product Precautions 1

Be sure to read before handling. Refer to page 1574 for Safety Instructions.

For Actuator and Auto Switch Precautions, refer to “Handling Precautions for SMC Products” and the Operation Manual on SMC website, <http://www.smcworld.com>

Mounting

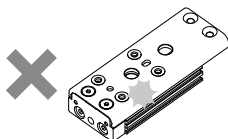
⚠ Caution

1. Do not scratch or dent the mounting side of the body, table or end plate.

This can cause loss of parallelism in the mounting surfaces, vibration in the guide unit and increased operating resistance, etc.

2. Do not scratch or dent on the forward side of the rail or guide.

This could result in looseness and increased operating resistance, etc.



3. Do not apply excessive power and load when work is mounted.

If the external force more than the allowable moment were applied, looseness of the guide unit or increased operating resistance could take place.

4. Flatness of mounting surface should be 0.02 mm or less.

Poor parallelism of the workpiece mounted on the body, the base, and other parts can cause vibration in the guide unit and increased operating resistance, etc.

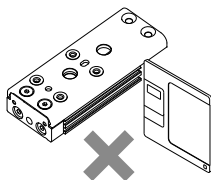
5. Select the proper connection with the load which has external support and/or guide mechanism on the outside, and align it properly.

6. Avoid contact with the body during operation.

Hands etc., may get caught in the stroke adjuster. Install a cover as a safety measure if there are instances to be near the slide table during operation.

7. Keep away from objects which are influenced by magnets.

As the body magnets are built-in, do not allow close contact with magnetic disks, magnetic cards or magnetic tapes. Data may be erased.



8. Do not touch a magnet to the table section.

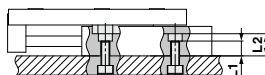
Since the table is made from the magnetic substance, it could turn to be magnetized if it stuck by a magnet etc.

That could cause auto switches etc., to malfunction.

9. 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.

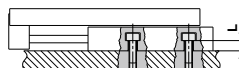
1. Body tapped



⚠ Caution Types other than the MXQ20(A) and MXQ25(A) have through tapped holes. Use bolts that are 0.5 mm or shorter than the maximum screw-in depth (L2). If long bolts are used, they can touch the end plate and cause a malfunction etc.

Model	Bolt	Max. tightening torque (N·m)	Screw-in depth L1 (mm)	Max. screw-in depth L2 (mm)
MXQ6	M4 x 0.7	2.1	5	8
MXQ8	M4 x 0.7	2.1	8	11
MXQ12	M5 x 0.8	4.4	11	15
MXQ16	M6 x 1	7.4	14	19
MXQ20	M6 x 1	7.4	9	
MXQ25	M8 x 1.25	18	12	
MXQ6A	M4 x 0.7	2.1	8	11
MXQ8A	M4 x 0.7	2.1	8	11
MXQ12A	M5 x 0.8	4.4	8	12
MXQ16A	M6 x 1	7.4	12	17
MXQ20A	M6 x 1	7.4	9	
MXQ25A	M8 x 1.25	18	12	
MXQ6B	M4 x 0.7	2.1	5	8
MXQ8B	M5 x 0.8	4.4	4	9
MXQ12B	M6 x 1	7.4	7	12
MXQ16B	M6 x 1	7.4	10	15
MXQ20B	M8 x 1.25	18	14	20
MXQ8C	M4 x 0.7	2.1	6	9
MXQ12C	M5 x 0.8	4.4	8	12

2. Through hole



Model	Bolt	Max. tightening torque (N·m)	L (mm)
MXQ6	M3 x 0.5	1.1	5.3
MXQ8	M3 x 0.5	1.1	8.3
MXQ12	M4 x 0.7	2.7	11.5
MXQ16	M5 x 0.8	5.4	14.4
MXQ20	M5 x 0.8	5.4	19.3
MXQ25	M6 x 1	9.2	23.5
MXQ6A	M3 x 0.5	1.1	8.3
MXQ8A	M3 x 0.5	1.1	8.3
MXQ12A	M4 x 0.7	2.7	8.5
MXQ16A	M5 x 0.8	5.4	12.4
MXQ20A	M5 x 0.8	5.4	16.3
MXQ25A	M6 x 1	9.2	20.5
MXQ6B	M3 x 0.5	1.1	5.3
MXQ8B	M4 x 0.7	2.7	4.5
MXQ12B	M5 x 0.8	5.4	7.4
MXQ16B	M5 x 0.8	5.4	10.3
MXQ20B	M6 x 1	9.2	14.5
MXQ8C	M3 x 0.5	1.1	6.3
MXQ12C	M4 x 0.7	2.7	8.5



