

Air Slide Table

ø6, ø8, ø12, ø16, ø20, ø25

New

RoHS

Reduced in height

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

Product weight

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

Allowable kinetic energy

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



Reduced in height and weight with thinner table

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

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

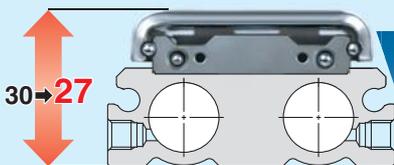
2 combinations of the guide and cylinder bore size available

Double ported type

Page 2

Bore size ø12

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



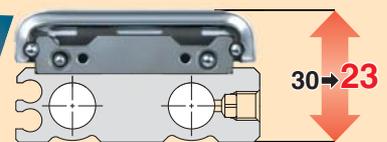
For MXQ12A

Bore size ø8

Low thrust with high rigidity type

Page 32

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



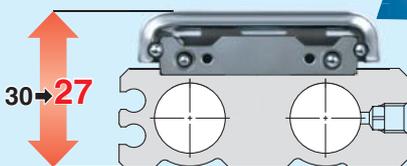
For MXQ8B

Single side ported type

Page 46

1 guide!
4 bodies!

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



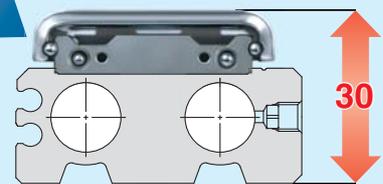
For MXQ12C

Bore size ø12

Height interchangeable type

Page 58

Height interchangeable with the conventional MXQ series.



For MXQ12

Bore size ø12

Series **MXQ**



CAT.EUS20-211B-UK

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
		0.6 kg
		1 kg
		2 kg
		4 kg
		6 kg
		9 kg

Double ported type MXQ□A

Page 2

■ Height reduced by 10% of the conventional model

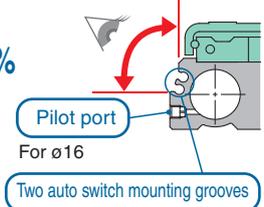
30 mm → 27 mm

Improved visibility

■ Weight reduced by 22%

380 g → 298 g

For MXQ12A-30ZN



■ Piping ports and auto switch mounting grooves are provided on both sides.

Bore size	When the height needs to be the same as the conventional model, choose the MXQ□, height interchangeable type.
ø6 	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 	Purpose of usage ① Purpose of usage ②
ø12 	Purpose of usage ② Guide with higher rigidity is necessary without changing the thrust from the conventional model. Application example • Transfer of a workpiece with an increased overhang • High accuracy and high thrust clamping
ø16 	
ø20 	
ø25 	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

Page 32

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

Single side ported type

MXQ□C

Page 46

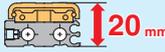
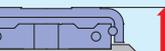
- Compact body with good switch visibility
Applicable to ø8 and ø12 only
- Compact design, with two auto switch mounting grooves on one side

Height interchangeable type

MXQ□

Page 58

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

Bore size	MXQ□B	MXQ□C	MXQ□
—	—	Not available. Use the MXQ□, height interchangeable type.	—
ø6	 20 mm Standard/Symmetric type (Figure shows standard model.)	Not available.	 20 mm Standard/Symmetric type (Figure shows standard model.)
ø8	 23 mm Standard/Symmetric type (Figure shows standard model.)	 21 mm Standard/Symmetric type (Figure shows standard model.)	 23 mm Standard/Symmetric type (Figure shows standard model.)
ø12	 30 mm Standard/Symmetric type (Figure shows standard model.)	 27 mm Standard/Symmetric type (Figure shows standard model.)	 30 mm Standard/Symmetric type (Figure shows standard model.)
ø16	 37 mm Standard/Symmetric type (Figure shows standard model.)	Not available.	 37 mm Standard/Symmetric type (Figure shows standard model.)
ø20	 46 mm Standard/Symmetric type (Figure shows standard model.)	Not available. Use the MXQ□A, double ported type.	 46 mm Standard/Symmetric type (Figure shows standard model.)
ø25	 46 mm Standard/Symmetric type (Figure shows standard model.)	Not available.	 55 mm Standard/Symmetric type (Figure shows standard model.)

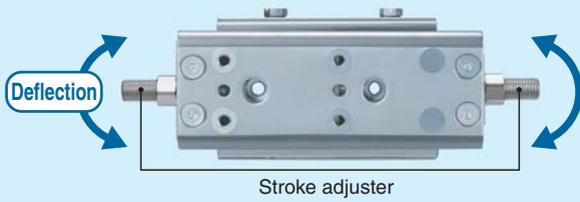
Sizes ø16 and ø20 have two auto switch mounting grooves on both sides.

Sizes ø16, ø20, ø25 have two auto switch mounting grooves on both sides.

Series MXQ

Stroke adjuster (Option)

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



Allowable kinetic energy improved

Allowable kinetic energy improved by reducing weight of the movable parts

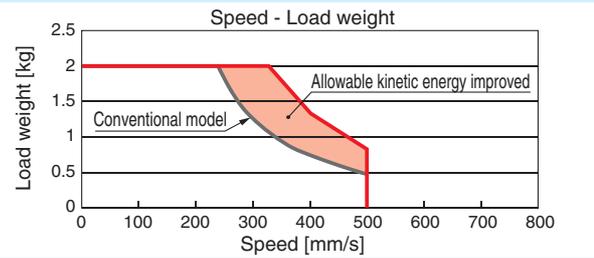
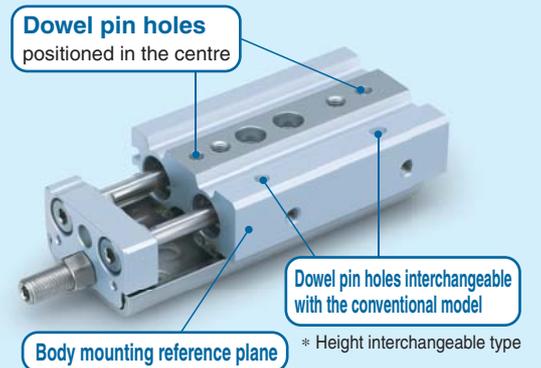
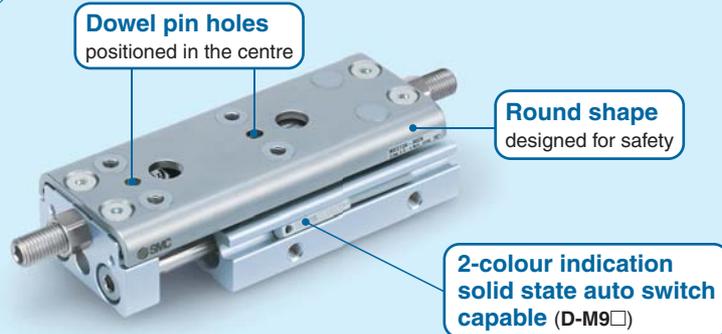


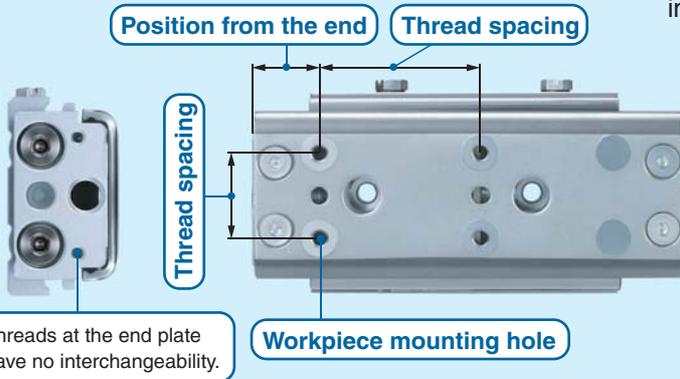
Table configuration for better function and easier maintenance



The mounting dimensions are equivalent to the conventional MXQ series

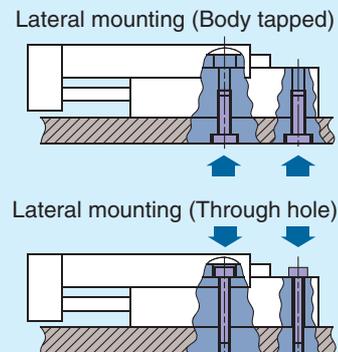
Workpiece mounting

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



Body mounting

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



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**
(Conventional model: 200 mm/sec)
(Compared with a stopper of the conventional MXQ series)

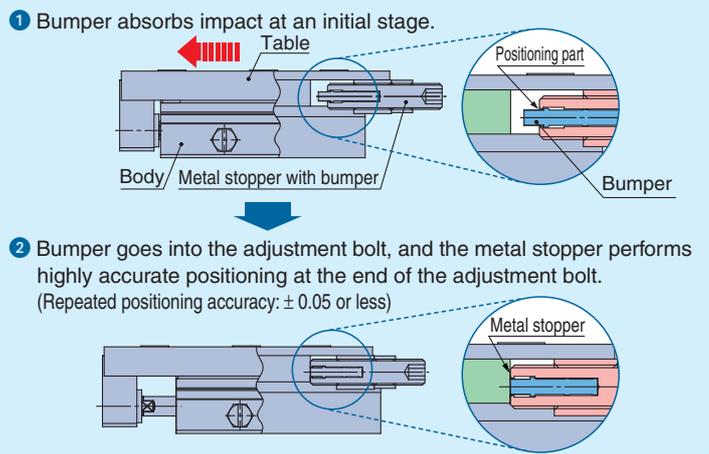
Shock Absorber

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



Double ported type Series *MXQ*□*A*



When the features as shown below are required for $\phi 8$ and $\phi 12$ sizes, refer to the MXQ□C, single side ported type.

- 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 $\phi 8$).

How to Order	Page 2
Specifications	Page 3
Optional Specifications	Page 4
Dimensions: $\phi 6$	Page 7
$\phi 8$	Page 11
$\phi 12$	Page 15
$\phi 16$	Page 19
$\phi 20$	Page 23
$\phi 25$	Page 27

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



How to Order	Page 32
Specifications	Page 33
Optional Specifications	Page 34
Dimensions: $\phi 6$	Page 35
$\phi 8$	Page 37
$\phi 12$	Page 39
$\phi 16$	Page 41
$\phi 20$	Page 43

Single side ported type Series *MXQ*□*C*



When the features as shown below are required for $\phi 8$ and $\phi 12$ sizes, refer to the MXQ□A, double ported type.

- Auto switch mounting groove and air piping are provided on both sides (for increased flexibility in piping and wiring).

How to Order	Page 46
Specifications	Page 47
Dimensions: $\phi 8$	Page 49
$\phi 12$	Page 53

Height interchangeable type Series *MXQ*□



How to Order	Page 58
Specifications	Page 59
Dimensions: $\phi 6$	Page 61
$\phi 8$	Page 65
$\phi 12$	Page 69
$\phi 16$	Page 73
$\phi 20$	Page 77
$\phi 25$	Page 81

■ Common Adjuster Options	Page 85
■ Auto Switch Mounting	Page 87
■ Prior to Use: Auto Switch Connection and Example	Page 88
■ Made to Order	Page 89
■ Model Selection	Page 94
■ Specific Product Precautions	Page 127
■ Safety Instructions	Back cover

Air Slide Table

Double ported type

Series MXQ□A

∅6, ∅8, ∅12, ∅16, ∅20, ∅25

RoHS

How to Order

MXQ 12 A - 30 ZA - M9BW -

• Bore size

Bore size	Standard stroke [mm]
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

• Body option: Double ported type A

• Standard stroke [mm]

• Functional option

Symbol	Functional option
—	Without functional option
1	With buffer
2	With end lock
3	Axial piping <small>Note 7)</small>
4	With buffer, end lock
5	With buffer, axial piping

• Number of auto switches

—	2 pcs.
S	1 pc.
n	"n" pcs.

• Auto switch

—	Without auto switch
---	---------------------

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

• Made to Order
Refer to page 3 for details.

• Adjuster option/Functional option combinations

Symbol	Adjuster type	Adjuster mounting position <small>Note 1)</small>		Functional option combination					
		Extension stroke end	Retraction stroke end	—	1	2	3	4	5
Z	Without adjuster			○	○	○	○	○	○
ZA	Metal stopper with bumper (Not available for ∅6)	●	●	○	×	×	○	×	×
ZB		●	●	○	×	○	○	×	×
ZC		●	●	○	×	×	○	×	×
ZD		●	●	○	×	×	○	×	×
ZE	Rubber stopper	●	●	○	○	○	○	○	○
ZF		●	●	○	×	×	○	×	×
ZG		●	●	○	×	×	○	×	×
ZH	Shock absorber (RJ)	●	●	○	×	○	○	×	×
ZJ		●	●	○	×	×	○	×	×
ZN		●	●	○	×	×	○	×	×
ZP	<small>Note 5)</small> Without adjuster			○	○ <small>Note 6)</small>	×	○	×	○ <small>Note 6)</small>
ZQ	Shorter total length type			○	○	×	○	×	×
ZS	Rubber stopper	●	●	○	×	×	○	×	×
	Shock absorber (RJ)	●	●	○	×	×	○	×	×
	Metal stopper with bumper (Not available for ∅6)	●	●	○	×	×	○	×	×

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 centralised adjuster specification (-X27). End lock or axial piping option cannot be mounted to the centralised adjuster specification model.

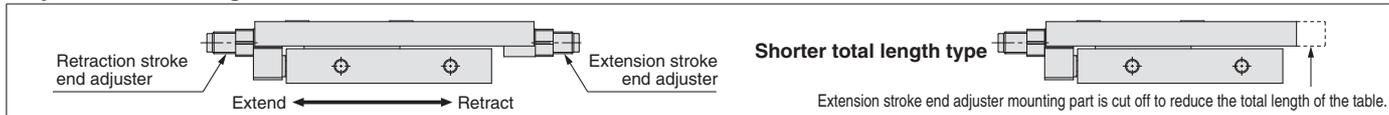
Note 4) Extension stroke end adjuster with end lock mechanism is available as long adjustment nut and bolt specification (-X28). The adjustment nut cannot be tightened with the standard adjuster.

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 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 (—)	1 (M)	3 (L)	5 (Z)		
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	—	M9NV	M9N	●	●	●	○	○	IC
				3-wire (PNP)			M9PV	M9P	●	●	●	○		
				2-wire			M9BV	M9B	●	●	●	○		
				3-wire (NPN)			M9NWV	M9NW	●	●	●	○	IC	
				3-wire (PNP)			M9PWV	M9PW	●	●	●	○		
				2-wire			M9BWW	M9BW	●	●	●	○		
	3-wire (NPN)			M9NAV***	M9NA***	○	○	●	○	IC				
	3-wire (PNP)			M9PAV***	M9PA***	○	○	●	○					
	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 (Example) M9NV * 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 87 for details.

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

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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection



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-colour indication solid state auto switch (2-wire, 3-wire)					
Stroke length tolerance	+2 to 0 mm					

Note) Refer to page 4 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)



Made to Order
(For details, refer to pages 89 to 93.)

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	Centralised 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.

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

Weight

Model	Standard stroke [mm]									Reduction of the shorter total length type	Additional weight of adjuster option		Extra for option		Axial piping
	10	20	30	40	50	75	100	125	150		Extension stroke end	Retraction stroke end	End lock	Buffer	
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		Adjuster option			
	Internal rubber bumper	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		Adjuster option	
	Internal rubber bumper	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-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 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	

 Double ported type
MXQ□A

 Low thrust with high rigidity type
MXQ□B

 Single side ported type
MXQ□C

 Height interchangeable type
MXQ□

 Common Adjuster
Options

 Auto Switch
Mounting

Made to Order

Model Selection

Series MXQ□A

Cylinder with Stable Lubrication Function (Lube-retainer)

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



• With stable lubrication function (Lube-retainer)

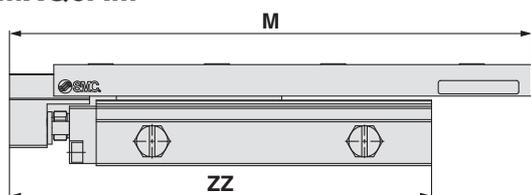
Specifications

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

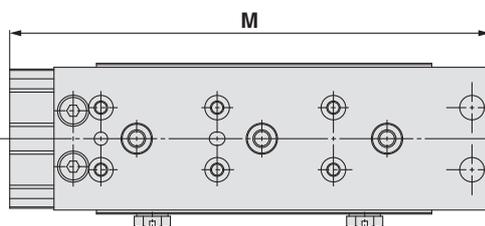
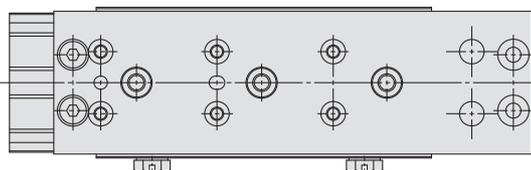
* Specifications other than listed above are the same as those for the standard type.

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

MXQ6AM

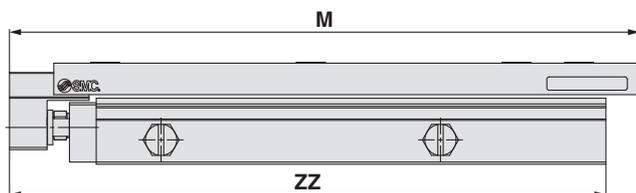


Model	M [mm]		ZZ [mm]
	Standard type	Shorter total length type	
MXQ6AM-10Z	74	64.5	69.5
MXQ6AM-20Z	84	74.5	69.5
MXQ6AM-30Z	105	95.5	82.5
MXQ6AM-40Z	117	107.4	94.5
MXQ6AM-50Z	127	117.5	104.5

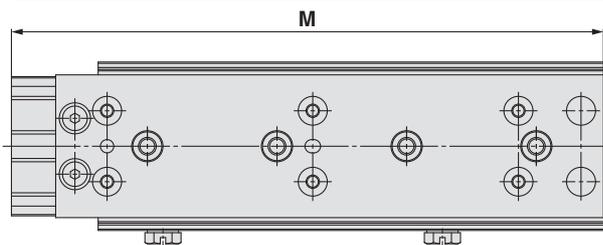
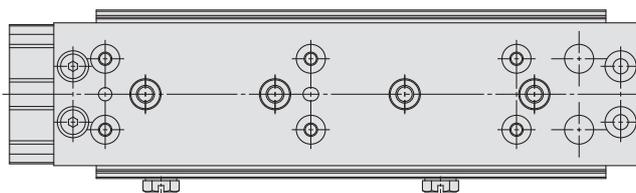


Shorter total length type

MXQ8AM



Model	M [mm]		ZZ [mm]
	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



Shorter total length type

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

Model Selection	Made to Order	Auto Switch Mounting	Common Adjuster Options	Height interchangeable type MXQ□	Single side ported type MXQ□C	Low thrust with high rigidity type MXQ□B	Double ported type MXQ□A
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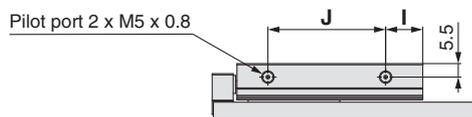
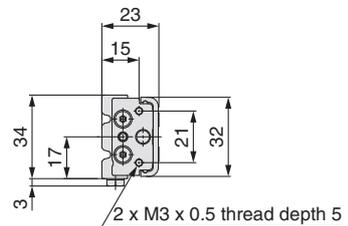
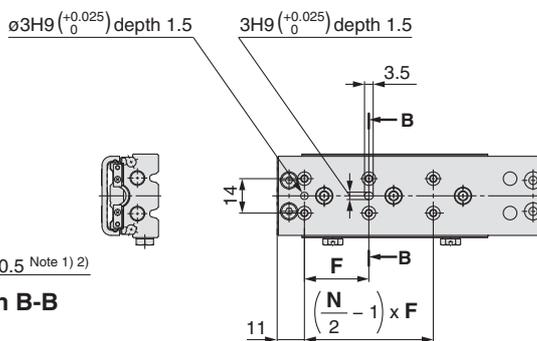
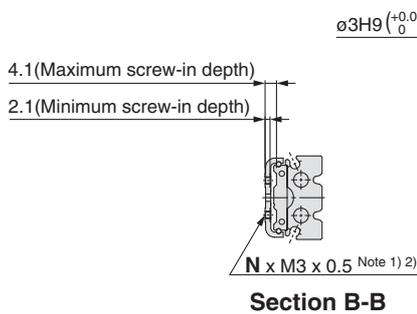
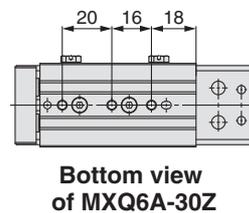
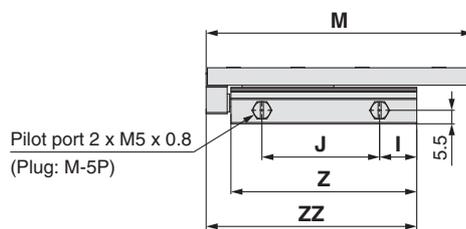
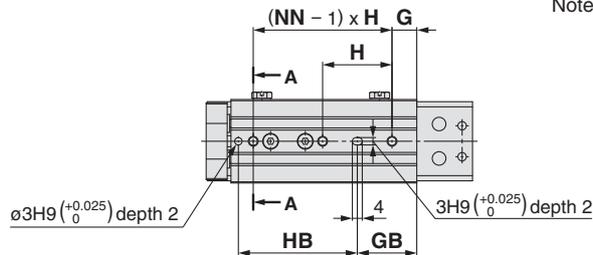
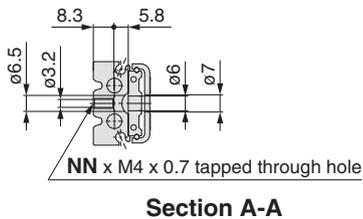
Series MXQ□A

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 an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

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



Dimensions

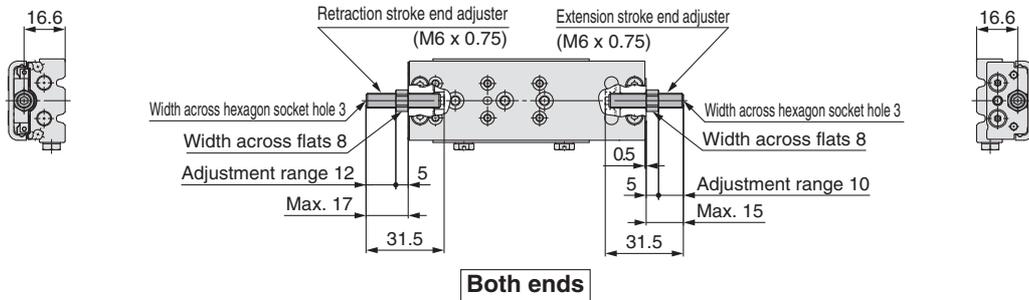
Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
MXQ6A-10Z	22	18	9	23	38	10	27.5	64.5	4	2	50	60
MXQ6A-20Z	25	15	9	26	38	10	27.5	74.5	4	2	50	60
MXQ6A-30Z	21	—	12	—	48	13	37.5	95.5	6	3	63	73
MXQ6A-40Z	26	10	24	28	48	15	47.5	107.5	6	3	75	85
MXQ6A-50Z	27	20	34	28	48	15	57.5	117.5	6	3	85	95

[mm]

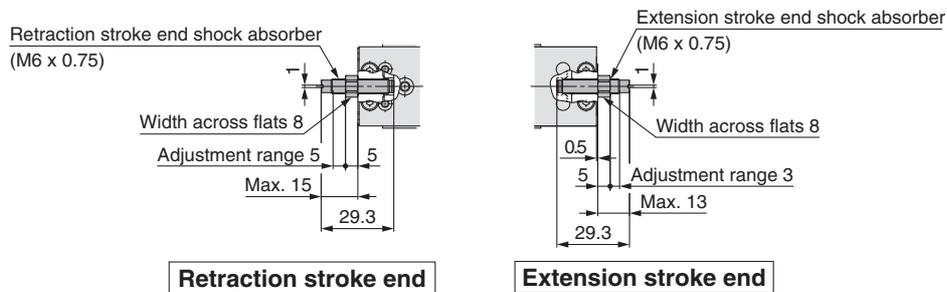
Dimensions: MXQ **6A** [Adjuster Option]

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)

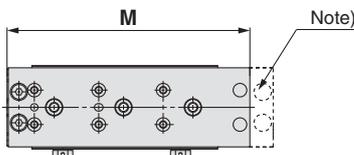


Shock absorber (RJ) **ZG** : Both ends, **ZH** : Extension stroke end, **ZJ** : Retraction stroke end, **ZQ** : Retraction stroke end (Shorter total length type)



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

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



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

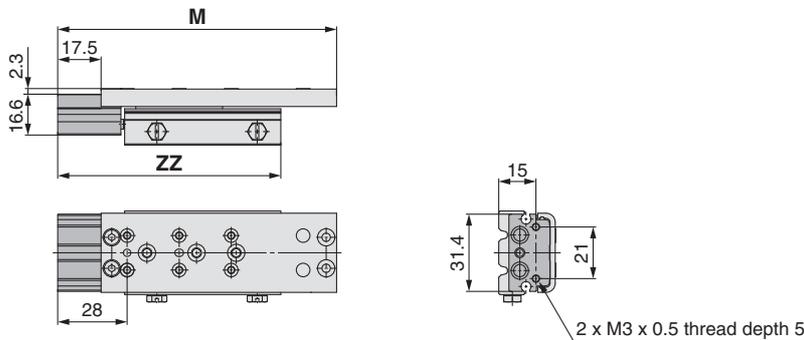
Made to Order

Model Selection

Series MXQ□A

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

MXQ **6A**-□**Z**□**1** With buffer (ø6)

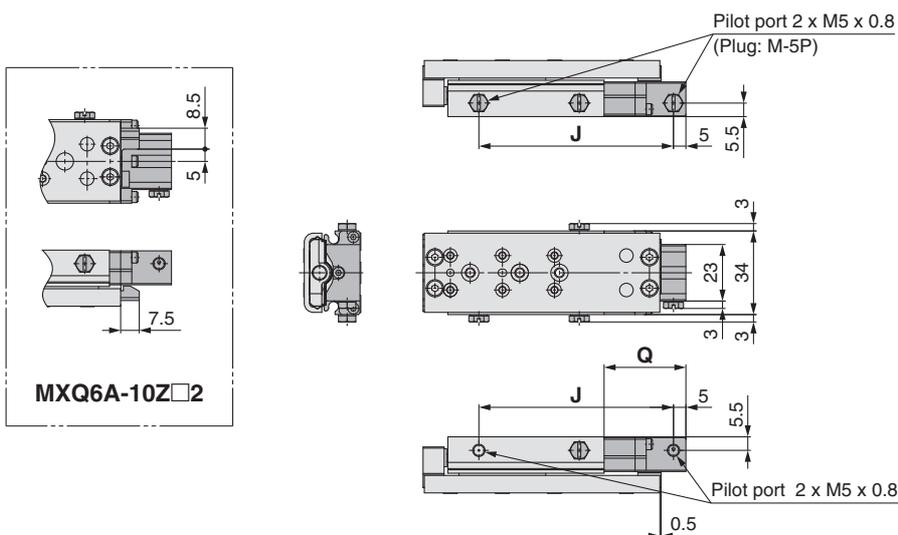


Dimensions [mm]

Model	Standard type		ZZ
	M	Shorter total length type	
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

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

MXQ **6A**-□**Z**□**2** With end lock, without adjuster (ø6)



Dimensions [mm]

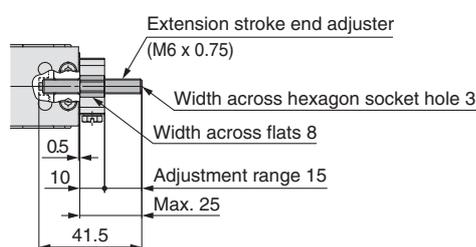
Model	Standard type	
	J	Q
MXQ6A-10Z□2	57.5	25
MXQ6A-20Z□2		
MXQ6A-30Z□2	78.5	33
MXQ6A-40Z□2	90.5	
MXQ6A-50Z□2	100.5	

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

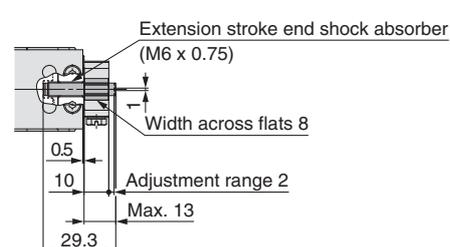
MXQ **6A**-□**Z**□**2** With end lock, extension stroke end adjuster (ø6)

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**



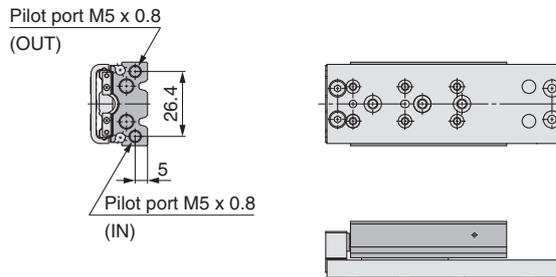
Shock absorber (RJ): **ZH**



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

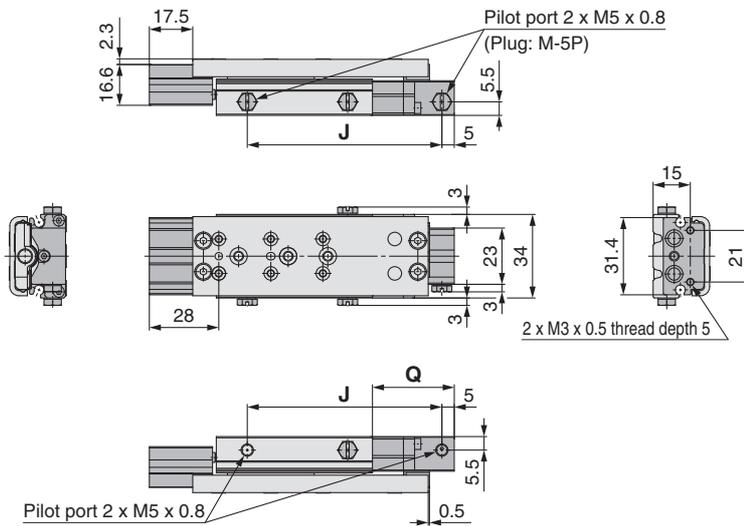
Dimensions: MXQ **6A** [Functional Option]

MXQ **6A-□Z□3** Axial piping (ø6)

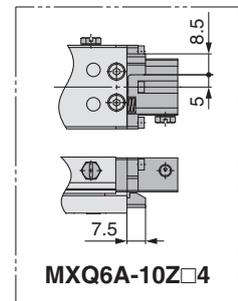


* Dimensions other than listed above are the same as those for the standard type.

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

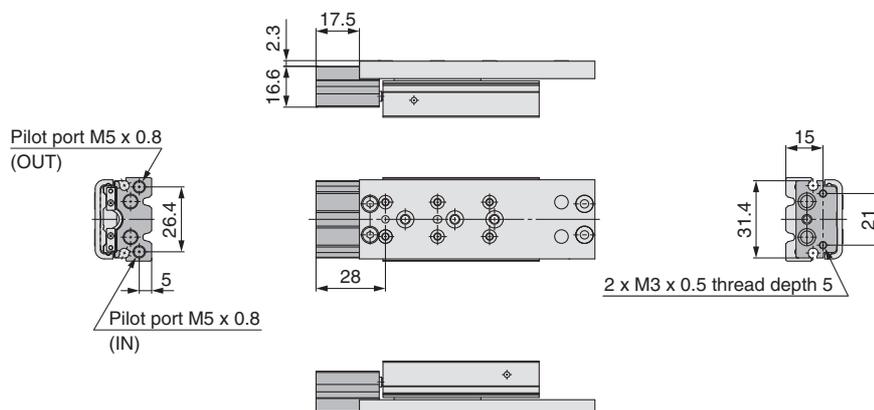


Dimensions		[mm]	
Model	J	Q	
MXQ6A-10Z□4	57.5	25	
MXQ6A-20Z□4			
MXQ6A-30Z□4	78.5	33	
MXQ6A-40Z□4	90.5		
MXQ6A-50Z□4	100.5		



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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

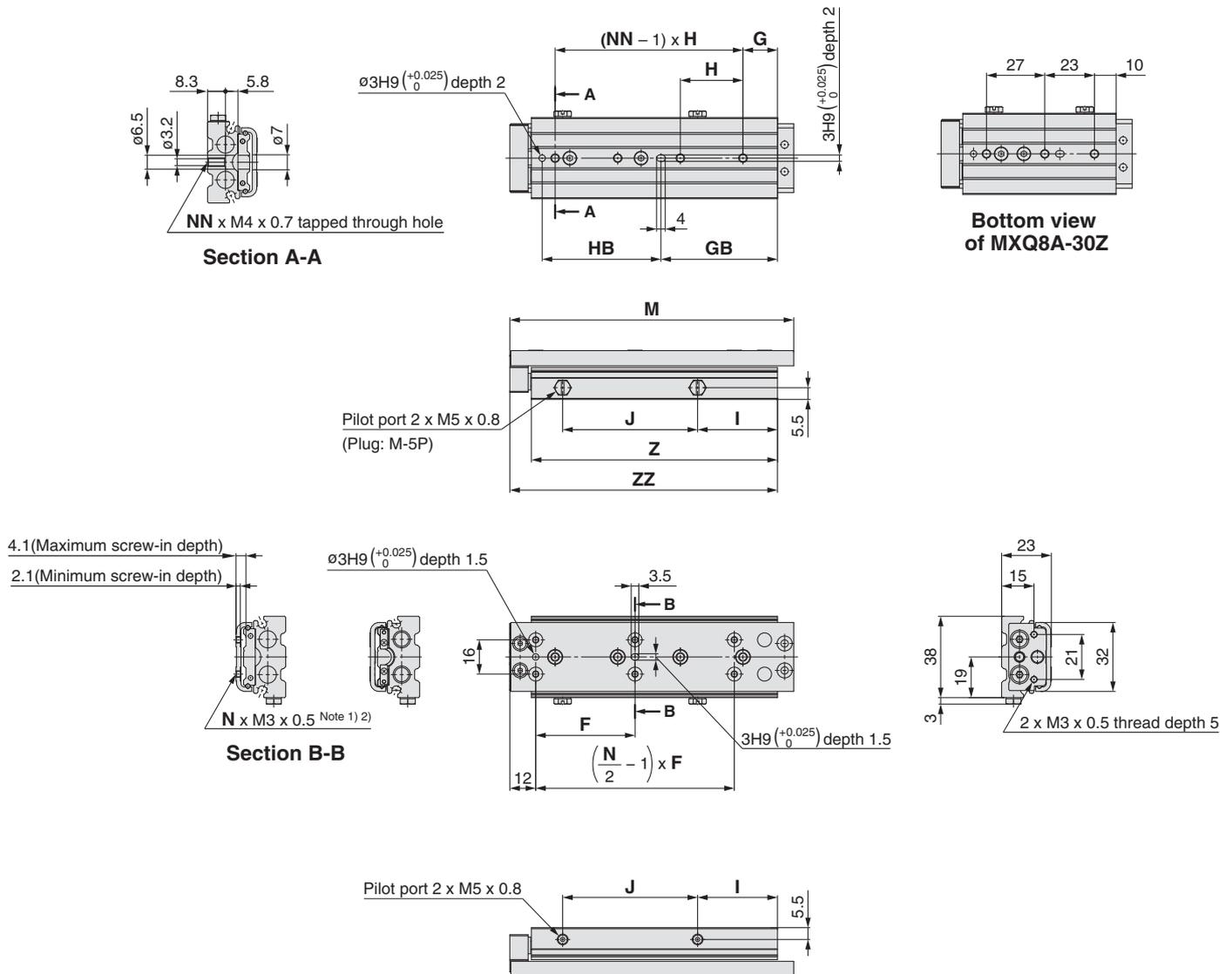
Made to Order

Model Selection

Series MXQ□A

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 an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

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

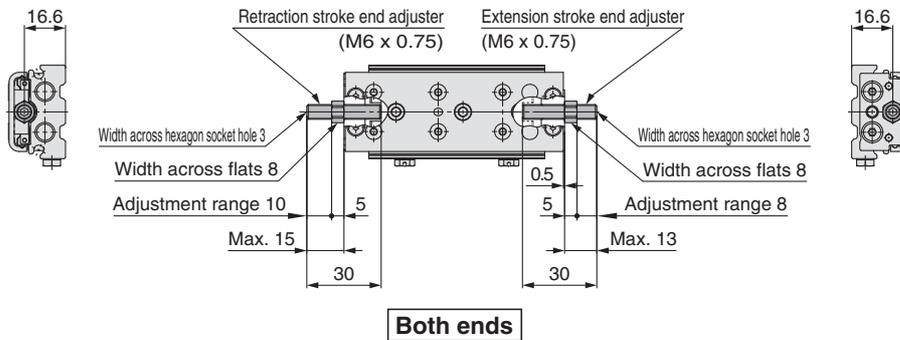
Dimensions

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

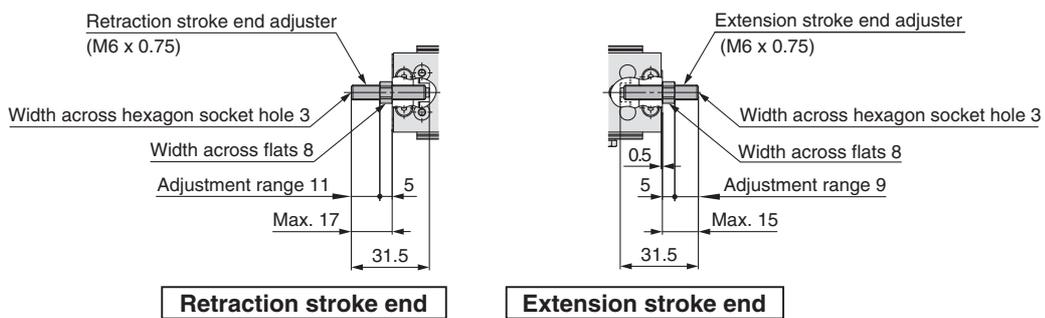
Dimensions: MXQ **8A** [Adjuster Option]

MXQ 8A-□ With adjuster option (ø8)

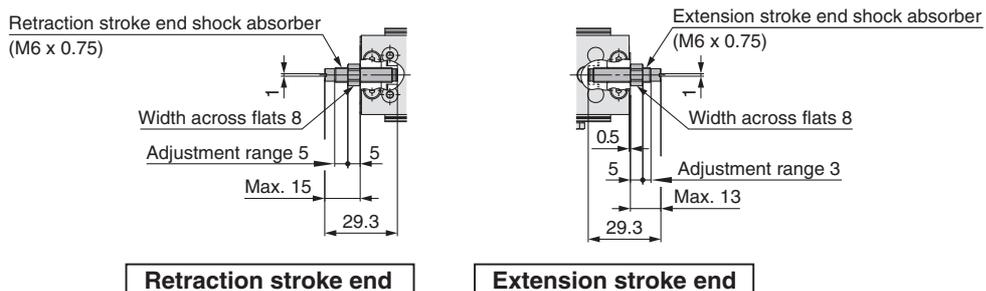
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



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

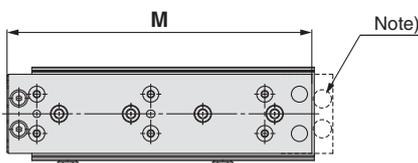


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



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

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



* 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

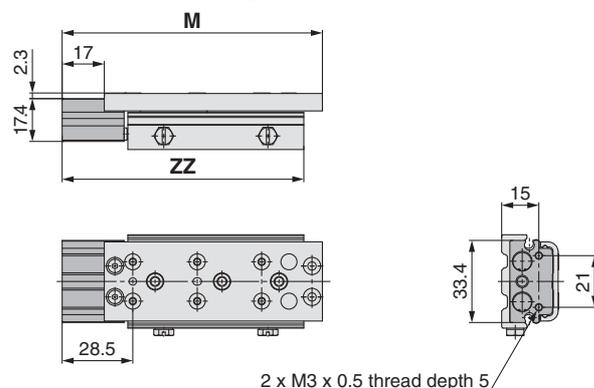
Made to Order

Model Selection

Series MXQ□A

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

MXQ 8A-□Z□1 With buffer (ø8)

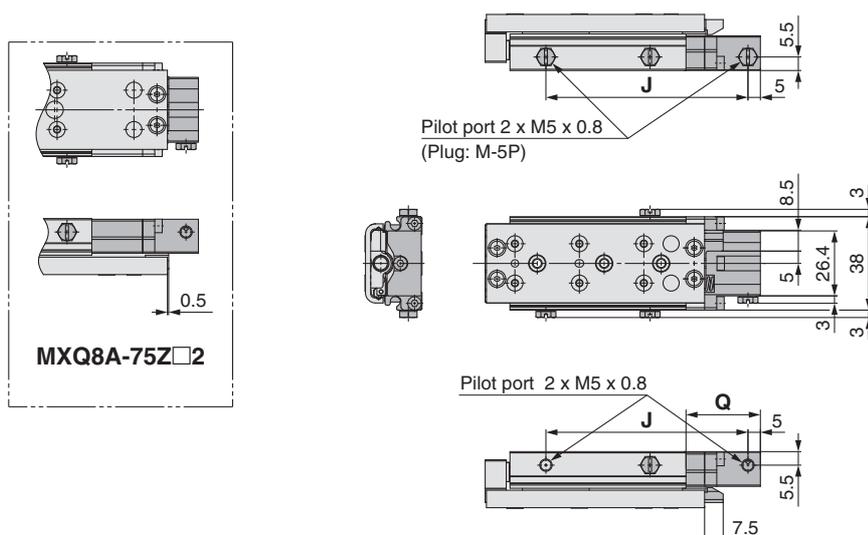


Dimensions [mm]

Model	Standard type	Shorter total length type	ZZ
	M	M	
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-□Z□2 With end lock (ø8)



Dimensions [mm]

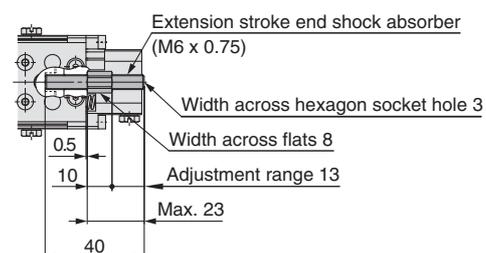
Model	J		Q
	J	Q	
MXQ8A-10Z□2	61.5		30
MXQ8A-20Z□2	71.5		
MXQ8A-30Z□2	81.5		
MXQ8A-40Z□2	97.5		
MXQ8A-50Z□2	124.5		
MXQ8A-75Z□2	139.5	43	

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

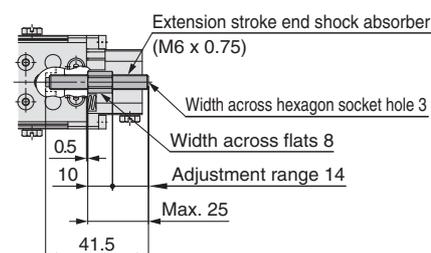
MXQ 8A-□Z□2 With end lock, extension stroke end adjuster (ø8)

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.

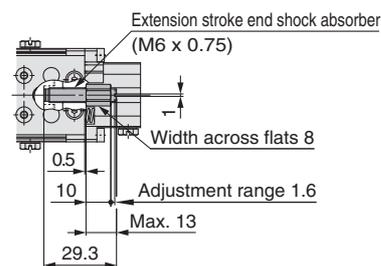
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



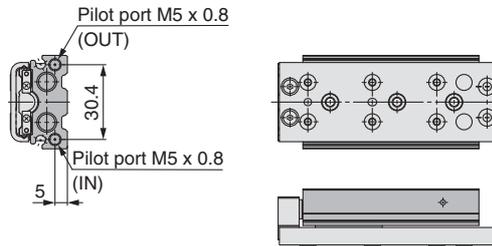
Shock absorber (RJ): **ZH**



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

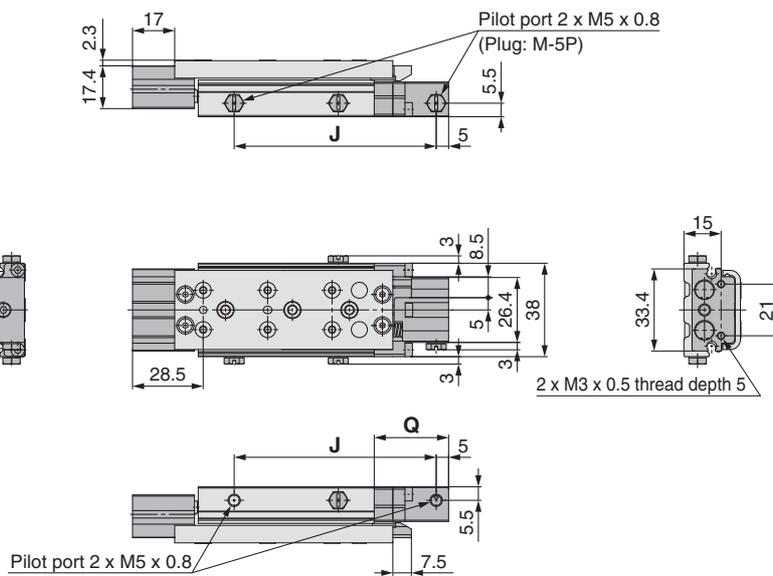
Dimensions: MXQ **8A** [Functional Option]

MXQ **8A-□Z□3** Axial piping (ø8)

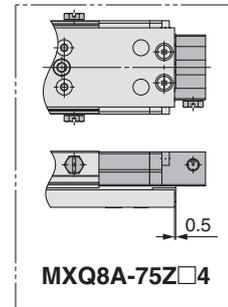


* Dimensions other than listed above are the same as those for the standard type.

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

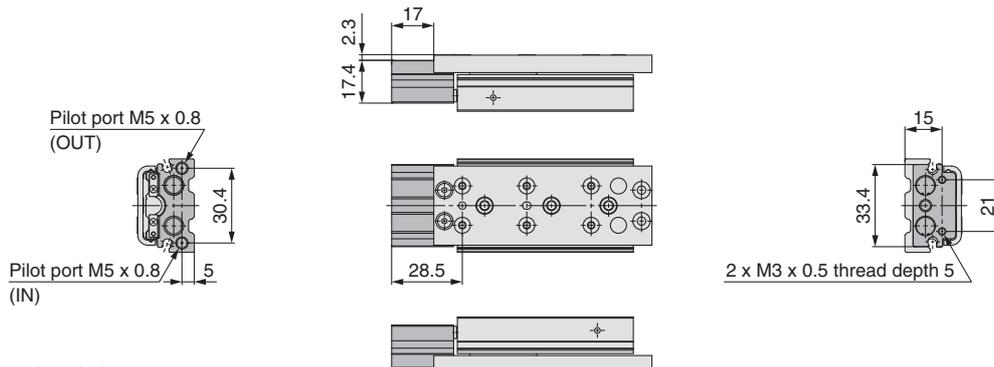


Dimensions		[mm]	
Model	J	Q	
MXQ8A-10Z□4	61.5		30
MXQ8A-20Z□4	71.5		
MXQ8A-30Z□4	81.5		
MXQ8A-40Z□4	97.5		43
MXQ8A-50Z□4	124.5		
MXQ8A-75Z□4	139.5	43	



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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

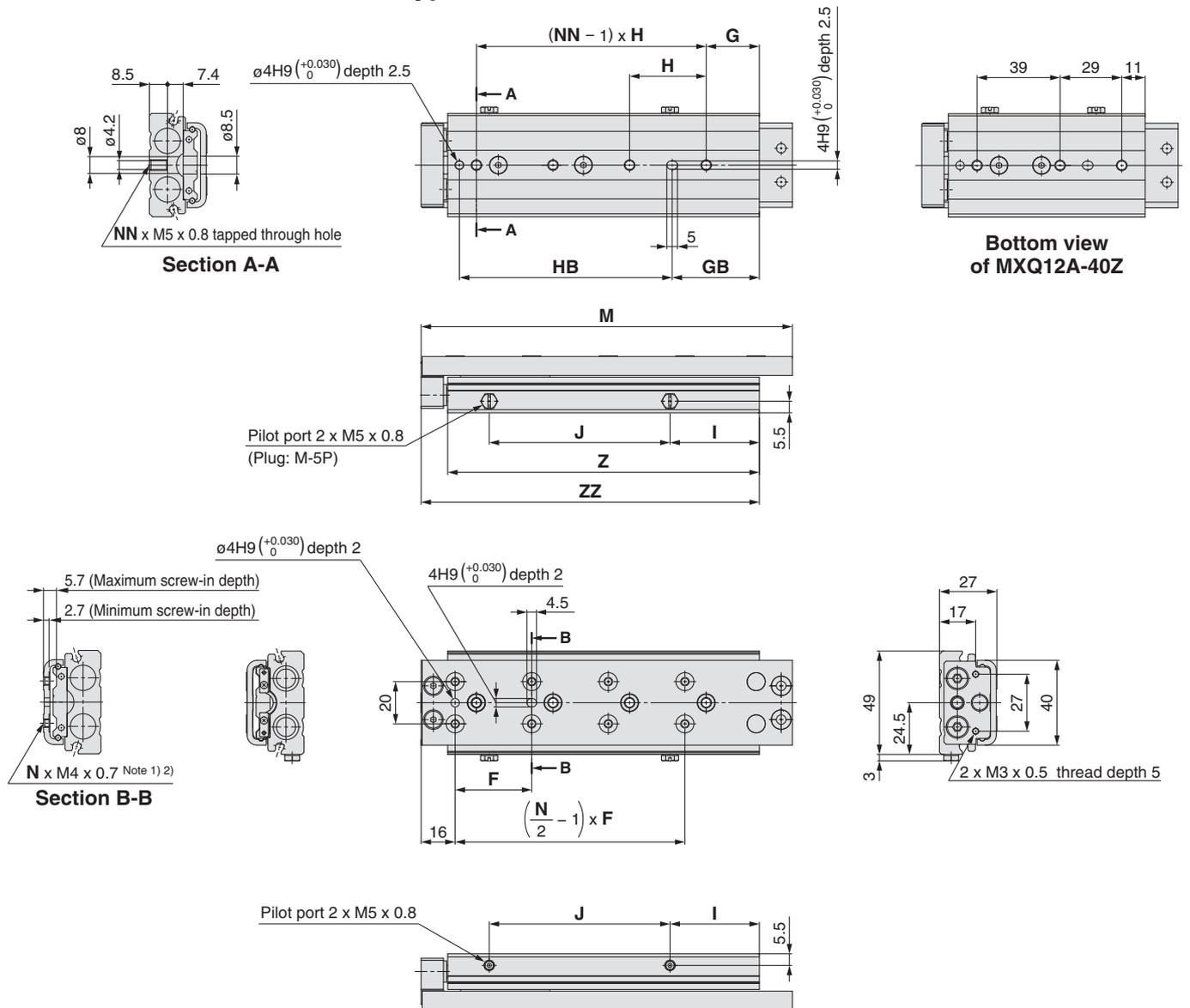
Made to Order

Model Selection

Series MXQ□A

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

MXQ 12A-□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 an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

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

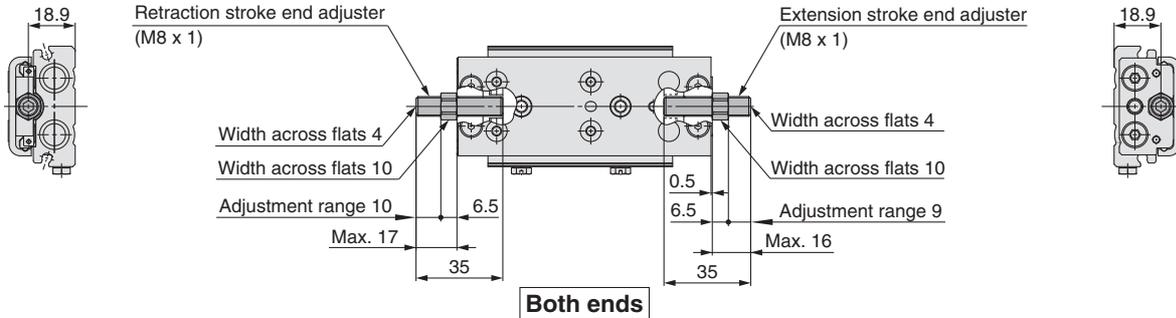
Dimensions

Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
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

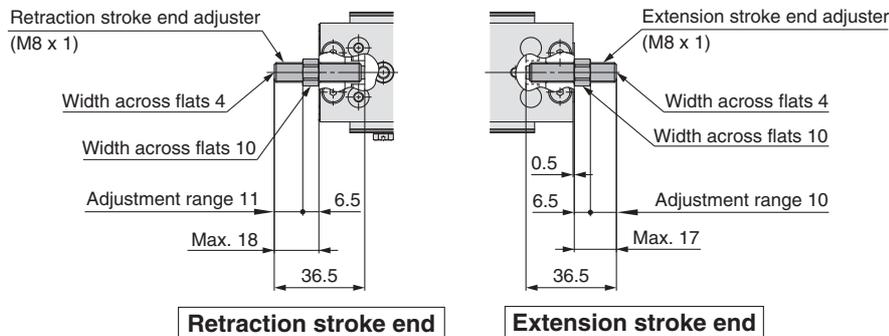
Dimensions: MXQ **12A** [Adjuster Option]

MXQ 12A-□□ With adjuster option (∅12)

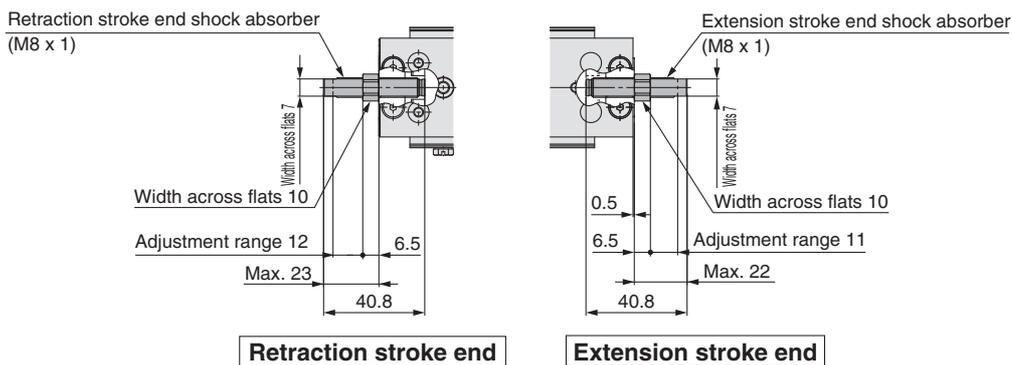
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



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

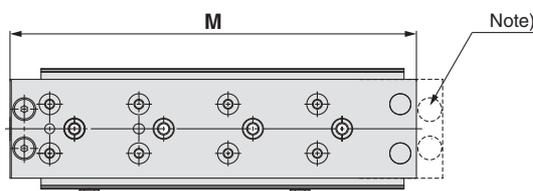


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



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

MXQ 12A-□ZN Shorter total length type



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

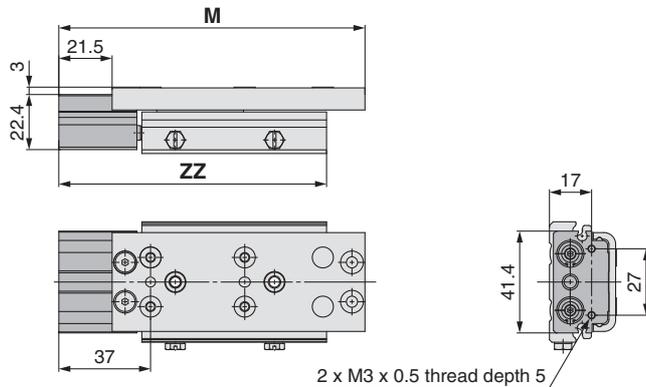
Made to Order

Model Selection

Series MXQ□A

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

MXQ 12A-□Z□1 With buffer (ø12)

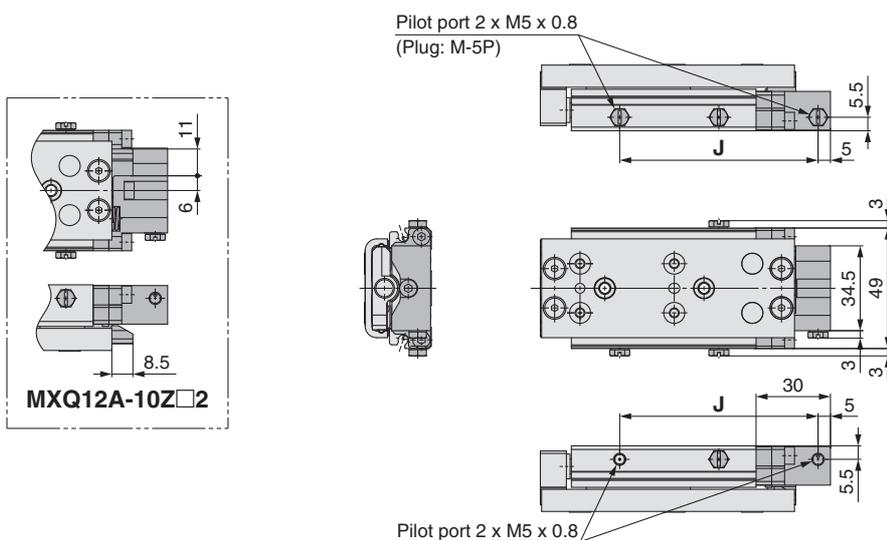


Dimensions [mm]

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

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

MXQ 12A-□Z□2 With end lock (ø12)



Dimensions [mm]

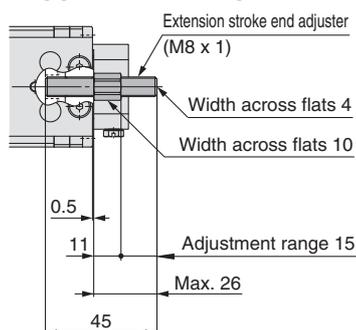
Model	J
MXQ12A-10Z□2	68
MXQ12A-20Z□2	70
MXQ12A-30Z□2	80
MXQ12A-40Z□2	98
MXQ12A-50Z□2	108
MXQ12A-75Z□2	152
MXQ12A-100Z□2	177

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

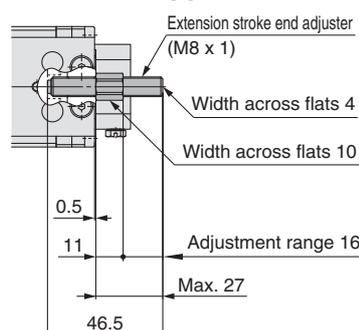
MXQ 12A-□Z□2 With end lock, extension stroke end adjuster (ø12)

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.

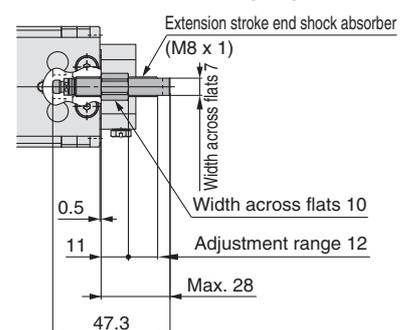
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



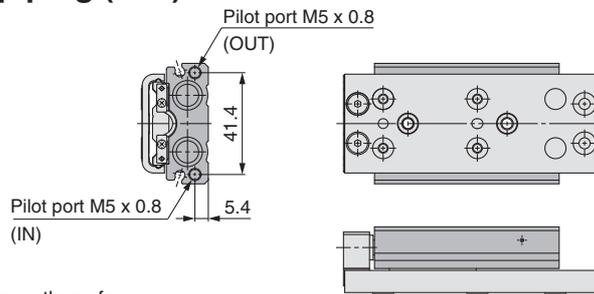
Shock absorber (RJ): **ZH**



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

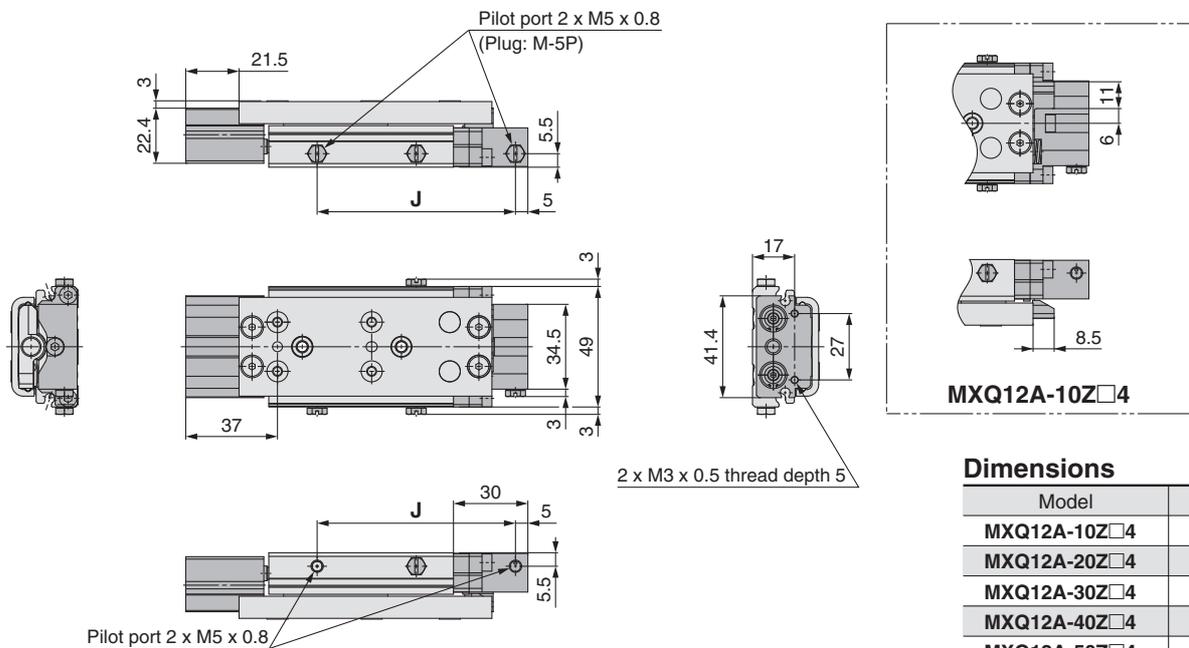
Dimensions: MXQ **12A** [Functional Option]

MXQ **12A-□Z□3** Axial piping (ø12)



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

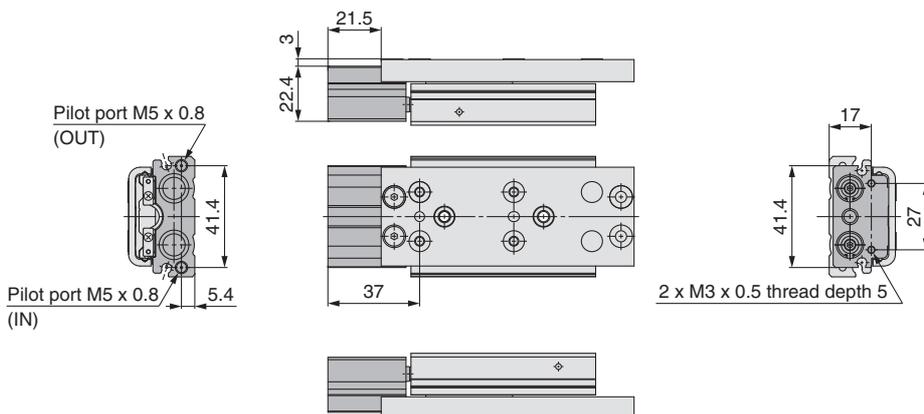
MXQ **12A-□Z□4** With buffer, end lock (ø12)



Dimensions [mm]	
Model	J
MXQ12A-10Z□4	68
MXQ12A-20Z□4	70
MXQ12A-30Z□4	80
MXQ12A-40Z□4	98
MXQ12A-50Z□4	108
MXQ12A-75Z□4	152
MXQ12A-100Z□4	177

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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

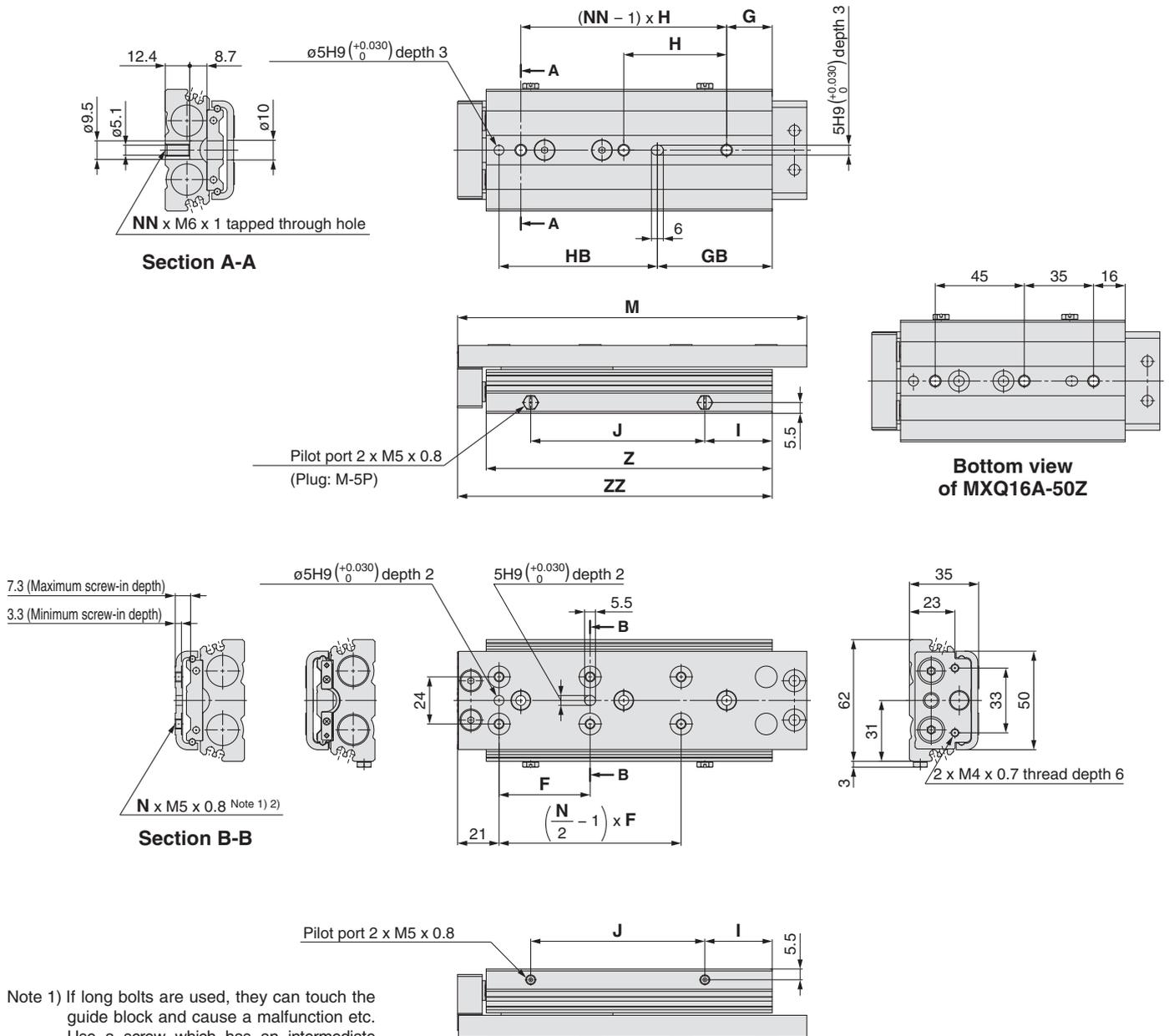
Made to Order

Model Selection

Series MXQ□A

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 an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

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

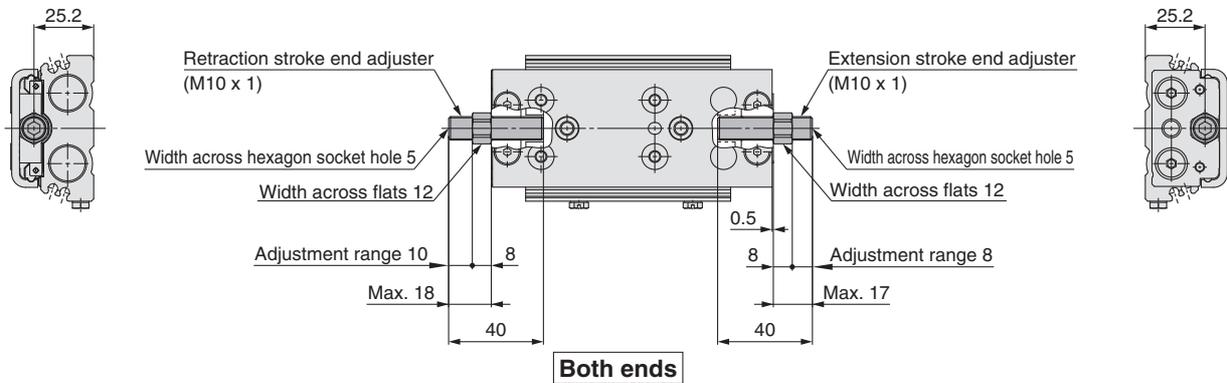
Dimensions

Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
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

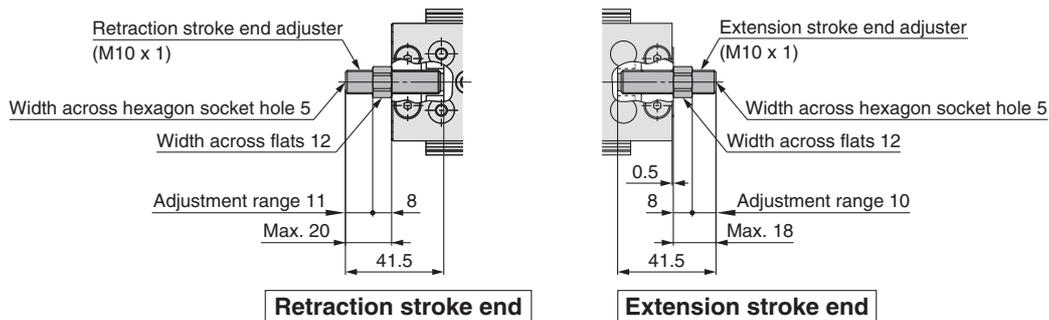
Dimensions: MXQ **16A** [Adjuster Option]

MXQ 16A-□□□□ With adjuster option (∅16)

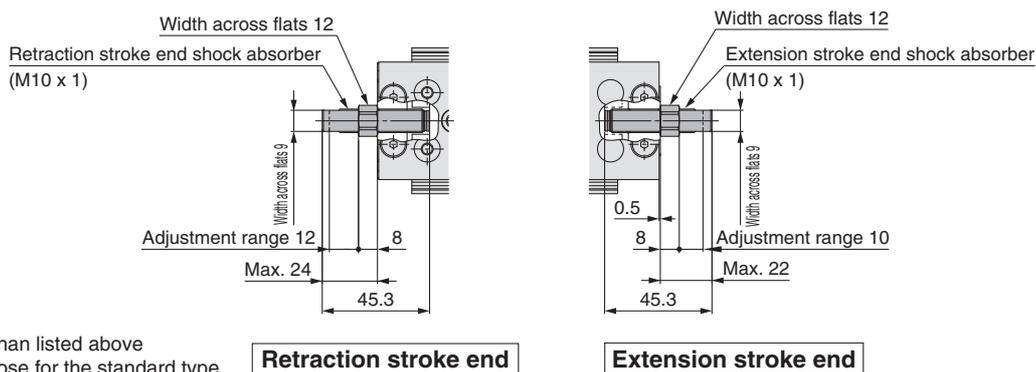
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



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

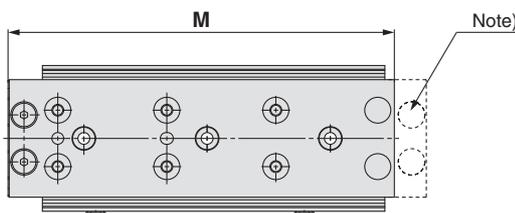


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



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

MXQ 16A-□□ZN Shorter total length type



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

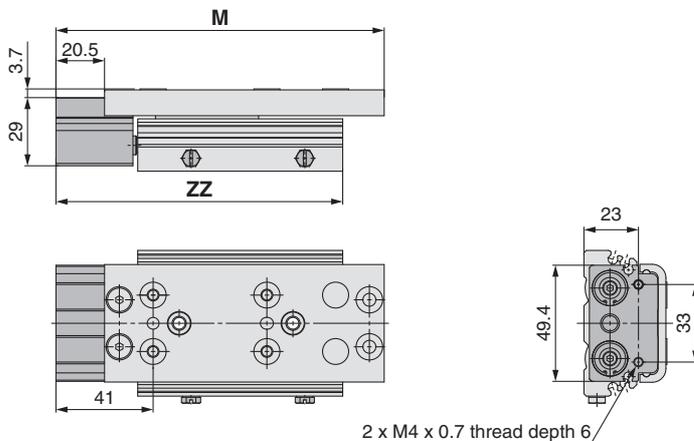
Made to Order

Model Selection

Series MXQ□A

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

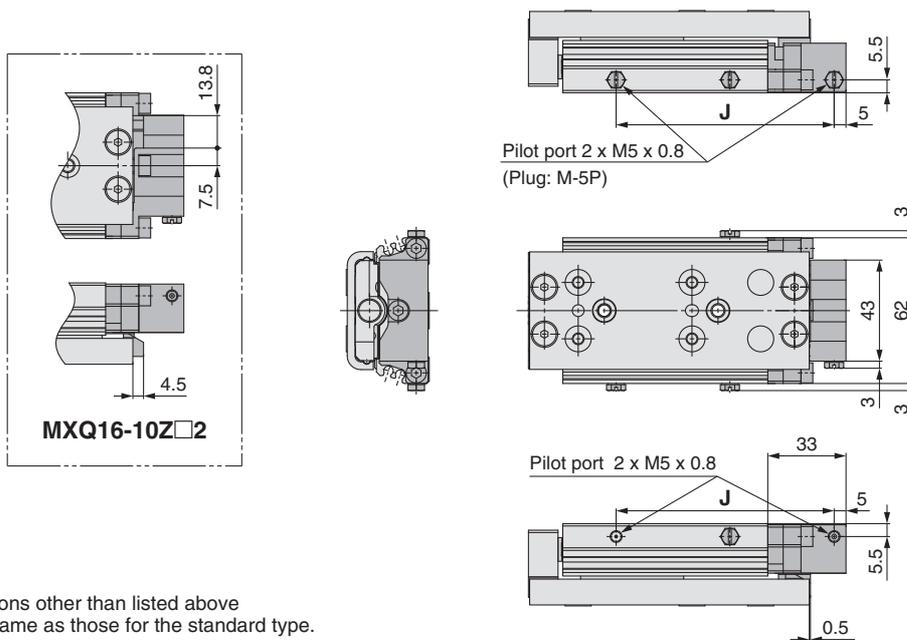
MXQ 16A-□Z□1 With buffer (ø16)



Dimensions [mm]

Model	Standard type		Shorter total length type
	M	M	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-□Z□2 With end lock (ø16)



Dimensions [mm]

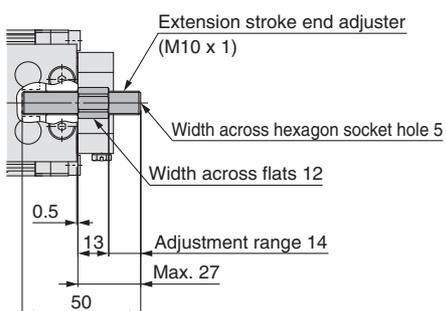
Model	J
MXQ16A-10Z□2	78
MXQ16A-20Z□2	82
MXQ16A-30Z□2	92
MXQ16A-40Z□2	109
MXQ16A-50Z□2	119
MXQ16A-75Z□2	150
MXQ16A-100Z□2	194
MXQ16A-125Z□2	219

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

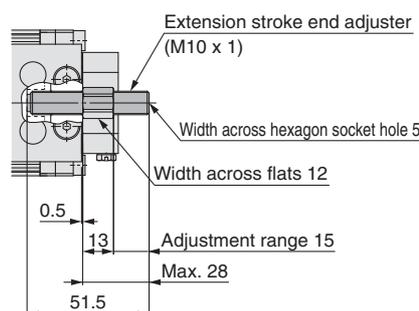
MXQ 16A-□Z□2 With end lock, extension stroke end adjuster (ø16)

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.

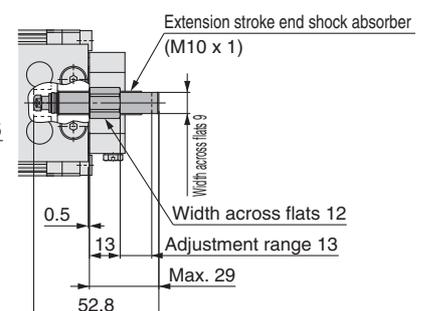
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



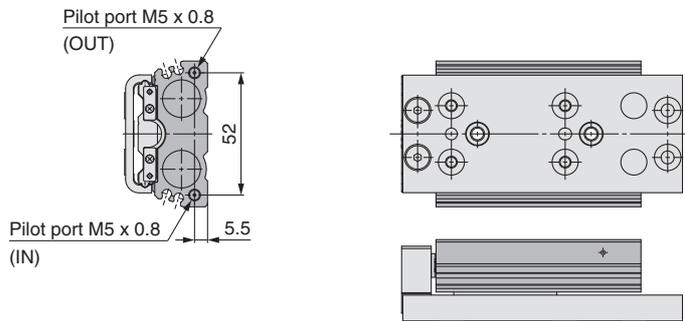
Shock absorber (RJ): **ZH**



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

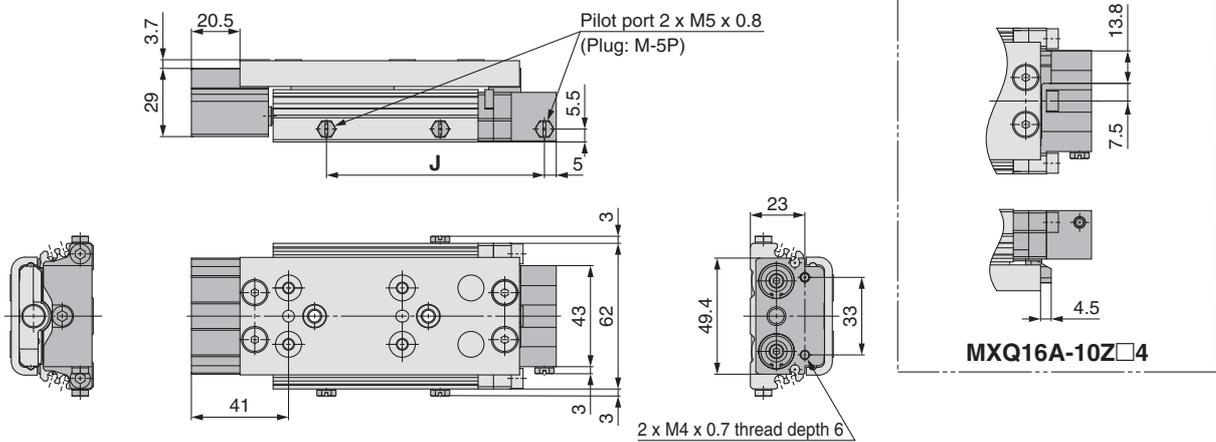
Dimensions: MXQ **16A** [Functional Option]

MXQ **16A-□Z□3** Axial piping (ø16)



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

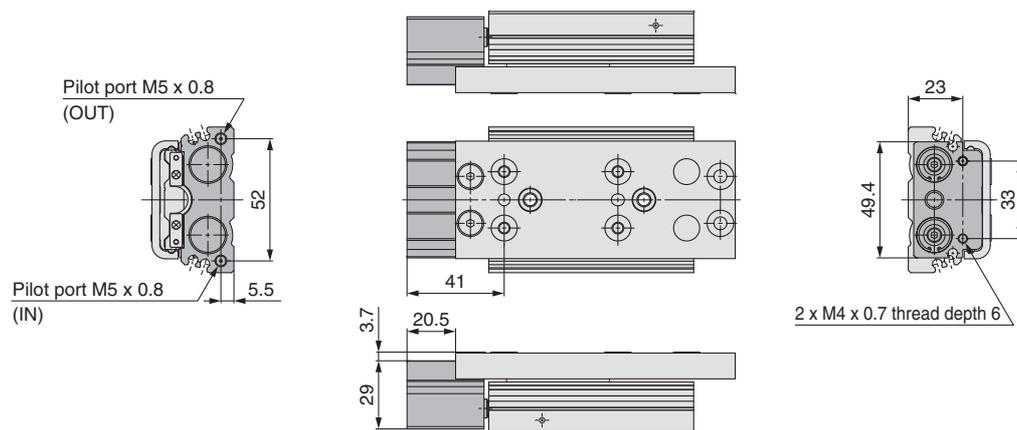
MXQ **16A-□Z□4** With buffer, end lock (ø16)



Dimensions [mm]	
Model	J
MXQ16A-10Z□4	78
MXQ16A-20Z□4	82
MXQ16A-30Z□4	92
MXQ16A-40Z□4	109
MXQ16A-50Z□4	119
MXQ16A-75Z□4	150
MXQ16A-100Z□4	194
MXQ16A-125Z□4	219

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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

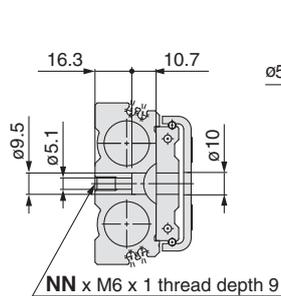
Made to Order

Model Selection

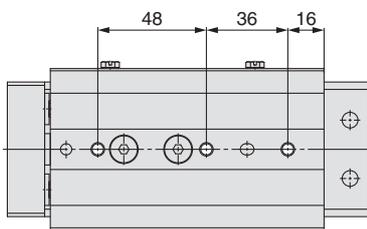
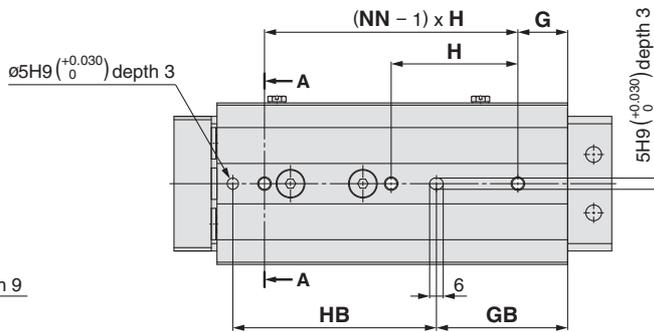
Series MXQ□A

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

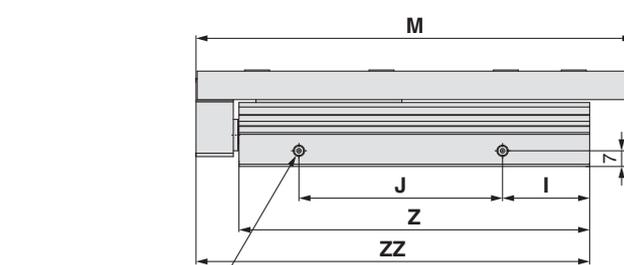
MXQ **20A-□Z** Standard type



Section A-A

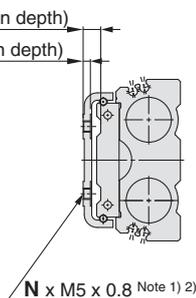


Bottom view
of MXQ20A-50Z

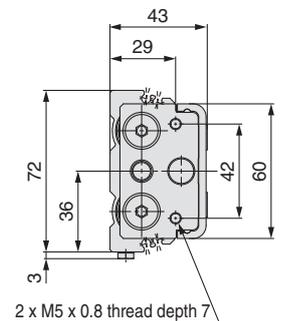
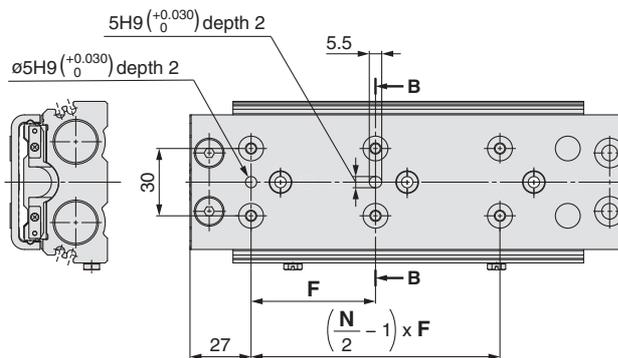


Pilot port 2 x M5 x 0.8
(Plug: M-5P)

7.3 (Maximum screw-in depth)
3.3 (Minimum screw-in depth)

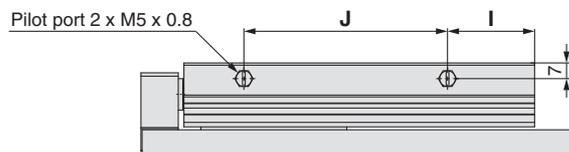


Section B-B



Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

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



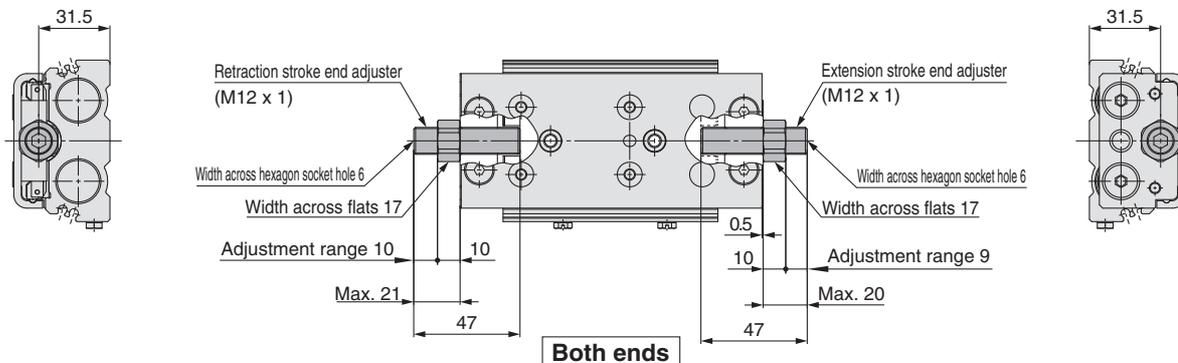
Dimensions

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

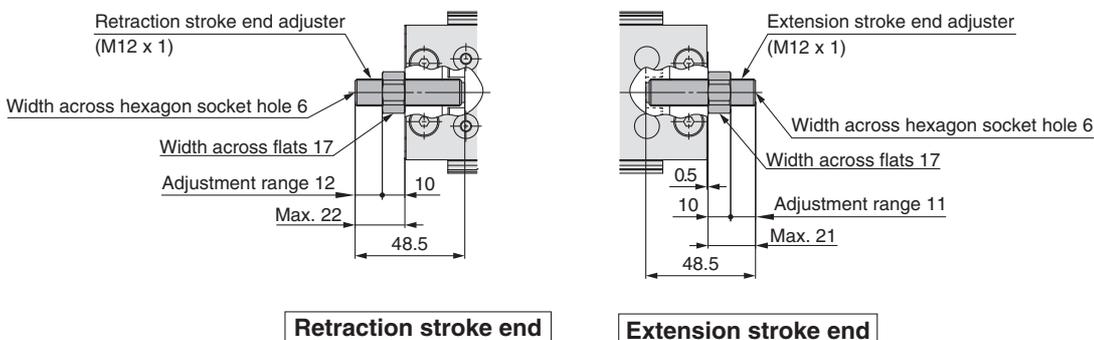
Dimensions: MXQ **20A** [Adjuster Option]

MXQ 20A-□□□□ With adjuster option (∅20)

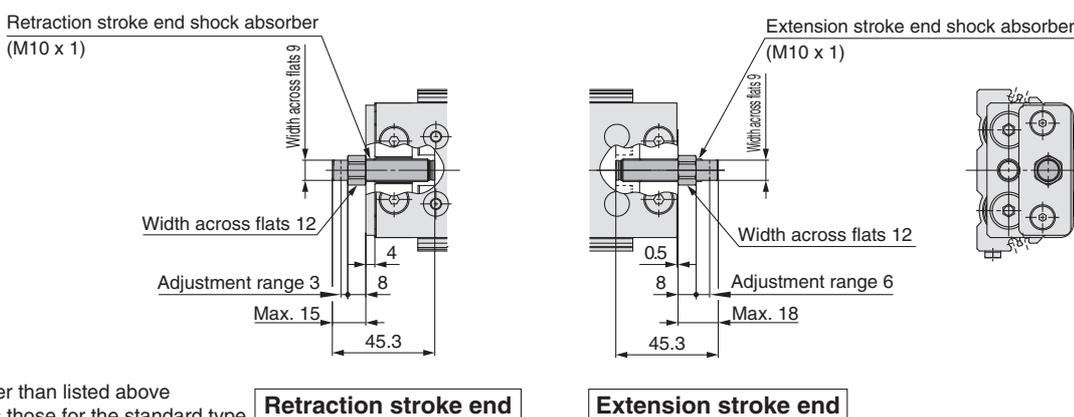
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



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

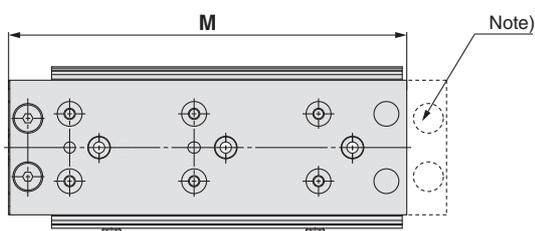


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



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

MXQ 20A-□□ZN Shorter total length type



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

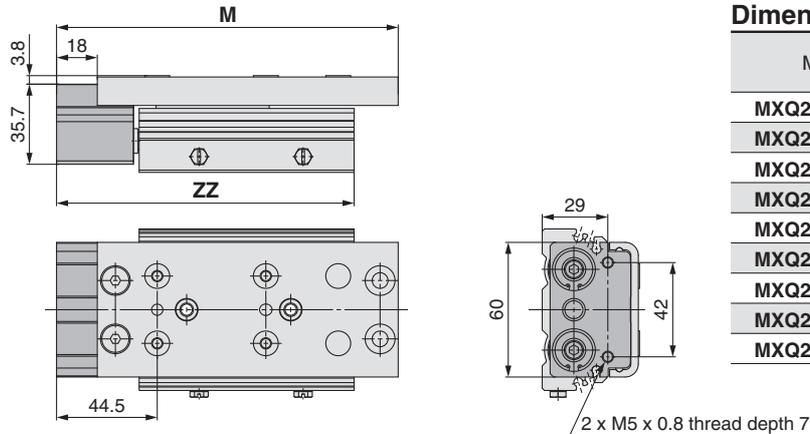
Made to Order

Model Selection

Series MXQ□A

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

MXQ 20A-□Z□1 With buffer (ø20)

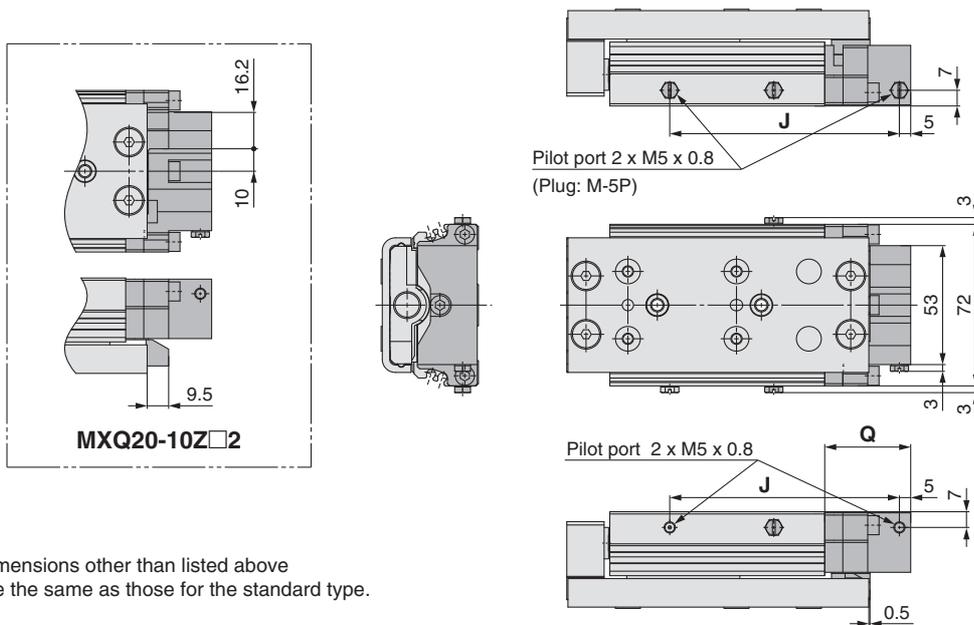


Dimensions [mm]

Model	Standard type		ZZ
	M	Shorter total length type	
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-□Z□2 With end lock (ø20)



Dimensions [mm]

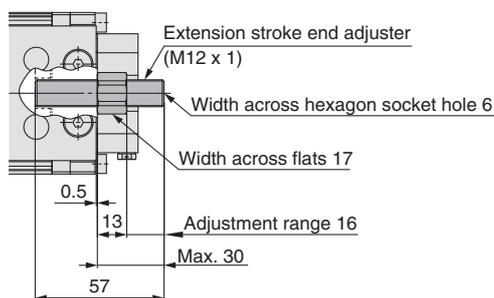
Model	Standard type	
	J	Q
MXQ20A-10Z□2	91.5	38
MXQ20A-20Z□2		
MXQ20A-30Z□2	101.5	
MXQ20A-40Z□2	111.5	
MXQ20A-50Z□2	127.5	61
MXQ20A-75Z□2	161.5	
MXQ20A-100Z□2	234.5	
MXQ20A-125Z□2	259.5	
MXQ20A-150Z□2	284.5	

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

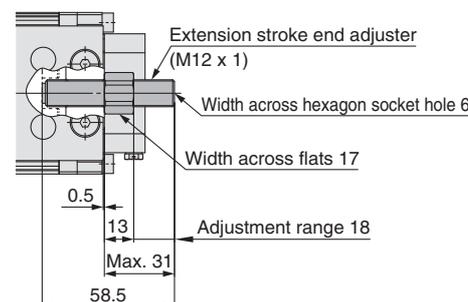
MXQ 20A-□Z□2 With end lock, extension stroke end adjuster (ø20)

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.

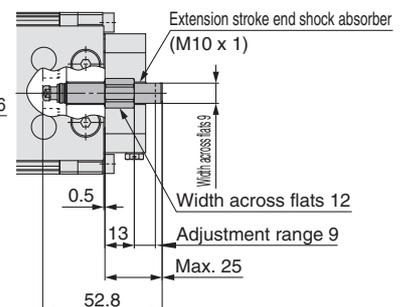
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



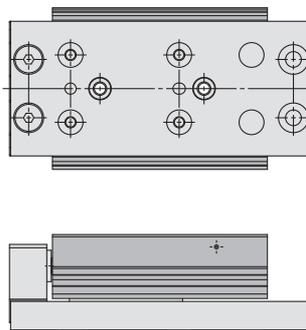
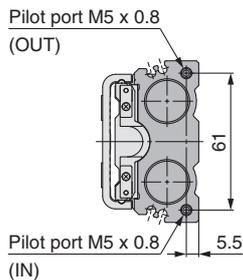
Shock absorber (RJ): **ZH**



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

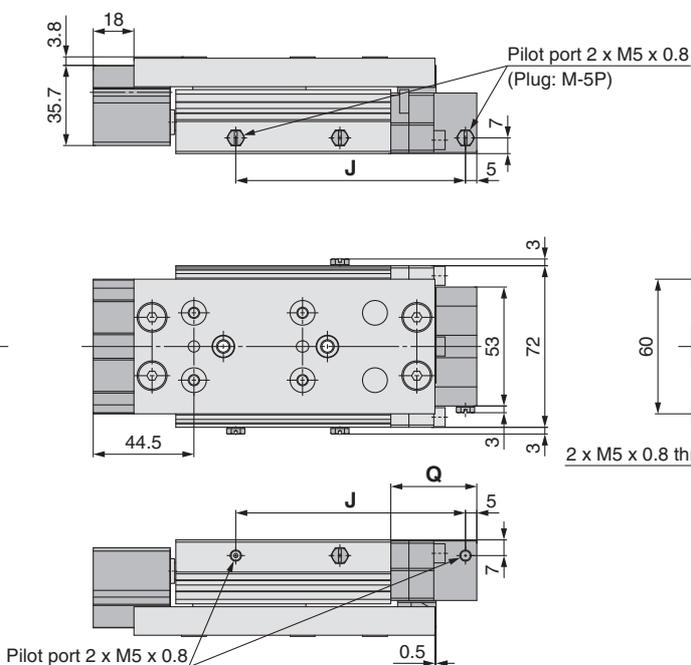
Dimensions: MXQ **20A** [Functional Option]

MXQ 20A-□Z□3 Axial piping (ø20)

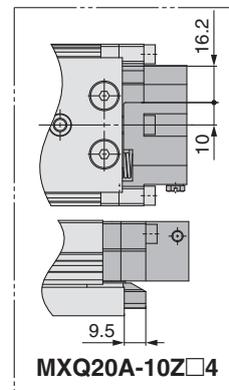


* Dimensions other than listed above are the same as those for the standard type.

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

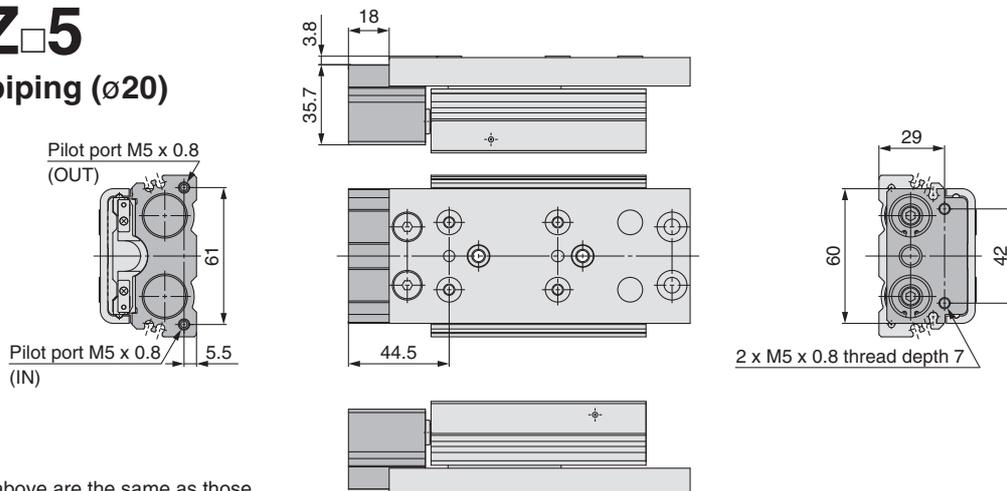


Dimensions [mm]		
Model	J	Q
MXQ20A-10Z□4	91.5	38
MXQ20A-20Z□4		
MXQ20A-30Z□4		
MXQ20A-40Z□4		
MXQ20A-50Z□4		
MXQ20A-75Z□4	161.5	61
MXQ20A-100Z□4		
MXQ20A-125Z□4		
MXQ20A-150Z□4	284.5	



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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

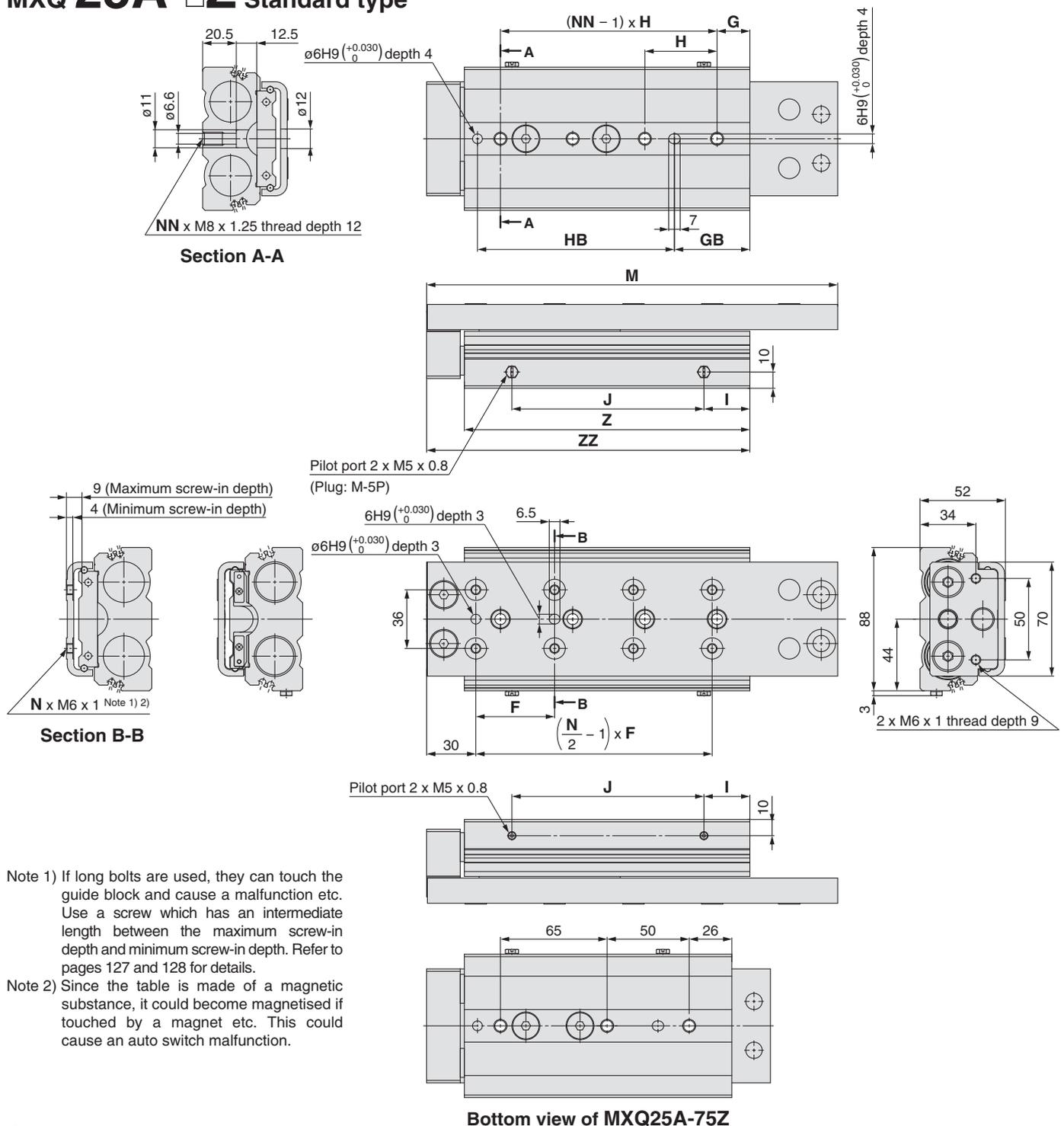
Made to Order

Model Selection

Series MXQ□A

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 an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

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

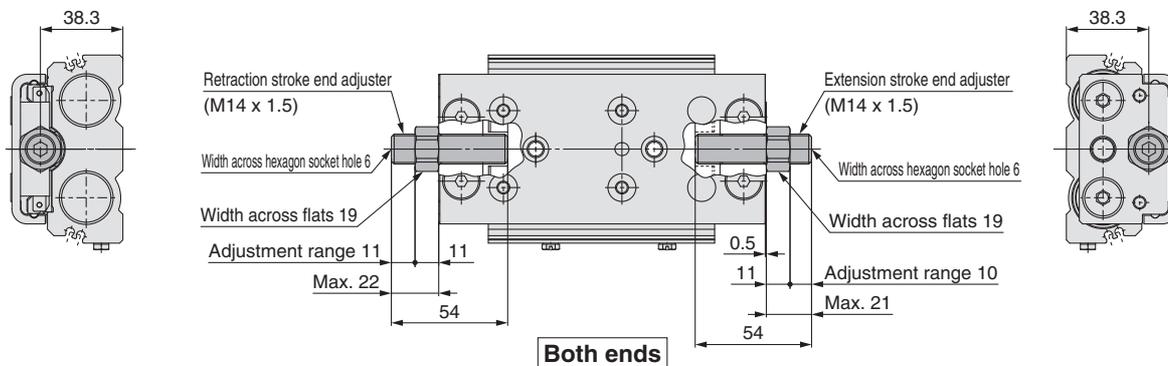
Dimensions

Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
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

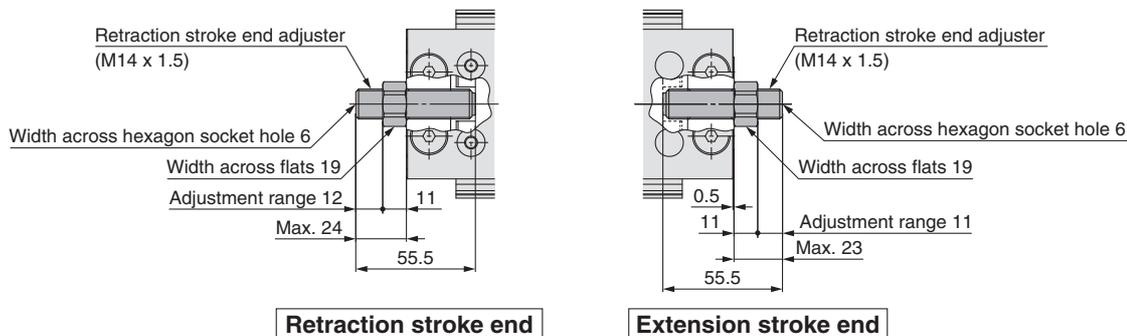
Dimensions: MXQ **25A** [Adjuster Option]

MXQ 25A-□□□□ With adjuster option (ø25)

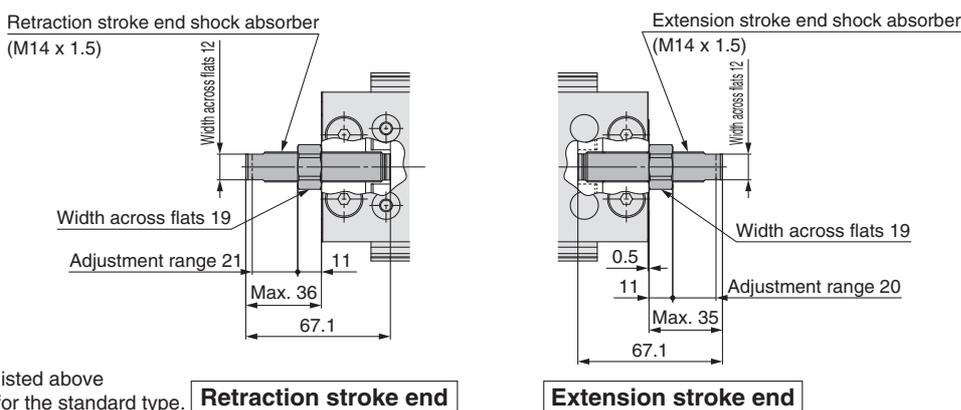
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



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

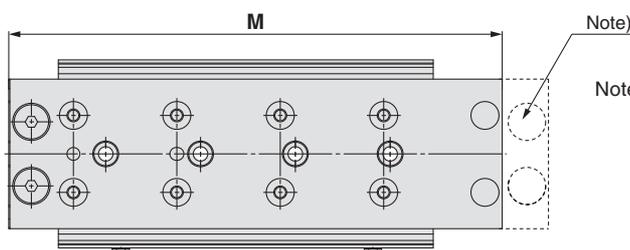


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



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

MXQ 25A-□□**ZN** Shorter total length type



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

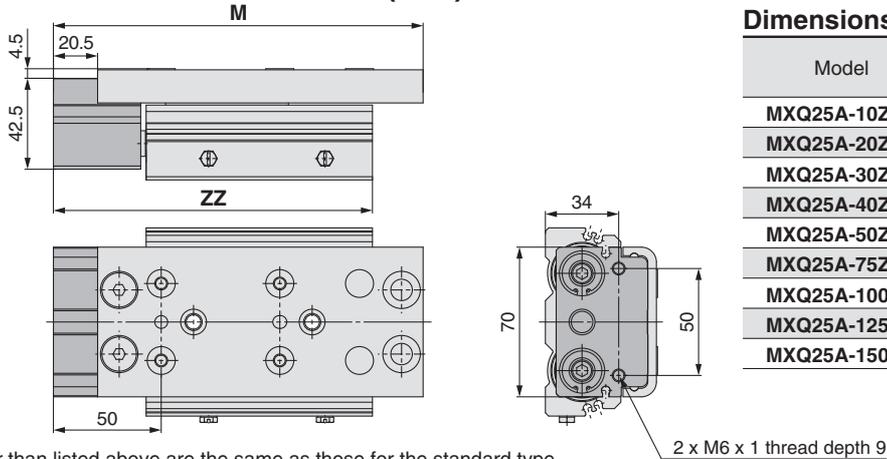
Made to Order

Model Selection

Series MXQ□A

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

MXQ 25A-□Z□1 With buffer (ø25)

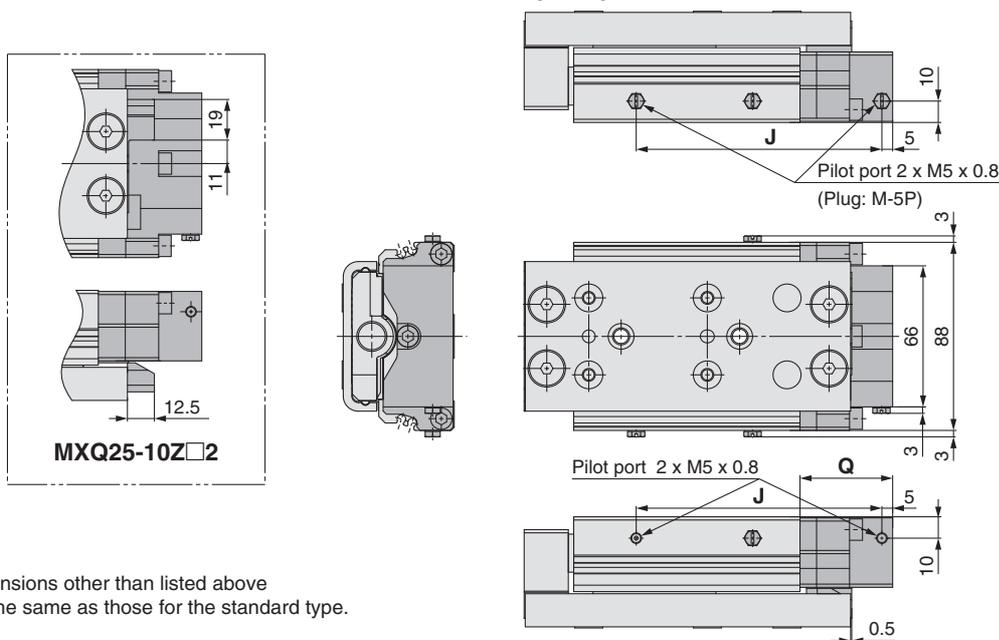


* Dimensions other than listed above are the same as those for the standard type.