Series MXQ

Specific Product Precautions 2

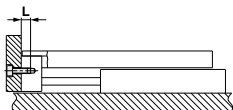
Be sure to read before handling. Refer to page 1574 for Safety Instructions.

For Actuator and Auto Switch Precautions, refer to “Handling Precautions for SMC Products” and the Operation Manual on SMC website, <http://www.smcworld.com>

Mounting

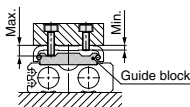
⚠ Caution

3. Front mounting



Model	Bolt	Max. tightening torque (N·m)	Max. screw-in depth L (mm)
MXQ6(A)	—	M3 x 0.5	0.9
MXQ8(A,C)	MXQ6B	M3 x 0.5	0.9
MXQ12(A,C)	MXQ8B	M3 x 0.5	0.9
MXQ16(A)	MXQ12B	M4 x 0.7	2.1
MXQ20(A)	MXQ16B	M5 x 0.8	4.4
MXQ25(A)	MXQ20B	M6 x 1	7.4

4. Top mounting



⚠ Caution In order to prevent the work piece fixing bolt from hitting the table, use a bolt of a length at least 0.5 mm shorter than the maximum screw-in depth. If long bolts are used, they can touch the guide block and caused malfunction etc.

Model	Bolt	Max. tightening torque (N·m)	Screw-in depth (mm)	
			Max.	Min.
MXQ6(A)	—	M3 x 0.5	1.1	4.1
MXQ8(A,C)	MXQ6B	M3 x 0.5	1.1	4.1
MXQ12(A,C)	MXQ8B	M4 x 0.7	2.7	5.7
MXQ16(A)	MXQ12B	M5 x 0.8	5.4	7.3
MXQ20(A)	MXQ16B	M5 x 0.8	5.4	7.3
MXQ25(A)	MXQ20B	M6 x 1	9.2	9

- The positioning hole on the table and on the bottom of the body does not have the same center. Use these holes during reinstallation after the table has been removed for the maintenance of an identical product.

Operating Environment

⚠ Caution

- Do not use in the environment, where the product could be exposed to the liquid such as cutting oil etc.

Using in the environment where the product could be exposed to cutting oil, coolant or oil, etc., could result in looseness, increased operating resistance, or air leakage, etc.

- Do not use in the environment, where the product could be exposed directly to the foreign matters such as powder dust, blown dust, cutting chip, spatter, etc.

This could result in looseness and increased operating resistance, and air leakage, etc.

Please consult with SMC regarding use in this kind of environment.

- Do not use in direct sunlight.

- When there are heat sources in the surrounding area, block them off.

When there are heat sources in the surrounding area, radiated heat may cause the product's temperature to rise and exceed the operating temperature range. Block off the heat with a cover etc.

- Do not subject it to excessive vibration and/or impact.

Please consult with SMC regarding use in this kind of environment, as this can cause damage and malfunction.

Sufficient strength is secure for the table, but when it is damaged, never touch it with bare hands as the broken section and the fragments will be like a sharp-edged tool.

- Use caution for the anticorrosiveness of linear guide section.

Martensitic stainless steel is used for the table and guide block. But, use caution that anti-corrosiveness is inferior to the austenitic stainless steel. Especially, rust may be generated in an environment where waterdrops are likely to adhere due to condensation etc.

Air Cylinders

CJ2

CM2

CG1

MB

CA2

CQ2

CQS

Lube-retainer

JA

MXH

MXQ

MGP

C□Y

C□X

CK□1

C(L)K□

C(L)KXU

CKQ

CKZ2N

WRF

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