Dimensions [mm]

Model	Standard type	Shorter total length type	ZZ
	M	M	
MXQ25A-10Z□1	151.5	130	138
MXQ25A-20Z□1	161.5	140	
MXQ25A-30Z□1	171.5	150	148
MXQ25A-40Z□1	181.5	160	158
MXQ25A-50Z□1	204.5	183	181
MXQ25A-75Z□1	229.5	208	206
MXQ25A-100Z□1	270.5	249	217
MXQ25A-125Z□1	334.5	313	281
MXQ25A-150Z□1	359.5	338	306

MXQ 25A-□Z□2 With end lock (ø25)



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

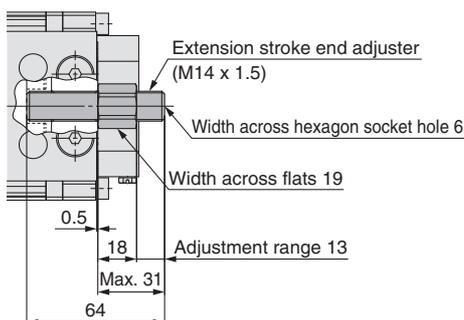
Dimensions [mm]

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

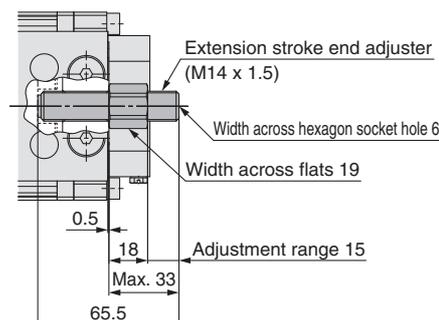
MXQ 25A-□Z□2 With end lock, extension stroke end adjuster (ø25)

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.

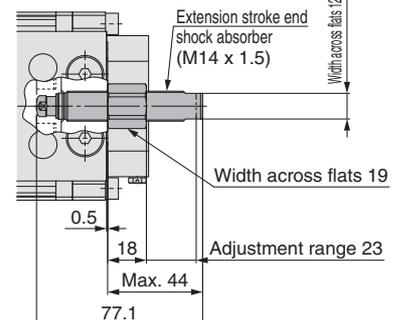
Metal stopper with bumper: ZB



Rubber stopper: ZE



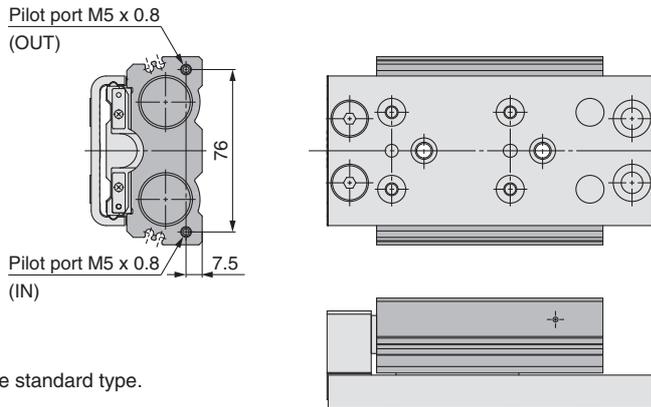
Shock absorber (RJ): ZH



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

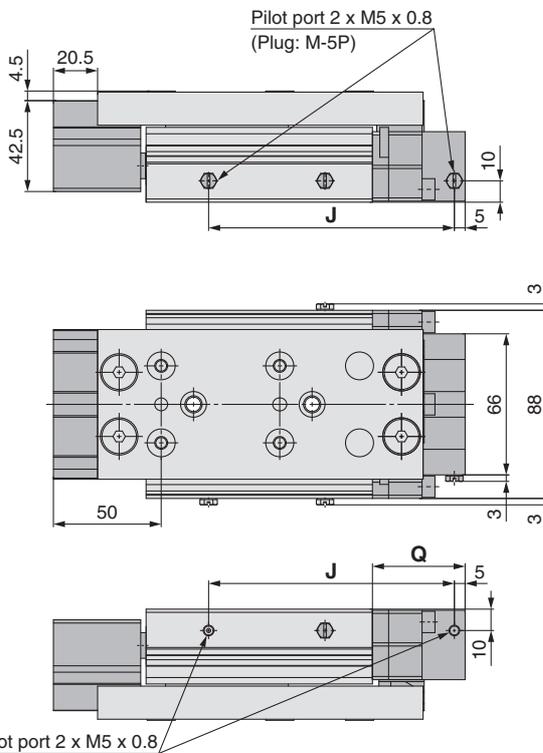
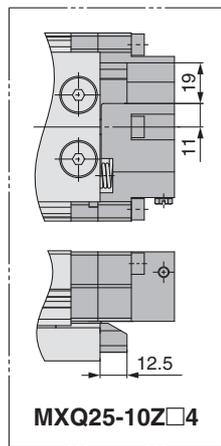
Dimensions: MXQ **25A** [Functional Option]

MXQ 25A-□Z□3
Axial piping (ø25)

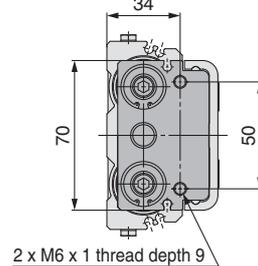


* Dimensions other than listed above are the same as those for the standard type.

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

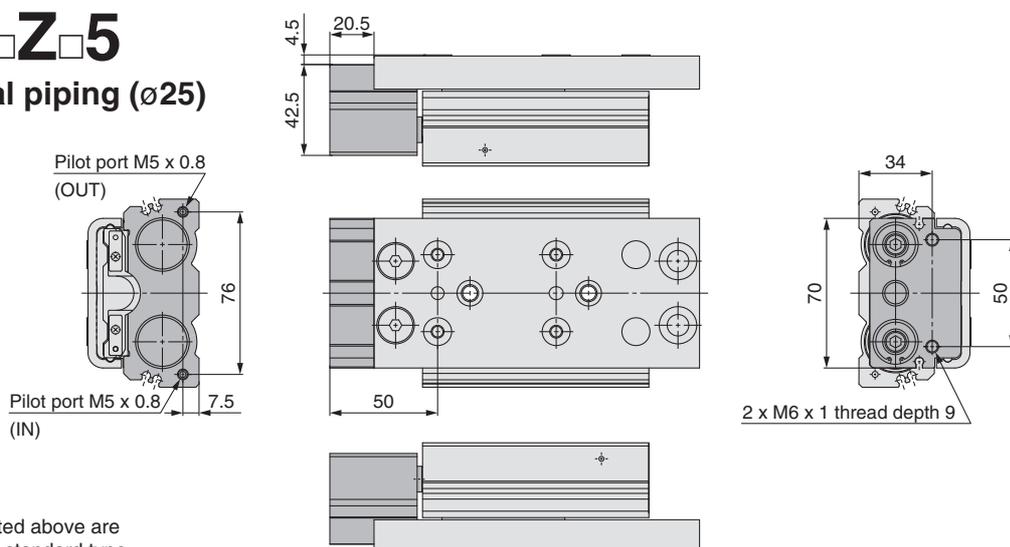


Dimensions		[mm]	
Model	J	Q	
MXQ25A-10Z□4	109	48	
MXQ25A-20Z□4	104		
MXQ25A-30Z□4	114		
MXQ25A-40Z□4	124	43	
MXQ25A-50Z□4	147		
MXQ25A-75Z□4	172		
MXQ25A-100Z□4	213		
MXQ25A-125Z□4	277	73	
MXQ25A-150Z□4	302		



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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection

Air Slide Table

Low thrust with high rigidity type

Series MXQ□B

∅6, ∅8, ∅12, ∅16, ∅20

RoHS

How to Order

MXQ 12 B - 30 ZA - M9BW - -

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

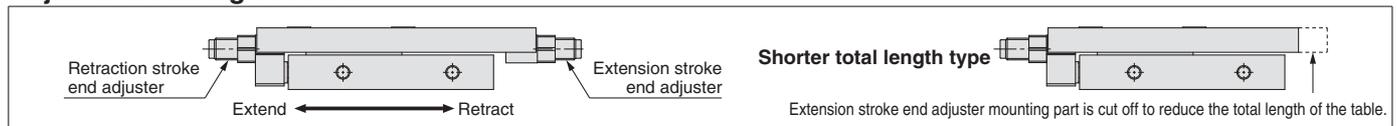
Adjuster option

Symbol	Adjuster type	Adjuster mounting position Note 1)	
		Extension stroke end	Retraction stroke end
Z	Without adjuster		
ZA	Metal stopper with bumper (Not available for ∅6)	●	●
ZB		●	●
ZC		●	●
ZD	Rubber stopper	●	●
ZE		●	●
ZF		●	●
ZG	Shock absorber (RJ)	●	●
ZH		●	●
ZJ		●	●
ZN	Note 2) Without adjuster		
ZP	Shorter overall length type	●	●
ZQ	Shock absorber (RJ)	●	●
ZS	Metal stopper with bumper(Not available for ∅6)	●	●

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 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 (—)	1 (M)	3 (L)	5 (Z)		IC	Relay, PLC	
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	●	●	●	○	○		
	Diagnostic indication (2-colour indication)			3-wire (NPN)	M9NWV	M9NW	●	●	●	○	○	○	IC			
				3-wire (PNP)	M9PWV	M9PW	●	●	●	○	○	○				
				2-wire	M9BWV	M9BW	●	●	●	○	○	○				
	Water resistant (2-colour indication)			3-wire (NPN)	M9NAV***	M9NA***	○	○	●	○	○	○	IC			
				3-wire (PNP)	M9PAV***	M9PA***	○	○	●	○	○	○				
				2-wire	M9BAV***	M9BA***	○	○	●	○	○	○				
							○	○	●	○	○	○				

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

* Lead wire length symbols: 0.5 m — (Example) M9NW
 1 m M (Example) M9NWM
 3 m L (Example) M9NWL
 5 m Z (Example) M9NWZ

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

* Since there are other applicable auto switches than listed, refer to page 87 for details.
 * For details about auto switches with pre-wired connector, refer to the Best Pneumatics No. 3.
 * Auto switches are shipped together, (but not assembled).

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection



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 (Average operating speed)	50 to 500 mm/s (Metal stopper with bumper: 50 to 200 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-colour indication solid state auto switch (2-wire, 3-wire)				
Stroke length tolerance	+2 to 0 mm				

Note) Refer to page 34 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 88 to 93.)

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
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

Weight

Model	Standard stroke [mm]									Reduction of the extension stroke end 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	Adjuster option		
		Rubber stopper	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

 Double ported type
MXQ□A

 Low thrust with high rigidity type
MXQ□B

 Single side ported type
MXQ□C

 Height interchangeable type
MXQ□

 Common Adjuster
Options

 Auto Switch
Mounting

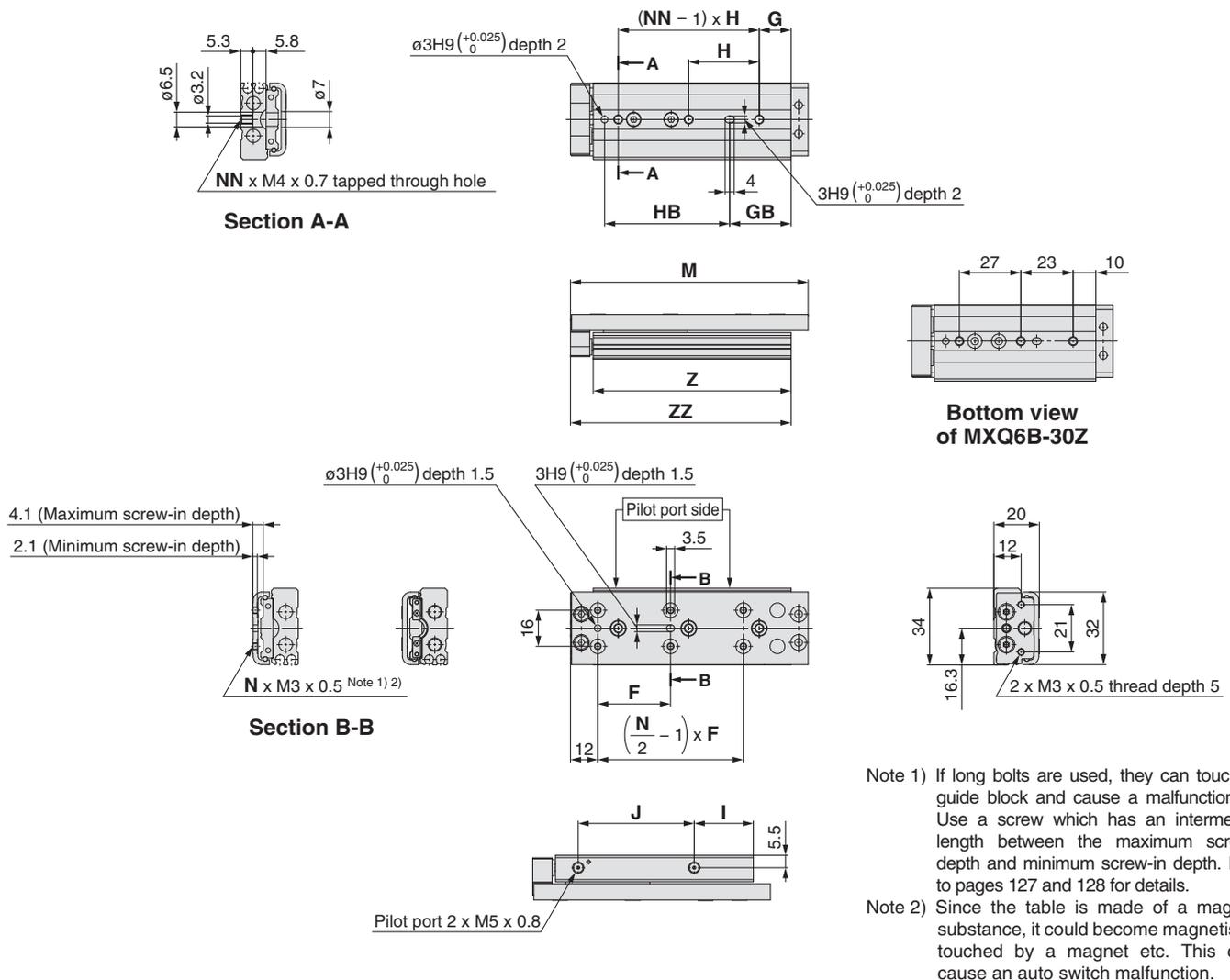
Made to Order

Model Selection

Series MXQ□B

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

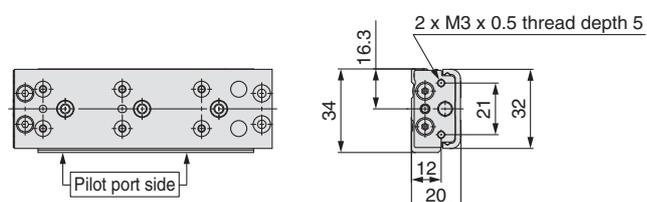
MXQ **6B**-□Z Standard type



Dimensions

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

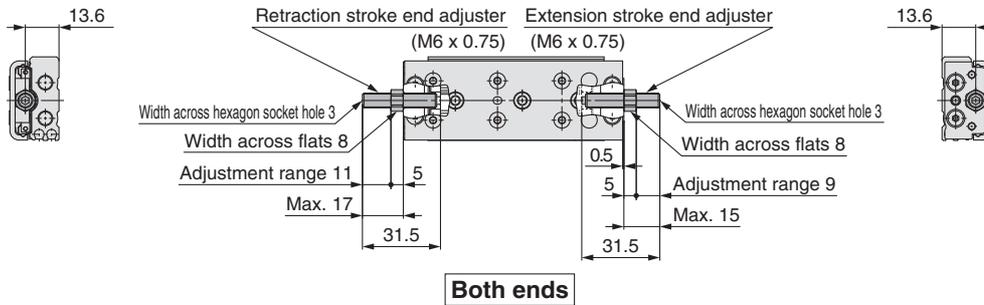


* Dimensions other than listed above are the same as those for the standard type.

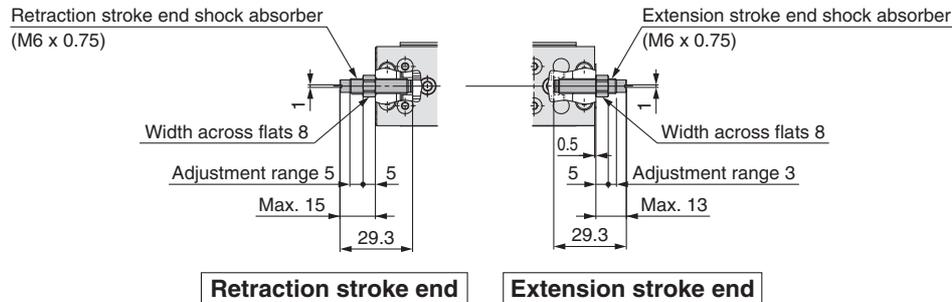
Dimensions: MXQ **6B** [Adjuster Option]

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)

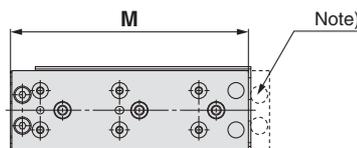


Shock absorber (RJ) **ZG** : Both ends, **ZH** : Extension stroke end, **ZJ** : Retraction stroke end, **ZQ** : Retraction stroke end (Shorter total length type)



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

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



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

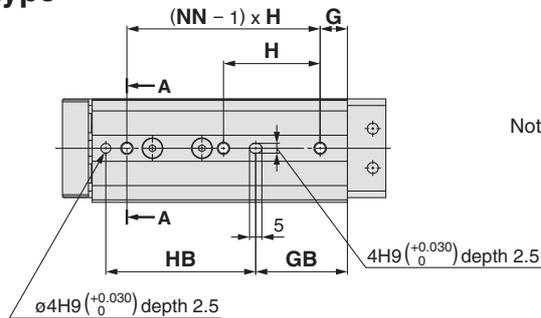
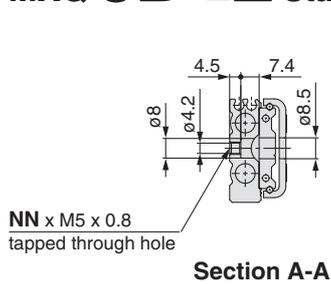
Made to Order

Model Selection

Series MXQ□B

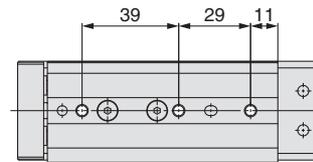
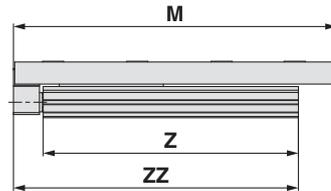
Dimensions: MXQ **8B** [Standard]

MXQ **8B**-□Z Standard type

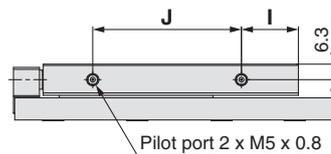
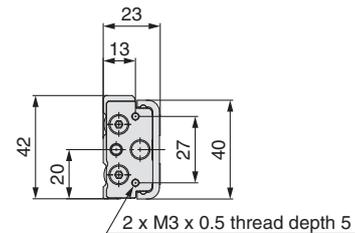
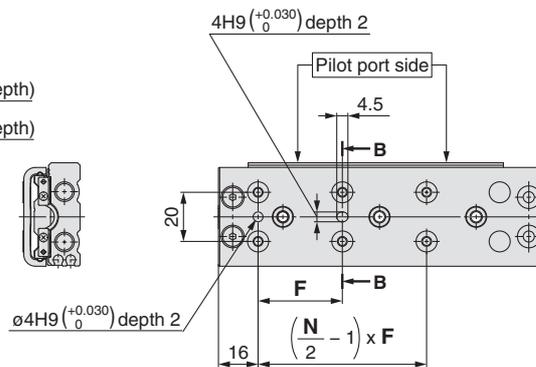
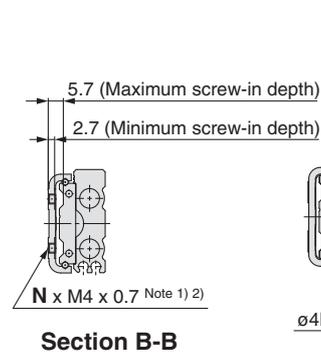


Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

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



Bottom view of MXQ8B-40

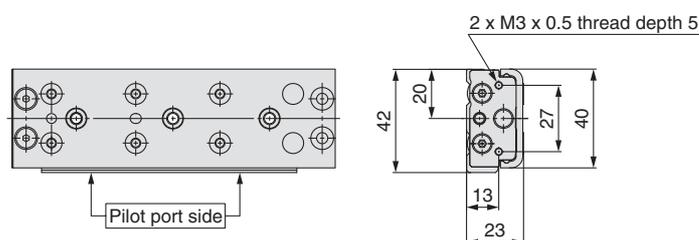


Dimensions

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

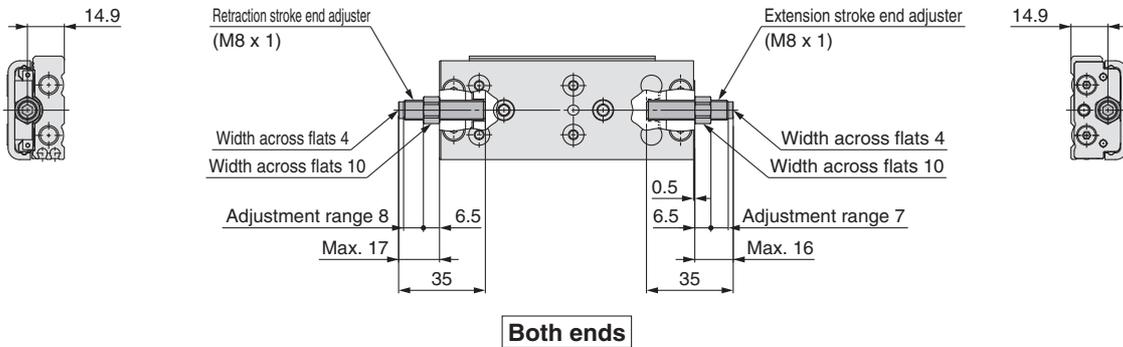


* Dimensions other than listed above are the same as those for the standard type.

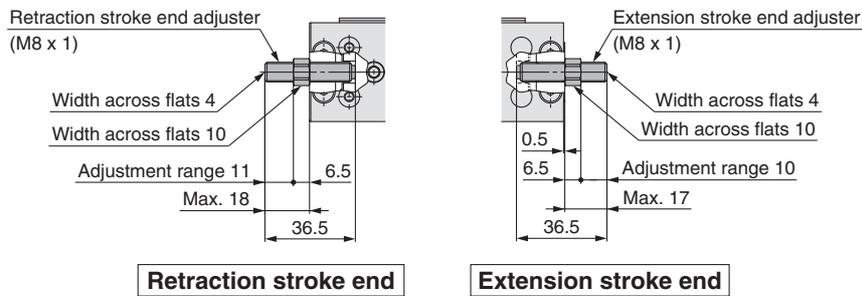
Dimensions: MXQ **8B** [Adjuster Option]

MXQ 8B-□ With adjuster option (ø8)

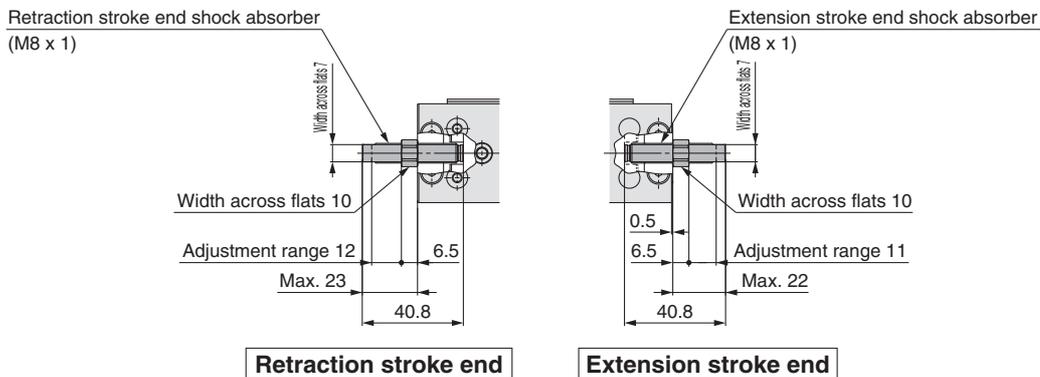
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



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

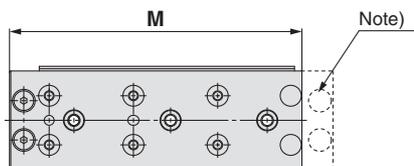


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



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

MXQ 8B-□ZN Shorter total length type



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

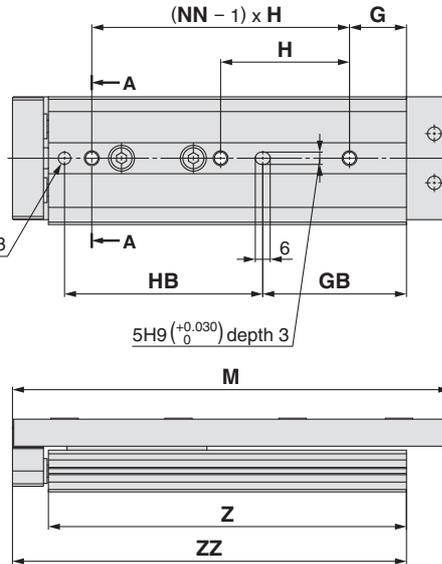
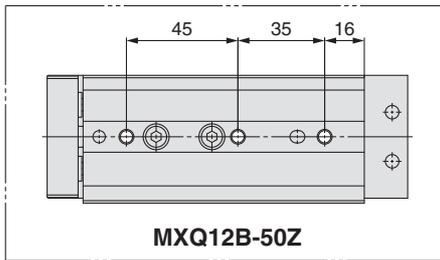
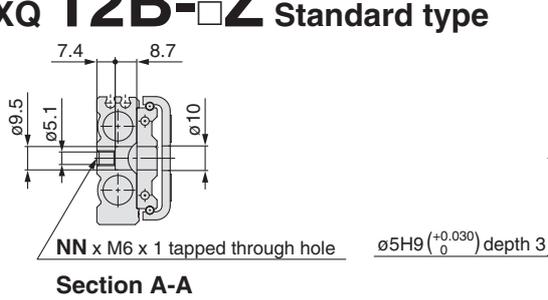
Made to Order

Model Selection

Series MXQ□B

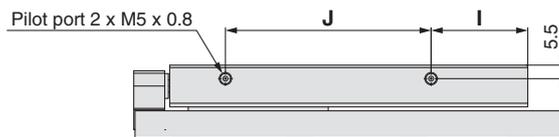
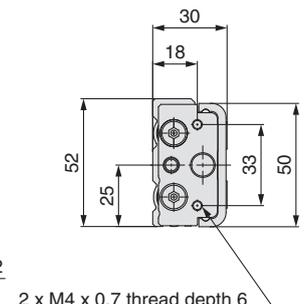
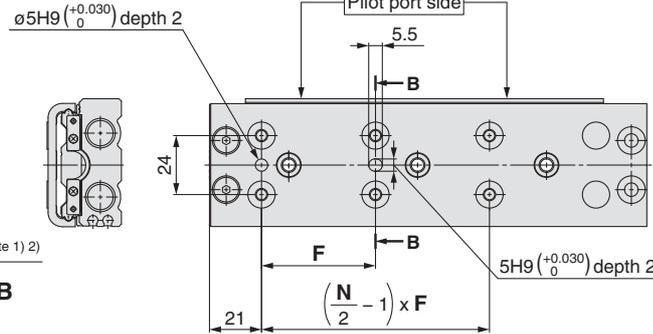
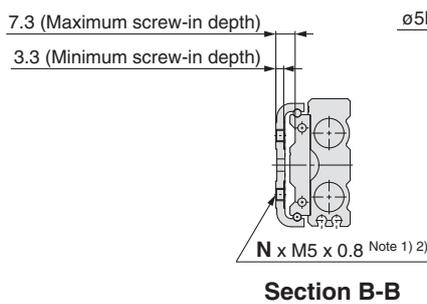
Dimensions: MXQ **12B** [Standard]

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 an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

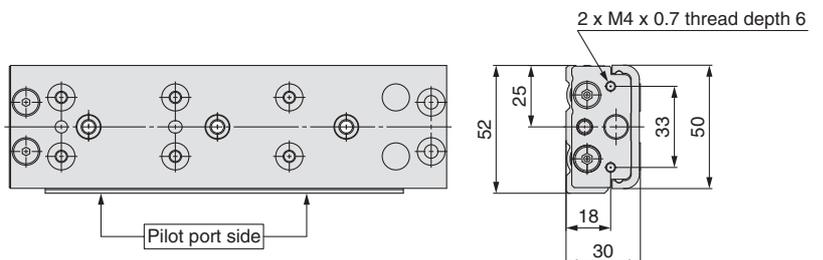
Note 2) Since the table is made of a magnetic substance, it could become magnetised if touched by a magnet etc. This could cause an auto switch malfunction.



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

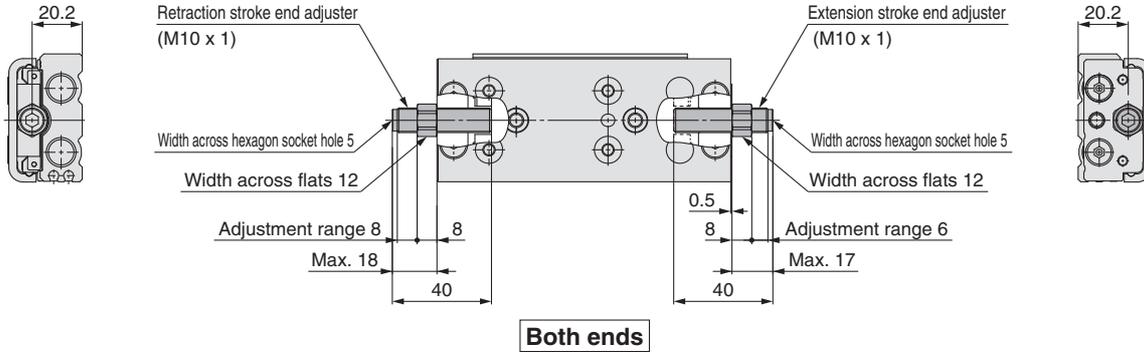


* Dimensions other than listed above are the same as those for the standard type.

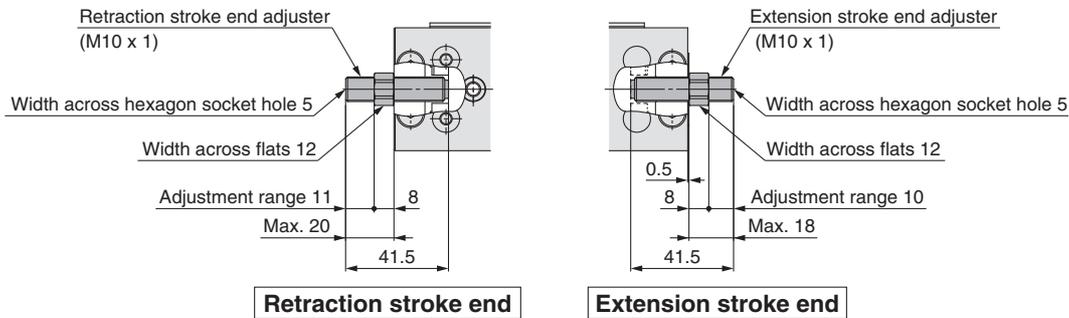
Dimensions: MXQ **12B** [Adjuster Option]

MXQ 12B-□□□□ With adjuster option (ø12)

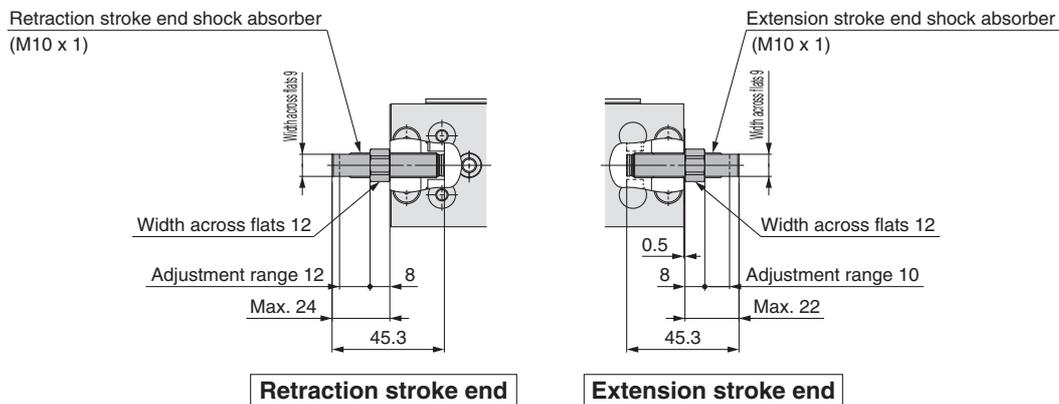
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



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

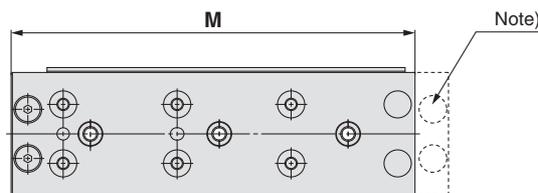


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



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

MXQ 12B-□□ZN Shorter total length type



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

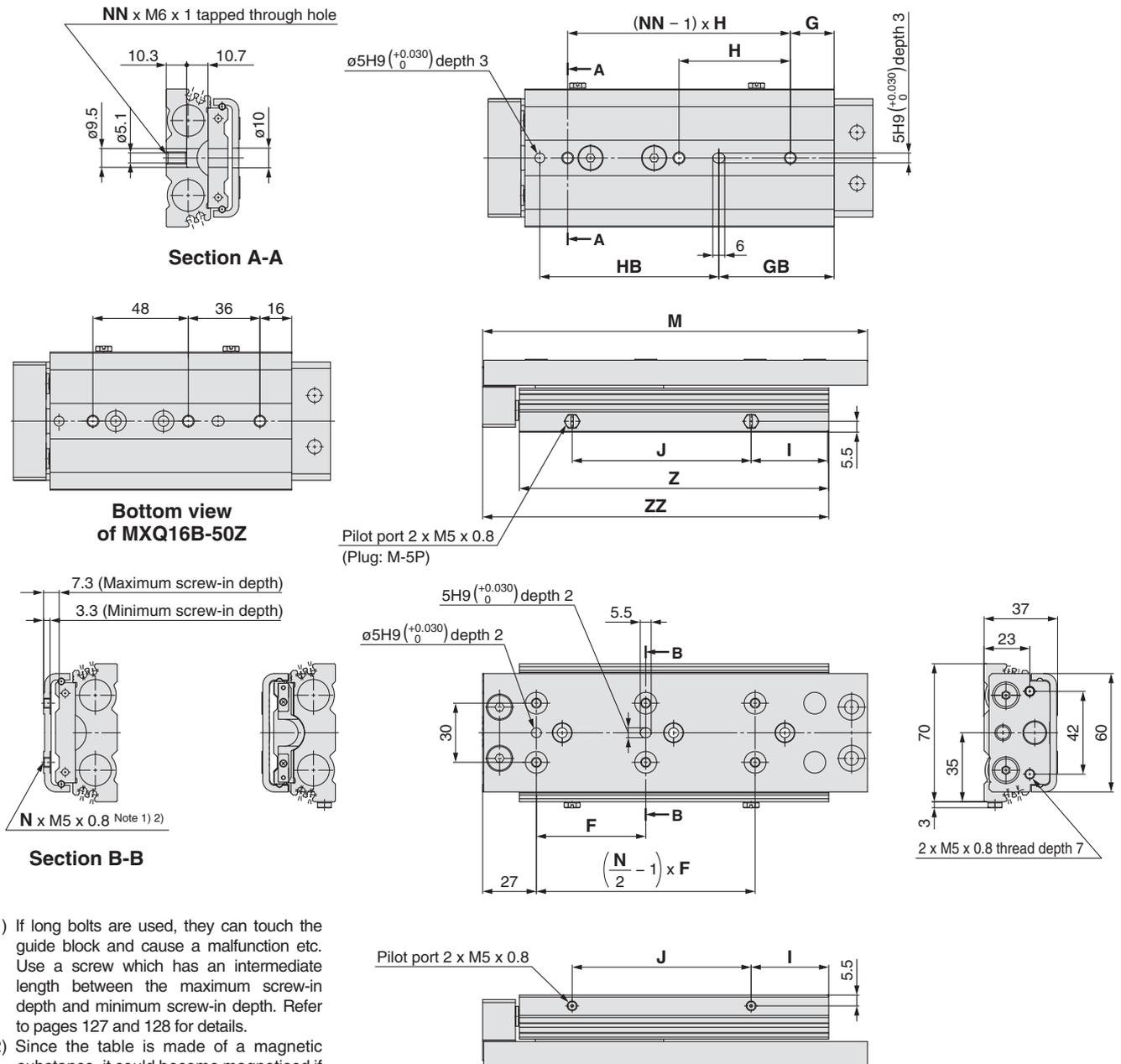
Made to Order

Model Selection

Series MXQ□B

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 an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

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

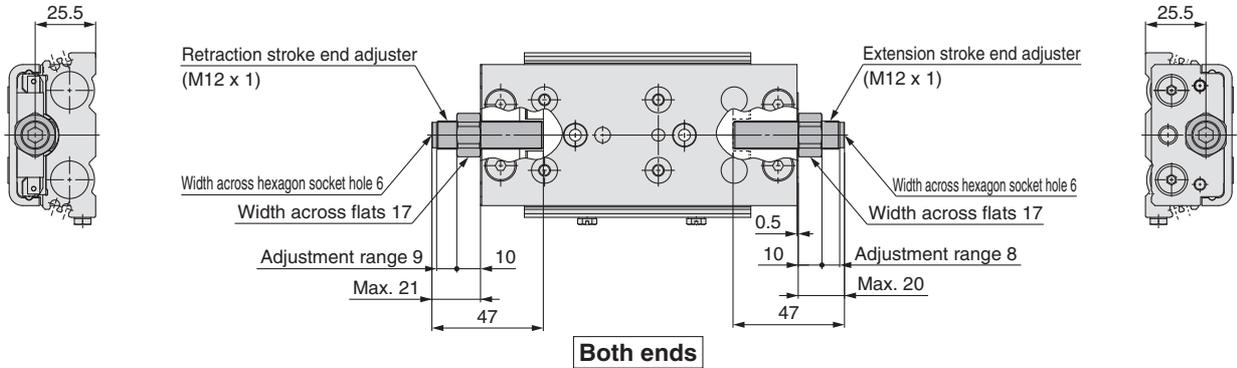
Dimensions

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

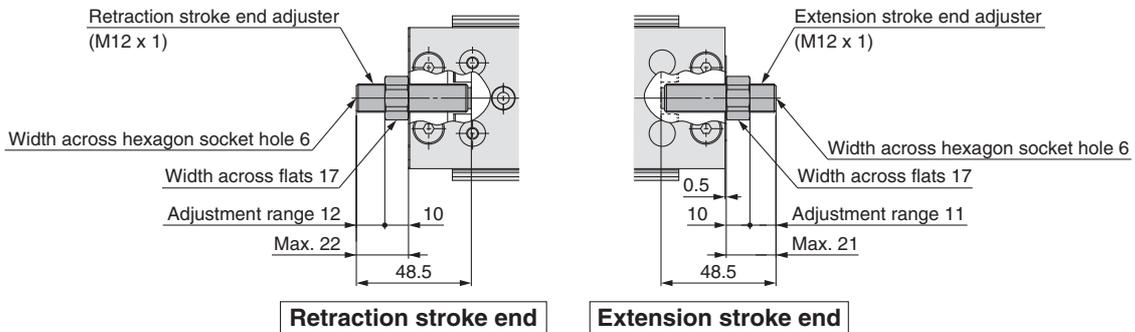
Dimensions: MXQ **16B** [Adjuster Option]

MXQ 16B-□□□□ With adjuster option (ø16)

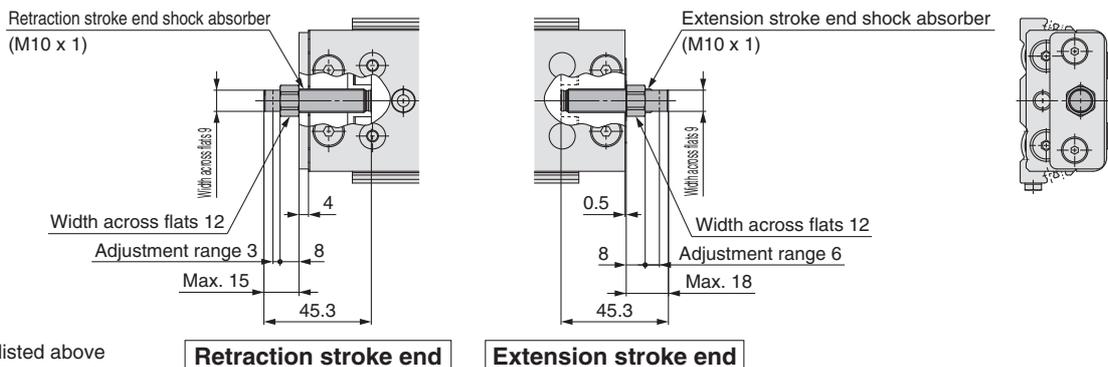
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



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

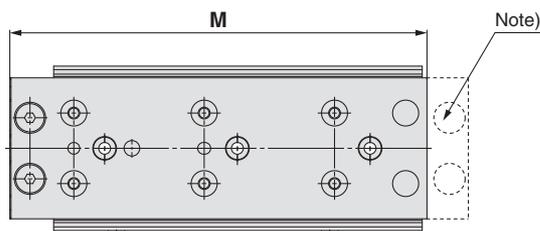


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



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

MXQ 16B-□□ZN Shorter total length type



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

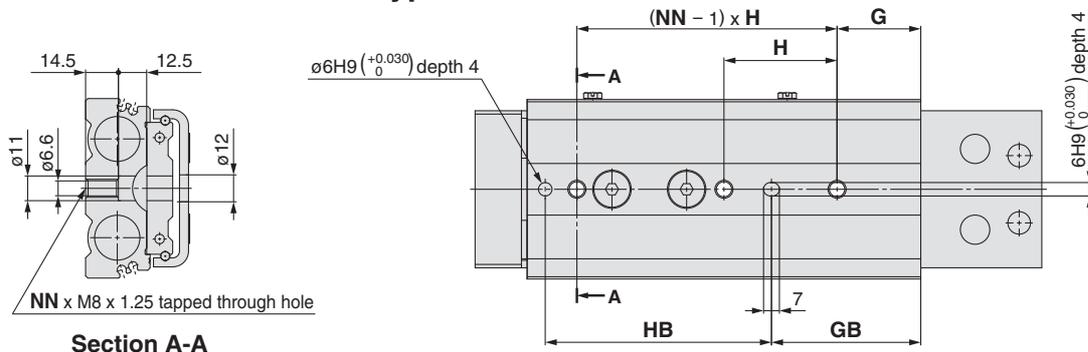
Made to Order

Model Selection

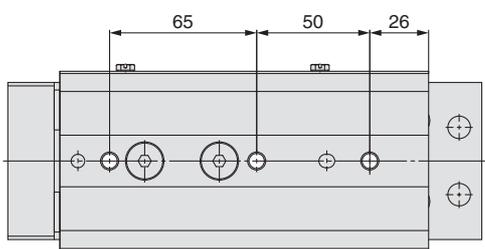
Series MXQ□B

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

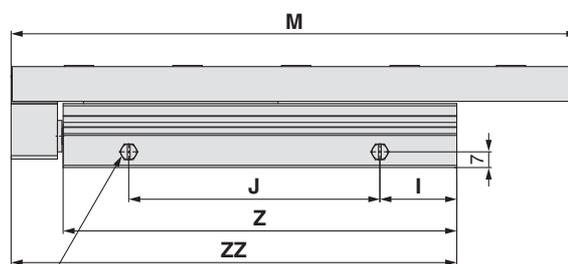
MXQ **20B**-□Z Standard type



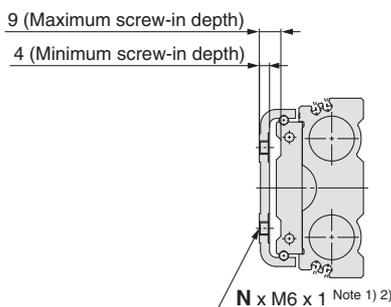
Section A-A



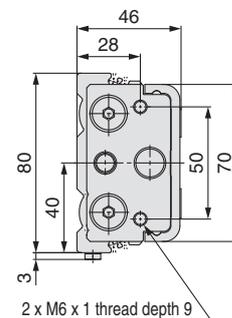
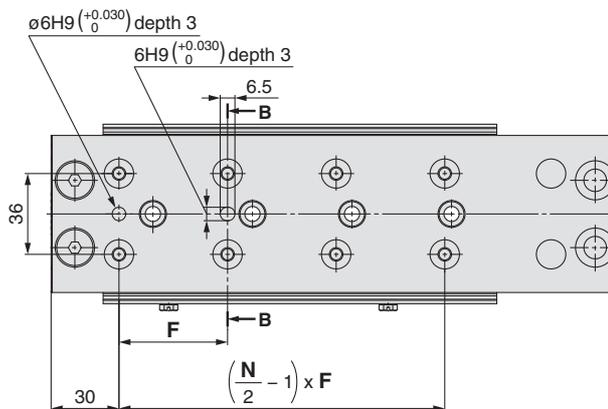
Bottom view of MXQ20B-75Z



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

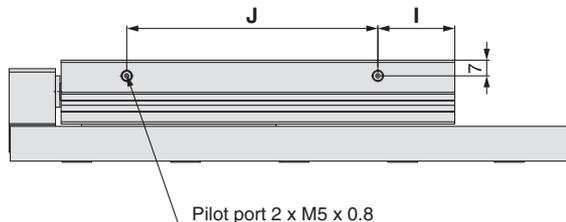


Section B-B



Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

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



Pilot port 2 x M5 x 0.8

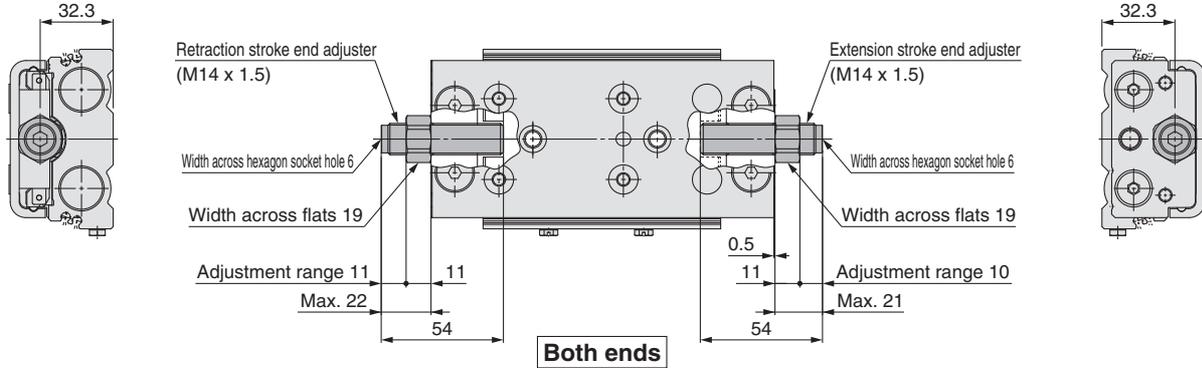
Dimensions

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

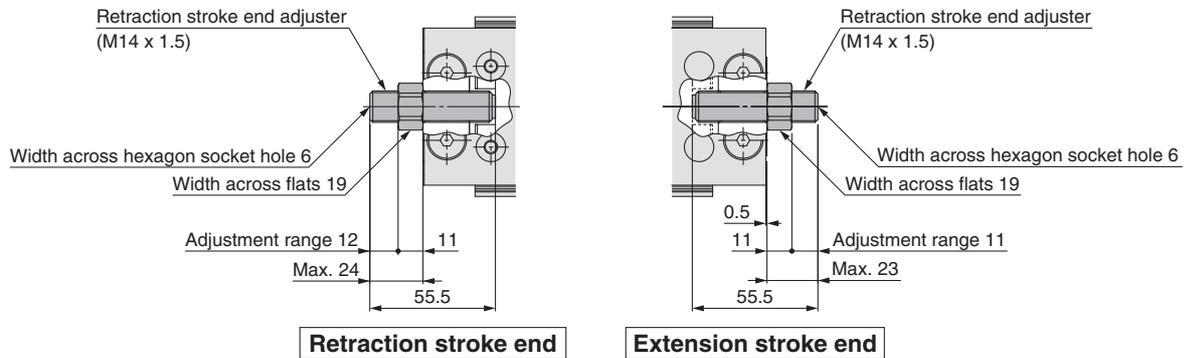
Dimensions: MXQ **20B** [Adjuster Option]

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

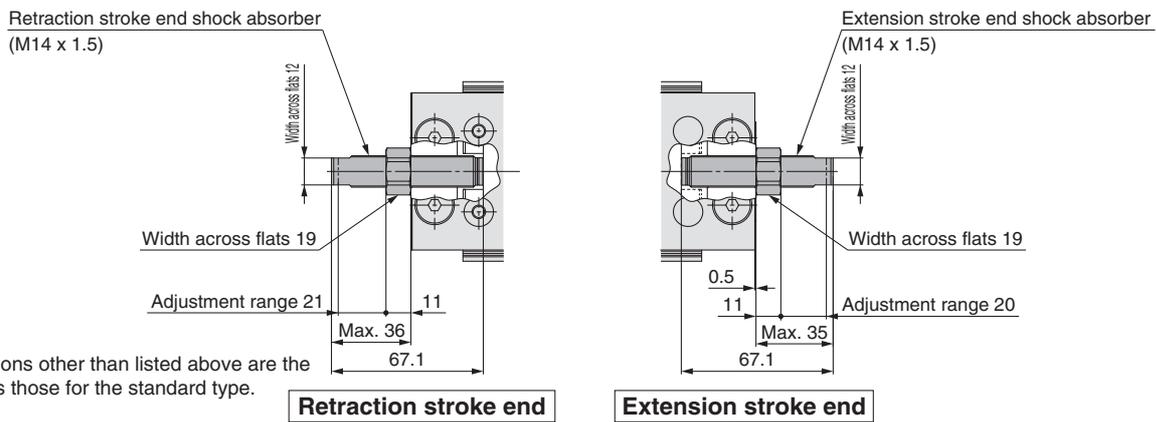
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



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

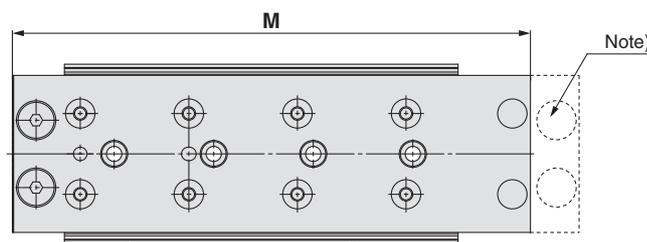


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



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

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



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection

Air Slide Table

Single side ported type

Series MXQ□C

∅8, ∅12

RoHS

How to Order

MXQ 12 C - 30 ZA - M9BW -

• Bore size

Standard type	Body option		Standard stroke [mm]
	C	Symmetric type CL	
8			10, 20, 30, 40, 50, 75
12			10, 20, 30, 40, 50, 75, 100

• Functional option

Symbol	Functional option
—	Without functional option
1	With buffer
2	With end lock
3	Axial piping
4	With buffer, end lock
5	With buffer, axial piping

• Auto switch

— Without auto switch

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

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

• Made to Order
Refer to page 47 for details.

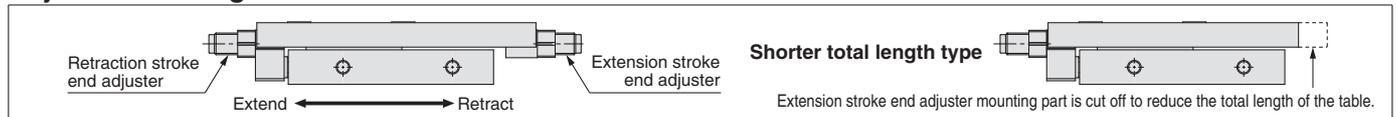
• Adjuster option/Functional option combinations

Symbol	Adjuster type	Adjuster mounting position Note 1)		Functional option combination					
		Extension stroke end	Retraction stroke end	—	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 2)
Z	Without adjuster			○	○	○	○	○	○
ZA	Metal stopper with bumper	●	●	○	×	×	○	×	×
ZB		●	●	○	×	○	○	×	×
ZC		●	●	○	×	×	○	×	×
ZD		●	●	○	×	×	○	×	×
ZE	Rubber stopper	●	●	○	○	○	○	○	○
ZF		●	●	○	×	×	○	×	×
ZG		●	●	○	×	×	○	×	×
ZH	Shock absorber (RJ)	●	●	○	×	○	○	×	×
ZJ		●	●	○	×	×	○	×	×
ZN	Shorter overall length type	Without adjuster		○	○ Note 6)	×	○	×	○ Note 6)
ZP		Rubber stopper	●	○	×	×	○	×	×
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 centralised adjuster specification (-X27). End lock or axial piping option cannot be mounted to the centralised 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 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 (—)	1 (M)	3 (L)	5 (Z)				
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC	
				3-wire (PNP)				M9PV	M9P	●	●	●	○	○		
				2-wire				M9BV	M9B	●	●	●	○	○		—
				3-wire (NPN)				M9NWV	M9NW	●	●	●	○	○		IC
				3-wire (PNP)				M9PWV	M9PW	●	●	●	○	○		—
				2-wire				M9BWW	M9BW	●	●	●	○	○		—
	Water resistant (2-colour indication)			3-wire (NPN)	5 V, 12 V	—	M9NAV***	M9NA***	○	○	●	○	○	○	○	IC
				3-wire (PNP)			M9PAV***	M9PA***	○	○	●	○	○	○	IC	
				2-wire			M9BAV***	M9BA***	○	○	●	○	○	○	—	
				2-wire												

- *** Water resistant type auto switches can be mounted on the above models, but in such cases SMC cannot guarantee water resistance. Please contact SMC regarding water resistant types with the above model numbers.
- * Lead wire length symbols: 0.5 m (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 87 for details.
 3 m L (Example) M9NWL * For details about auto switches with pre-wired connector, refer to the Best Pneumatics No. 3.
 5 m Z (Example) M9NWZ * Auto switches are shipped together, (but not assembled).

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection



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-colour indication solid state auto switch (2-wire, 3-wire)	
Stroke length tolerance	+2 to 0 mm	

Note) Refer to page 48 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 89 to 93.)

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

Allowable Kinetic Energy

Model	Without adjuster				Adjuster option											
	Internal rubber bumper				Rubber stopper											
	Metal stopper with bumper				Shock absorber (RJ)											
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]	9
	Maximum stroke	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

 Double ported type
MXQ□A

 Low thrust with high rigidity type
MXQ□B

 Single side ported type
MXQ□C

 Height interchangeable type
MXQ□

 Common Adjuster
Options

 Auto Switch
Mounting

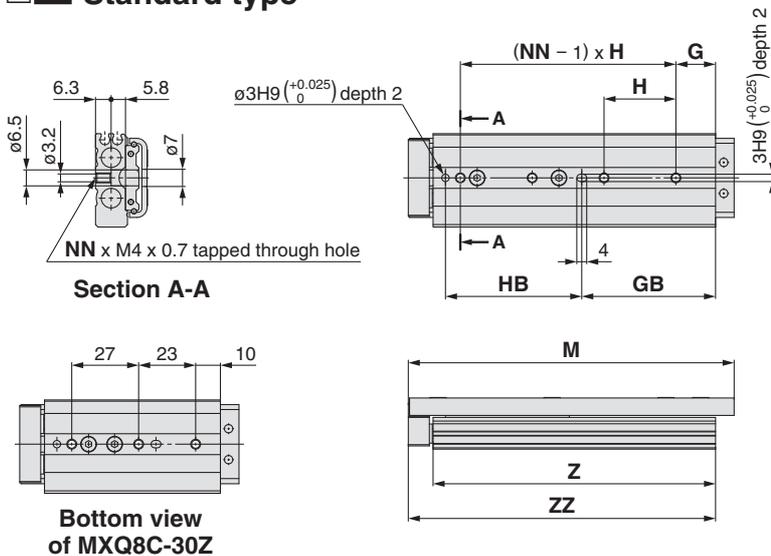
Made to Order

Model Selection

Series MXQ□C

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

MXQ **8C**-□Z Standard type

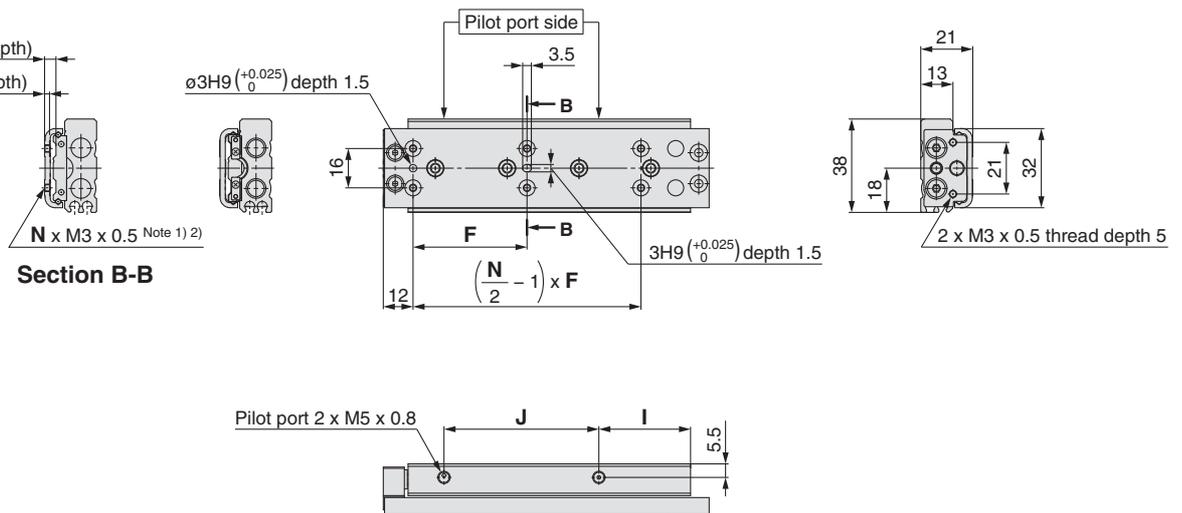


Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

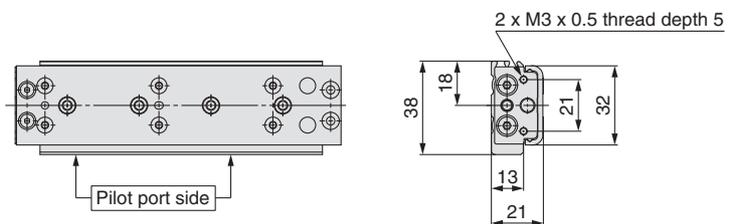
Note 2) Since the table is made of a magnetic substance, it could become magnetised if touched by a magnet etc. This could cause an auto switch malfunction.

4.1 (Maximum screw-in depth)

2.1 (Minimum screw-in depth)



MXQ **8CL**-□Z Symmetric type



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

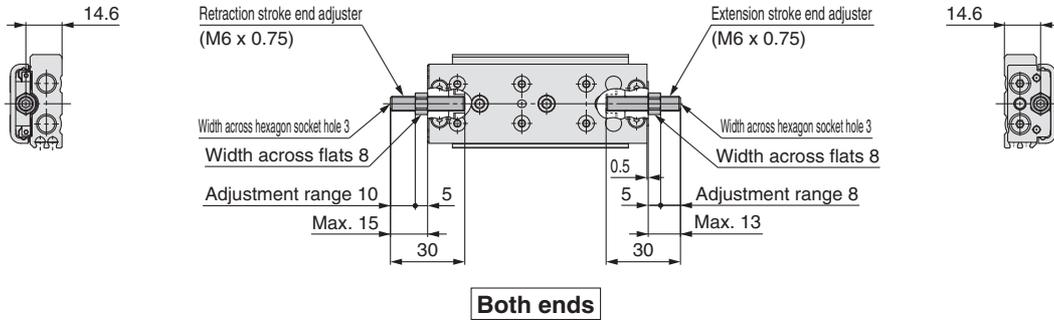
Dimensions

Model	F	G	GB	H	HB	I	J	M	N	NN	Z	ZZ
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

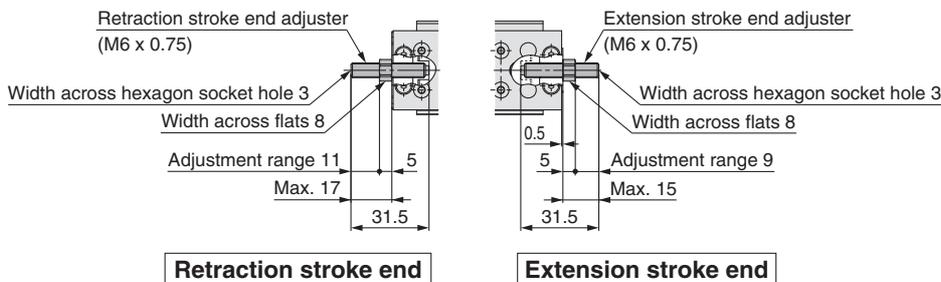
Dimensions: MXQ **8C** [Adjuster Option]

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

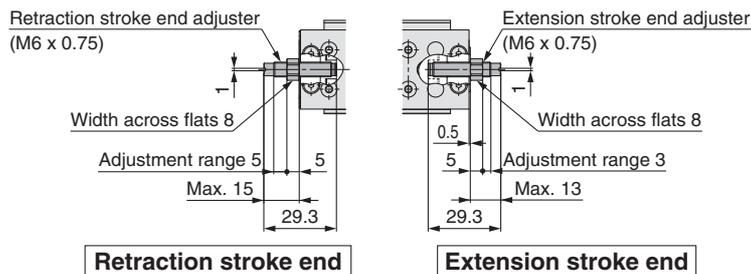
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



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

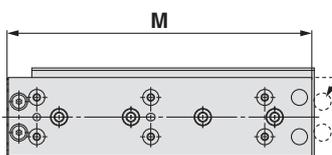


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



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

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



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

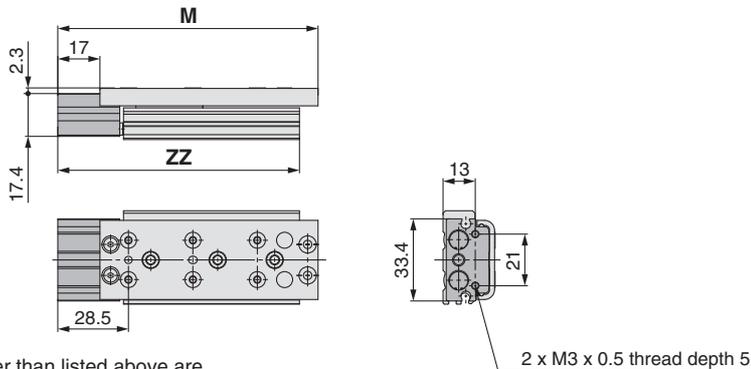
Made to Order

Model Selection

Series MXQ□C

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

MXQ 8C-□Z□1 With buffer (ø8)

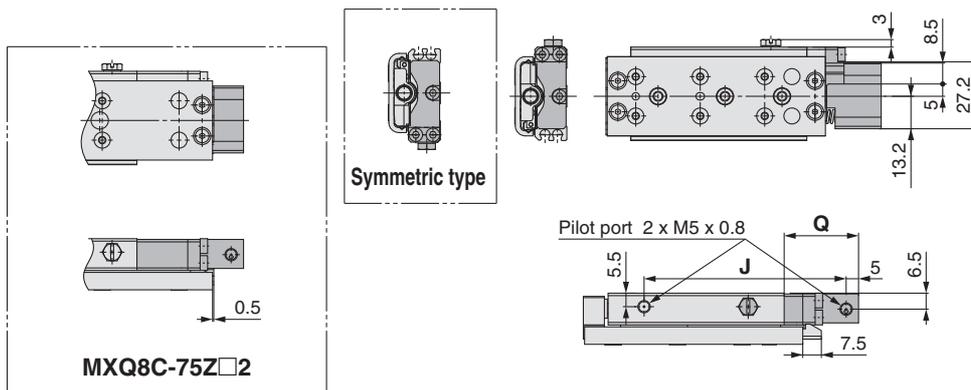


Dimensions [mm]

Model	Standard type		
	M	Shorter total length type	ZZ
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

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

MXQ 8C-□Z□2 With end lock (ø8)



Dimensions [mm]

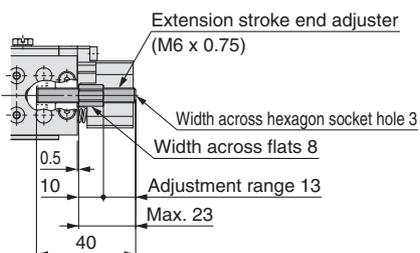
Model	Standard type	
	J	Q
MXQ8C-10Z□2	61.5	30
MXQ8C-20Z□2	71.5	
MXQ8C-30Z□2	81.5	
MXQ8C-40Z□2	97.5	
MXQ8C-50Z□2	124.5	
MXQ8C-75Z□2	139.5	43

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

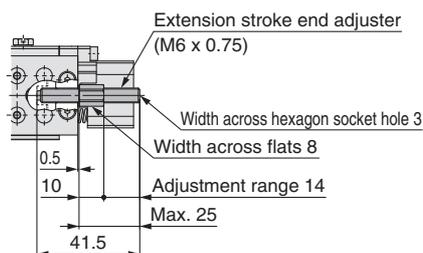
MXQ 8C-□Z□2 With end lock, extension stroke end adjuster (ø8)

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.

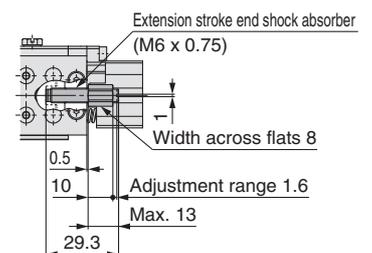
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



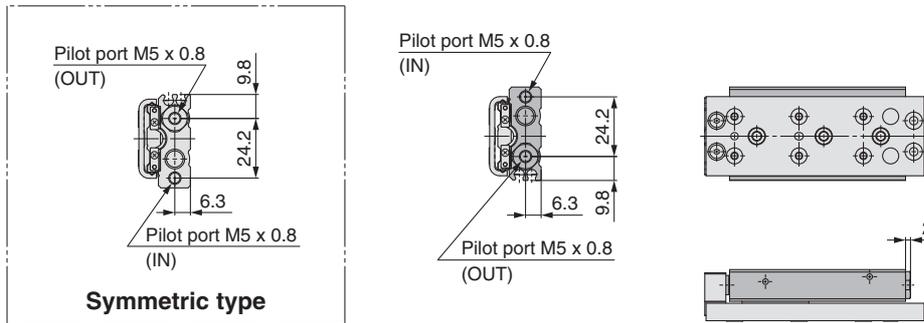
Shock absorber (RJ): **ZH**



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

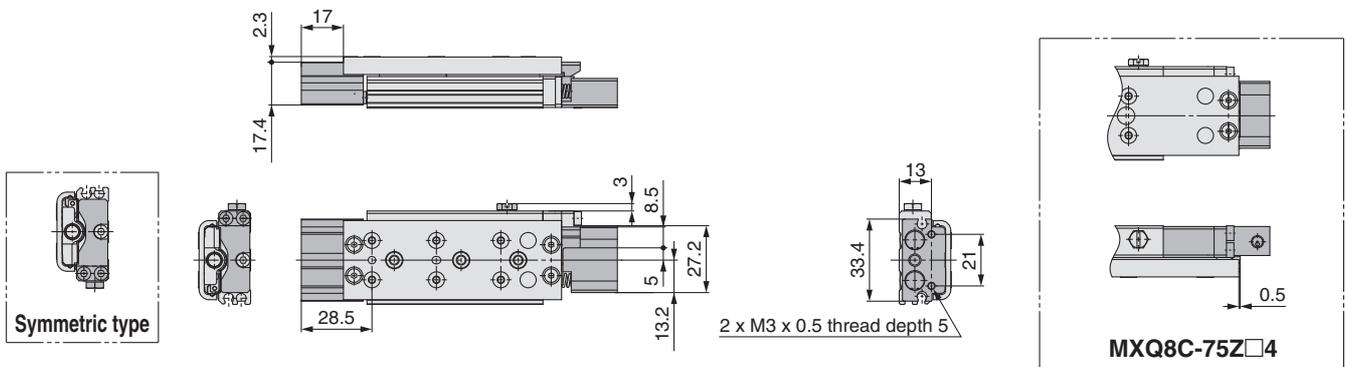
Dimensions: MXQ **8C** [Functional Option]

MXQ **8C-□Z□3** Axial piping (ø8)



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

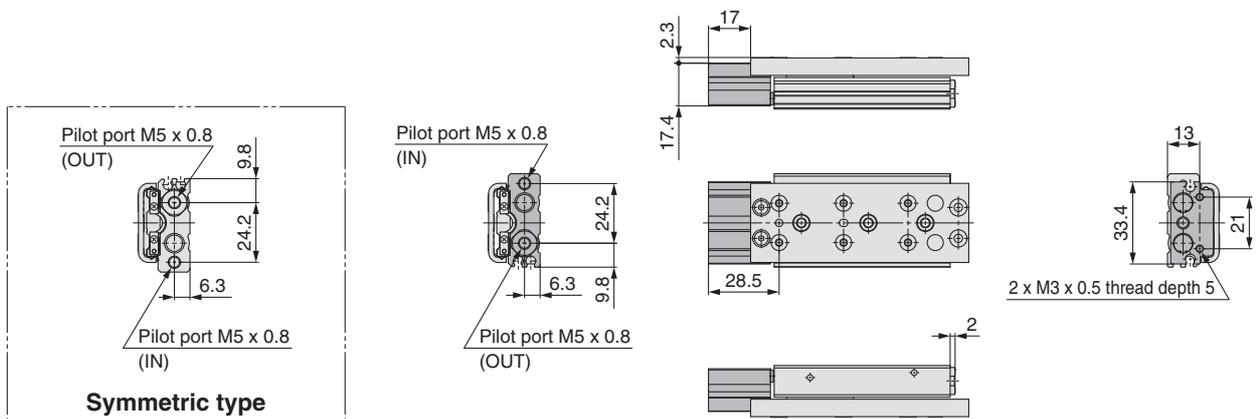
MXQ **8C-□Z□4** With buffer, end lock (ø8)



Dimensions [mm]		
Model	J	Q
MXQ8C-10Z□4	61.5	30
MXQ8C-20Z□4	71.5	
MXQ8C-30Z□4	81.5	
MXQ8C-40Z□4	97.5	
MXQ8C-50Z□4	124.5	
MXQ8C-75Z□4	139.5	43

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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

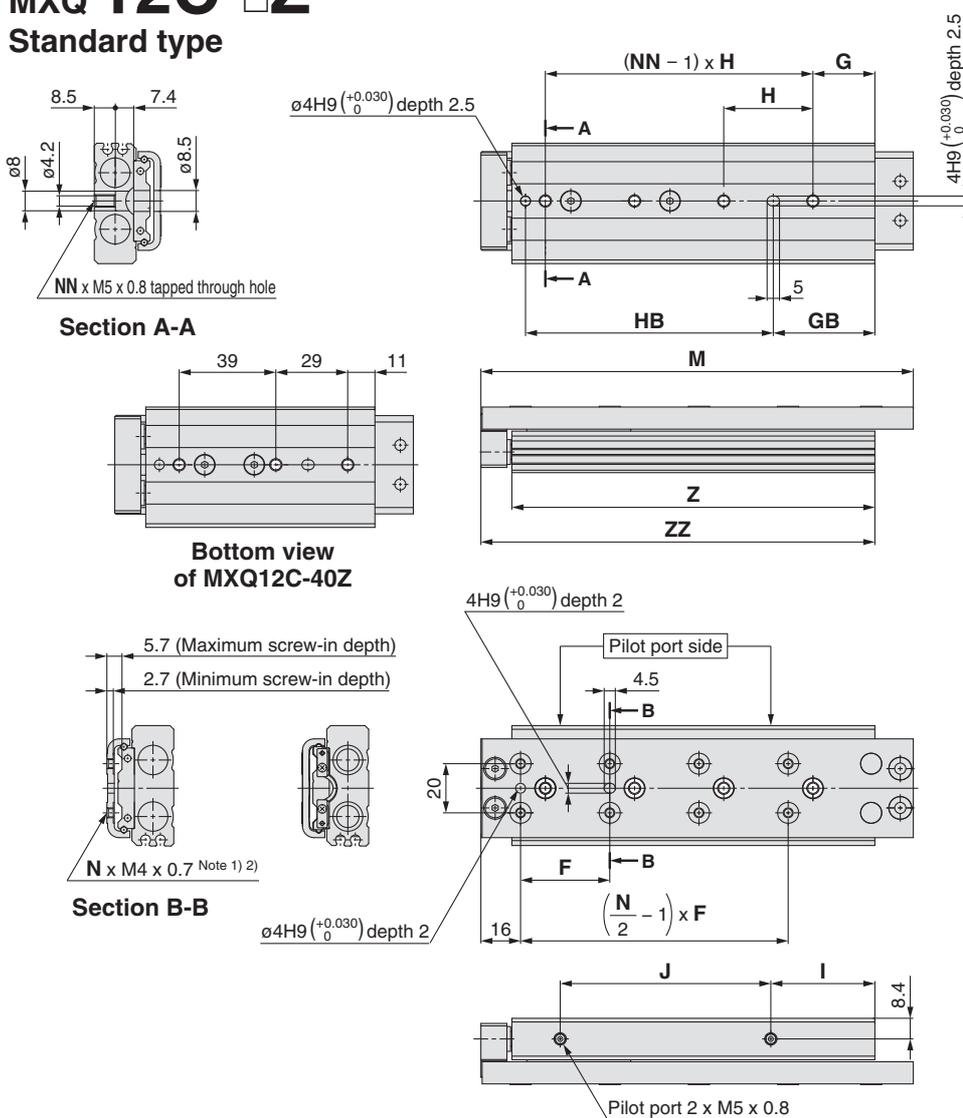
Auto Switch Mounting

Made to Order

Model Selection

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

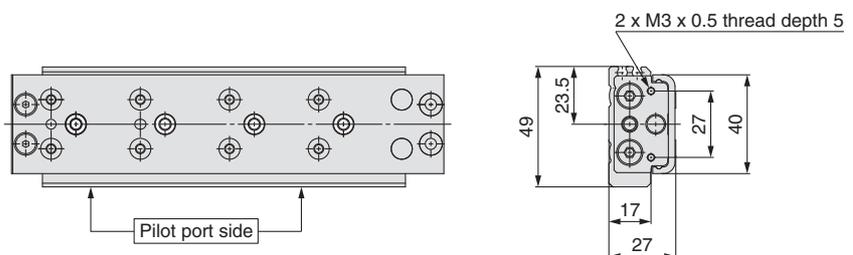
MXQ 12C-□Z Standard type



Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

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

MXQ 12CL-□Z Symmetric type



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

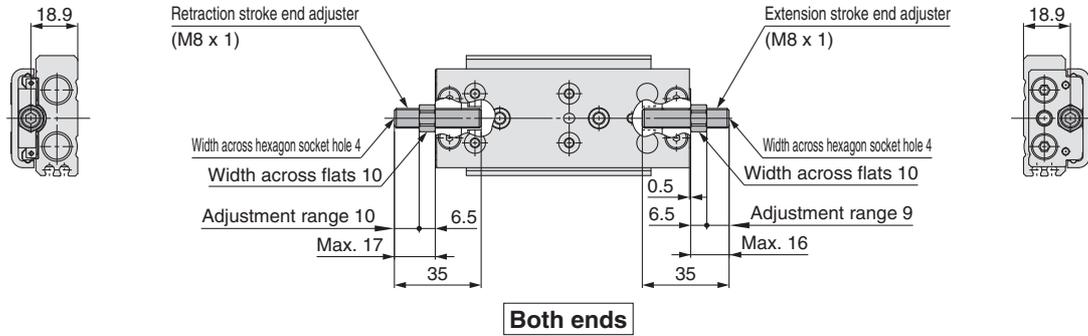
Dimensions

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

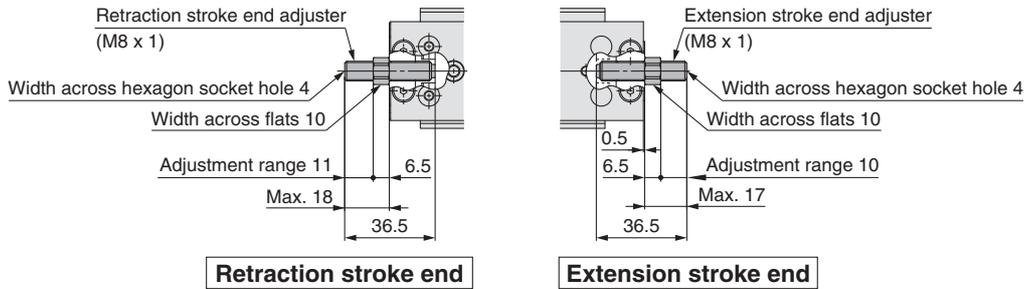
Dimensions: MXQ **12C** [Adjuster Option]

MXQ 12C-□□□□ With adjuster option (ø12)

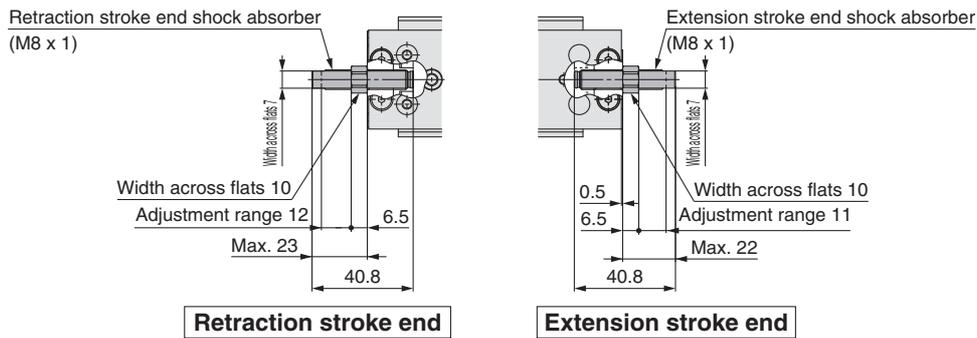
Metal stopper with bumper **ZA** : Both ends, **ZB** : Extension stroke end, **ZC** : Retraction stroke end, **ZS** : Retraction stroke end (Shorter total length type)



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

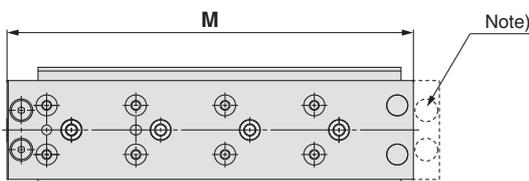


Shock absorber (RJ) **ZG** : Both ends, **ZH** : Extension stroke end, **ZJ** : Retraction stroke end, **ZQ** : Retraction stroke end (Shorter total length type)



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

MXQ 12C-□□□□ **ZN** Shorter total length type



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

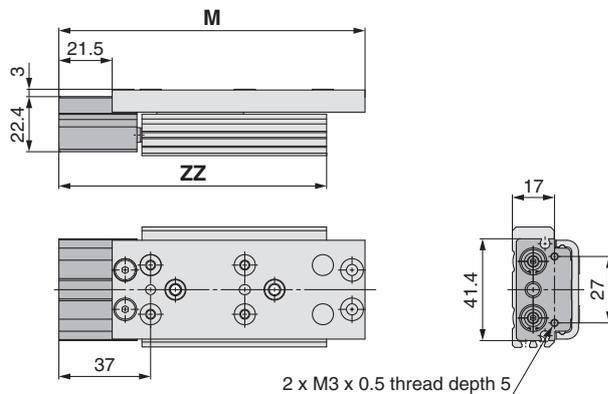
Made to Order

Model Selection

Series MXQ□C

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

MXQ 12C-□Z□1 With buffer (ø12)

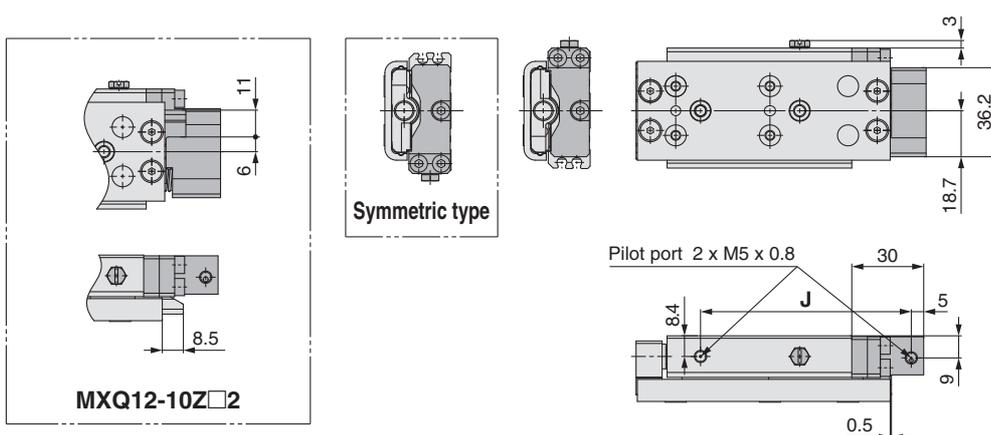


Dimensions [mm]

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

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

MXQ 12C-□Z□2 With end lock (ø12)



Dimensions [mm]

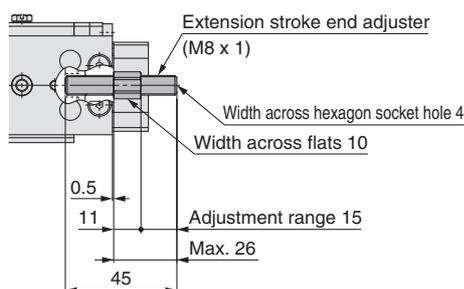
Model	J
MXQ12C-10Z□2	68
MXQ12C-20Z□2	70
MXQ12C-30Z□2	80
MXQ12C-40Z□2	98
MXQ12C-50Z□2	108
MXQ12C-75Z□2	152
MXQ12C-100Z□2	177

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

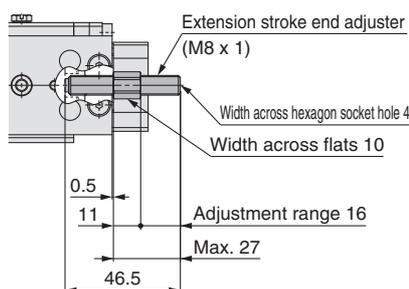
MXQ 12C-□Z□2 With end lock, extension stroke end adjuster (ø12)

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.

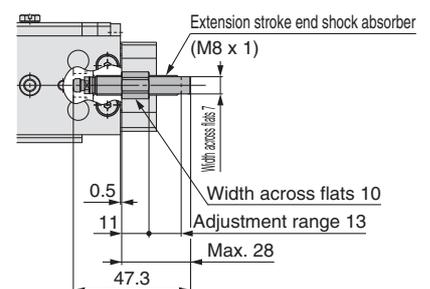
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



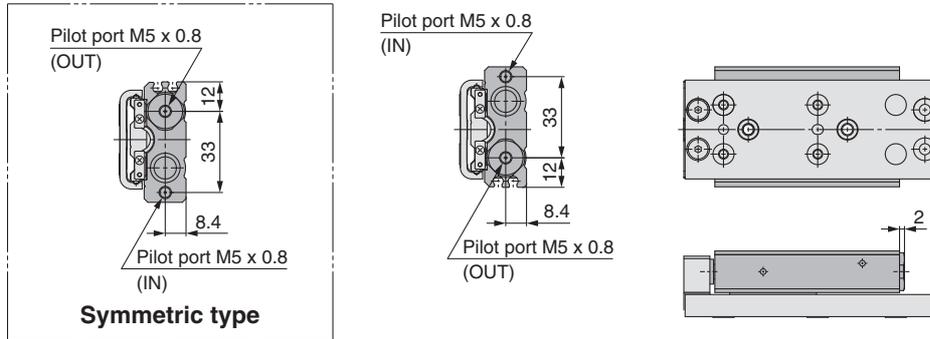
Shock absorber (RJ): **ZH**



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

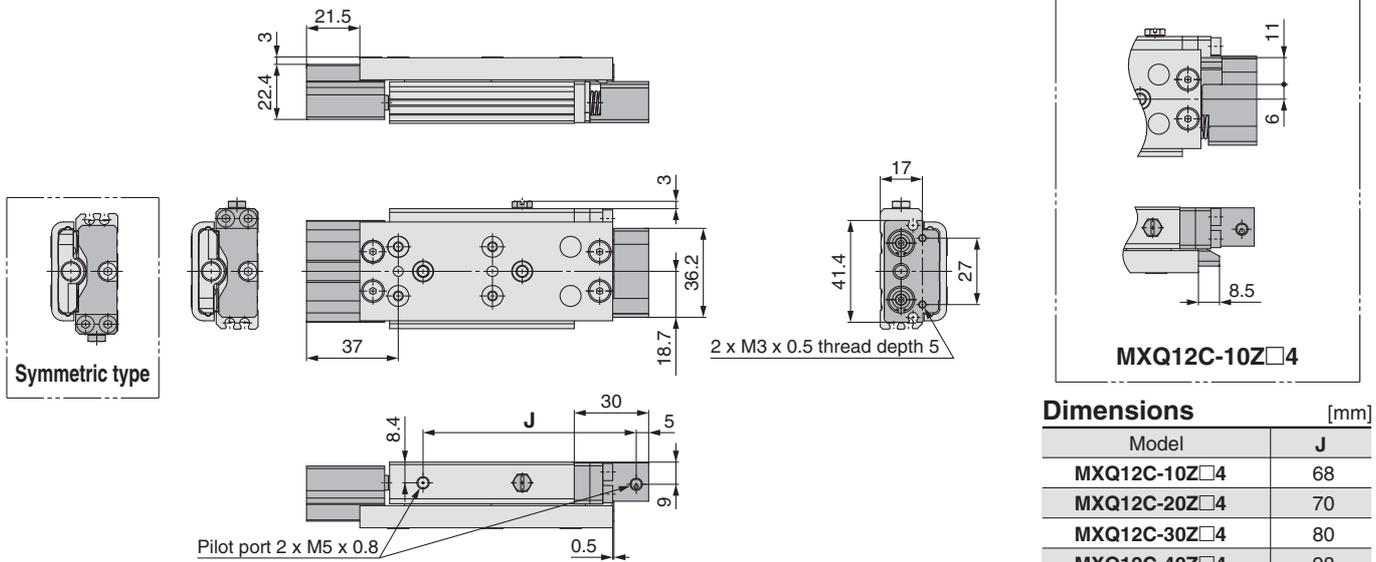
Dimensions: MXQ **12C** [Adjuster Option]

MXQ **12C-□Z□3** Axial piping (ø12)



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

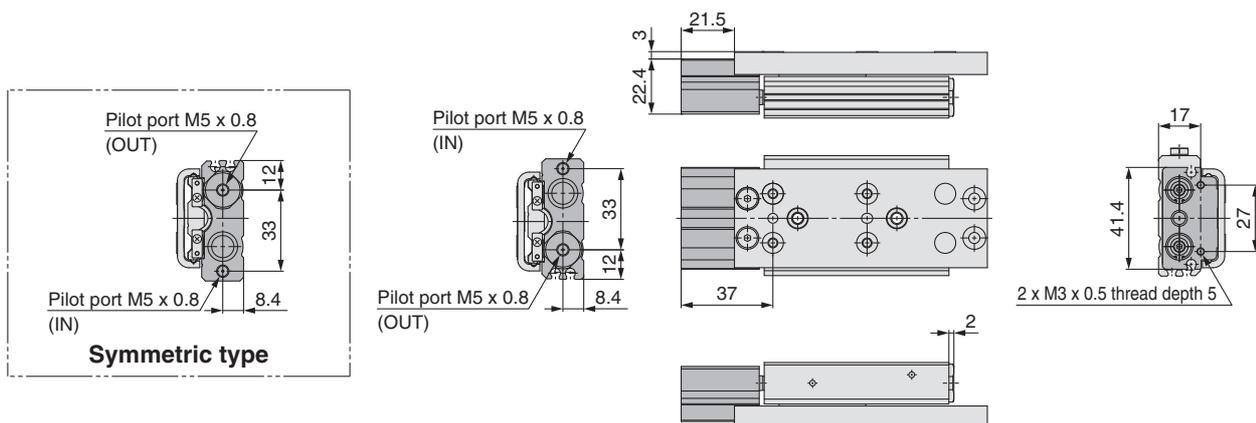
MXQ **12C-□Z□4** With buffer, end lock (ø12)



Dimensions [mm]	
Model	J
MXQ12C-10Z□4	68
MXQ12C-20Z□4	70
MXQ12C-30Z□4	80
MXQ12C-40Z□4	98
MXQ12C-50Z□4	108
MXQ12C-75Z□4	152
MXQ12C-100Z□4	177

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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection

Air Slide Table

Height interchangeable type

Series MXQ

ø6, ø8, ø12, ø16, ø20, ø25

RoHS

How to Order

MXQ 12 [] - **30 ZA** [] - **M9BW** [] - []

Body option

Bore size	Body option		Standard stroke [mm]
	Standard type	Symmetric type	
6	—	L	10, 20, 30, 40, 50
8	—	L	10, 20, 30, 40, 50, 75
12	—	L	10, 20, 30, 40, 50, 75, 100
16	—	— Note)	10, 20, 30, 40, 50, 75, 100, 125
20	—	— Note)	10, 20, 30, 40, 50, 75, 100, 125, 150
25	—	— 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 59 for details.

Auto switch
— Without auto switch

Number of auto switches

—	2 pcs.
S	1 pc.
n	"n" pcs.

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

Functional option

Symbol	Functional option
—	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					
		Extension stroke end	Retraction stroke end	—	1	2	3	4	5
Z	Without adjuster			○	○	○	○	○	○
ZA	Metal stopper with bumper	●	●	○	×	×	○	×	×
ZB	(Not available for ø6)	●	●	○	×	○	○	×	×
ZC		●	●	○	×	×	○	×	×
ZD	Rubber stopper	●	●	○	×	×	○	×	×
ZE		●	●	○	○	○	○	○	○
ZF		●	●	○	×	×	○	×	×
ZG		●	●	○	×	×	○	×	×
ZH	Shock absorber (RJ)	●	●	○	×	○	○	×	×
ZJ		●	●	○	×	×	○	×	×
ZN	Note 5) Without adjuster			○	○ Note 6)	×	○	×	○ Note 6)
ZP	Shorter total length type	●	●	○	×	×	○	×	×
ZQ	Shock absorber (RJ)	●	●	○	×	×	○	×	×
ZS	Metal stopper with bumper (Not available for ø6)	●	●	○	×	×	○	×	×

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 centralised adjuster specification (-X27). End lock or axial piping option cannot be mounted to the centralised 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 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 (—)	1 (M)	3 (L)	5 (Z)						
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	—	M9NV	M9N	●	●	●	○	○	IC				
				3-wire (PNP)			M9PV	M9P	●	●	●	○						
				2-wire			M9BV	M9B	●	●	●	○						
				3-wire (NPN)			M9NWW	M9NW	●	●	●	○	○					
				3-wire (PNP)			M9PWV	M9PW	●	●	●	○	○					
				2-wire			M9BWW	M9BW	●	●	●	○	○					
	Diagnostic indication (2-colour indication)			—	M9NAV***	M9NA***	○	○	●	○	○	IC						
					M9PAV***	M9PA***	○	○	●	○	○							
					M9BAV***	M9BA***	○	○	●	○	○							
					Water resistant (2-colour indication)	—	—	—	—	—	—		—	—	—	—	—	Relay, PLC

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

* Lead wire length symbols: 0.5 m (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 87 for details.

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

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



Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection

Series MXQ



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-colour indication solid state auto switch (2-wire, 3-wire)					
Stroke length tolerance	+2 to 0 mm					

Note) Refer to page 60 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)



Made to Order
(For details, refer to pages 89 to 93.)

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	Centralised 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
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

Weight

Model	Standard stroke [mm]									Reduction of the shorter total length type	Additional weight of adjuster option		Extra for option		Axial piping
	10	20	30	40	50	75	100	125	150		Extension stroke end	Retraction stroke end	End lock	Buffer	
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		Adjuster option			
	Internal rubber bumper	Rubber stopper	Metal stopper with bumper	Shock absorber (RJ)		
				Horizontal	Vertical	
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		Adjuster option	
	Internal rubber bumper	Rubber stopper	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
Mode (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
Mode (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	

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster
Options

Auto Switch
Mounting

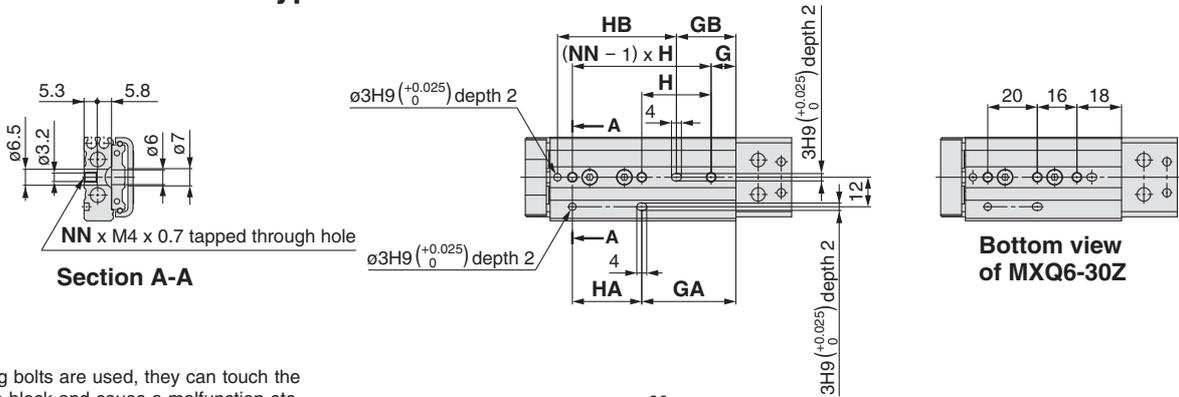
Made to Order

Model Selection

Series MXQ

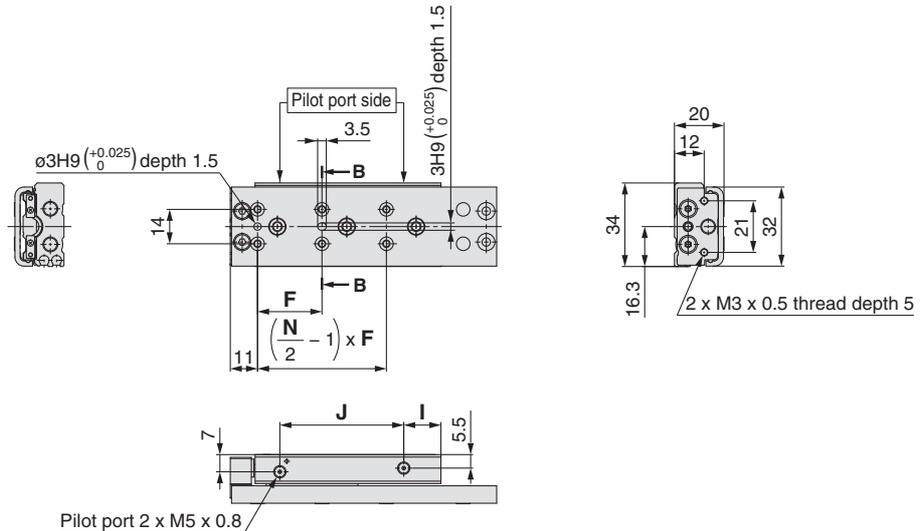
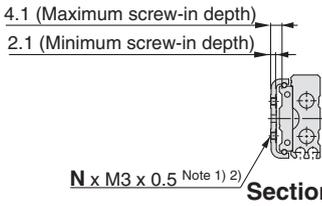
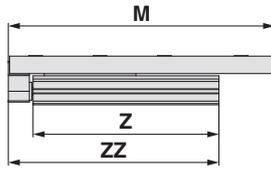
Dimensions: MXQ **6** [Standard]

MXQ **6**-□**Z** Standard type

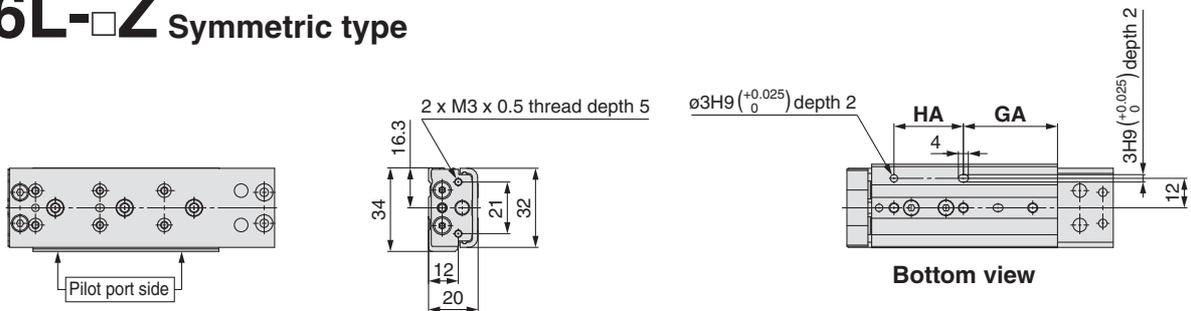


Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

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



MXQ **6L**-□**Z** Symmetric type



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

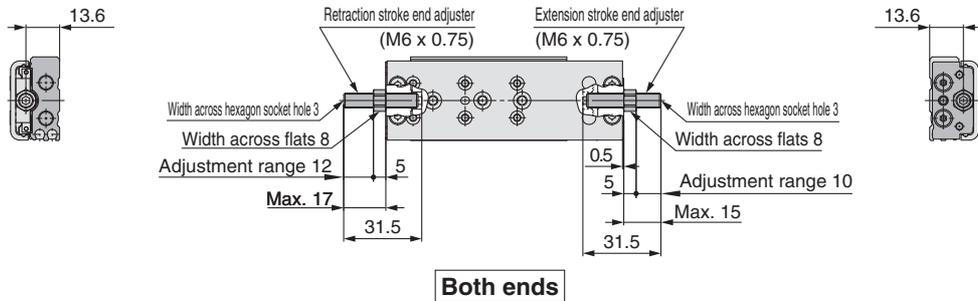
Dimensions

Model	F	G	GA	GB	H	HA	HB	I	J	M	N	NN	Z	ZZ
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

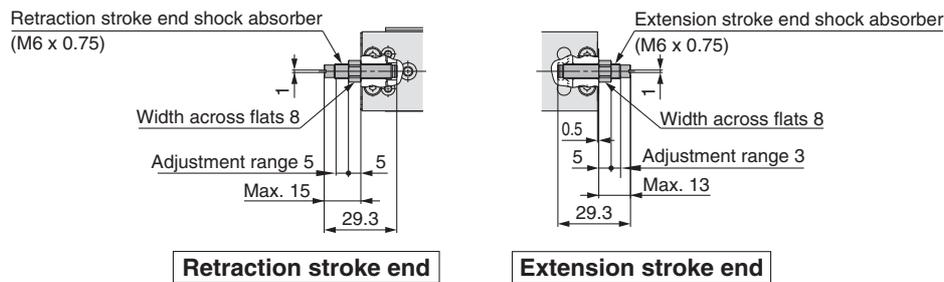
Dimensions: MXQ **6** [Adjuster Option]

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)

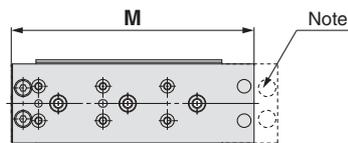


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



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

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



Note) 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
MXQ6-10ZN	55
MXQ6-20ZN	65
MXQ6-30ZN	86
MXQ6-40ZN	98
MXQ6-50ZN	108

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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

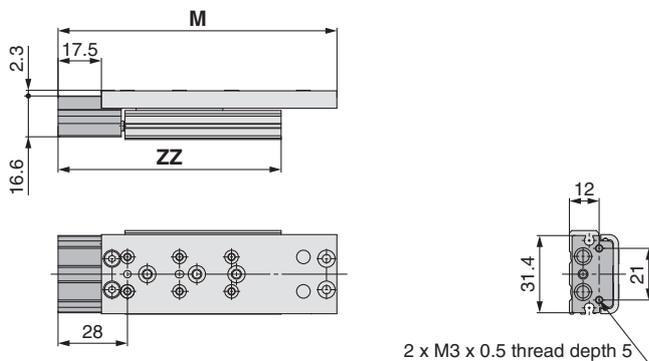
Made to Order

Model Selection

Series MXQ

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

MXQ 6-□Z□1 With buffer (∅6)

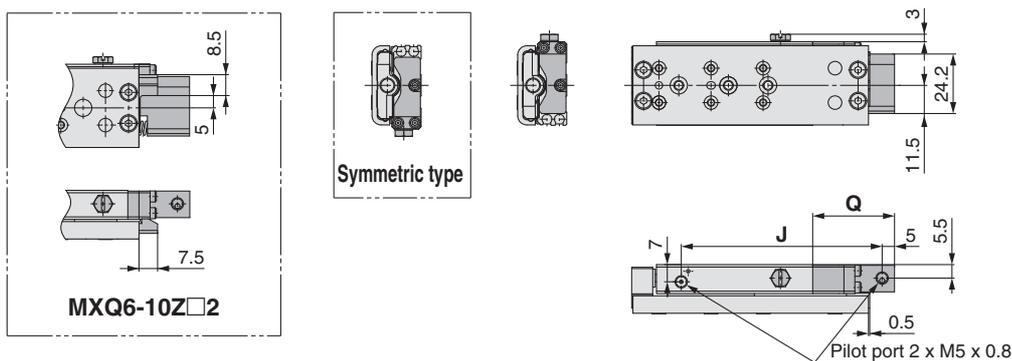


Dimensions [mm]

Model	Standard type	Shorter total length type	ZZ
	M	M	
MXQ6-10Z□1	81.5	72	77
MXQ6-20Z□1	91.5	82	
MXQ6-30Z□1	112.5	103	90
MXQ6-40Z□1	124.5	115	102
MXQ6-50Z□1	134.5	125	112

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

MXQ 6-□Z□2 With end lock (∅6)



Dimensions [mm]

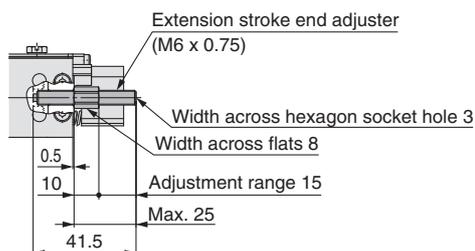
Model	J	Q
MXQ6-10Z□2	57.5	25
MXQ6-20Z□2		
MXQ6-30Z□2	78.5	33
MXQ6-40Z□2	90.5	
MXQ6-50Z□2	100.5	

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

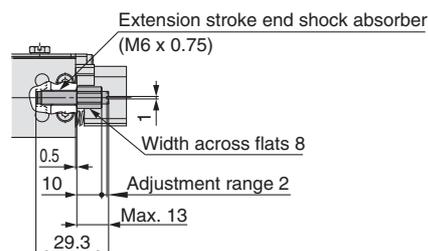
MXQ 6-□Z□2 With end lock, extension stroke end adjuster (∅6)

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**



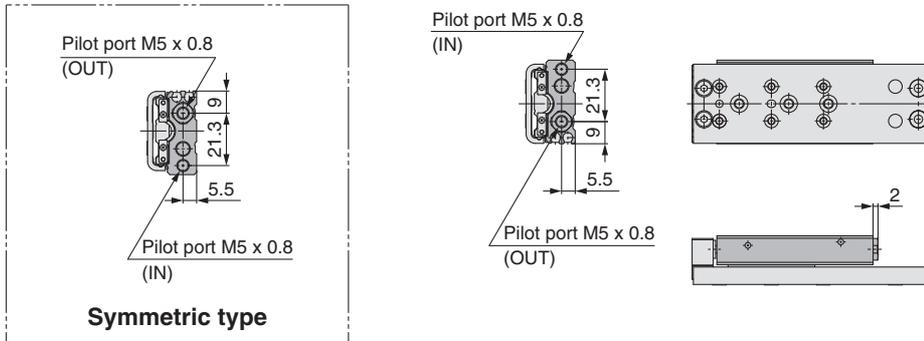
Shock absorber (RJ): **ZH**



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

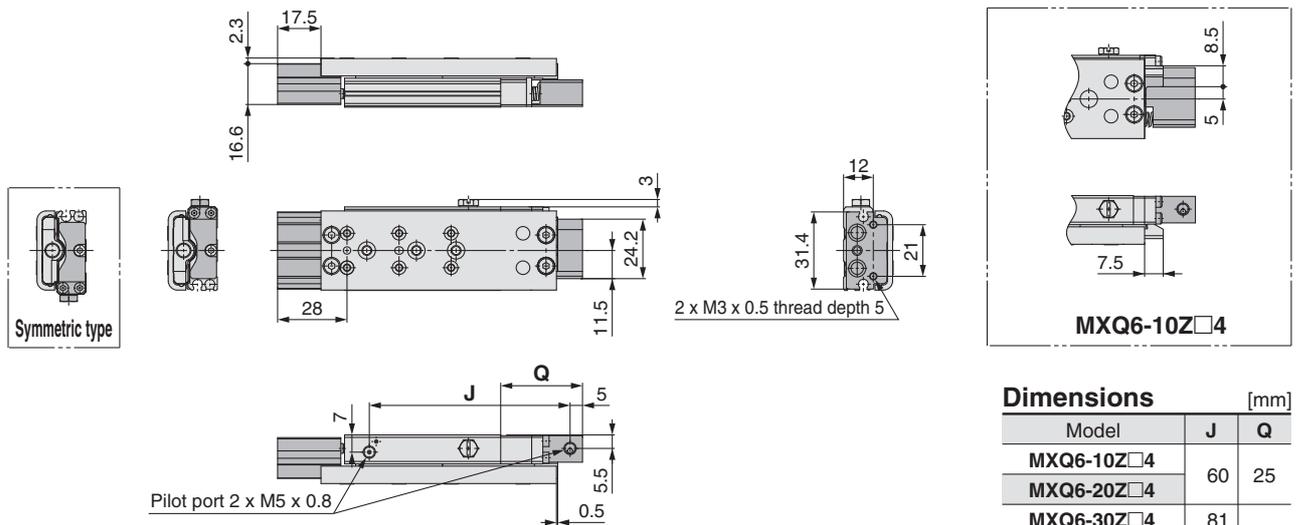
Dimensions: MXQ **6** [Functional Option]

MXQ 6-□Z□3 Axial piping (ø6)



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

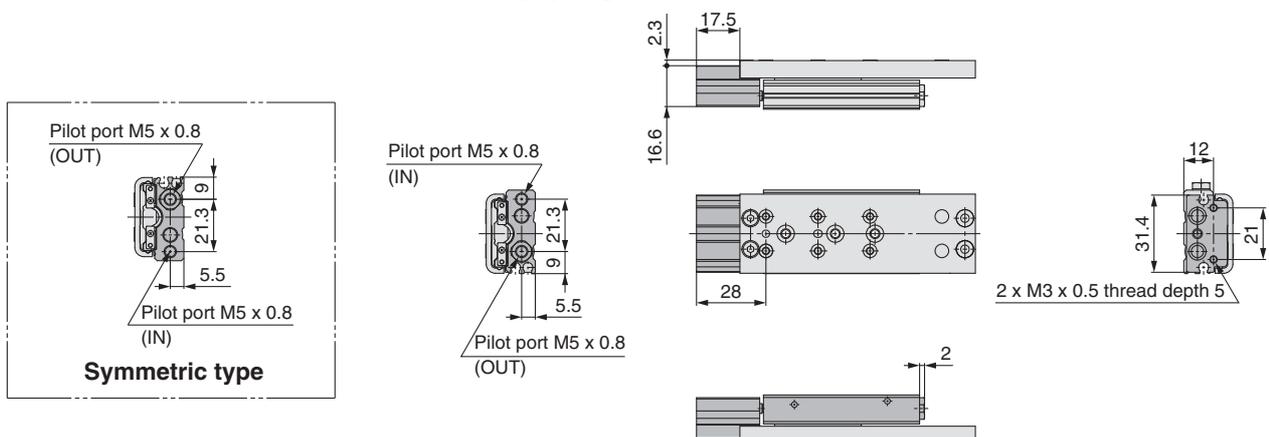
MXQ 6-□Z□4 With buffer, end lock (ø6)



Dimensions		[mm]	
Model	J	Q	
MXQ6-10Z□4	60	25	
MXQ6-20Z□4			
MXQ6-30Z□4	81	33	
MXQ6-40Z□4	93		
MXQ6-50Z□4	103		

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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

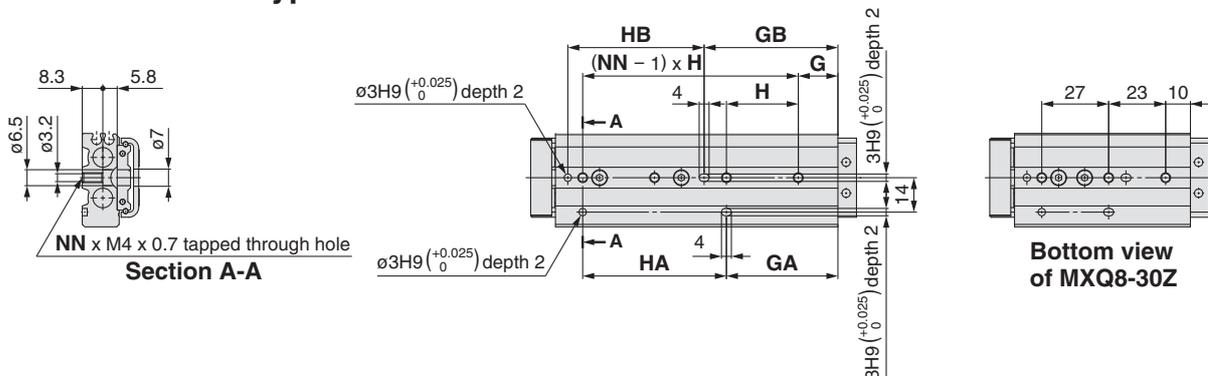
Auto Switch Mounting

Made to Order

Model Selection

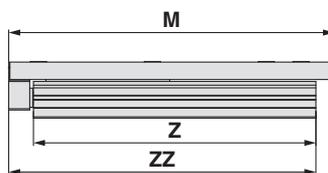
Dimensions: MXQ **8** [Standard]

MXQ **8**-□**Z** Standard type

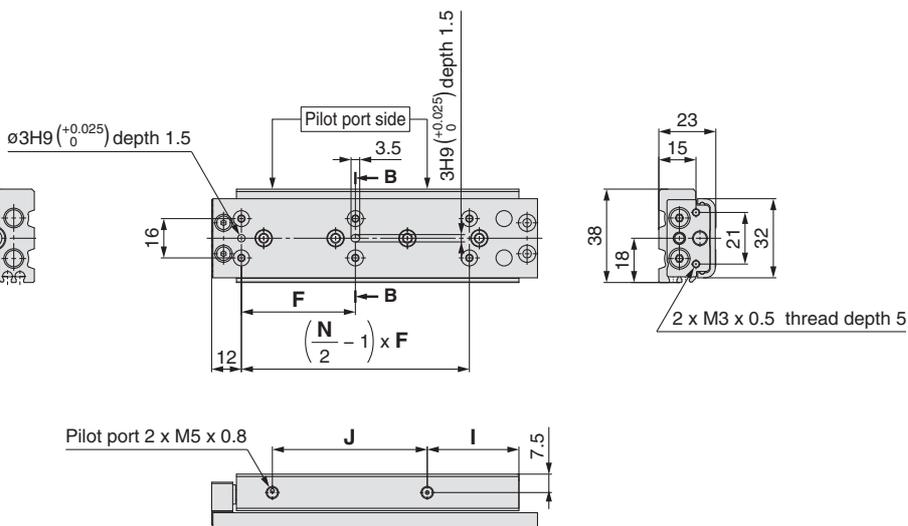
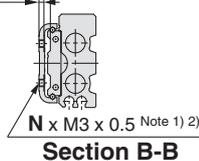


Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has AN intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

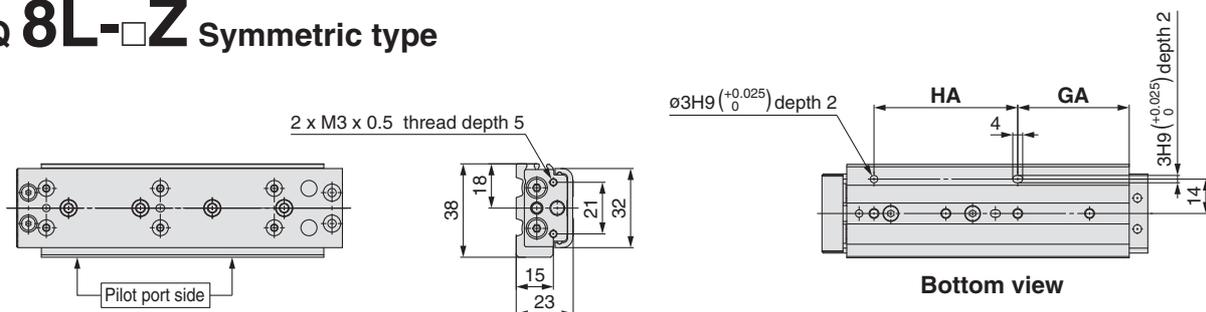
Note 2) Since the table is made of a magnetic substance, it could become magnetized if touched by a magnet etc. This could cause an auto switch malfunction.



4.1 (Maximum screw-in depth)
2.1 (Minimum screw-in depth)



MXQ **8L**-□**Z** Symmetric type



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

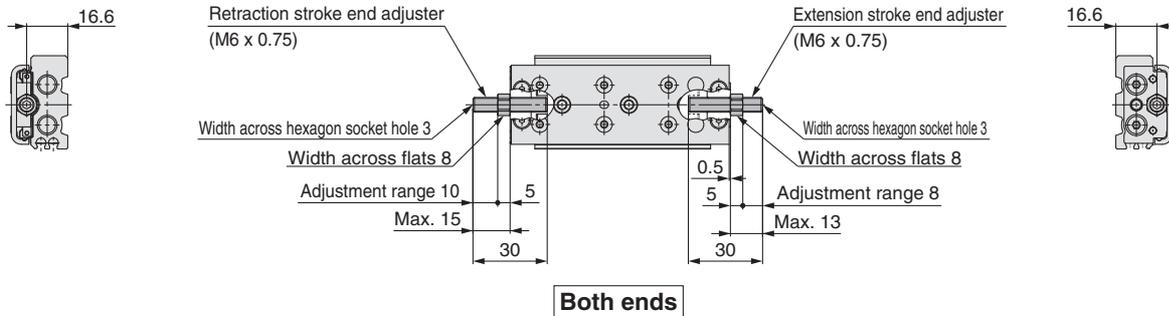
Dimensions

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

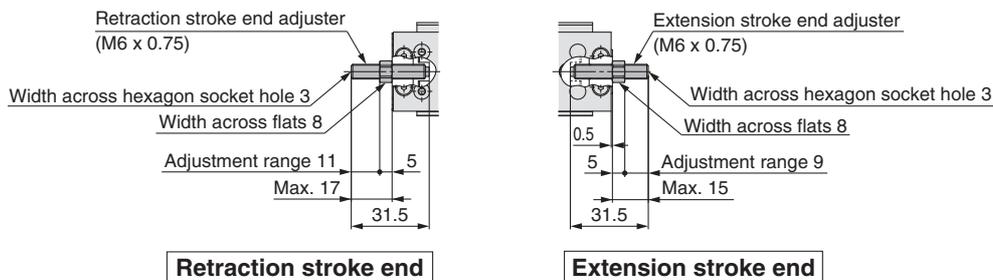
Dimensions: MXQ **8** [Adjuster Option]

MXQ 8-□ □ With adjuster option (ø8)

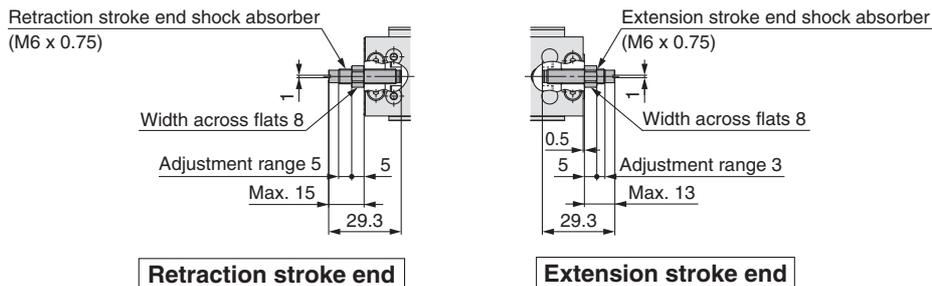
Metal stopper with bumper **ZA** : Both ends, **ZB** : Extension stroke end, **ZC** : Retraction stroke end, **ZS** : Retraction stroke end (Shorter total length type)



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

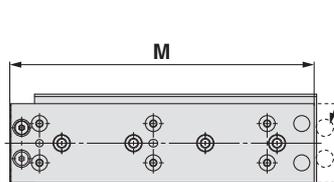


Shock absorber (RJ) **ZG** : Both ends, **ZH** : Extension stroke end, **ZJ** : Retraction stroke end, **ZQ** : Retraction stroke end (Shorter total length type)



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

MXQ 8-□ **ZN** Height interchangeable type



Note)

Note) 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.)

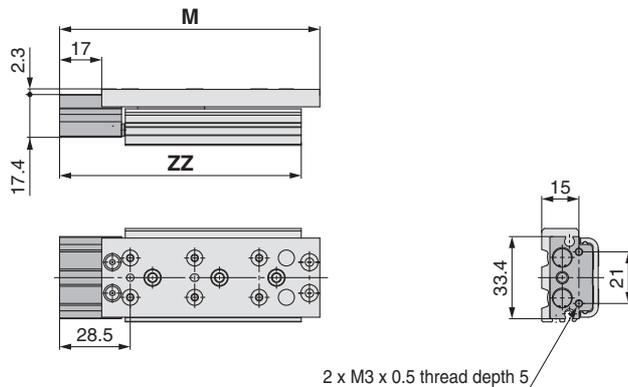
Dimensions (mm)	
Model	M
MXQ8-10ZN	60
MXQ8-20ZN	70
MXQ8-30ZN	80
MXQ8-40ZN	96
MXQ8-50ZN	123
MXQ8-75ZN	148

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

Series MXQ

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

MXQ 8-□Z□1 With buffer (ø8)

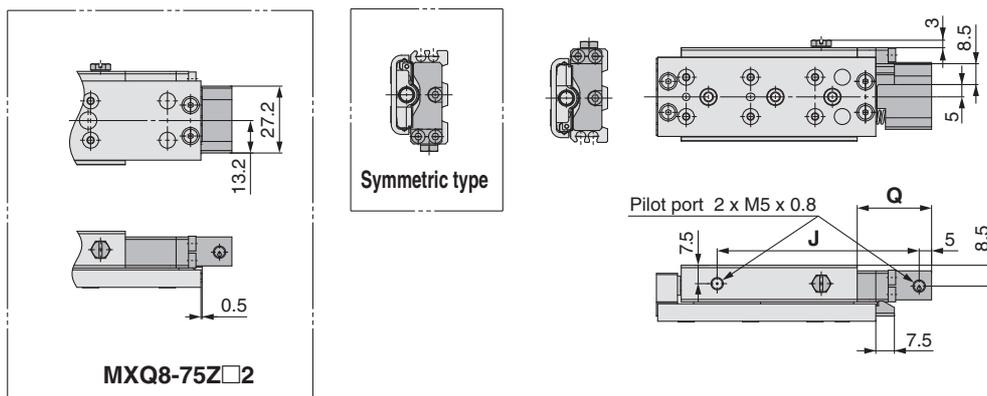


Dimensions [mm]

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

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

MXQ 8-□Z□2 With end lock (ø8)



Dimensions [mm]

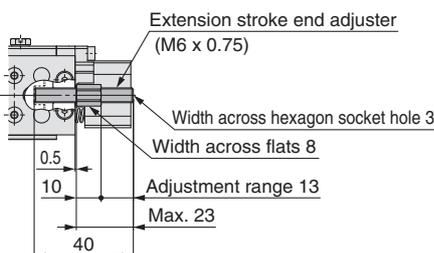
Model	J	Q
MXQ8-10Z□2	61.5	30
MXQ8-20Z□2	71.5	
MXQ8-30Z□2	81.5	
MXQ8-40Z□2	97.5	
MXQ8-50Z□2	124.5	43
MXQ8-75Z□2	139.5	

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

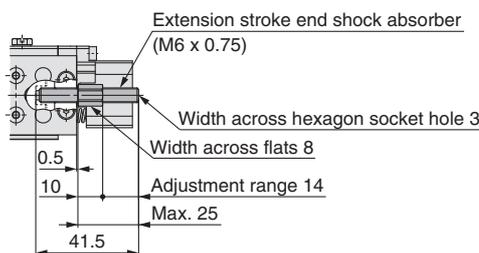
MXQ 8-□Z□2 With end lock, extension stroke end adjuster (ø8)

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.

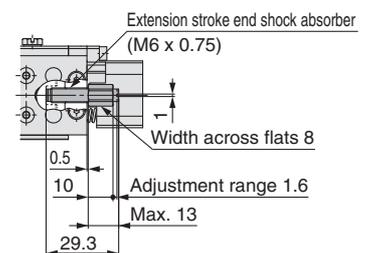
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



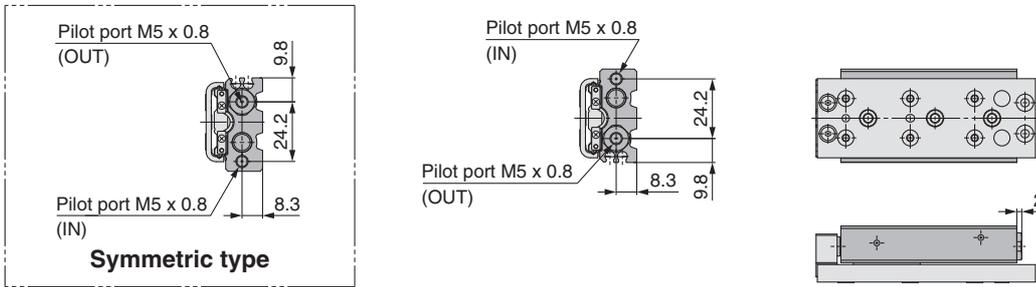
Shock absorber (RJ): **ZH**



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

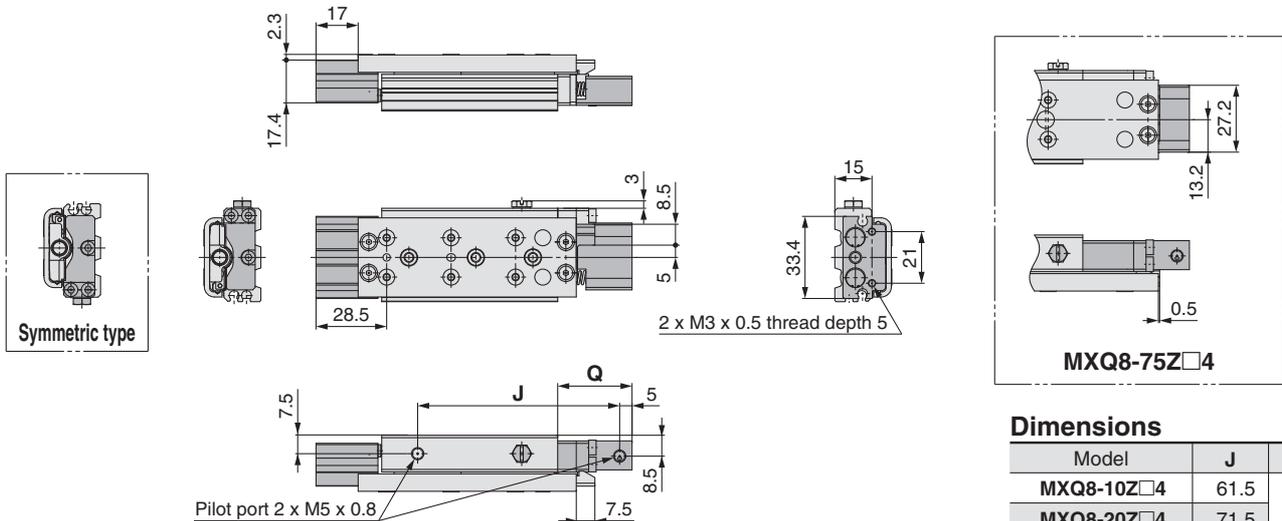
Dimensions: MXQ **8** [Functional Option]

MXQ 8-□Z□3 Axial piping (ø8)



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

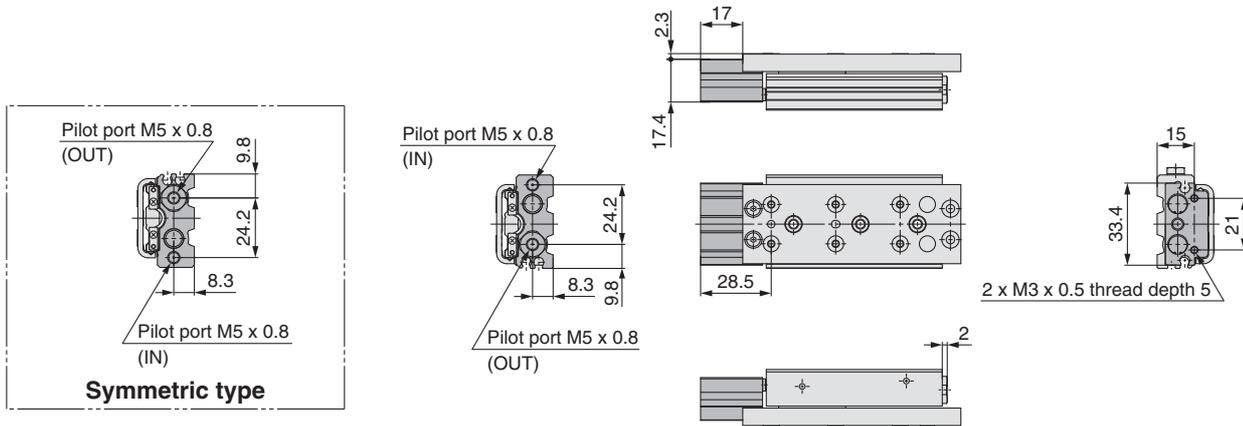
MXQ 8-□Z□4 With buffer, end lock (ø8)



Dimensions [mm]		
Model	J	Q
MXQ8-10Z□4	61.5	30
MXQ8-20Z□4	71.5	
MXQ8-30Z□4	81.5	
MXQ8-40Z□4	97.5	
MXQ8-50Z□4	124.5	
MXQ8-75Z□4	139.5	43

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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

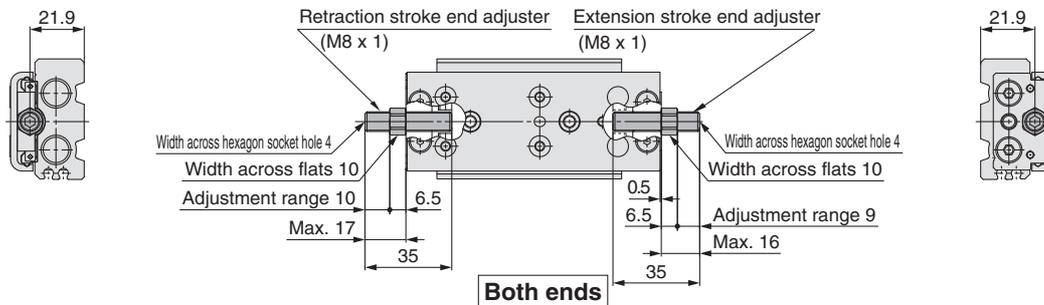
Made to Order

Model Selection

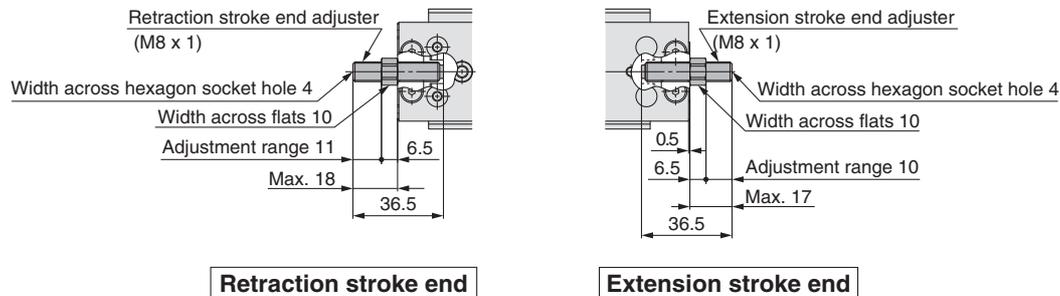
Dimensions: MXQ **12** [Adjuster Option]

MXQ 12-□ □ With adjuster option (∅12)

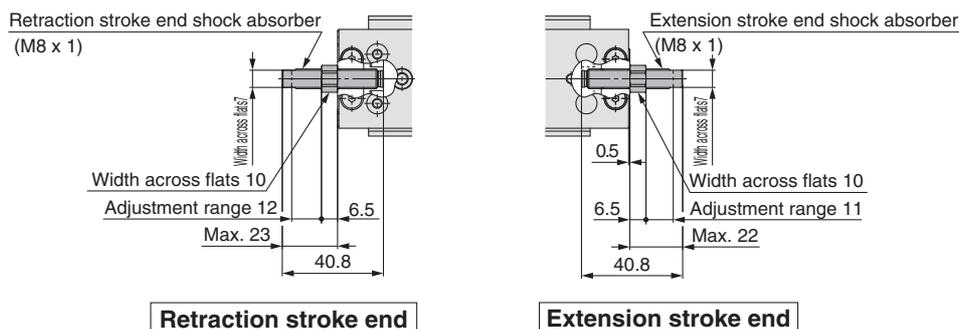
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



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

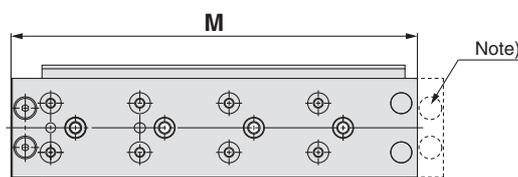


Shock absorber (RJ) **ZG**: Both ends, **ZH**: Extension stroke end, **ZJ**: Retraction stroke end, **ZQ**: Retraction stroke end (Shorter total length type)



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

MXQ 12-□ ZN Height interchangeable type



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

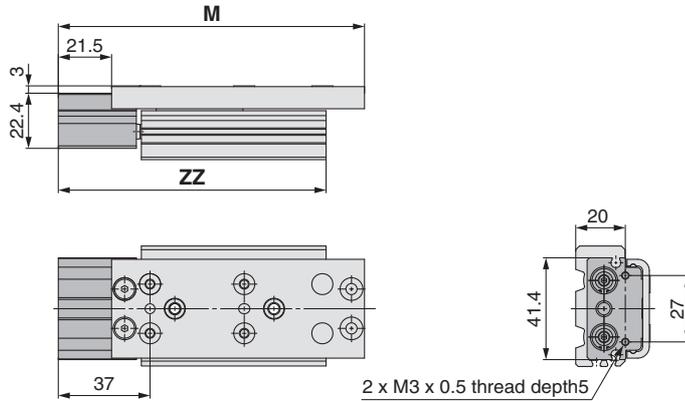
Made to Order

Model Selection

Series MXQ

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

MXQ 12-□Z□1 With buffer (ø12)

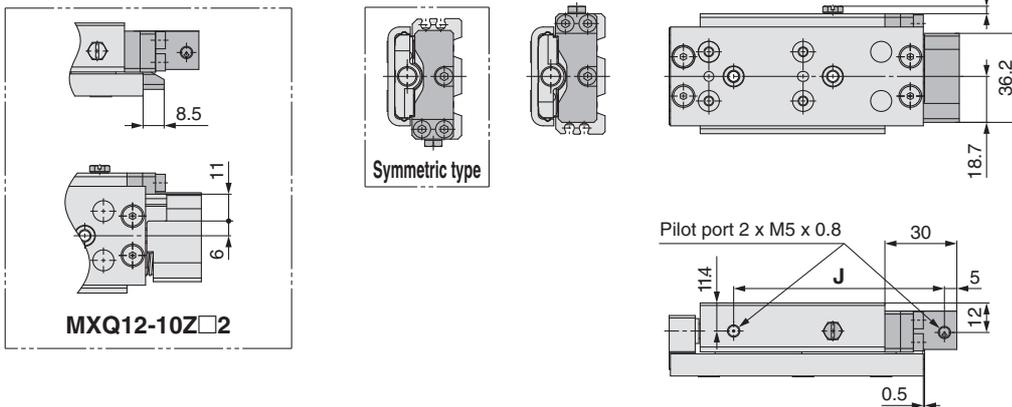


Dimensions [mm]

Model	Standard type	Shorter total length type	ZZ
	M	M	
MXQ12-10Z□1	103.5	93	96
MXQ12-20Z□1	113.5	103	98
MXQ12-30Z□1	123.5	113	108
MXQ12-40Z□1	141.5	131	126
MXQ12-50Z□1	151.5	141	136
MXQ12-75Z□1	195.5	185	180
MXQ12-100Z□1	220.5	210	205

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

MXQ 12-□Z□2 With end lock (ø12)



Dimensions [mm]

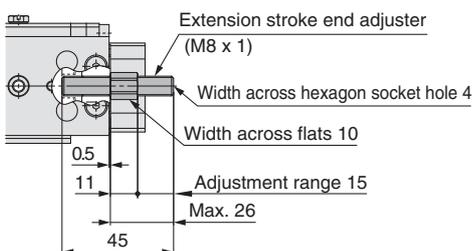
Model	J
MXQ12-10Z□2	68
MXQ12-20Z□2	70
MXQ12-30Z□2	80
MXQ12-40Z□2	98
MXQ12-50Z□2	108
MXQ12-75Z□2	152
MXQ12-100Z□2	177

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

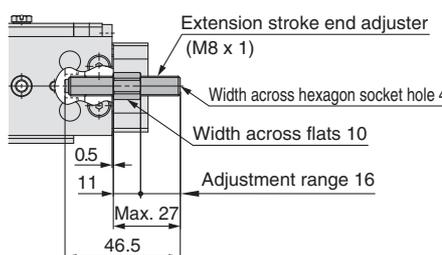
MXQ 12-□Z□2 With end lock, extension stroke end adjuster (ø12)

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.

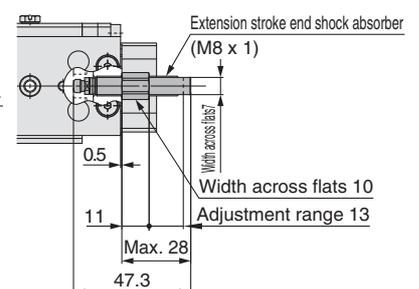
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



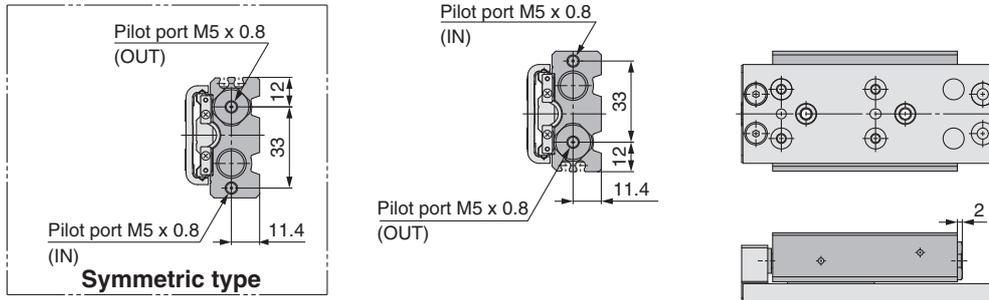
Shock absorber (RJ): **ZH**



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

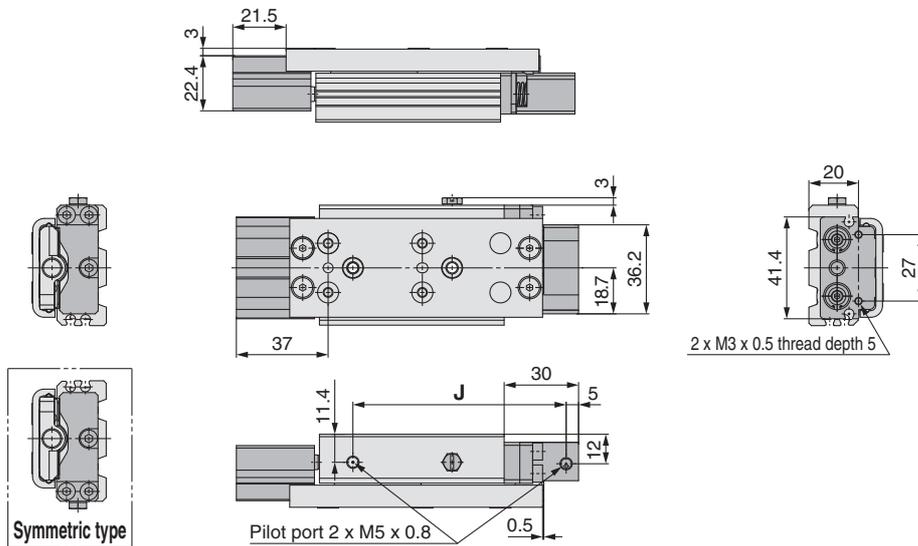
Dimensions: MXQ **12** [Functional Option]

MXQ **12-□Z□3** Axial piping (ø12)

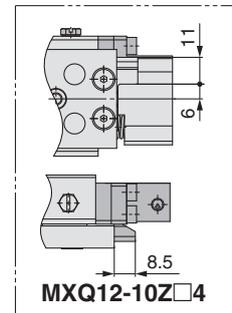


* Dimensions other than listed above are the same as those for the standard type.

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

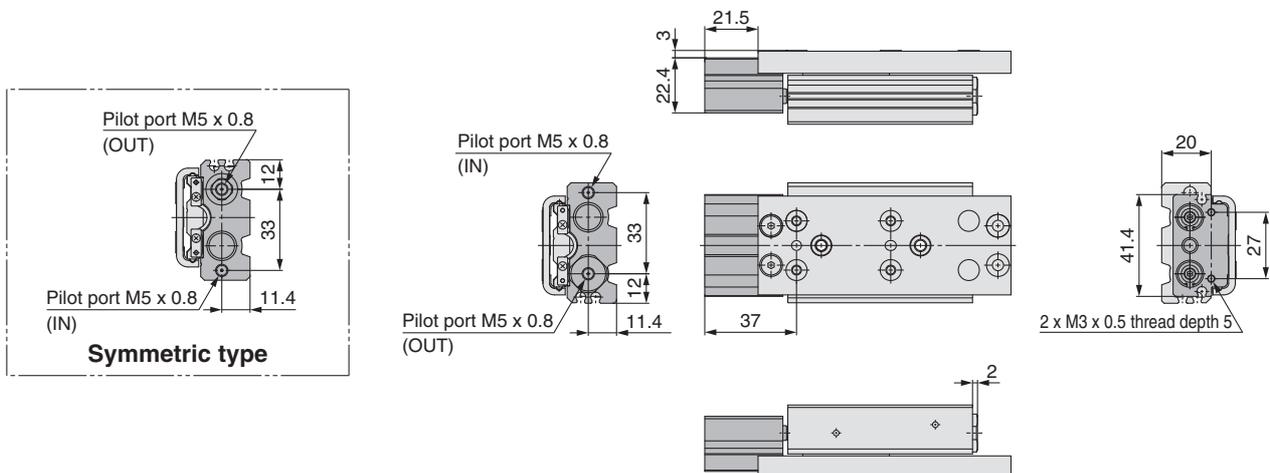


Dimensions	[mm]
Model	J
MXQ12-10Z□4	68
MXQ12-20Z□4	70
MXQ12-30Z□4	80
MXQ12-40Z□4	98
MXQ12-50Z□4	108
MXQ12-75Z□4	152
MXQ12-100Z□4	177



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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

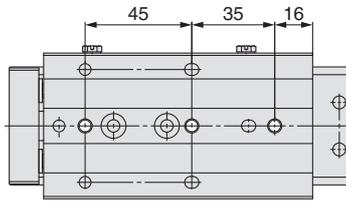
Auto Switch Mounting

Made to Order

Model Selection

Dimensions: MXQ **16** [Standard]

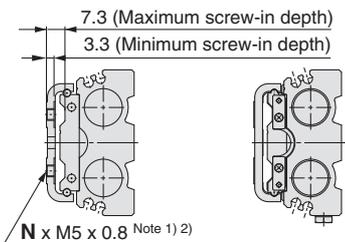
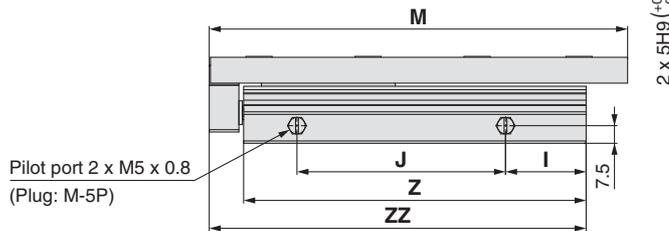
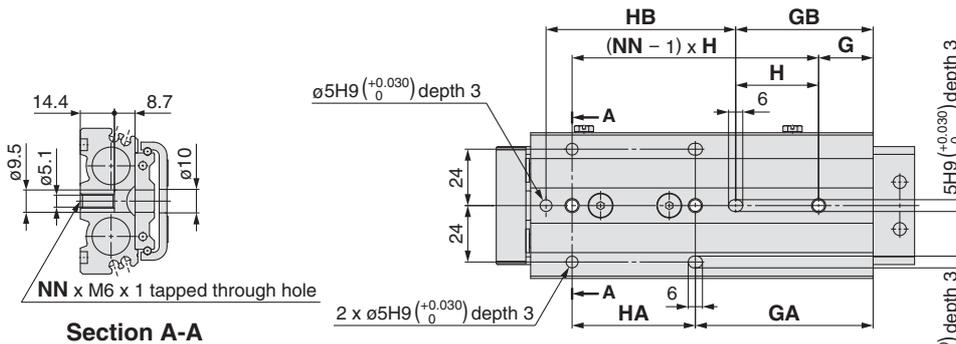
MXQ 16-□Z Standard type



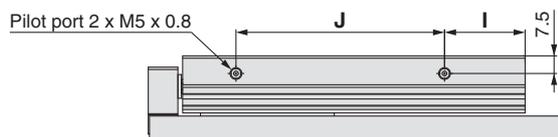
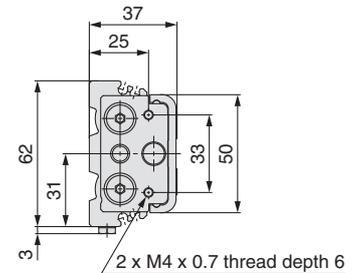
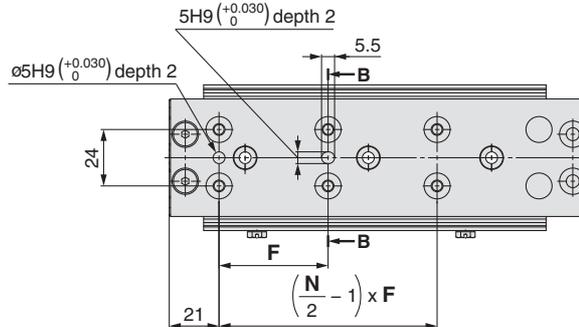
Bottom view of MXQ16A-50Z

Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

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



Section B-B



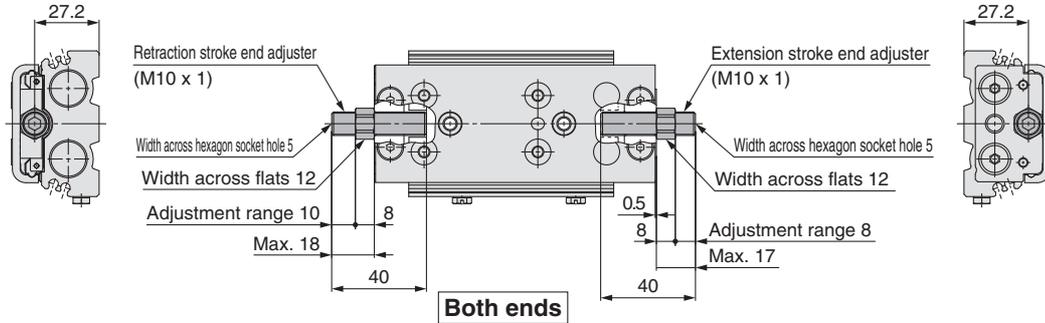
Dimensions

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

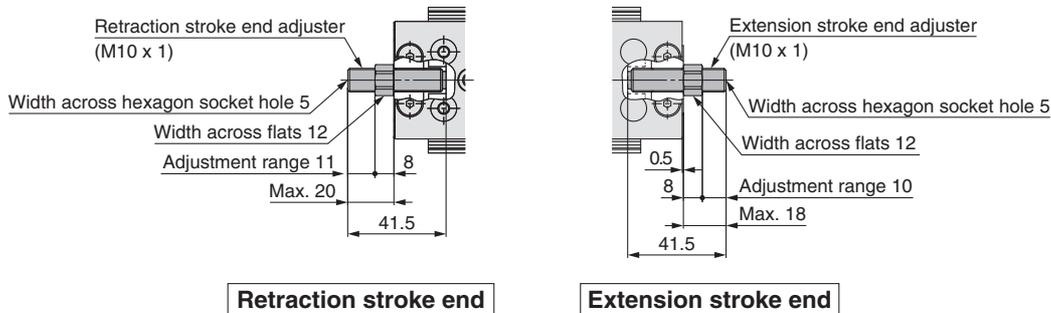
Dimensions: MXQ **16** [Adjuster Option]

MXQ 16-□ □ With adjuster option (∅16)

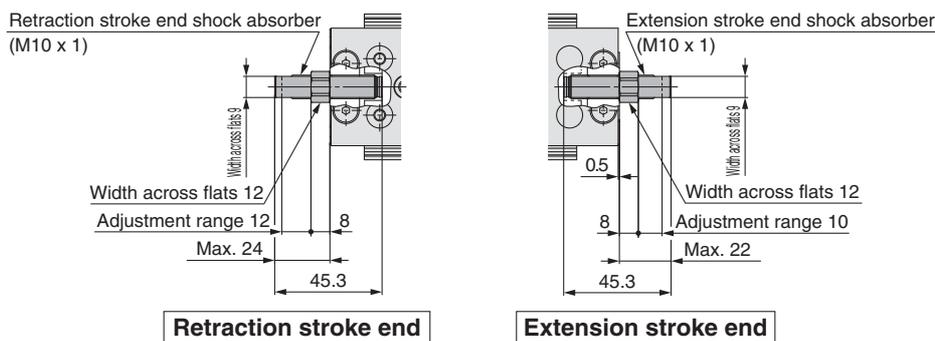
Metal stopper with bumper **ZA**: Both ends, **ZB**: Extension stroke end, **ZC**: Retraction stroke end, **ZS**: Retraction stroke end (Shorter total length type)



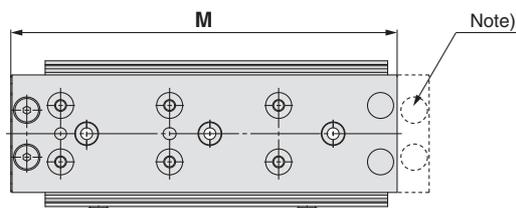
Rubber stopper **ZD**: Both ends, **ZE**: Extension stroke end, **ZF**: Retraction stroke end, **ZP**: Retraction stroke end (Shorter total length type)



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) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

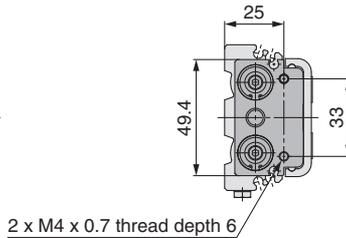
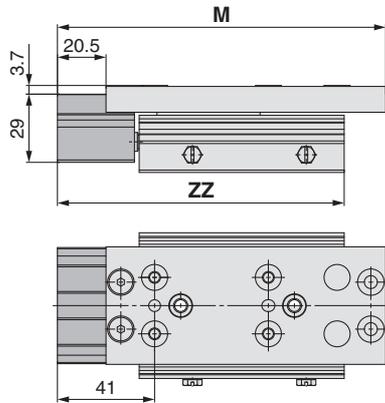
Made to Order

Model Selection

Series MXQ

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

MXQ 16-□Z□1 With buffer (ø16)

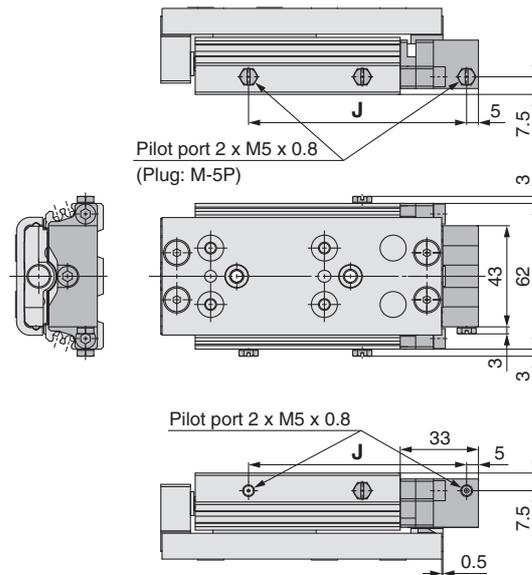
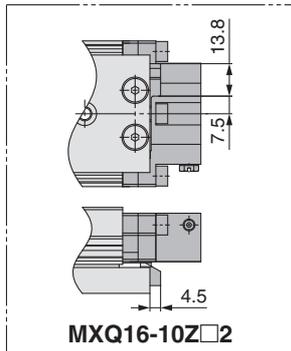


Dimensions [mm]

Model	Standard type		Shorter total length type
	M	M	ZZ
MXQ16-10Z□1	118.5	105	107
MXQ16-20Z□1	128.5	115	111
MXQ16-30Z□1	138.5	125	121
MXQ16-40Z□1	155.5	142	138
MXQ16-50Z□1	165.5	152	148
MXQ16-75Z□1	196.5	183	179
MXQ16-100Z□1	240.5	227	223
MXQ16-125Z□1	265.5	252	248

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

MXQ 16-□Z□2 With end lock (ø16)



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

Pilot port 2 x M5 x 0.8

Dimensions [mm]

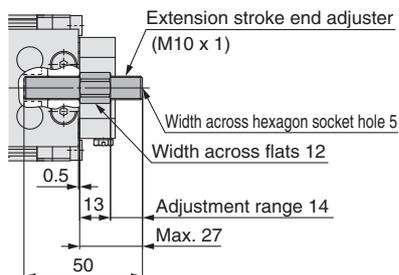
Model	J
MXQ16-10Z□2	78
MXQ16-20Z□2	82
MXQ16-30Z□2	92
MXQ16-40Z□2	109
MXQ16-50Z□2	119
MXQ16-75Z□2	150
MXQ16-100Z□2	194
MXQ16-125Z□2	219

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

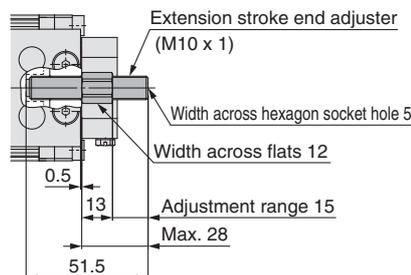
MXQ 16-□Z□2 With end lock, extension stroke end adjuster (ø16)

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.

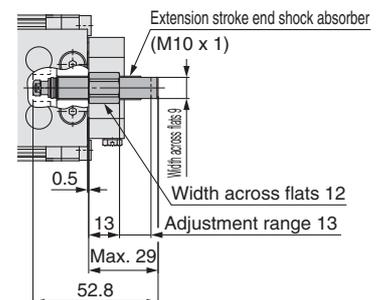
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



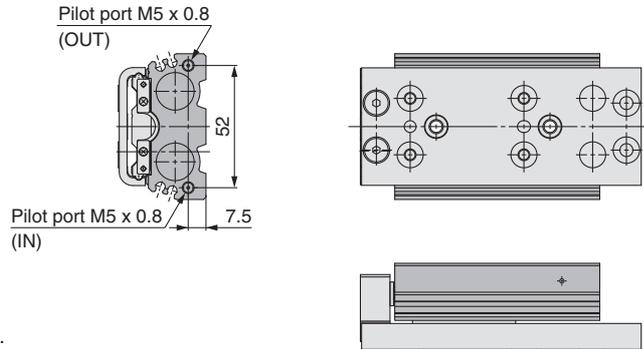
Shock absorber (RJ): **ZH**



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

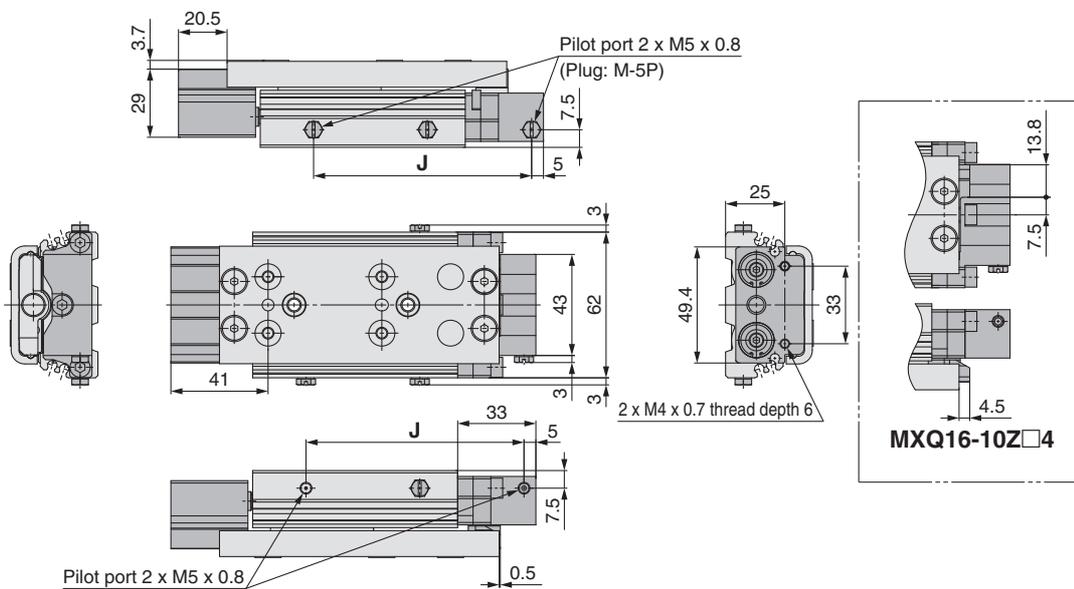
Dimensions: MXQ **16** [Functional Option]

MXQ 16-□Z□3 Axial piping (ø16)



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

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

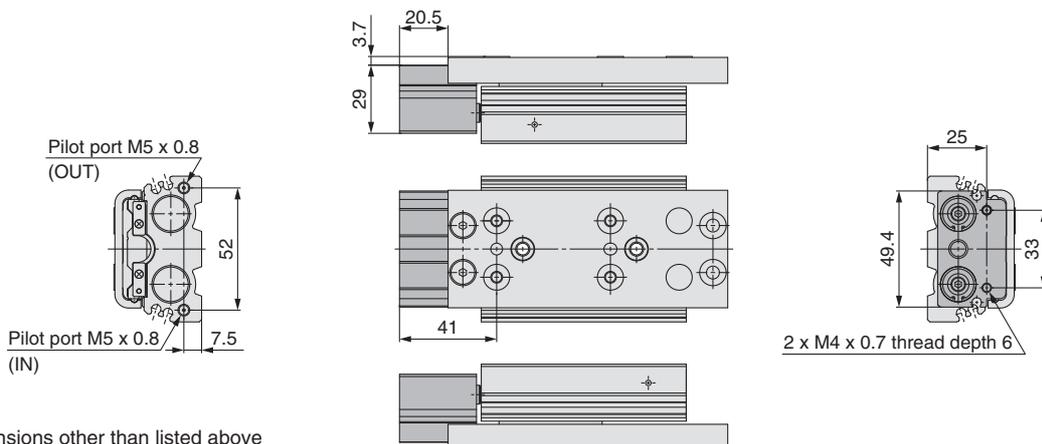


Dimensions [mm]

Model	J
MXQ16-10Z□4	78
MXQ16-20Z□4	82
MXQ16-30Z□4	92
MXQ16-40Z□4	109
MXQ16-50Z□4	119
MXQ16-75Z□4	150
MXQ16-100Z□4	194
MXQ16-125Z□4	219

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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

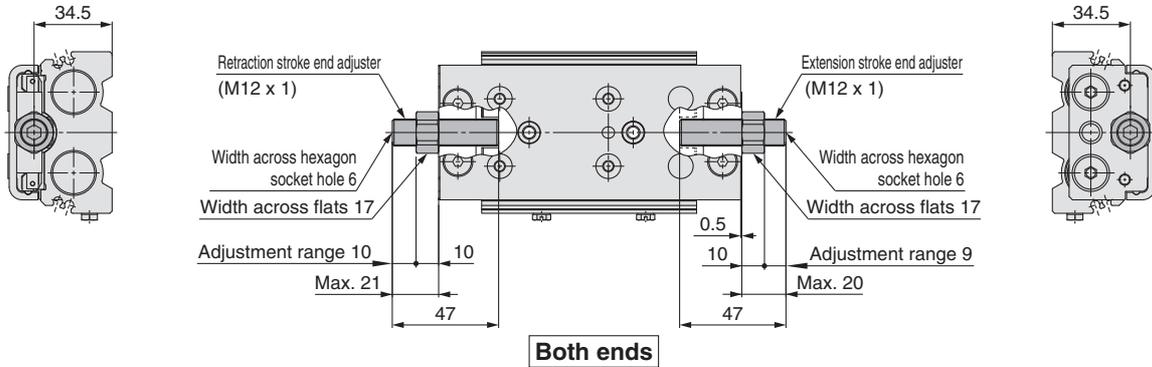
Made to Order

Model Selection

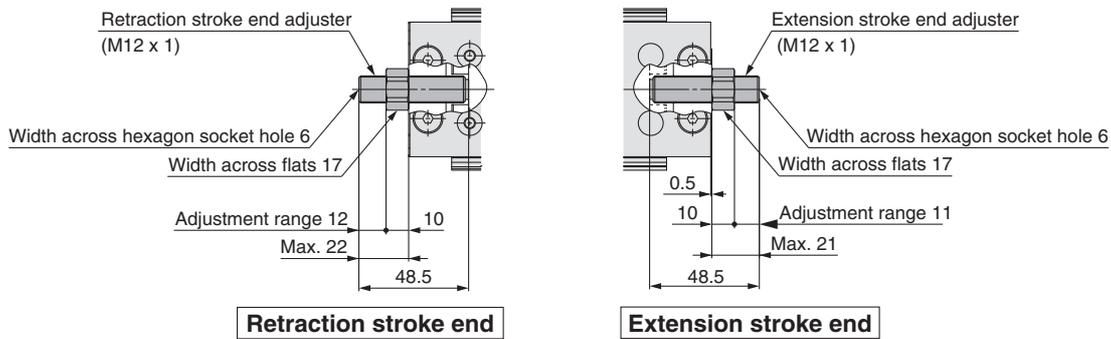
Dimensions: MXQ **20** [Adjuster Option]

MXQ 20-□ □ With adjuster option (ø20)

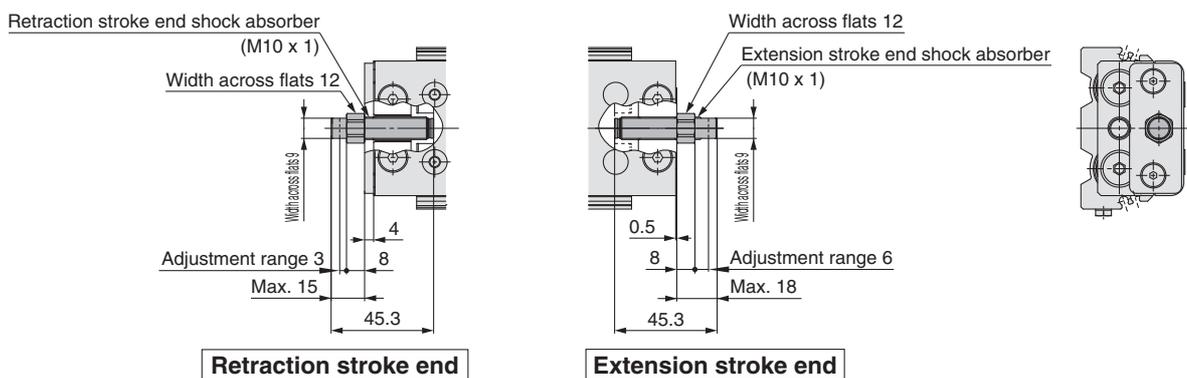
Metal stopper with bumper **ZA** : Both ends, **ZB** : Extension stroke end, **ZC** : Retraction stroke end, **ZS** : Retraction stroke end (Shorter total length type)



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

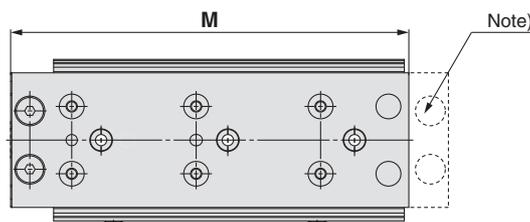


Shock absorber (RJ) **ZG** : Both ends, **ZH** : Extension stroke end, **ZJ** : Retraction stroke end, **ZQ** : Retraction stroke end (Shorter total length type)



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

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



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

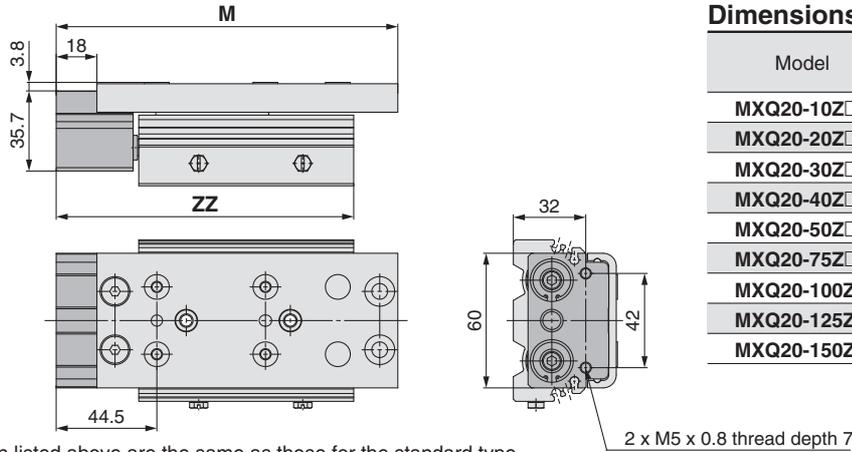
Made to Order

Model Selection

Series MXQ

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

MXQ 20-□Z□1 With buffer (ø20)

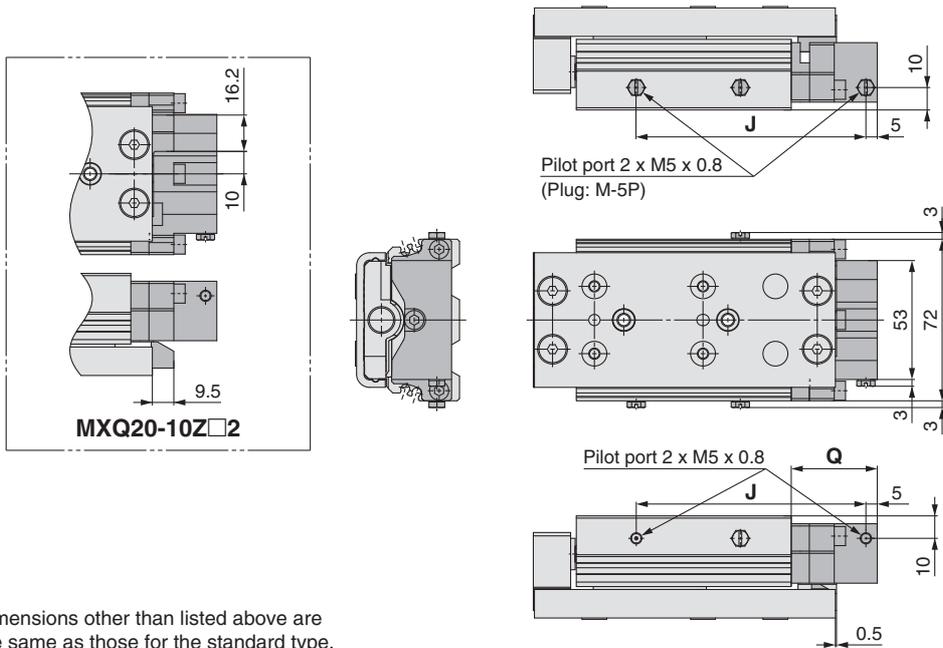


Dimensions [mm]

Model	Standard type	Shorter total length type	ZZ
	M	M	
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

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

MXQ 20-□Z□2 With end lock (ø20)



Dimensions [mm]

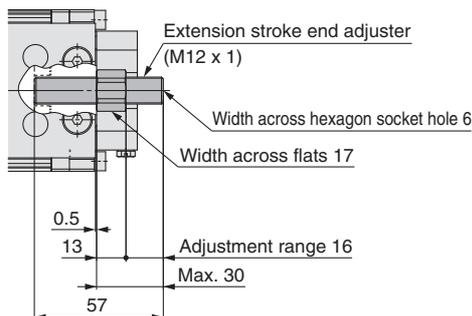
Model	J	Q
	MXQ20-10Z□2	91.5
MXQ20-20Z□2		
MXQ20-30Z□2	101.5	
MXQ20-40Z□2	111.5	
MXQ20-50Z□2	127.5	
MXQ20-75Z□2	161.5	61
MXQ20-100Z□2	234.5	
MXQ20-125Z□2	259.5	
MXQ20-150Z□2	284.5	

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

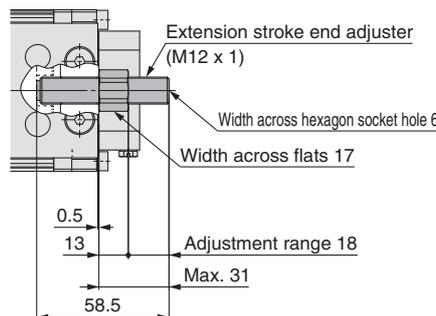
MXQ 20-□Z□2 With end lock, extension stroke end adjuster (ø20)

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.

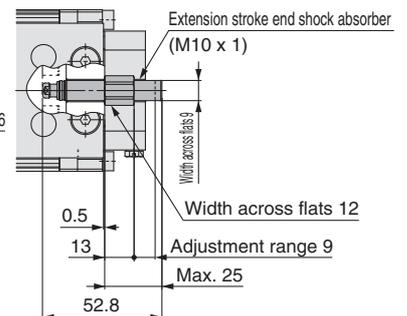
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



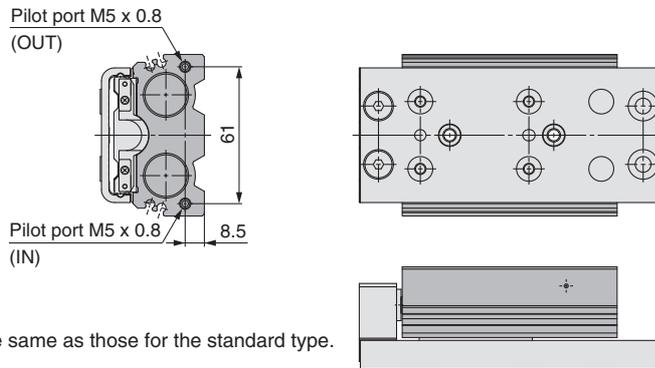
Shock absorber (RJ): **ZH**



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

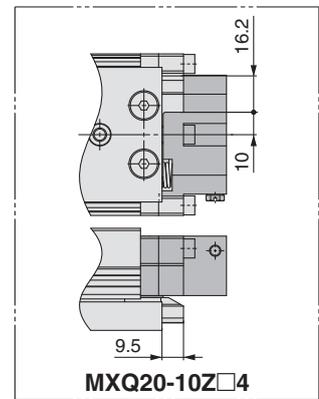
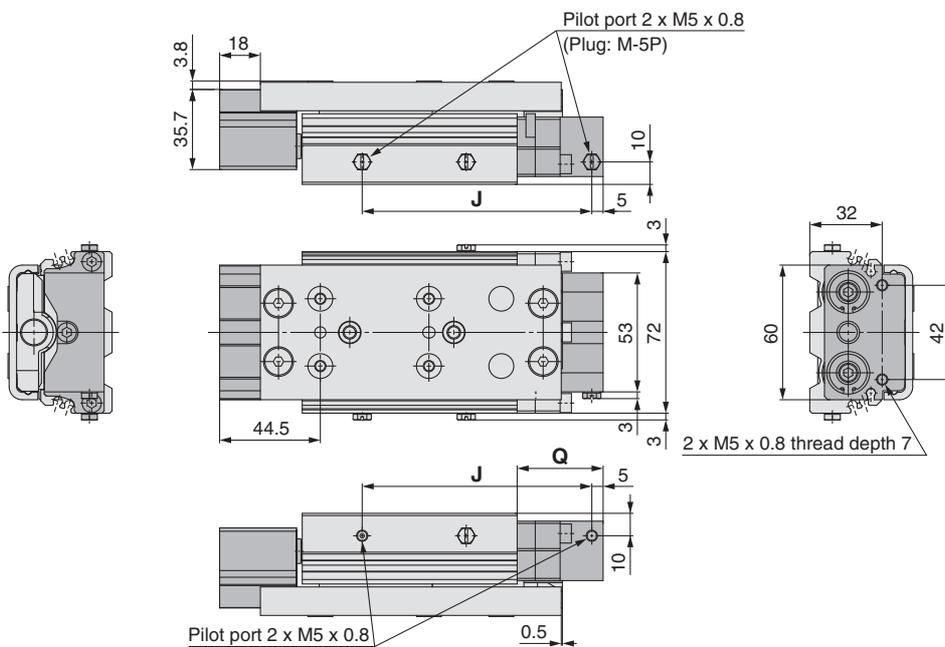
Dimensions: MXQ **20A** [Functional Option]

MXQ **20-□Z□3** Axial piping (ø20)



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

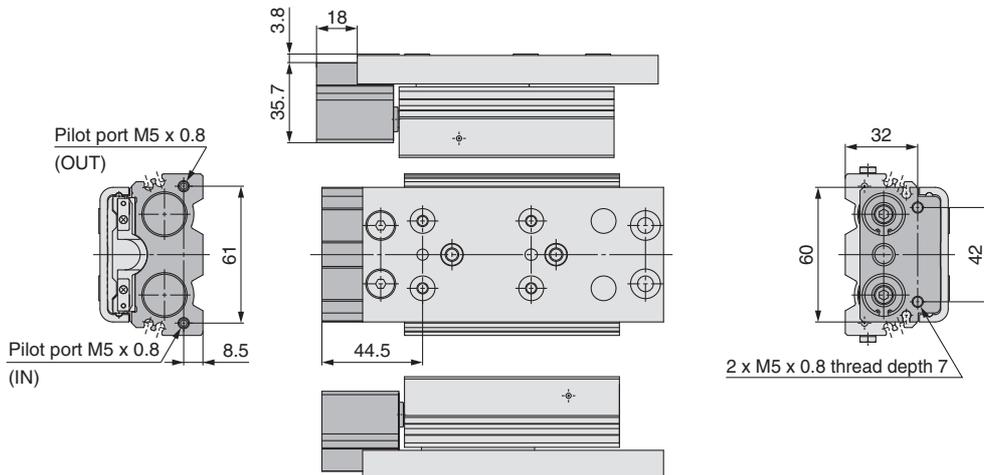
MXQ **20-□Z□4** With buffer, end lock (ø20)



Dimensions		(mm)
Model	J	Q
MXQ20-10Z□4	91.5	38
MXQ20-20Z□4		
MXQ20-30Z□4	101.5	
MXQ20-40Z□4	111.5	
MXQ20-50Z□4	127.5	
MXQ20-75Z□4	161.5	
MXQ20-100Z□4	234.5	61
MXQ20-125Z□4	259.5	
MXQ20-150Z□4	284.5	

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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

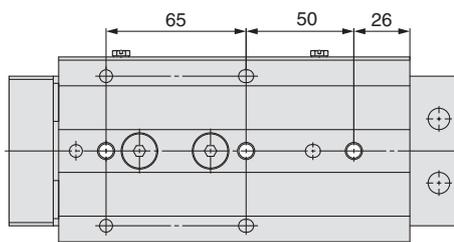
Made to Order

Model Selection

Series MXQ

Dimensions: MXQ **25** [Standard]

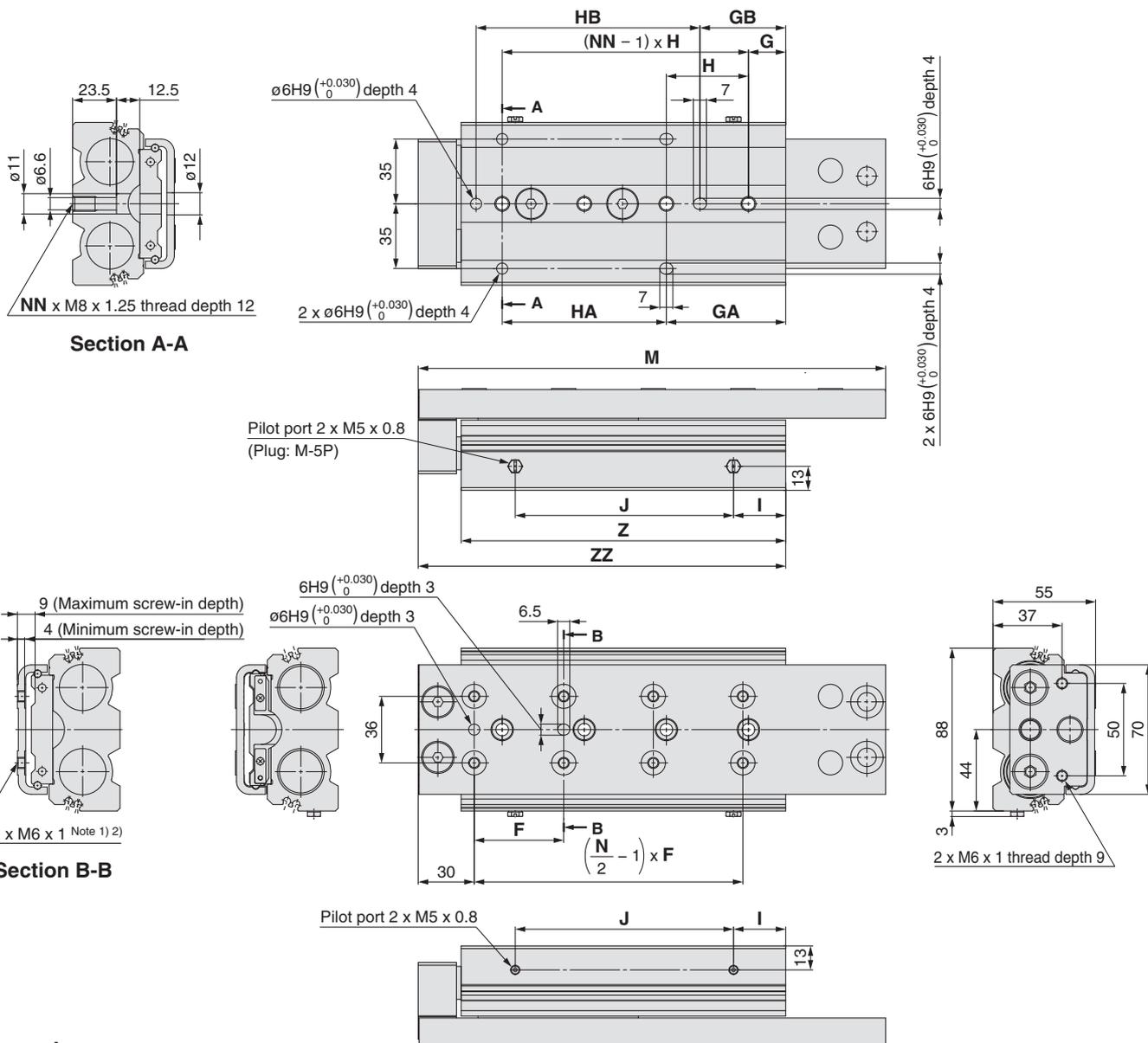
MXQ 25-□Z Standard type



Bottom view of MXQ25-75Z

Note 1) If long bolts are used, they can touch the guide block and cause a malfunction etc. Use a screw which has an intermediate length between the maximum screw-in depth and minimum screw-in depth. Refer to pages 127 and 128 for details.

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



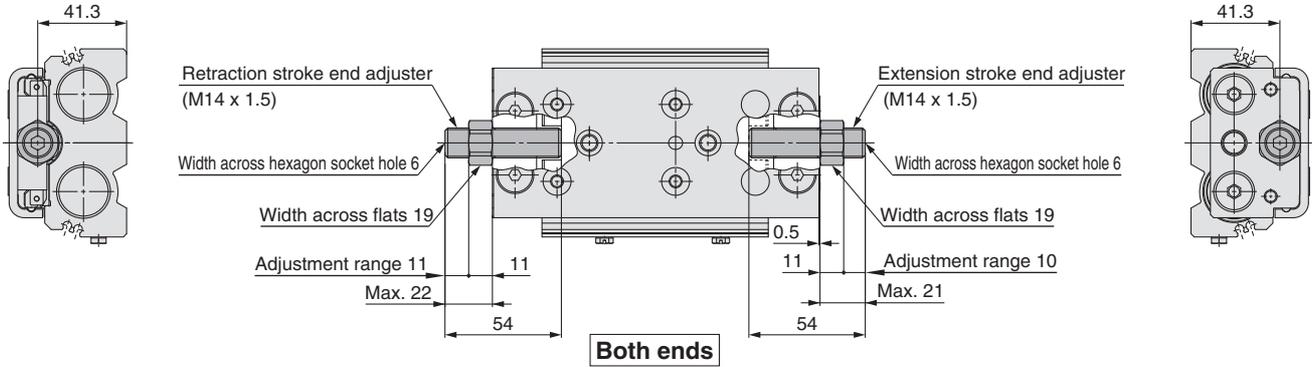
Dimensions

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

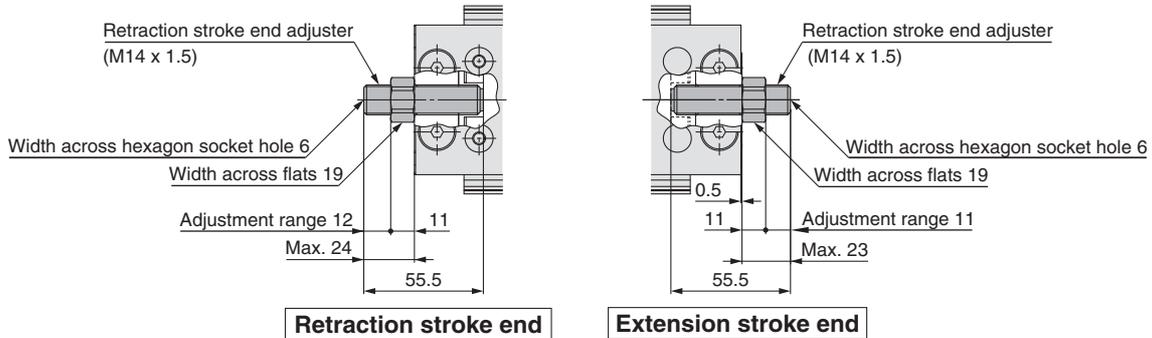
Dimensions: MXQ **25** [Adjuster Option]

MXQ 25-□ □ With adjuster option (ø25)

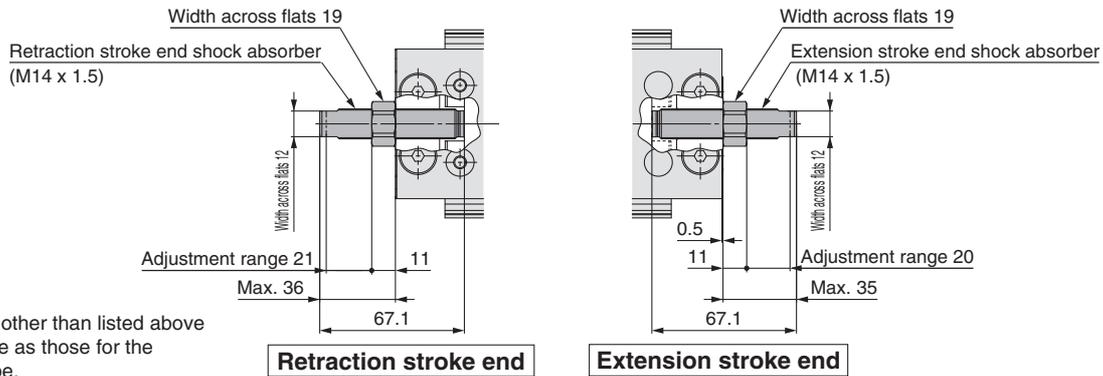
Metal stopper with bumper **ZA** : Both ends, **ZB** : Extension stroke end, **ZC** : Retraction stroke end, **ZS** : Retraction stroke end (Shorter total length type)



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

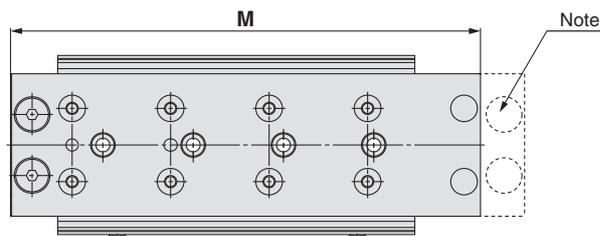


Shock absorber (RJ) **ZG** : Both ends, **ZH** : Extension stroke end, **ZJ** : Retraction stroke end, **ZQ** : Retraction stroke end (Shorter total length type)



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

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



Note) 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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

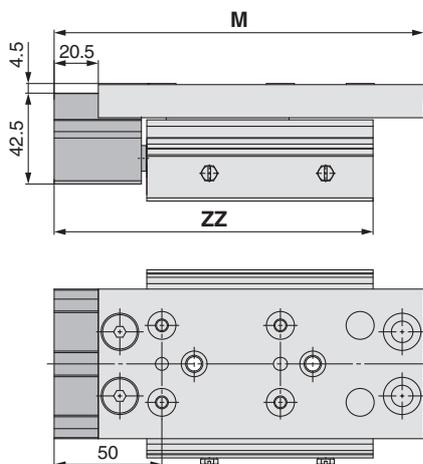
Made to Order

Model Selection

Series MXQ

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

MXQ **25**-□**Z**□**1** With buffer (ø25)

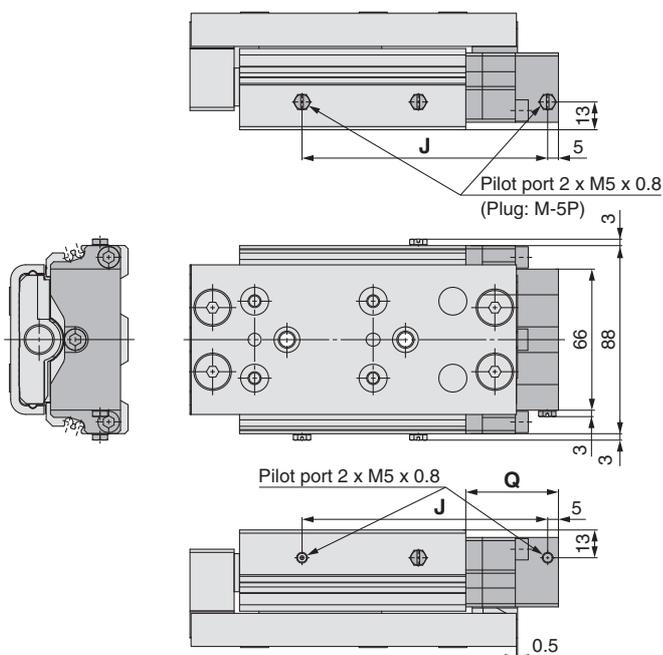
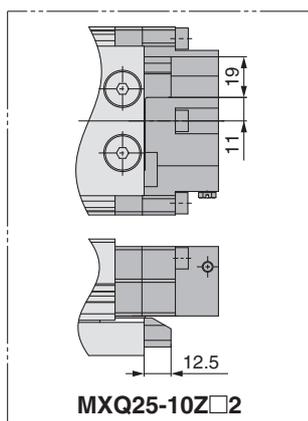


Dimensions [mm]

Model	Standard type		ZZ
	M	Shorter total length type	
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

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

MXQ **25**-□**Z**□**2** With end lock (ø25)



Dimensions [mm]

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

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

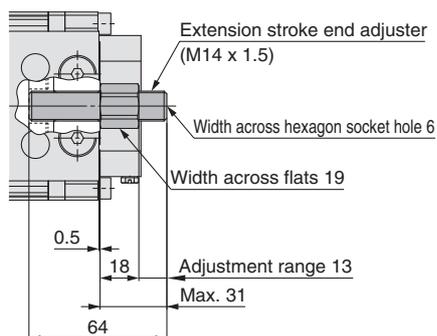
MXQ **25**-□**Z**□**2** With end lock, extension stroke end adjuster (ø25)

Select the long adjustment nut and bolt specification (-X28) when an end lock and extension stroke end adjuster are used together.

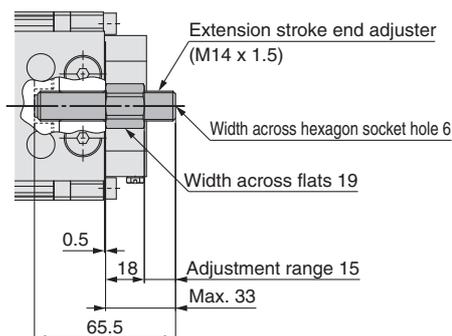
The stroke adjustment range is different from the adjuster of the standard product.

Retraction stroke end adjuster cannot be mounted to the end lock.

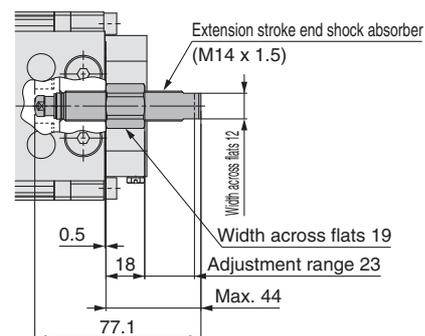
Metal stopper with bumper: **ZB**



Rubber stopper: **ZE**



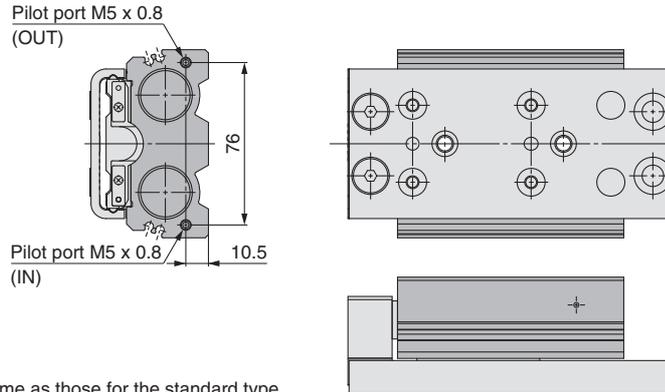
Shock absorber (RJ): **ZH**



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

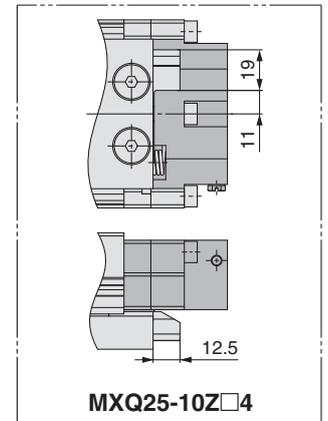
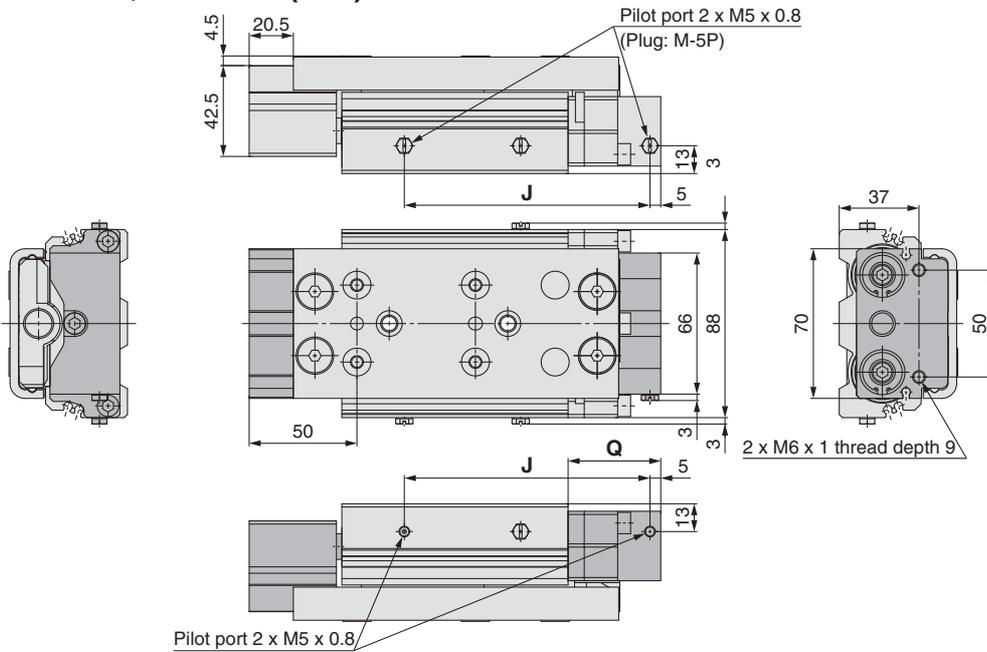
Dimensions: MXQ **25** [Functional Option]

MXQ 25-□Z□3 Axial piping (ø25)



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

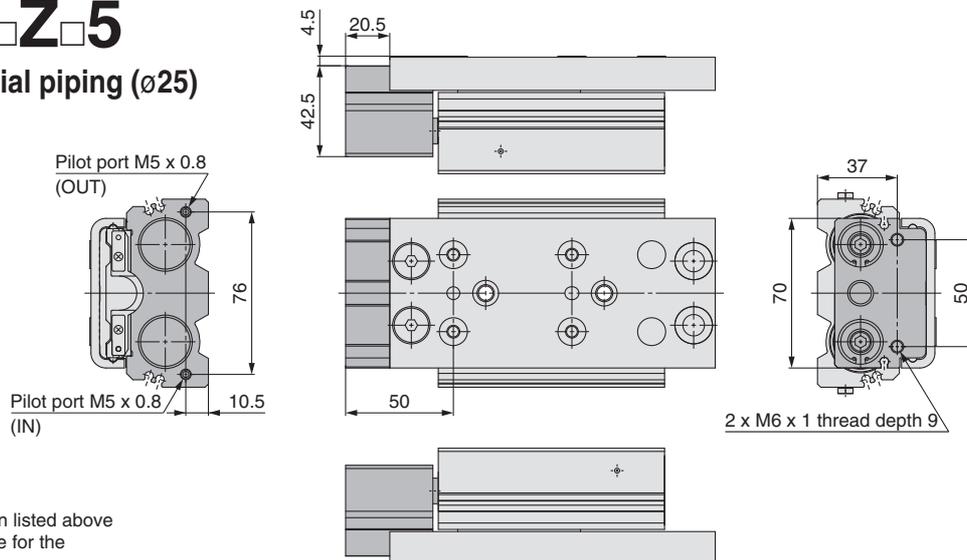
MXQ 25-□Z□4 With buffer, end lock (ø25)



Dimensions		[mm]
Model	J	Q
MXQ25-10Z□4	109	48
MXQ25-20Z□4	104	
MXQ25-30Z□4	114	
MXQ25-40Z□4	124	43
MXQ25-50Z□4	147	
MXQ25-75Z□4	172	
MXQ25-100Z□4	213	
MXQ25-125Z□4	277	73
MXQ25-150Z□4	302	

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

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



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

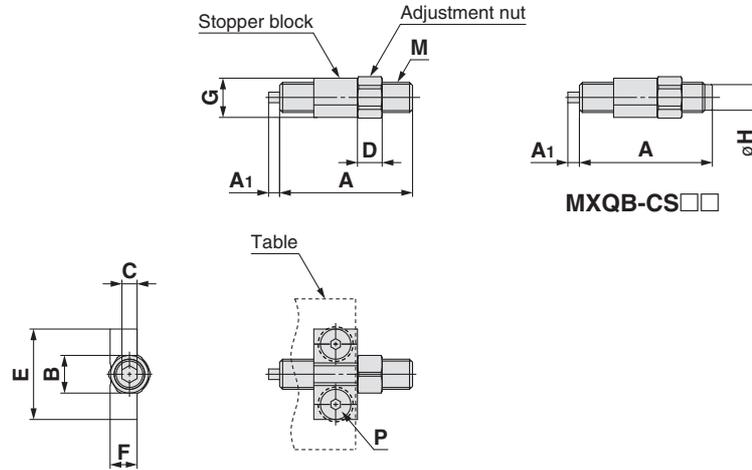
Model Selection

Series MXQ

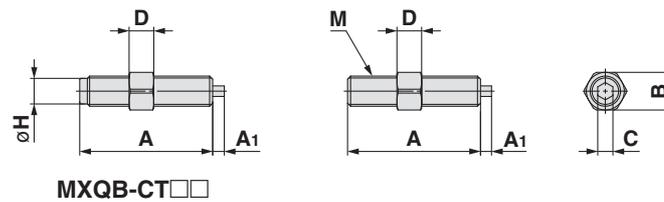
Common Adjuster Options

Metal Stopper with Bumper

Extension stroke end



Retraction stroke end



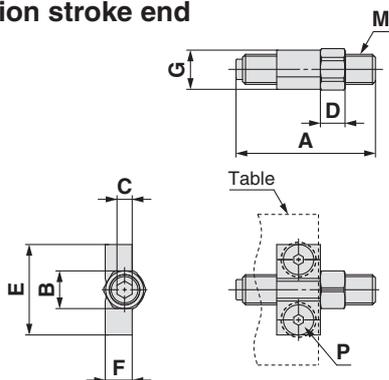
Applicable size		Model			A	A1	B	C	D	E	F	G	M (Fine pitch)	P Note 2)	øH
		Extension stroke end	Retraction stroke end	(Metal stopper with bumper only Note 1)											
MXQ 8 (A,C)	—	MXQA-CS8	MXQA-CT8	MXQA-A887	30	2	8	3	5	18	5.8	8.3	M6 x 0.75	M3 x 6	—
MXQ12 (A,C)	—	MXQA-CS12	MXQA-CT12	MXQA-A1287	35	2.8	10	4	6.5	24	7.1	10.4	M8 x 1	M4 x 8	—
MXQ16 (A)	—	MXQA-CS16	MXQA-CT16	MXQA-A1687	40	3.6	12	5	8	29.4	9.2	12.6	M10 x 1	M5 x 10	—
MXQ20 (A)	—	MXQA-CS20	MXQA-CT20	MXQA-A2087	47	4.4	17	6	10	36	11.2	16.2	M12 x 1	M6 x 12	—
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	—
—	MXQ 8B	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

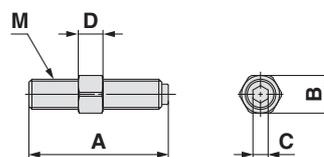
Note 2) Size of hexagon socket head cap screw

Rubber Stopper

Extension stroke end



Retraction stroke end

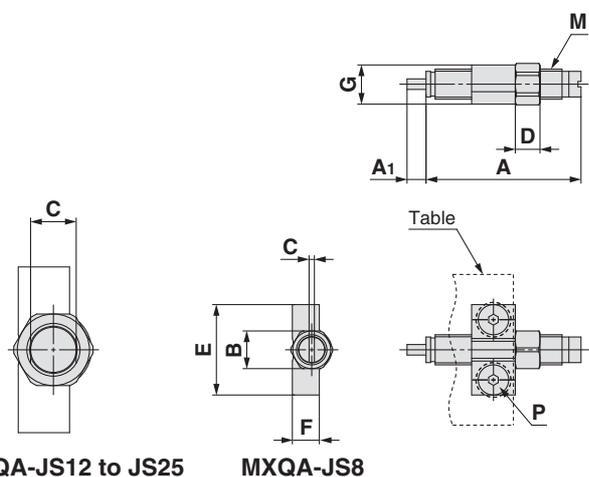


Applicable size	Model			A	B	C	D	E	F	G	M (Fine pitch)	P (Note)
	Extension stroke end	Retraction stroke end	Rubber stopper only									
MXQ6(A)	MXQA-AS8	MXQA-AT8	MXQA-A827	31.5	8	3	5	18	5.8	8.3	M6 x 0.75	M3 x 6
MXQ6B												
MXQ8(A,C)												
MXQ12(A,C)	MXQA-AS12	MXQA-AT12	MXQA-A1227	36.5	10	4	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												

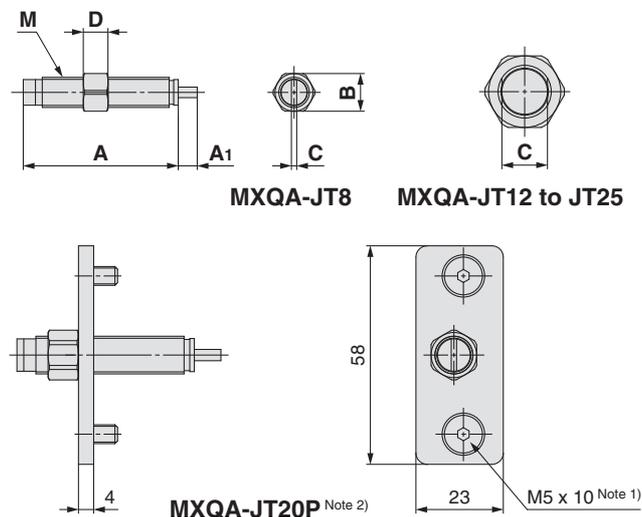
Note) Size of hexagon socket head cap screw

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".)

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster
Options

Auto Switch
Mounting

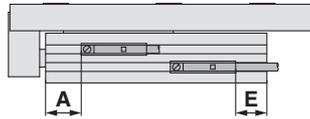
Made to Order

Model Selection

Series MXQ 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 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 Switch: D-M9□V/M9□WV [mm]

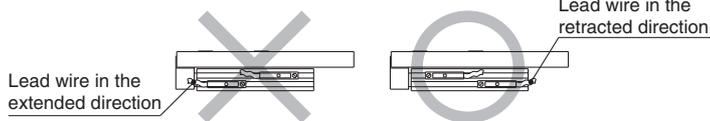
Model	A stroke									E stroke								
	10	20	30	40	50	75	100	125	150	10	20	30	40	50	75	100	125	150
MXQ6(A)	18	7.4	7.4	7.4	7.4	-	-	-	-	2	2.6	5.6	7.6	7.6	-	-	-	-
MXQ8(A,C)	13.9	13.9	13.9	13.9	13.9	13.9	-	-	-	7.1	7.1	7.1	13.1	30.1	7.1	-	-	-
MXQ12(A,C)	16.5	16.5	16.5	16.5	16.5	16.5	16.5	-	-	16.1	8.1	8.1	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.



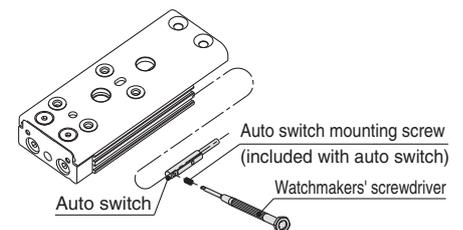
■ Auto switch mounting tool

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



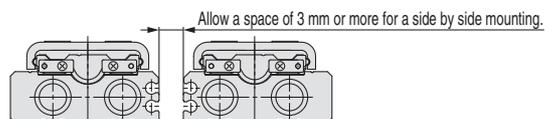
Operating Range

Auto switch model	Applicable bore size [mm]					
	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.

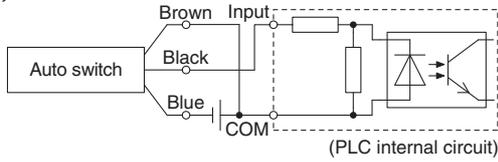
* Normally closed (NC = b contact) solid state auto switches (D-F9G/F9H) and solid state auto switch (D-F8) are also available. Refer to the Best Pneumatics No.3 for details.

Prior to Use

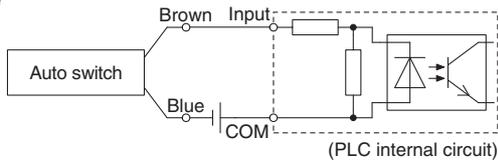
Auto Switch Connection and Example

Sink Input Specifications

3-wire, NPN

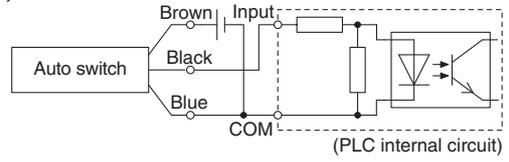


2-wire

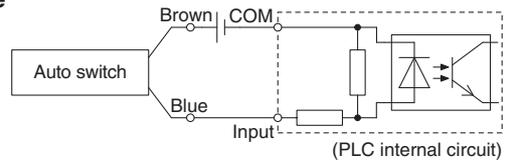


Source Input Specifications

3-wire, PNP



2-wire

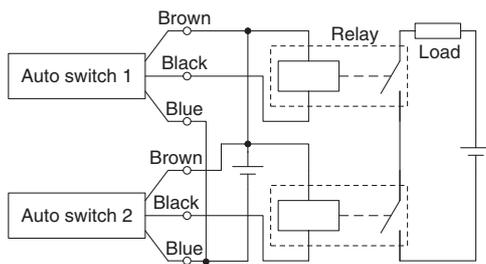


Connect according to the applicable PLC input specifications, as the connection method will vary depending on the PLC input specifications.

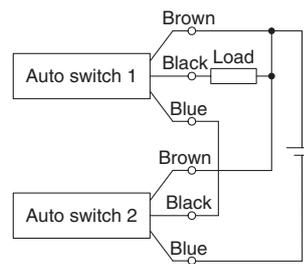
Example of AND (Series) and OR (Parallel) Connection

3-wire AND connection for NPN output

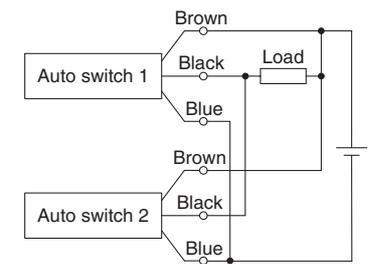
(Using relays)



(Performed with auto switches only)

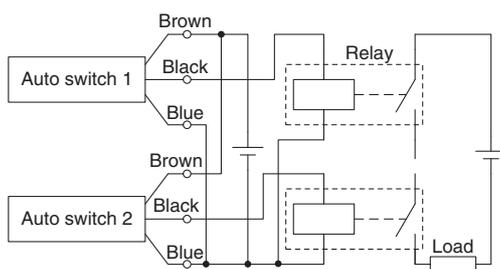


3-wire OR connection for NPN output

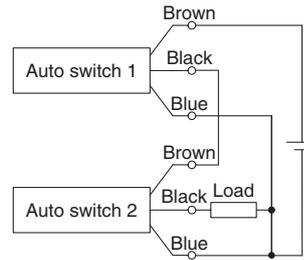


3-wire AND connection for PNP output

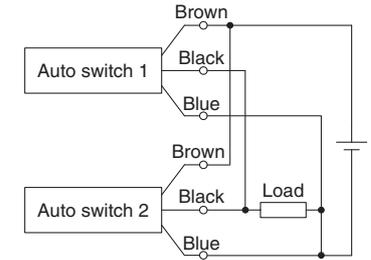
(Using relays)



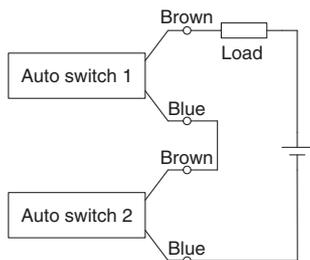
(Performed with auto switches only)



3-wire OR connection for PNP output

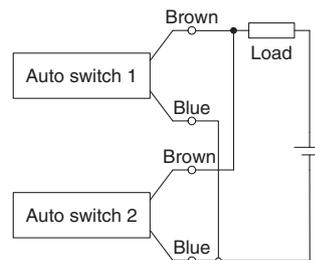


2-wire AND connection



When two auto switches are connected in series, a load may malfunction because the load voltage will decline when in the ON state. The indicator lights will light up when both of the auto switches are in the ON state.

2-wire OR connection



(Solid state)
When two auto switches are connected in parallel, malfunction may occur because the load voltage will increase when in the OFF state.

$$\begin{aligned} \text{Load voltage at ON} &= \text{Power supply voltage} - \text{Residual voltage} \times 2 \text{ pcs.} \\ &= 24 \text{ V} - 4 \text{ V} \times 2 \text{ pcs.} \\ &= 16 \text{ V} \end{aligned}$$

Example: Supply voltage 24 VDC
Internal voltage drop in auto switch is 4 V.

$$\begin{aligned} \text{Load voltage at OFF} &= \text{Leakage current} \times 2 \text{ pcs.} \times \text{Load impedance} \\ &= 1 \text{ mA} \times 2 \text{ pcs.} \times 3 \text{ k}\Omega \\ &= 6 \text{ V} \end{aligned}$$

Example: Load impedance 3 k Ω
Leakage current from auto switch is 1 mA.

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster
Options

Auto Switch
Mounting

Made to Order

Model Selection

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

Specifications

Bore size [mm]	6, 8, 12, 16, 20, 25
----------------	----------------------

* Dimensions other than the above are 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.

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

Specifications

Bore size [mm]	6, 8, 12, 16, 20, 25
----------------	----------------------

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

Caution

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

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

Symbol

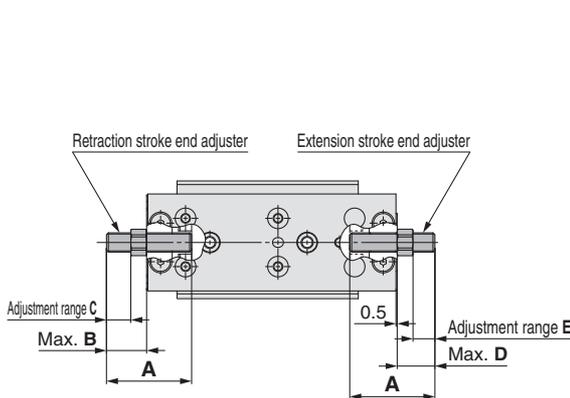
-X11

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 SMC when a product with the 10 mm longer adjustment range is required.

MXQ Standard model no.
Standard adjuster model no. - X11
Standard adjustment bolt model no. Note 1)
 Long adjustment bolt (Longer adjustment range by 10 mm)



Metal Stopper with Bumper

Applicable model		[mm]				
		A	B	C	D	E
MXQ8(A,C)	—	40	25	20	23	18
MXQ12(A,C)	MXQ8B	45	27	20	26	19
MXQ16(A)	MXQ12B	50	28	20	27	18
MXQ20(A)	MXQ16B	57	31	20	30	19
MXQ25(A)	MXQ20B	64	32	21	31	20

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

Rubber Stopper

Applicable model		[mm]				
		A	B	C	D	E
MXQ6(A)	—	41.5	27	22	25	20
MXQ8(A,C)	MXQ6B	41.5	27	21	25	19
MXQ12(A,C)	MXQ8B	46.5	28	21	27	20
MXQ16(A)	MXQ12B	51.5	30	21	28	20
MXQ20(A)	MXQ16B	58.5	32	22	31	21
MXQ25(A)	MXQ20B	65.5	34	22	33	21

Shock Absorber (RJ)

Applicable model		[mm]					Applicable shock absorber model
		A	B	C	D	E	
MXQ12(A,C)	MXQ8B	47.3	29	19	29	18	RJ0805U-X2300
MXQ16(A)	MXQ12B	52.8	31	19	30	18	RJ1006U-X2300
MXQ20(A)	MXQ16B	52.8	23	11	26	14	RJ1007HU-X2300
MXQ25(A)	MXQ20B	77.1	46	31	42	30	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.

RJ□□□□□-X2300

Cap bracket is mounted to lengthen the A dimension.

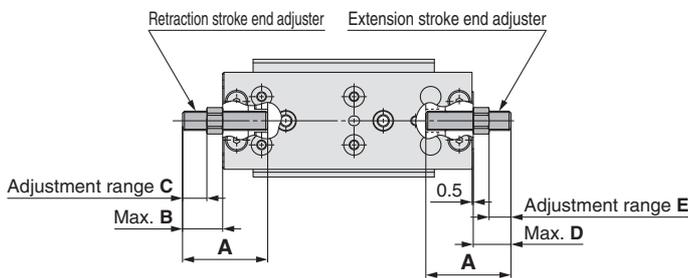
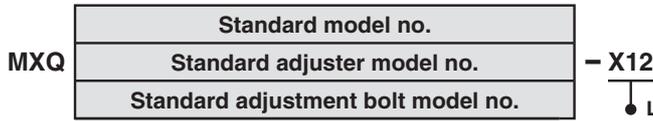
Symbol
-X12

4 Long Adjustment Bolt (Longer adjustment range by 20 mm)

Metal stopper with bumper, 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 SMC when a product with the 20 mm longer adjustment range is required.



Metal Stopper with Bumper

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

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.

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection

5 Centralised Adjuster

Symbol
-X27

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 centralised adjuster specification (-X27).

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

Body option

A	Double ported type
C	Single side ported type
CL	Single side ported type, symmetric type
—	Height interchangeable type
L	Height interchangeable type, symmetric type

Adjuster option

Symbol	Adjuster type	Adjuster mounting position ^{Note 1)}		Functional option	
		Extension stroke end ^{Note 2)}	Retraction stroke end	— (None)	1 (Buffer ^{Note 4)})
ZA	Metal stopper with bumper ^{Note 3)}	○	○	○	×
ZC		○	○	○	○
ZD	Rubber stopper	○	○	○	○
ZF		○	○	○	○
ZG	Shock absorber (RJ)	○	○	○	×
ZJ		○	○	○	○

Auto switch
Applicable auto switch: M9

—	2 pcs.
S	1 pc.
n	"n" pcs.

Functional option

Symbol	Functional option type
—	Without functional option
1	Buffer

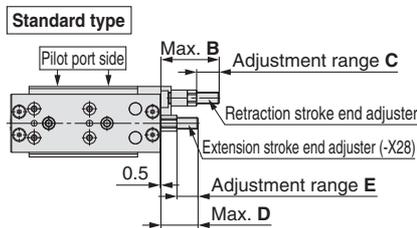
Number of auto switches

Made to Order
Centralised adjuster

Bore size
Dimensions size are the same as standard products.

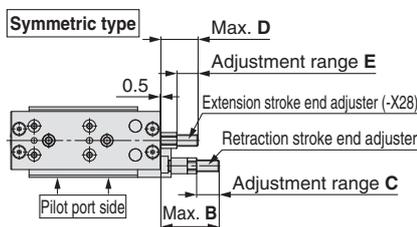
Note 1) Without any symbols for the adjuster mounting position, the adjuster can be mounted afterward.
Note 2) Using long adjustment nut and bolt (-X28) for the extension stroke end adjuster of -X27. The adjustment nut cannot be tightened with the standard adjuster.
Note 3) The MXQ6□ is not available for metal stopper with bumper.
Note 4) For buffer mechanism, buffer stroke will be shorter for the stroke that is adjusted by the extension stroke end adjuster.

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

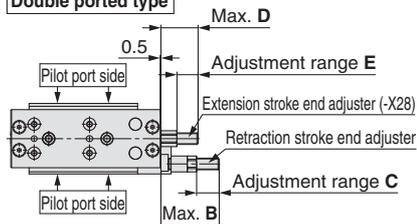
Single side ported type/Height interchangeable type Symmetric type



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-AT8-X28	MXQA-AT8	MXQA-A827-X11	MXQA-A827
MXQ12(A,C)-□-X27	43	18	27	16	MXQA-AT12-X28	MXQA-AT12	MXQA-A1227-X11	MXQA-A1227
MXQ16(A)-□-X27	48	19	28	15	MXQA-AT16-X28	MXQA-AT16	MXQA-A1627-X11	MXQA-A1627
MXQ20(A)-□-X27	56	19	31	18	MXQA-AT20-X28	MXQA-AT20	MXQA-A2027-X11	MXQA-A2027
MXQ25(A)-□-X27	66	20	33	14	MXQA-AT25-X28	MXQA-AT25	MXQA-A2527-X11	MXQA-A2527

Double ported type



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-JT8-X28	MXQA-JT8	RJ0603N	RJ0603N
MXQ12(A,C)-□-X27	46	16	28	11	MXQA-JT12-X28	MXQA-JT12	RJ0805U-X2300	RJ0805N
MXQ16(A)-□-X27	52	15	30	8	MXQA-JT16-X28	MXQA-JT16	RJ1006U-X2300	RJ1006N
MXQ20(A)-□-X27	53	10	26	4	MXQA-JT20-X28	MXQA-JT20	RJ1007HU-X2300	RJ1007HN
MXQ25(A)-□-X27	78	23	45	17	MXQA-JT25-X28	MXQA-JT25	RJ1410U-X2300	RJ1410N

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**

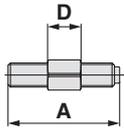
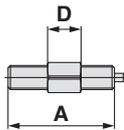
Easier stroke adjustment with the longer overall lengths of the adjustment nut, adjustment bolt and shock absorber. This is used for the extension stroke end adjuster of the end lock mechanism and the extension stroke end adjuster of the centralised adjuster specification (-X27).

MXQ Standard adjuster model no. - **X28**

● Long adjustment nut and bolt

Metal Stopper with Bumper [mm]

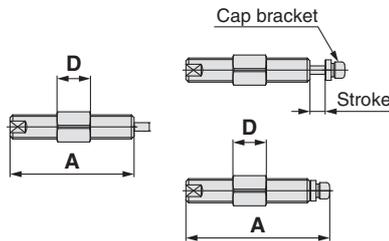
Applicable model	Adjuster model no. <small>Note 1)</small>	Nut total length	Bolt total length	Adjustment bolt model no. <small>Note 2)</small>	
		D	A		
MXQ8(A,C)	—	MXQA-CT8-X28	10	40	MXQA-A887-X11
MXQ12(A,C)	—	MXQA-CT12-X28	11	45	MXQA-A1287-X11
MXQ16(A)	—	MXQA-CT16-X28	13	50	MXQA-A1687-X11
MXQ20(A)	—	MXQA-CT20-X28	13	57	MXQA-A2087-X11
MXQ25(A)	—	MXQA-CT25-X28	18	64	MXQA-A2587-X11
—	MXQ8B	MXQB-CT8-X28	11	45	MXQB-A887-X11
—	MXQ12B	MXQB-CT12-X28	13	50	MXQB-A1287-X11
—	MXQ16B	MXQB-CT16-X28	13	57	MXQB-A1687-X11
—	MXQ20B	MXQB-CT20-X28	18	64	MXQB-A2087-X11



Not available for the MXQ6 (A, B).

Rubber Stopper [mm]

Applicable model	Adjuster model no. <small>Note 1)</small>	Nut total length	Bolt total length	Adjustment bolt model no. <small>Note 2)</small>	
		D	A		
MXQ6(A), MXQ8(A,C)	MXQ6B	MXQA-AT8-X28	10	41.5	MXQA-A827-X11
MXQ12(A,C)	MXQ8B	MXQA-AT12-X28	11	46.5	MXQA-A1227-X11
MXQ16(A)	MXQ12B	MXQA-AT16-X28	13	51.5	MXQA-A1627-X11
MXQ20(A)	MXQ16B	MXQA-AT20-X28	13	58.5	MXQA-A2027-X11
MXQ25(A)	MXQ20B	MXQA-AT25-X28	18	65.5	MXQA-A2527-X11



Shock Absorber (RJ) [mm]

Applicable model	Adjuster model no. <small>Note 1)</small>	Nut total length	Shock absorber total length	Adjustment bolt model no. <small>Note 2)</small>	
		D	A		
MXQ6(A), MXQ8(A,C)	MXQ6B	MXQA-JT8-X28	10	29.3	RJ0603N
MXQ12(A,C)	MXQ8B	MXQA-JT12-X28	11	47.3	RJ0805U-X2300
MXQ16(A)	MXQ12B	MXQA-JT16-X28	13	52.8	RJ1006U-X2300
MXQ20(A)	MXQ16B	MXQA-JT20-X28	13	52.8	RJ1007HU-X2300
MXQ25(A)	MXQ20B	MXQA-JT25-X28	18	77.1	RJ1410U-X2300

RJ□□□□□-X2300

Cap bracket is mounted to lengthen the A dimension.

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 are 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 are the same as those for the standard type.

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection

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 are 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.

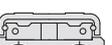
Series MXQ Model Selection

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. * $\phi 16$, $\phi 20$, $\phi 25$: Standard type, Low thrust with high rigidity type (excluding $\phi 25$): Double piping direction type	Double ported (MXQ□A)	$\phi 6$	23	34	32	210	29	6	6	13
		$\phi 8$	23	38	32	270	51	10	10	18
		$\phi 12$	27	49	40	400	113	10	10	19
		$\phi 16$	35	62	50	670	201	16	16	33
		$\phi 20$	43	72	60	1,100	314	21	21	49
		$\phi 25$	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)	$\phi 6$	20	34	32	230	29	10	10	18
		$\phi 8$	23	42	40	330	51	10	10	19
		$\phi 12$	30	52	50	580	113	16	16	33
		$\phi 16$	37	70	60	920	201	21	21	49
●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)	$\phi 8$	21	38	32	260	51	10	10	18
		$\phi 12$	27	49	40	400	113	10	10	19
To replace with the current type. Mounting dimensions and height are interchangeable.	Height interchangeable type (MXQ□)	$\phi 6$	20	34	32	190	29	6	6	13
		$\phi 8$	23	38	32	310	51	10	10	18
		$\phi 12$	30	49	40	430	113	10	10	19
		$\phi 16$	37	62	50	690	201	16	16	33
		$\phi 20$	46	72	60	1,100	314	21	21	49
		$\phi 25$	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)	$\phi 6$		—	—	—	—	—	—	—	$\phi 6$		
32(2)	$\phi 8$		$\phi 6$			$\phi 8$			$\phi 8$			
40	$\phi 12$		$\phi 8$			$\phi 12$			$\phi 12$			
50	$\phi 16$		$\phi 12$			—	—	—	$\phi 16$			
60	$\phi 20$		$\phi 16$			—	—	—	$\phi 20$			
70	$\phi 25$		$\phi 20$			—	—	—	$\phi 25$			

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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection

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 rodless cylinder operation stoppage. Please consult SMC sales representative for details.

Application		Transfer				Pressing	
Workpiece mounting position Overhang							
		Table mounting	End plate mounting	Table mounting	End plate mounting		
		L1: Distance from the centre of the table to the centre of gravity of the workpiece L2: Distance from the top surface of the table to the centre of gravity of the workpiece L3: Distance from the end of the body to the centre of gravity of the workpiece in Z direction.				L1: Distance from the centre of the table to the pressing part L2: Distance from the centre 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 99	Page 105	Page 111	Page 117	Page 123	
	Single side ported type Height interchangeable type Low thrust with high rigidity type	Page 102	Page 107	Page 114	Page 120	Page 124	

For Transfer

Model Selection Step

1 Necessary conditions

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

2 Select a graph.

Select the applicable graph (page on and after 99) 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
- ① L1max: Check the overhang from the cross point of the work load and driving speed.
 - ② 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^{Note}).
 - ③ 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 96 for details.

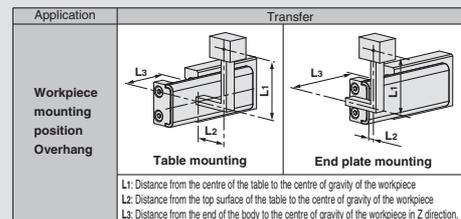
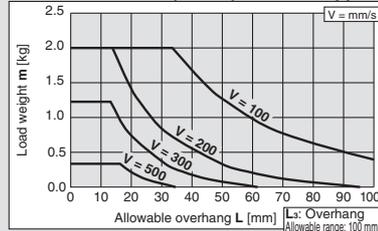
5 Overhang as the operating condition

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.

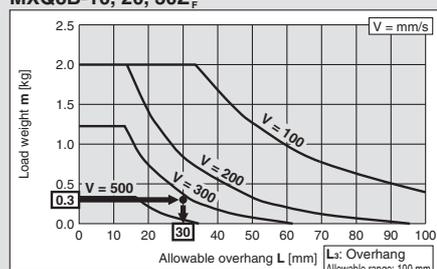
Precautions for Metal Stopper with Bumper

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



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 123).

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.

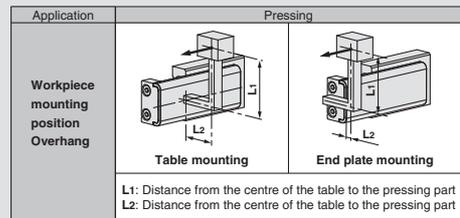
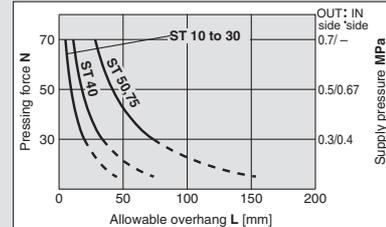
Note) Allowable pressing force coefficient used to calculate the allowable overhang of the models shown below is 1/4.

Model	Stroke [mm]
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

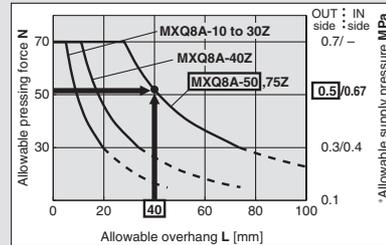
Precautions for Metal Stopper with Bumper

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.

MXQ 8^A-□Z



MXQ 8^A-□Z



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection

Series MXQ

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 \rightarrow **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.

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.

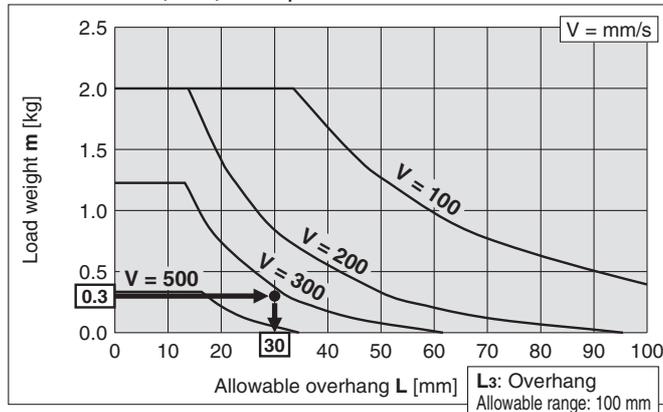
Overhang: **L1 = 20, L2 = 10, L3 = 50**

Stroke adjuster: Rubber stopper

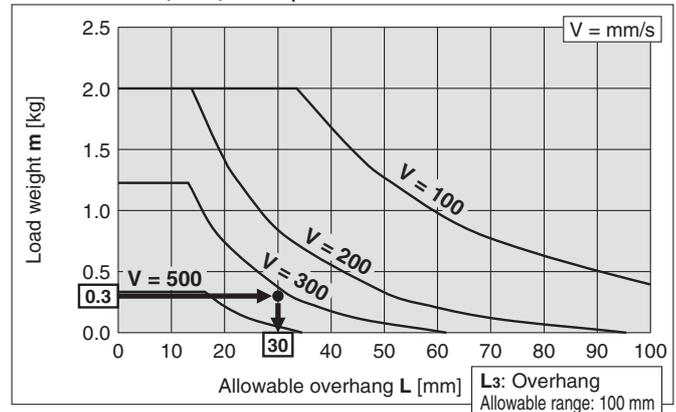
Selection method

- 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 \rightarrow **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 \rightarrow **L2** Upper limit of the overhang = $30 \text{ mm} / 2 = 15$ 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, E, F}



MXQ8B-10, 20, 30Z^{D, E, F}



Selection Example 3 (Pressing, Table Mounting)

Selection conditions

Selected model: **MXQ8A-50Z**

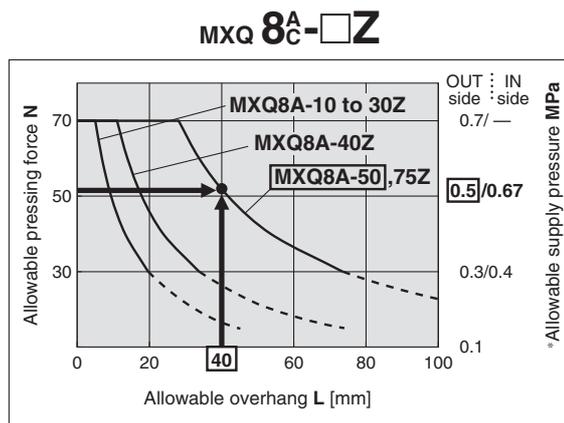
Operating direction: OUT

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**

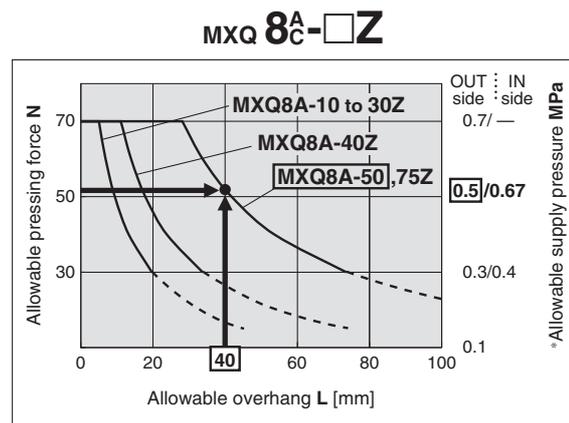
Operating direction: OUT

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 1/4. L2 Upper limit of the overhang = 10 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 = 10 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, it may cause adverse effects such as creating play at the guide, degrade accuracy and shorten product life.

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

If lurching occurs, damage can result. In the case where the slide table is stopped at intermediate positions by the external stopper then set to continue in forward motion. First supply pressure to momentarily reverse the table then retract the intermediate stopper and finally apply pressure in the opposite port to operate the table forward again.

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.

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection

Series MXQ

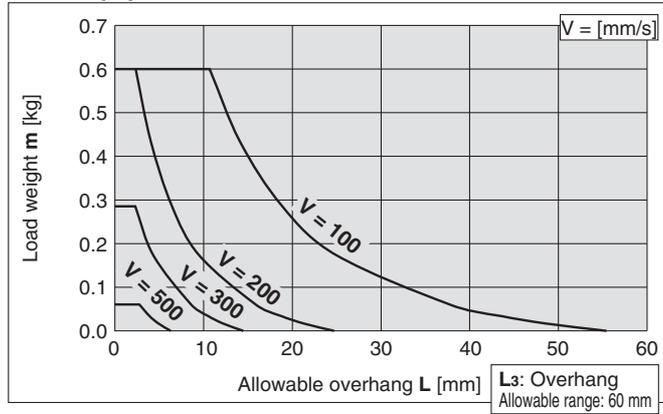
MXQ 6A-□Z, MXQ 6-□Z (Height interchangeable type)

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

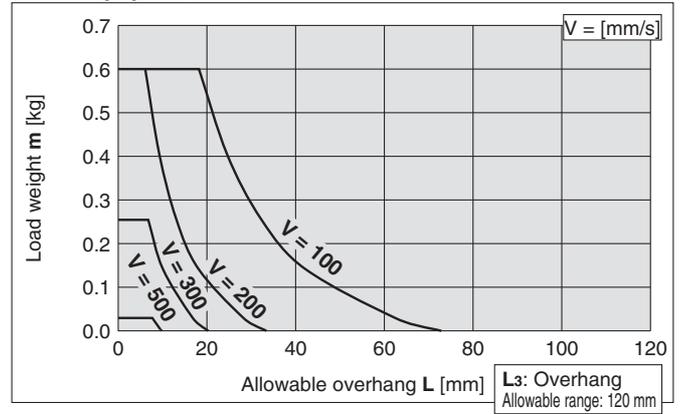
For Transfer/
Without Adjuster

Determine the overhang. (Refer to page 95 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.

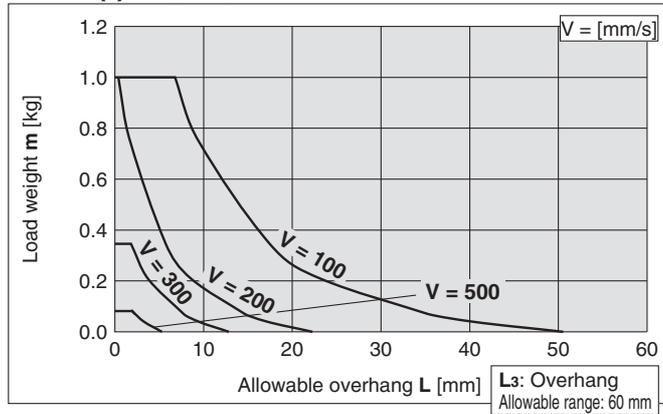
MXQ6(A)-10, 20Z



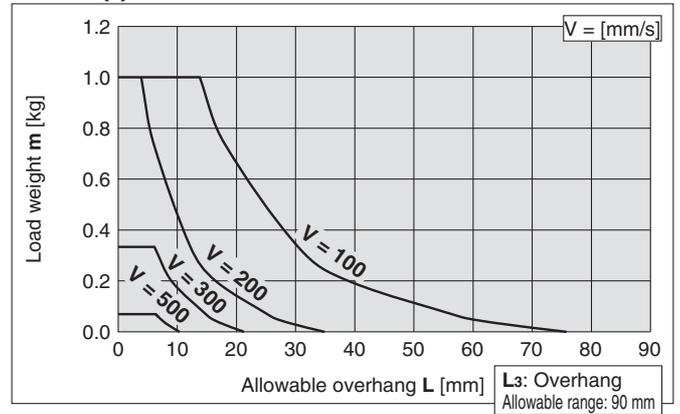
MXQ6(A)-30, 40, 50Z



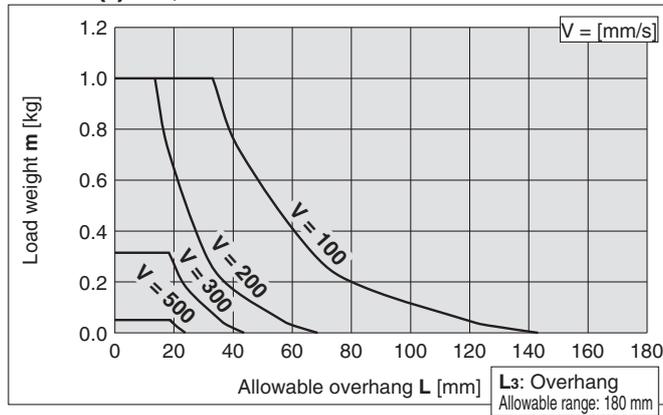
MXQ8(ê)-10, 20, 30Z



MXQ8(ê)-40Z



MXQ8(ê)-50, 75Z

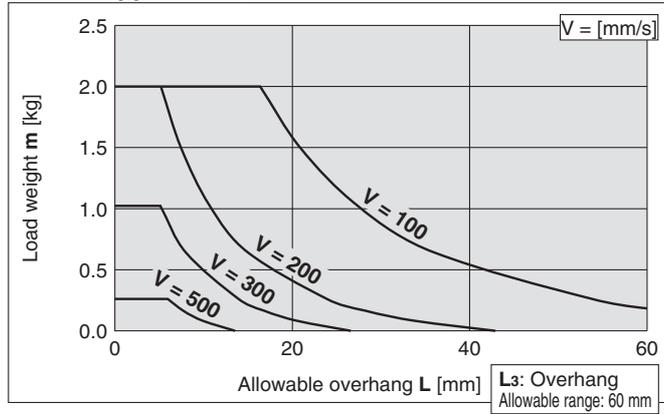


MXQ 12^A-□Z, MXQ 12-□Z (Height interchangeable type)
MXQ 16A-□Z, MXQ 16-□Z (Height interchangeable type)

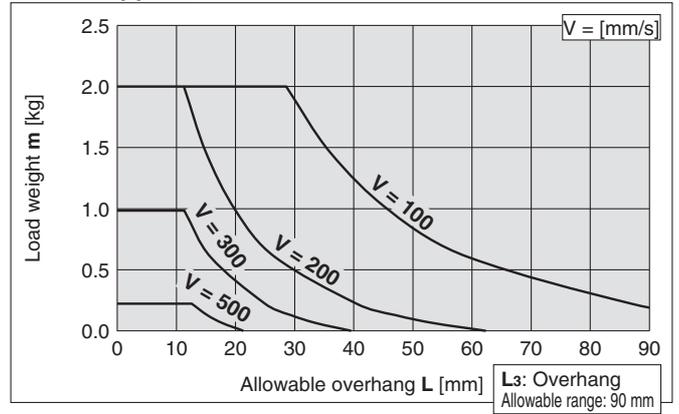
For Transfer/
Without Adjuster

Determine the overhang. (Refer to page 95 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.

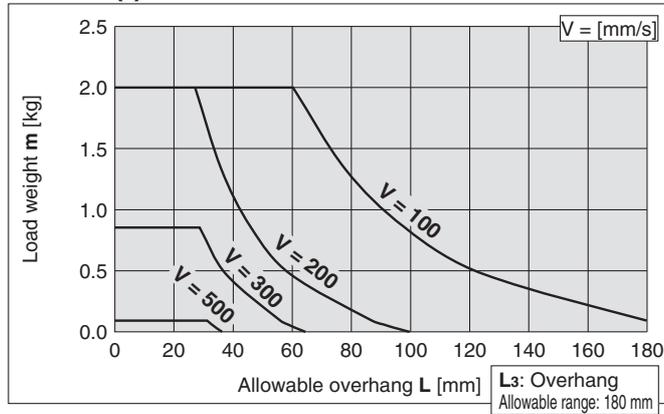
MXQ12(ê)-10, 20, 30Z



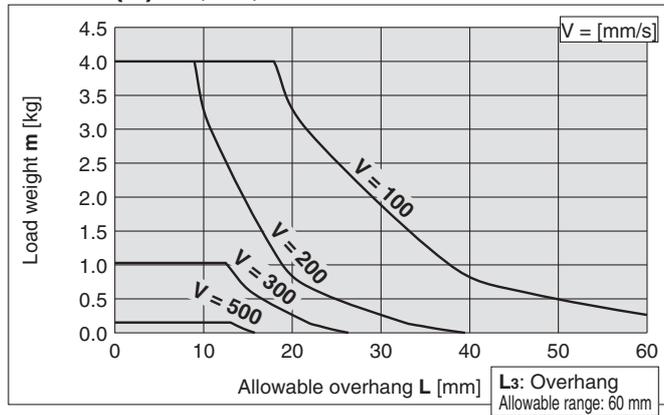
MXQ12(ê)-40, 50Z



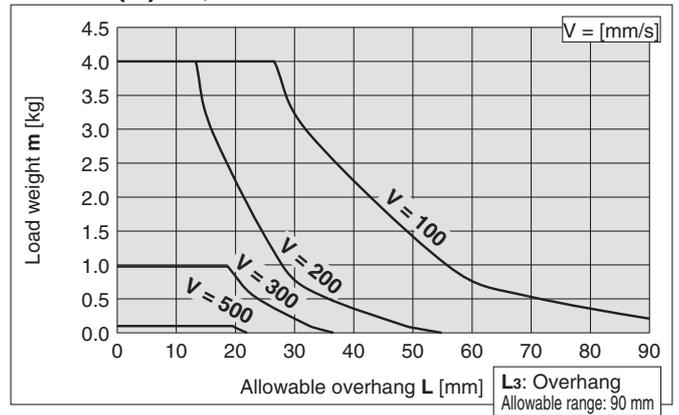
MXQ12(ê)-75, 100Z



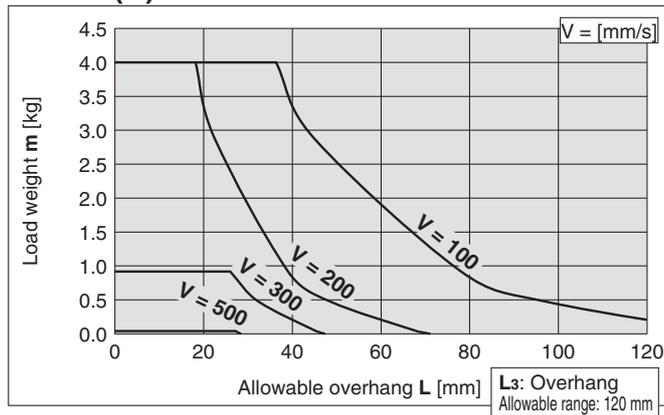
MXQ16(A)-10, 20, 30Z



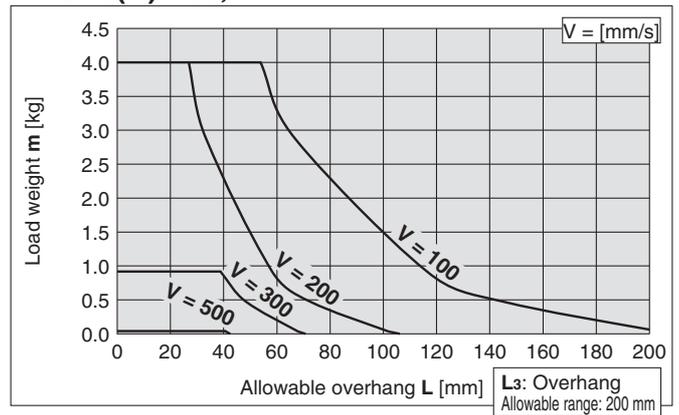
MXQ16(A)-40, 50Z



MXQ16(A)-75Z



MXQ16(A)-100, 125Z



Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster
Options

Auto Switch
Mounting

Made to Order

Model Selection

Series MXQ

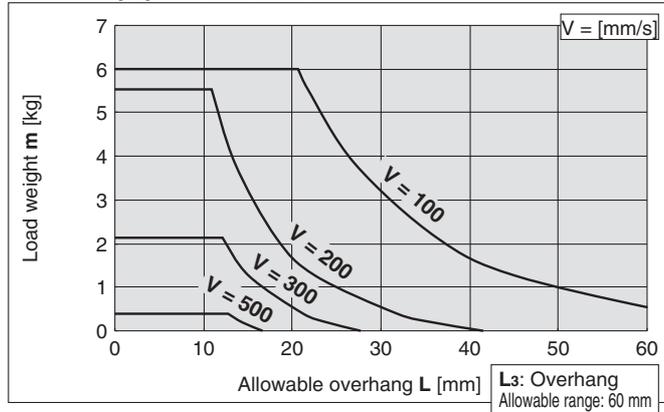
MXQ 20A-□Z, MXQ 20-□Z (Height interchangeable type)

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

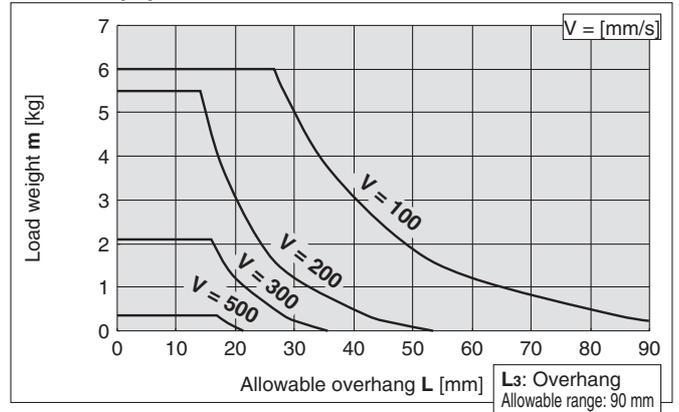
For Transfer/
Without Adjuster

Determine the overhang. (Refer to page 95 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.

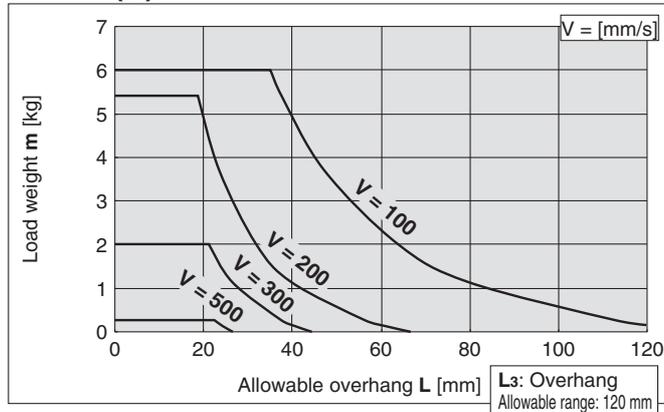
MXQ20(A)-10, 20, 30, 40Z



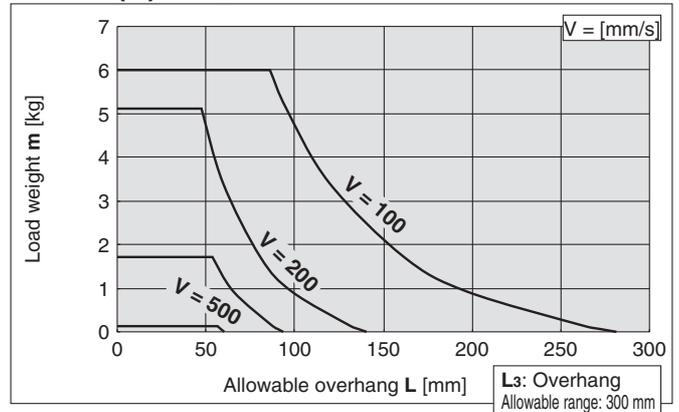
MXQ20(A)-50Z



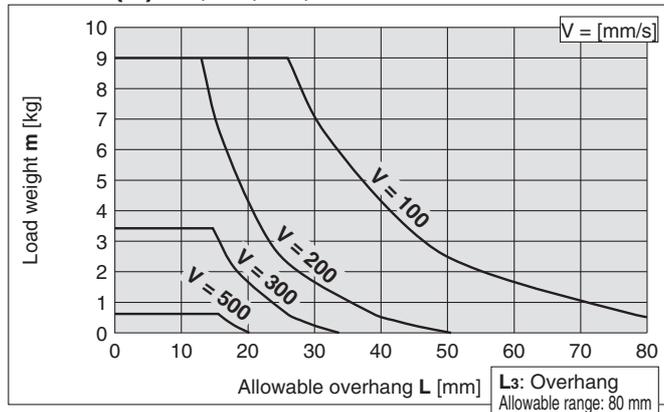
MXQ20(A)-75Z



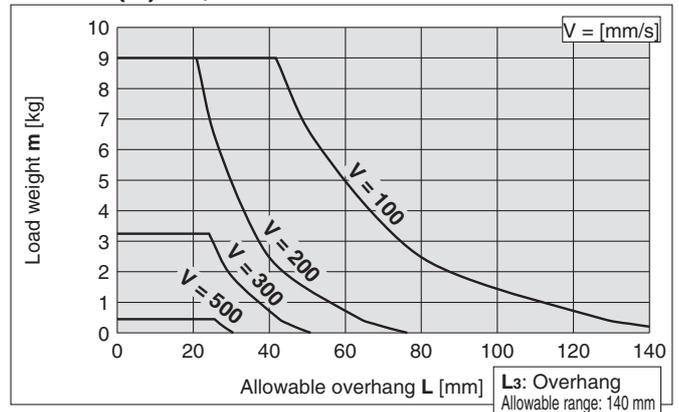
MXQ20(A)-100, 150Z



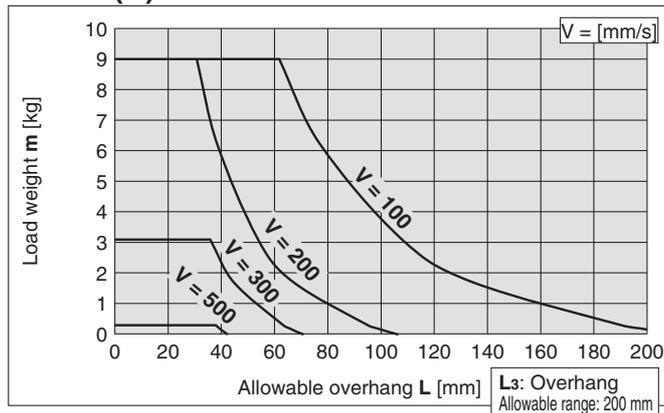
MXQ25(A)-10, 20, 30, 40Z



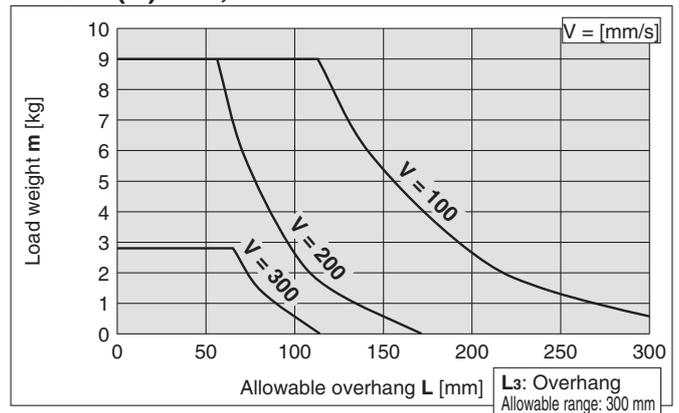
MXQ25(A)-50, 75Z



MXQ25(A)-100Z



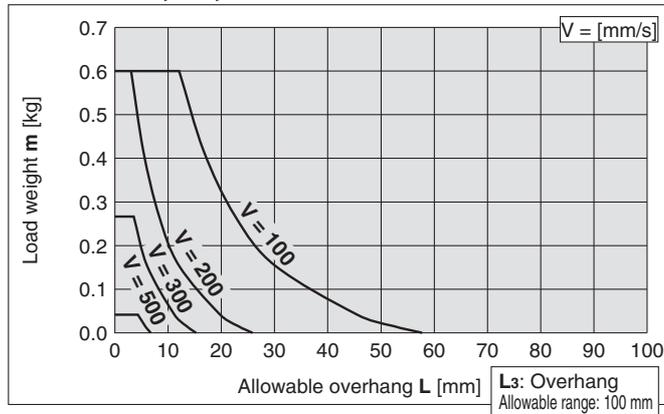
MXQ25(A)-125, 150Z



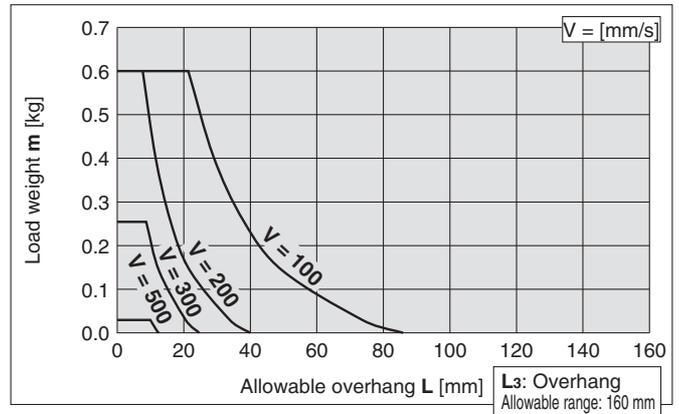
Determine the overhang. (Refer to page 95 for details.)
 L1, L2: Check from the cross point of the load weight and driving speed.
 L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

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

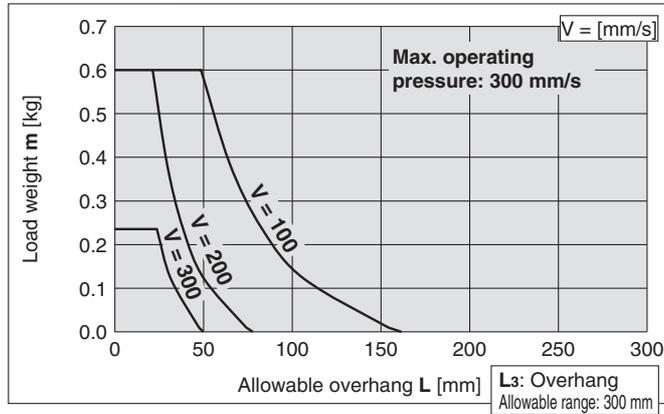
MXQ6B-10, 20, 30Z



MXQ6B-40Z



MXQ6B-50, 75Z



Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

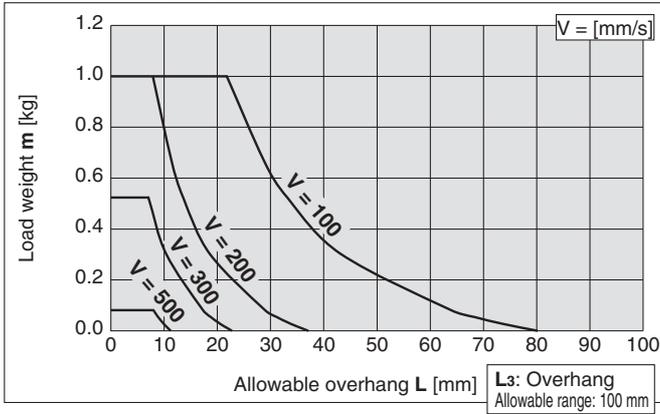
Model Selection

Series MXQ

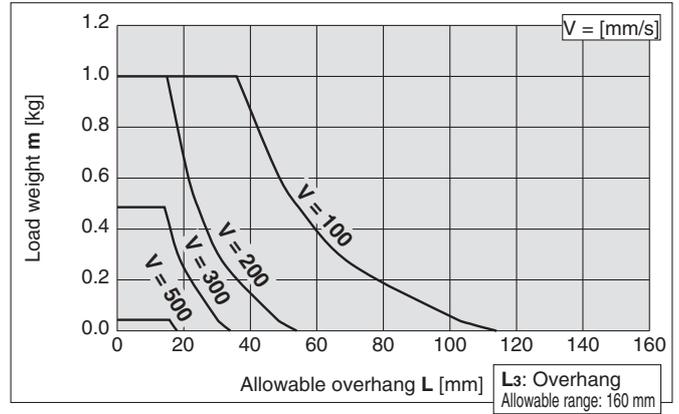
MXQ 8B-□Z, MXQ 12B-□Z / For Transfer/ Without Adjuster

Determine the overhang. (Refer to page 95 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.

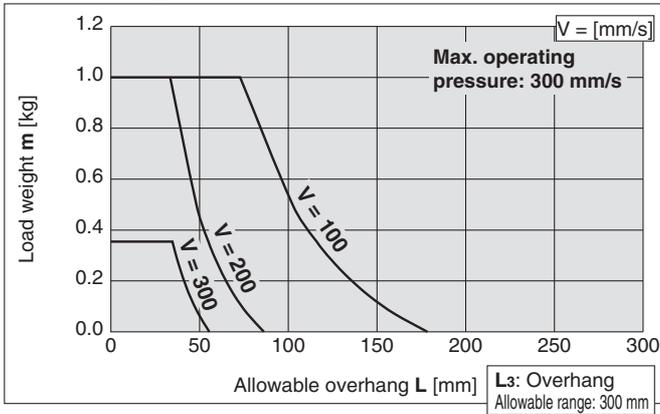
MXQ8B-10, 20, 30Z



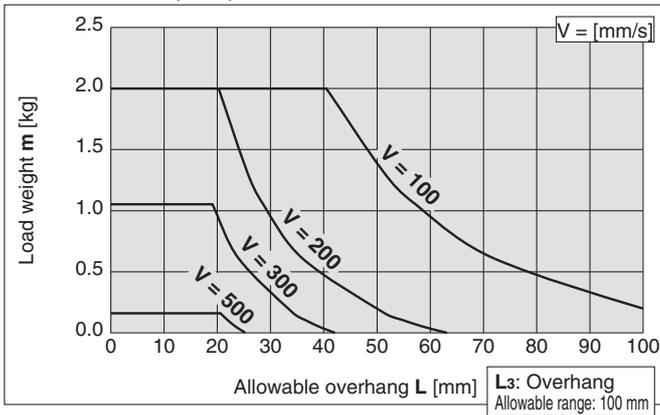
MXQ8B-40, 50Z



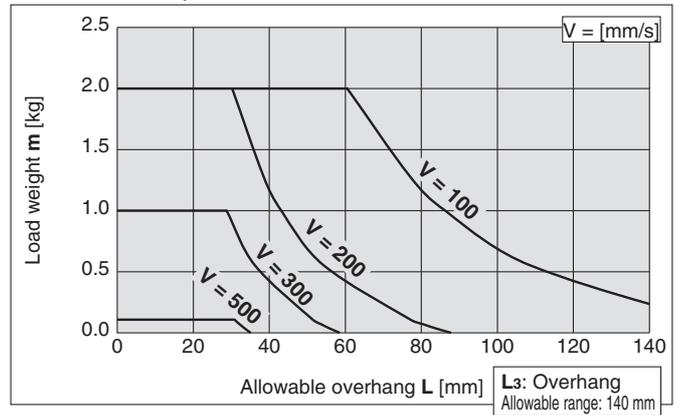
MXQ8B-75, 100Z



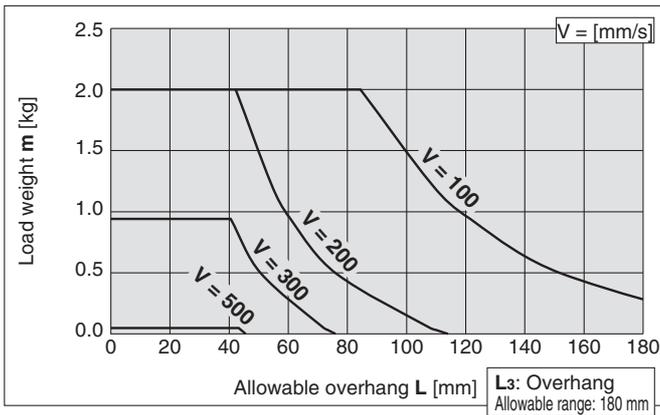
MXQ12B-10, 20, 30Z



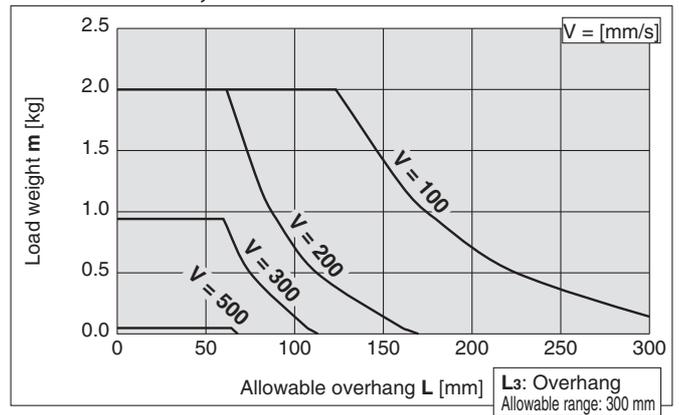
MXQ12B-40, 50Z



MXQ12B-75Z



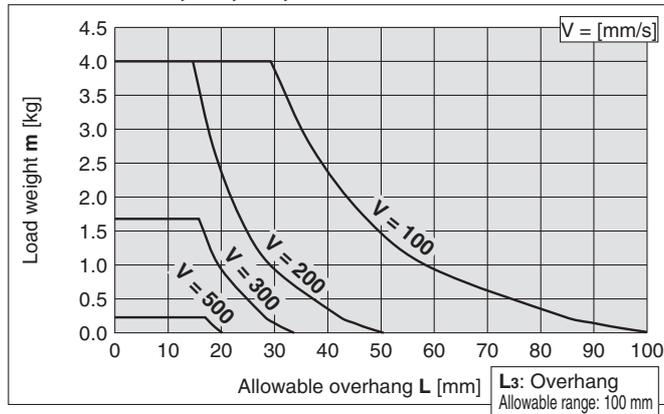
MXQ12B-100, 125Z



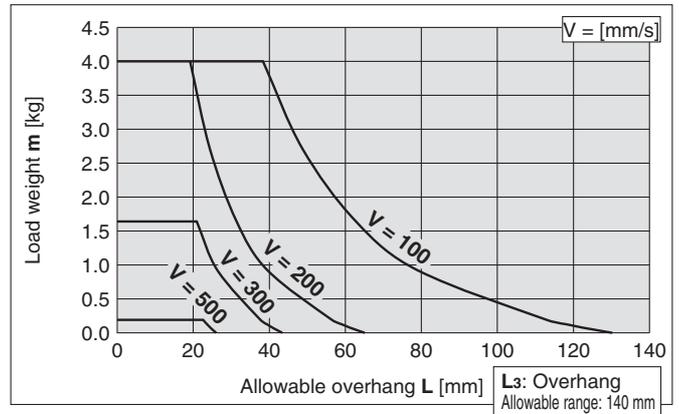
Determine the overhang. (Refer to page 95 for details.)
 L₁, L₂: Check from the cross point of the load weight and driving speed.
 L₃: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

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

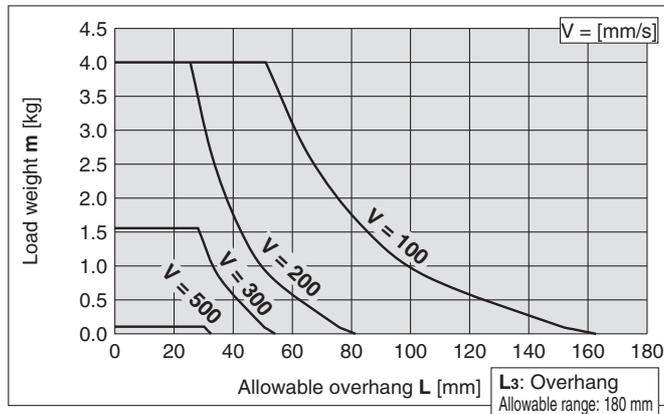
MXQ16B-10, 20, 30, 40Z



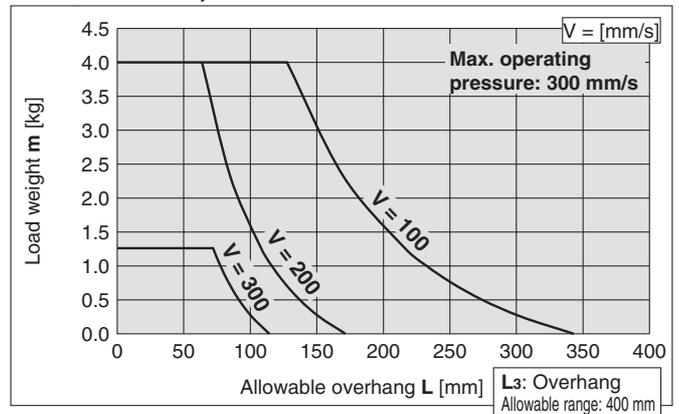
MXQ16B-50Z



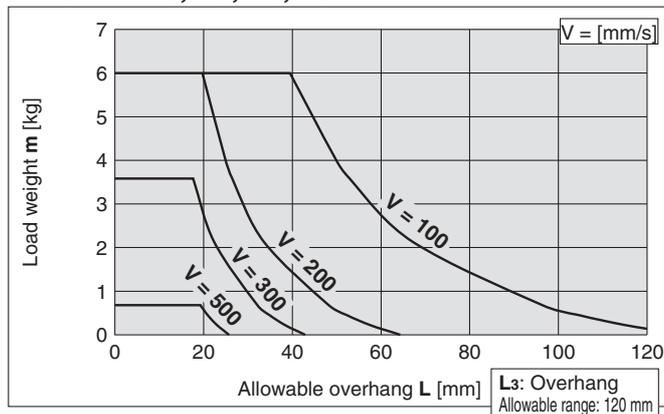
MXQ16B-75Z



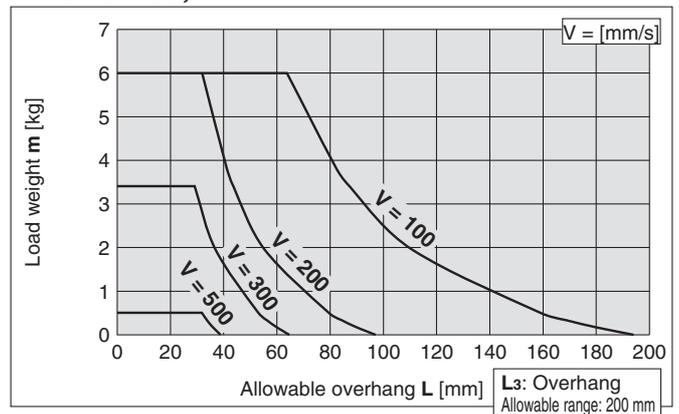
MXQ16B-100, 150Z



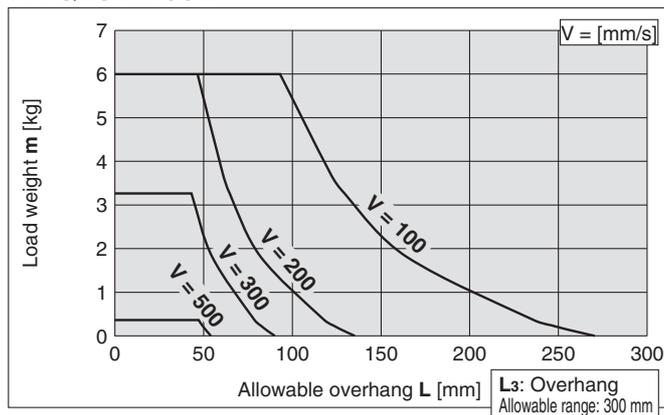
MXQ20B-10, 20, 30, 40Z



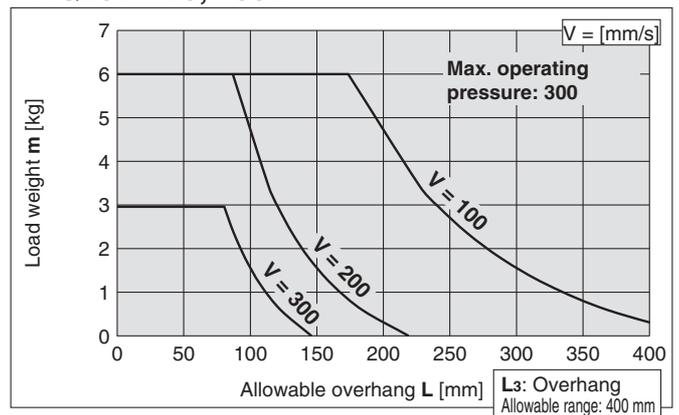
MXQ20B-50, 75Z



MXQ20B-100Z



MXQ20B-125, 150Z



Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster
 Options

Auto Switch
 Mounting

Made to Order

Model Selection

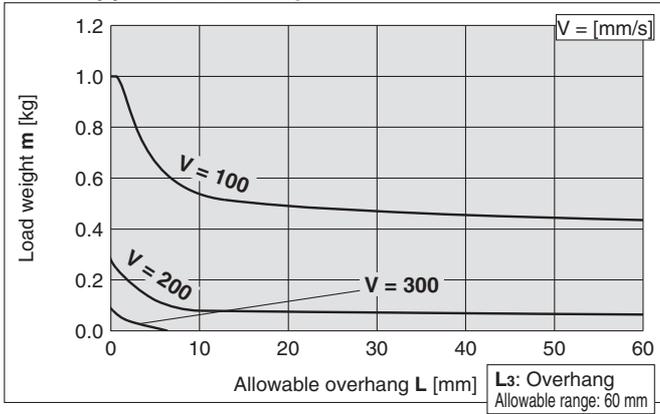
Series MXQ

Determine the overhang. (Refer to page 95 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.

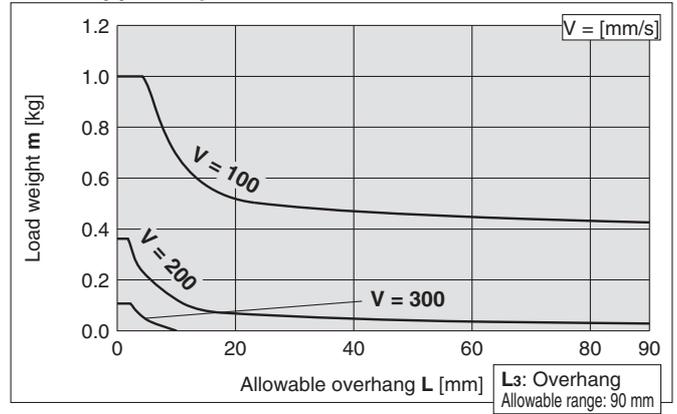
MXQ 8^A_C-□Z^A_B^C, MXQ 8-□Z^A_B^C (Height interchangeable type)

For Transfer/
Metal Stopper with Bumper

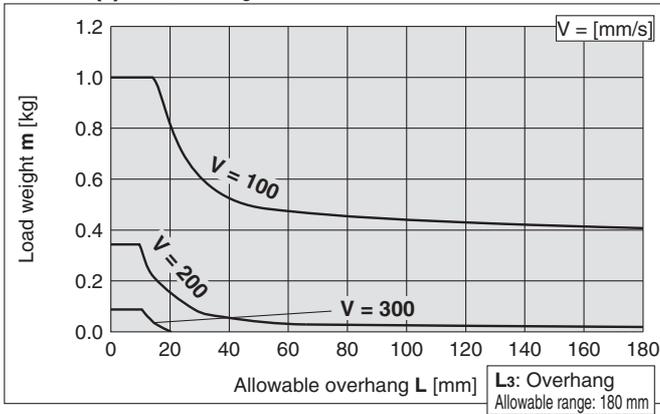
MXQ8(Δ)-10, 20, 30Z^A_B^C



MXQ8(Δ)-40Z^A_B^C



MXQ8(Δ)-50, 75Z^A_B^C



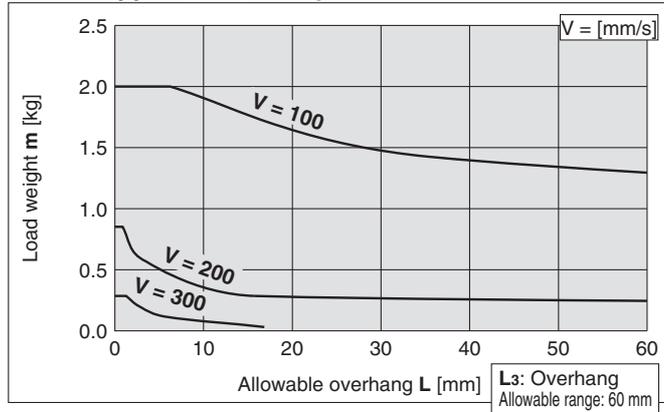
MXQ 12^A_C-□Z^A_BC, MXQ 12-□Z^A_BC (Height interchangeable type)

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

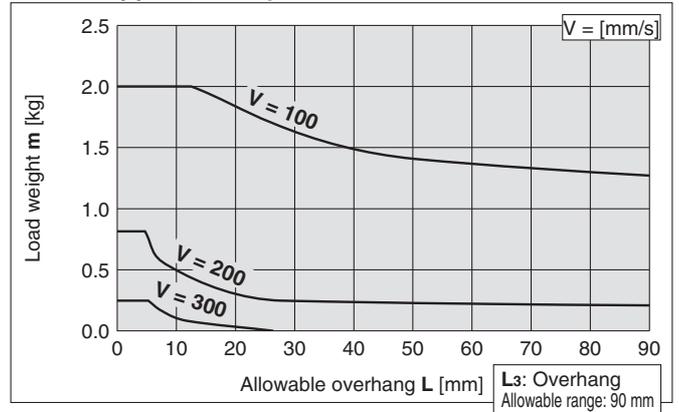
For Transfer/
Metal Stopper with Bumper

Determine the overhang. (Refer to page 95 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.

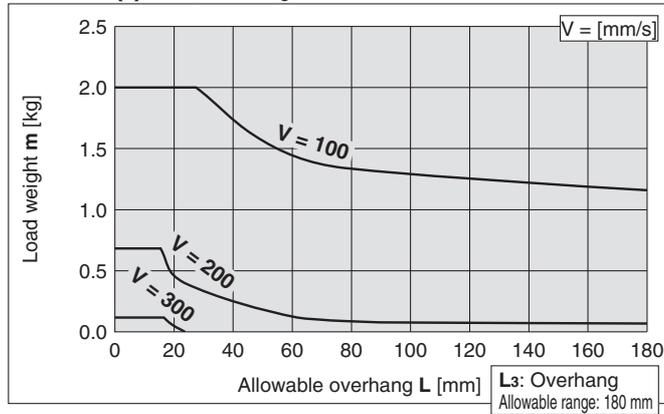
MXQ12(Ⓐ)-10, 20, 30Z^A_BC



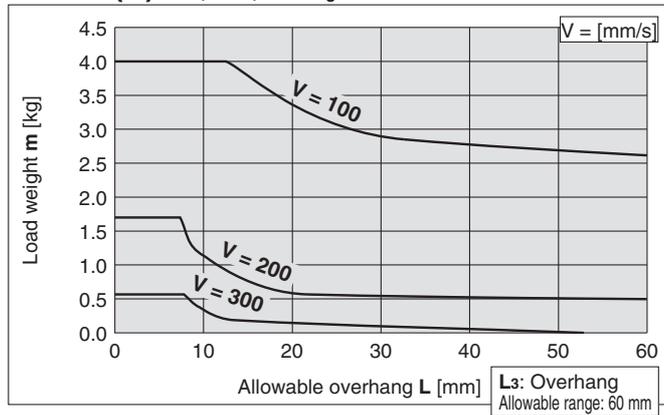
MXQ12(Ⓐ)-40, 50Z^A_BC



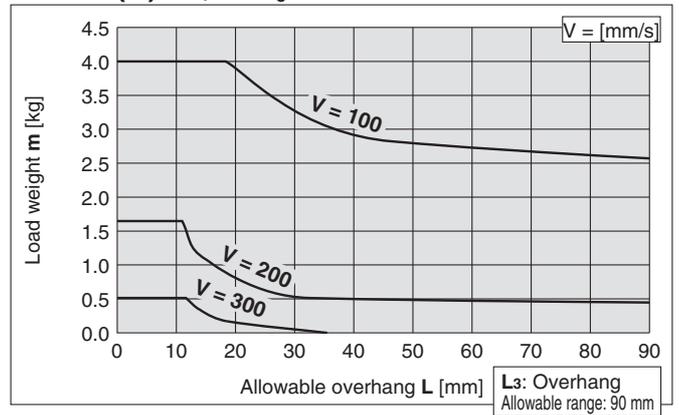
MXQ12(Ⓐ)-75, 100Z^A_BC



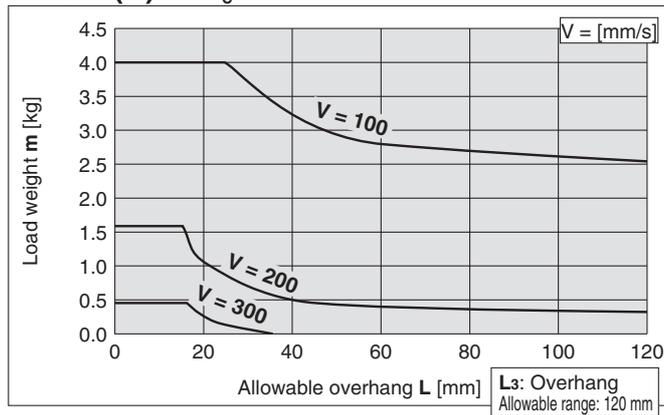
MXQ16(A)-10, 20, 30Z^A_BC



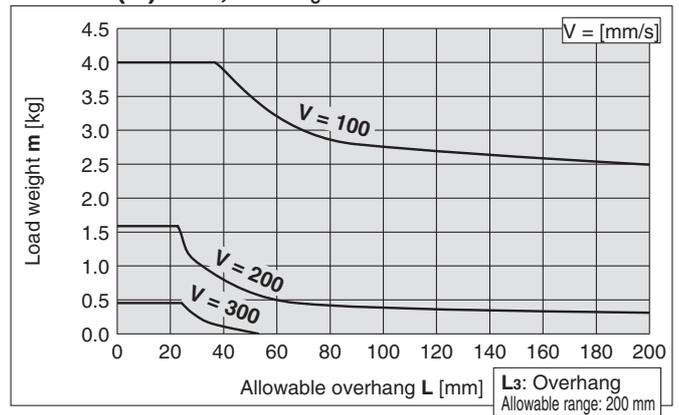
MXQ16(A)-40, 50Z^A_BC



MXQ16(A)-75Z^A_BC



MXQ16(A)-100, 125Z^A_BC



Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster
Options

Auto Switch
Mounting

Made to Order

Model Selection

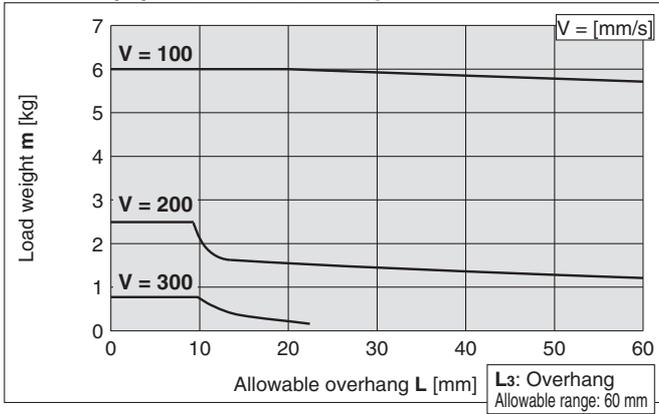
Series MXQ

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

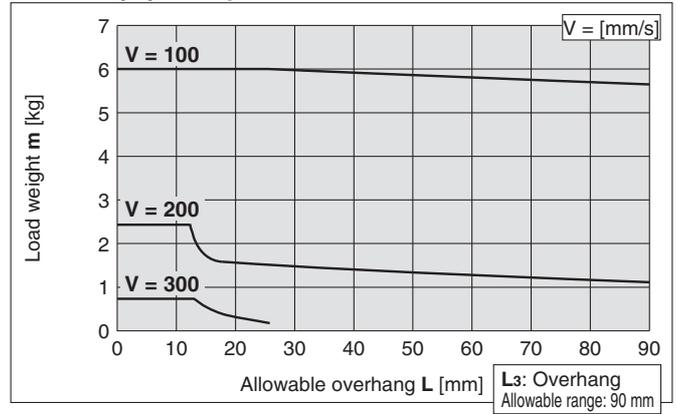
For Transfer/
Metal Stopper with Bumper

Determine the overhang. (Refer to page 95 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.

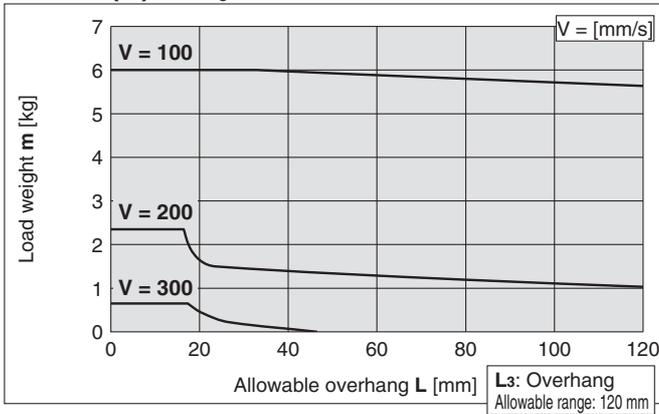
MXQ20(A)-10, 20, 30, 40Z^A_{BC}



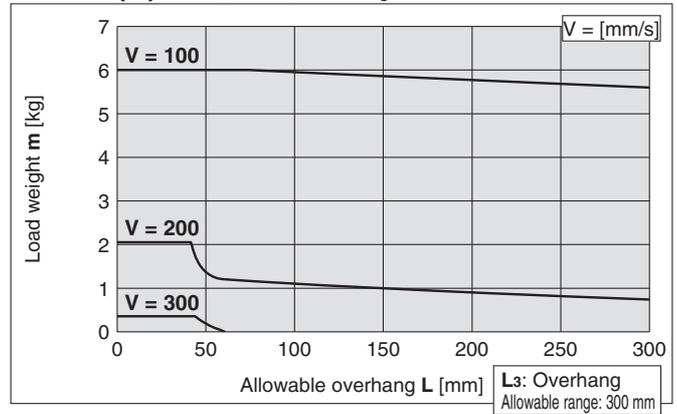
MXQ20(A)-50Z^A_{BC}



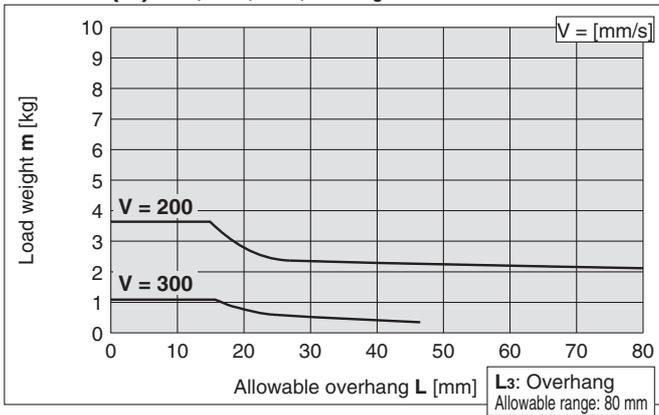
MXQ20(A)-75Z^A_{BC}



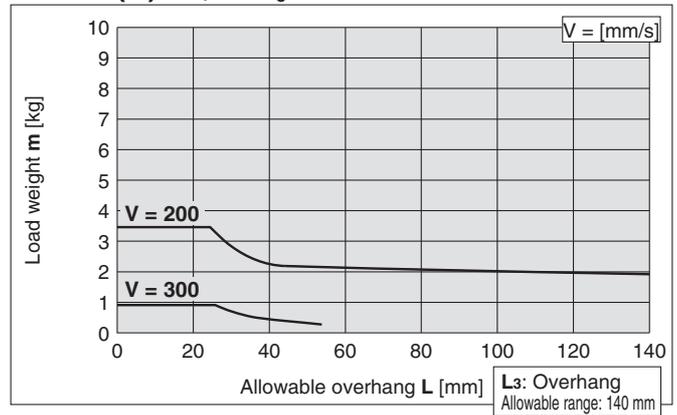
MXQ20(A)-100, 125, 150Z^A_{BC}



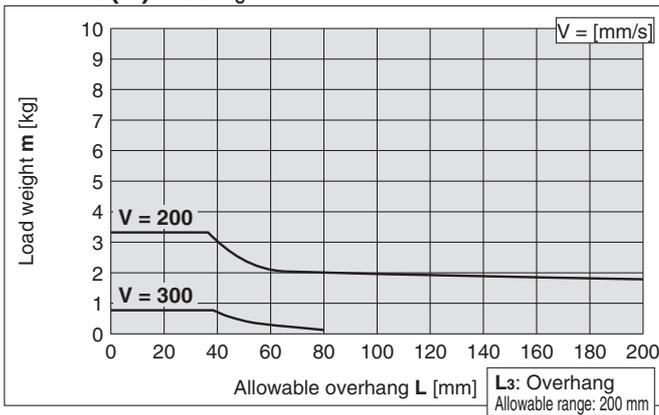
MXQ25(A)-10, 20, 30, 40Z^A_{BC}



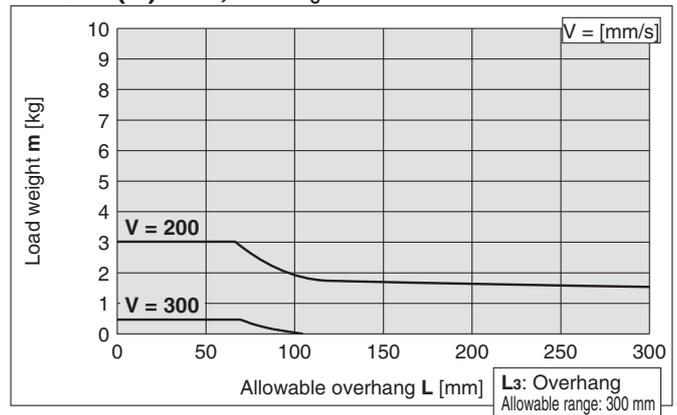
MXQ25(A)-50, 75Z^A_{BC}



MXQ25(A)-100Z^A_{BC}



MXQ25(A)-125, 150Z^A_{BC}



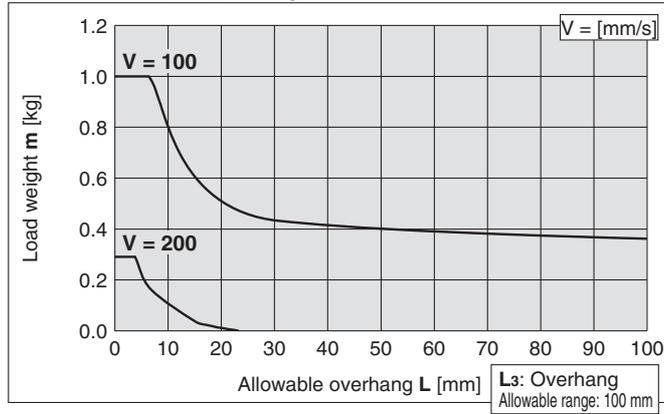
Model Selection	Made to Order	Auto Switch Mounting	Common Adjuster Options	Height interchangeable type MXQ□	Single side ported type MXQ□C	Low thrust with high rigidity type MXQ□B	Double ported type MXQ□A
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Series MXQ

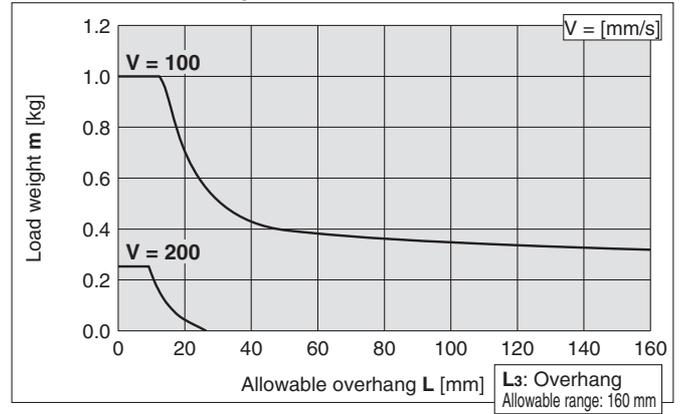
Determine the overhang. (Refer to page 95 for details.)
 L₁, L₂: Check from the cross point of the load weight and driving speed.
 L₃: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

MXQ 8B-□Z^A_BC, MXQ 12B-□Z^A_BC / For Transfer/ Metal Stopper with Bumper

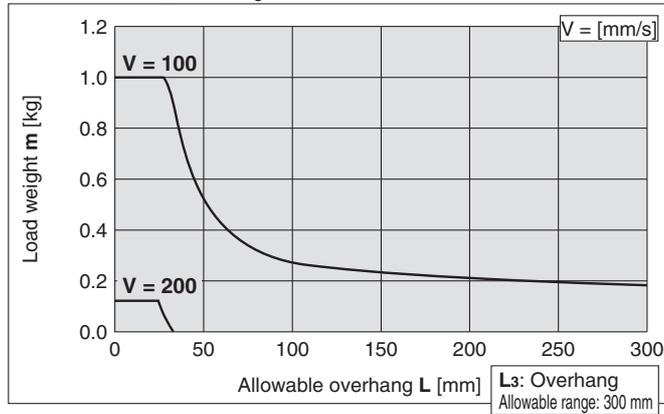
MXQ8B-10, 20, 30Z^A_BC



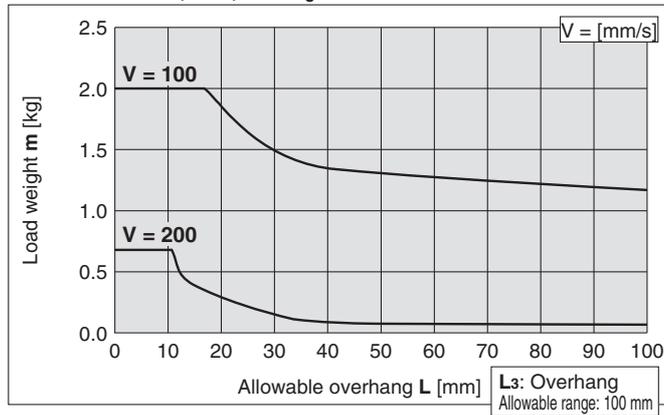
MXQ8B-40, 50Z^A_BC



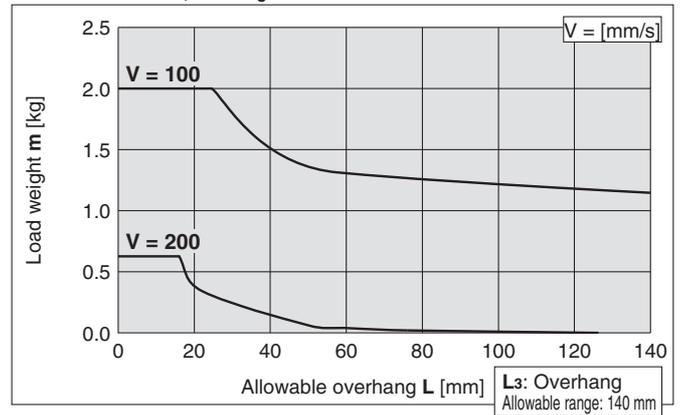
MXQ8B-75, 100Z^A_BC



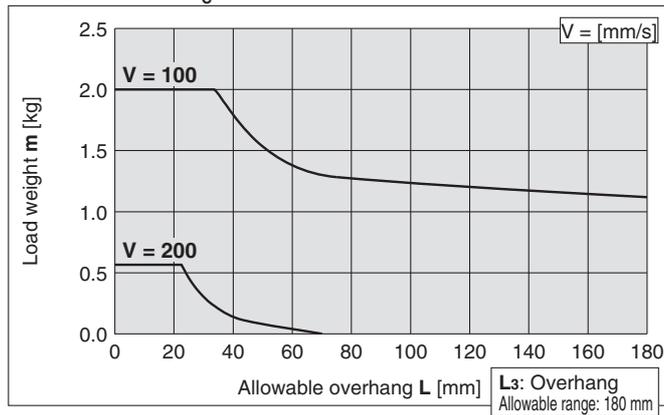
MXQ12B-10, 20, 30Z^A_BC



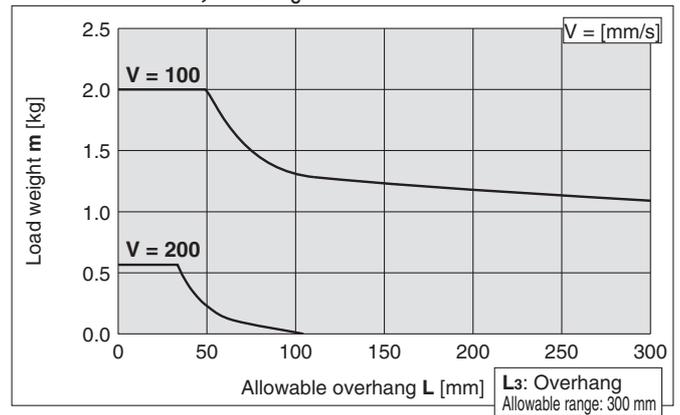
MXQ12B-40, 50Z^A_BC



MXQ12B-75Z^A_BC



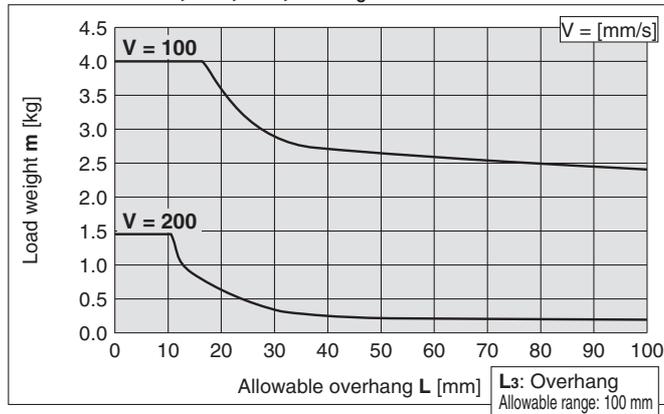
MXQ12B-100, 125Z^A_BC



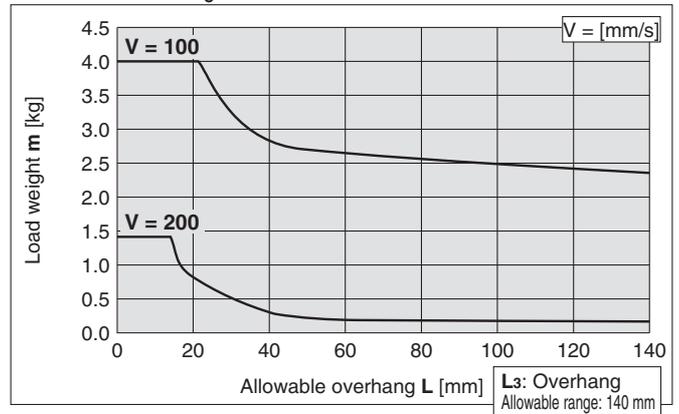
Determine the overhang. (Refer to page 95 for details.)
 L₁, L₂: Check from the cross point of the load weight and driving speed.
 L₃: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

MXQ 16B-□Z^A_{BC}, MXQ 20B-□Z^A_{BC} / For Transfer/
 Metal Stopper with Bumper

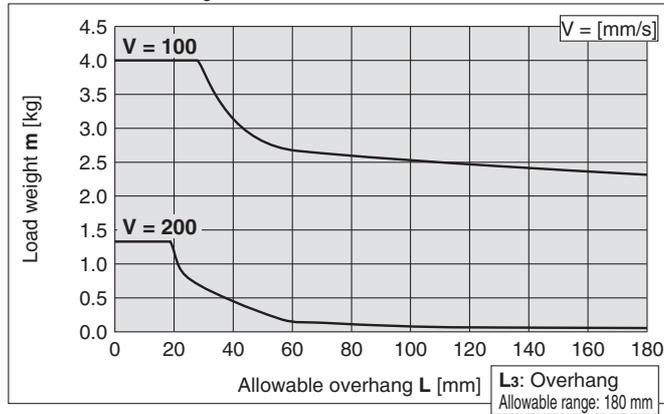
MXQ16B-10, 20, 30, 40Z^A_{BC}



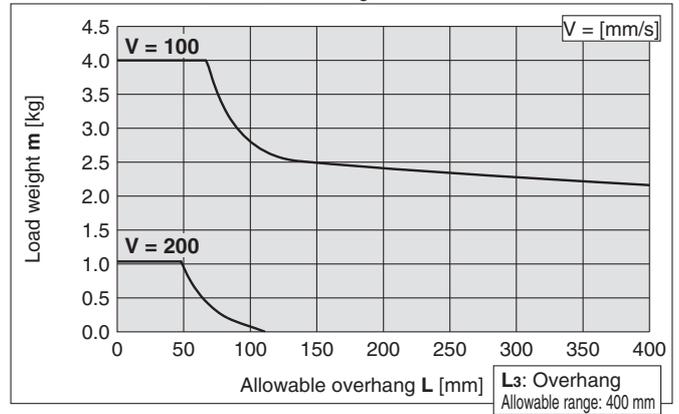
MXQ16B-50Z^A_{BC}



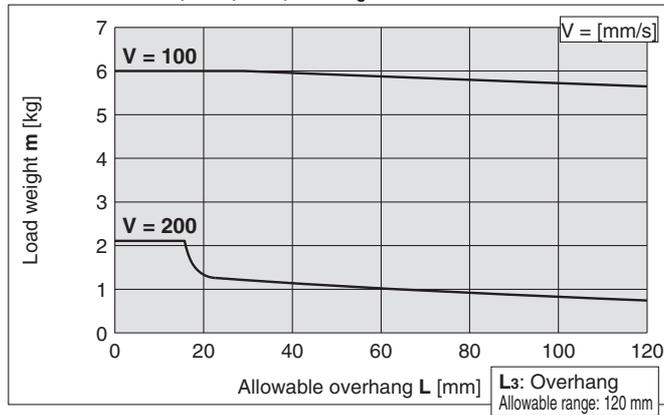
MXQ16B-75Z^A_{BC}



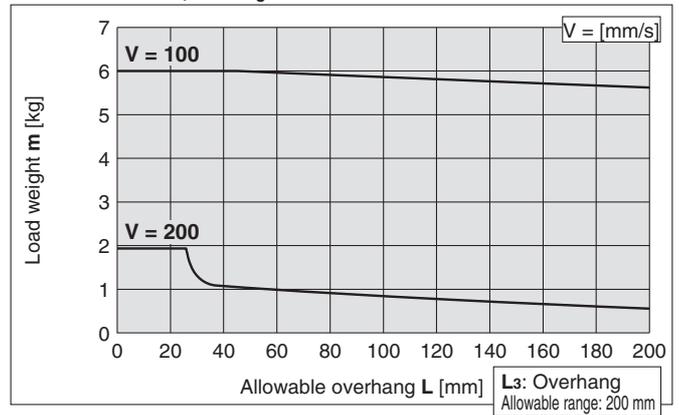
MXQ16B-100, 125, 150Z^A_{BC}



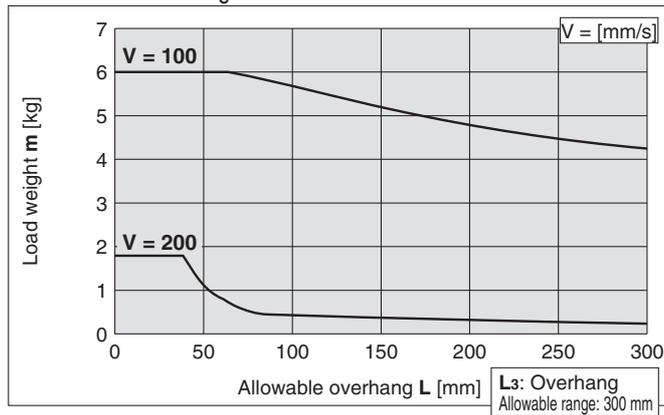
MXQ20B-10, 20, 30, 40Z^A_{BC}



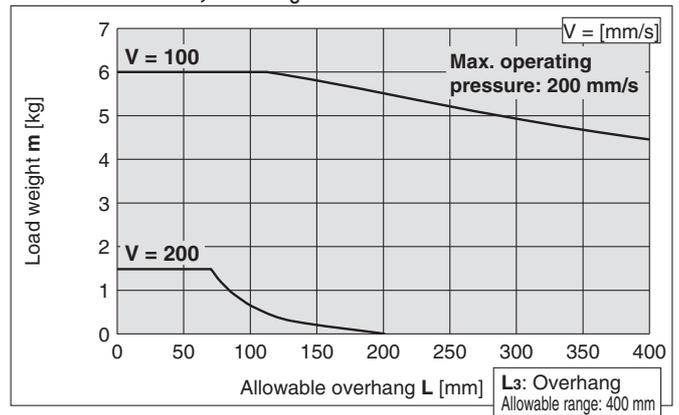
MXQ20B-50, 75Z^A_{BC}



MXQ20B-100Z^A_{BC}



MXQ20B-125, 150Z^A_{BC}



Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection

Series MXQ

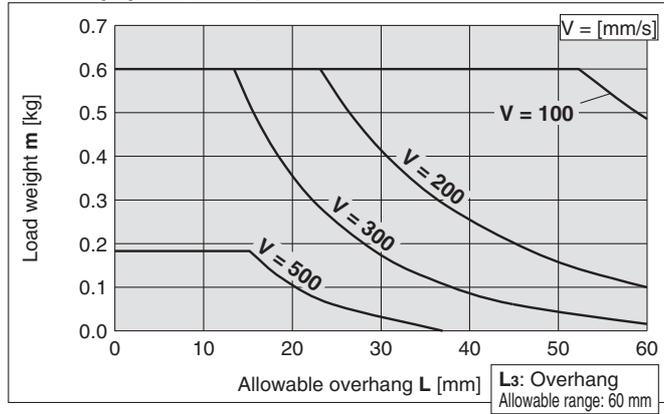
MXQ 6A-□Z_{FE}^D, MXQ 6-□Z_{FE}^D (interchangeable type) Height

MXQ 8^A-□Z_{FE}^D, MXQ 8-□Z_{FE}^D (interchangeable type) Height

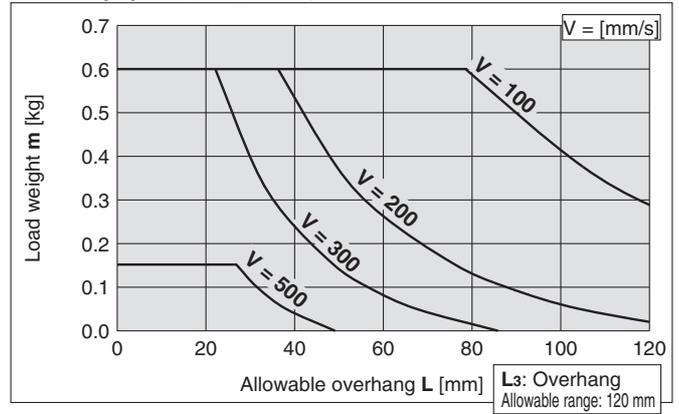
For Transfer/
Rubber Stopper

Determine the overhang. (Refer to page 95 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.

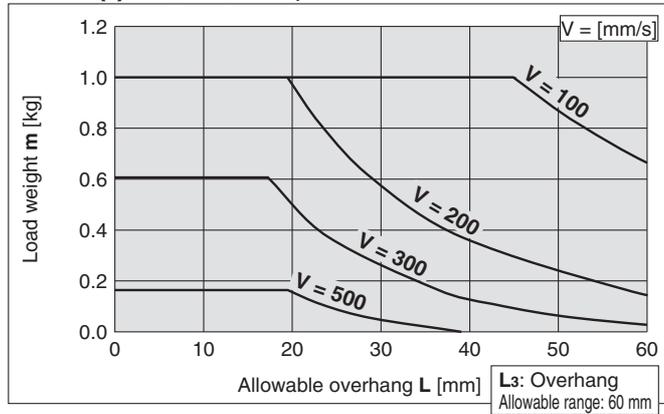
MXQ6(A)-10, 20Z_{FE}^D



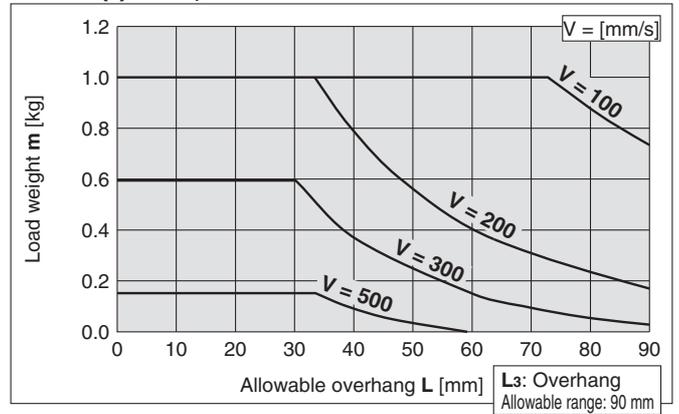
MXQ6(A)-30, 40, 50Z_{FE}^D



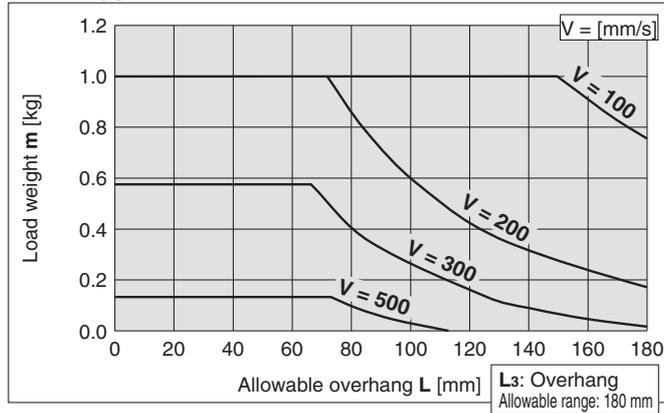
MXQ8(ε)-10, 20, 30Z_{FE}^D



MXQ8(ε)-40Z_{FE}^D



MXQ8(ε)-50Z_{FE}^D

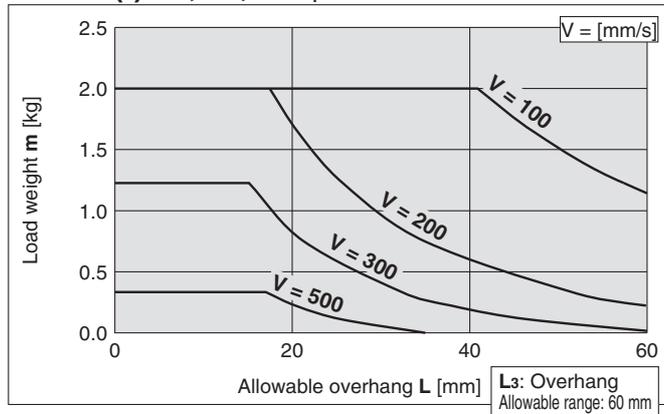


MXQ 12^A_C-□Z^D_{FE}, MXQ 12-□Z^D_{FE} (interchangeable type)
 MXQ 16A-□Z^D_{FE}, MXQ 16-□Z^D_{FE} (interchangeable type)

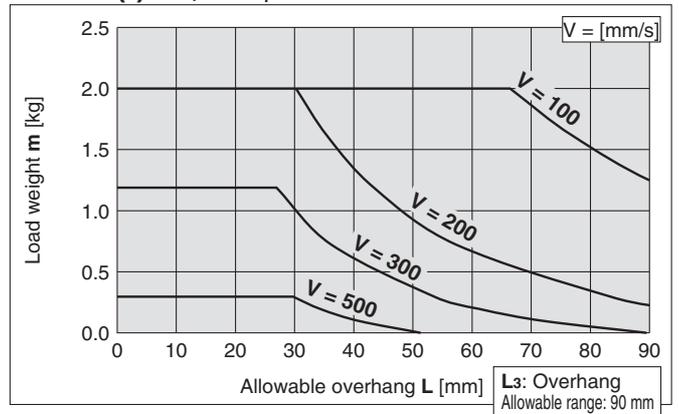
For Transfer/
Rubber Stopper

Determine the overhang. (Refer to page 95 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.

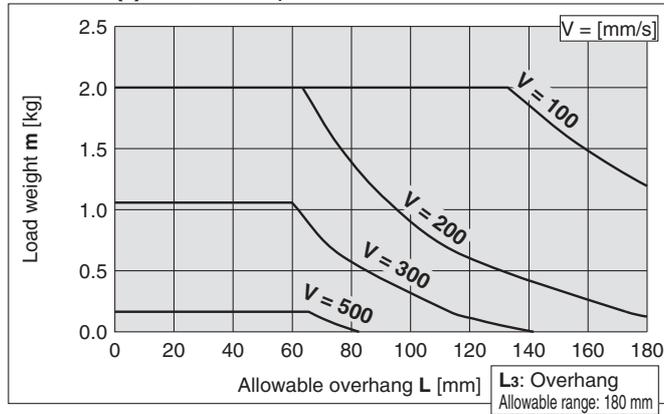
MXQ12(Ĉ)-10, 20, 30Z^D_{FE}



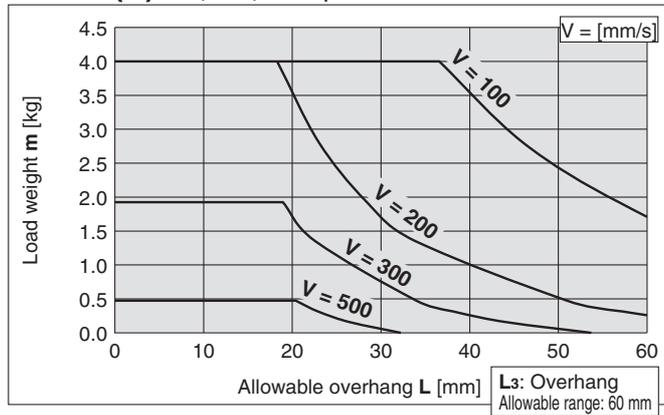
MXQ12(Ĉ)-40, 50Z^D_{FE}



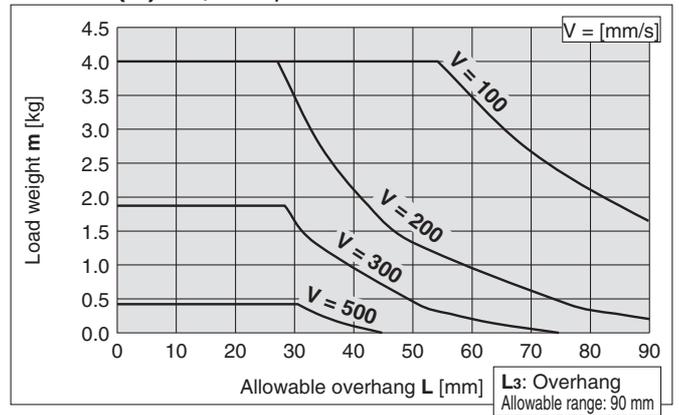
MXQ12(Ĉ)-75, 100Z^D_{FE}



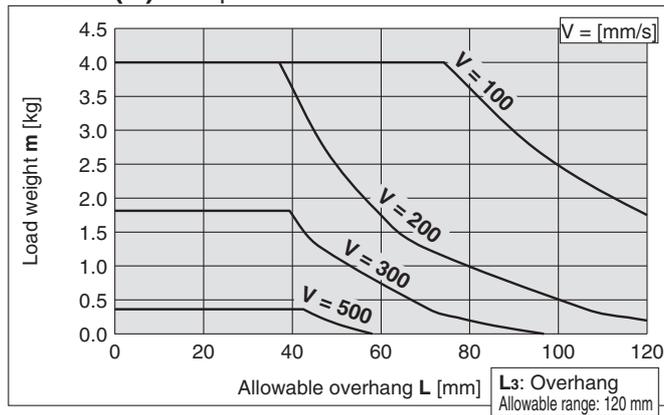
MXQ16(A)-10, 20, 30Z^D_{FE}



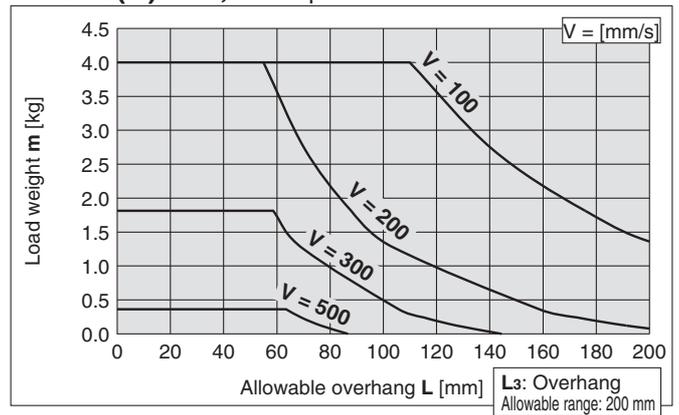
MXQ16(A)-40, 50Z^D_{FE}



MXQ16(A)-75Z^D_{FE}



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



Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection

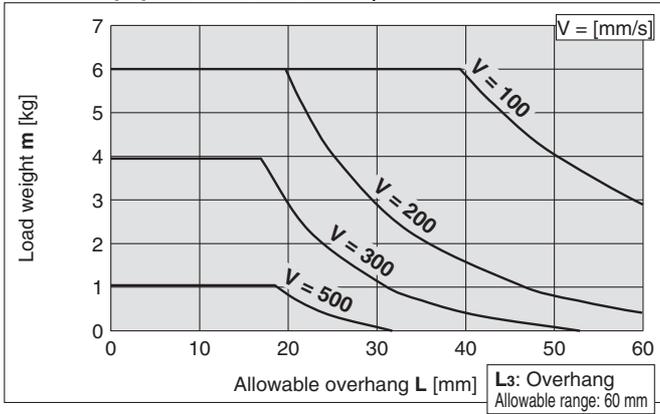
Series MXQ

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

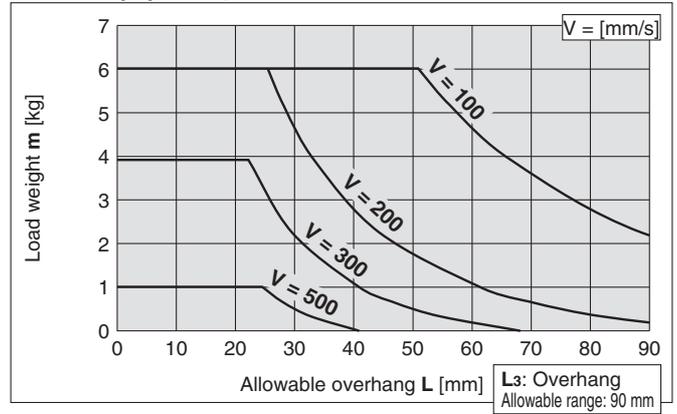
For Transfer/
Rubber Stopper

Determine the overhang. (Refer to page 95 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.

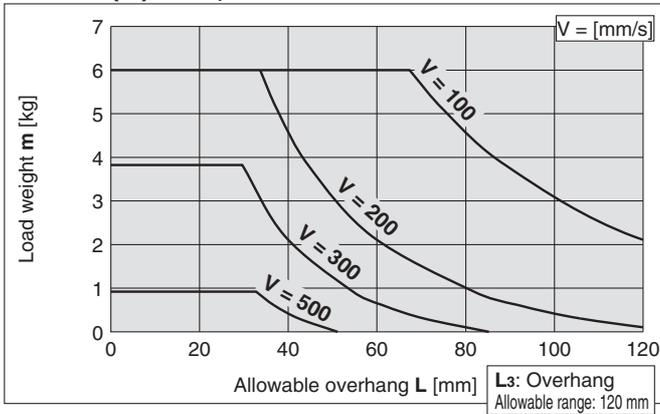
MXQ20(A)-10, 20, 30, 40Z_{DEF}^D



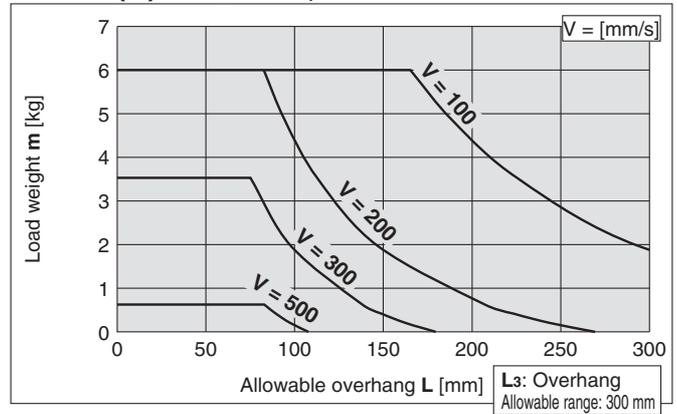
MXQ20(A)-50Z_{DEF}^D



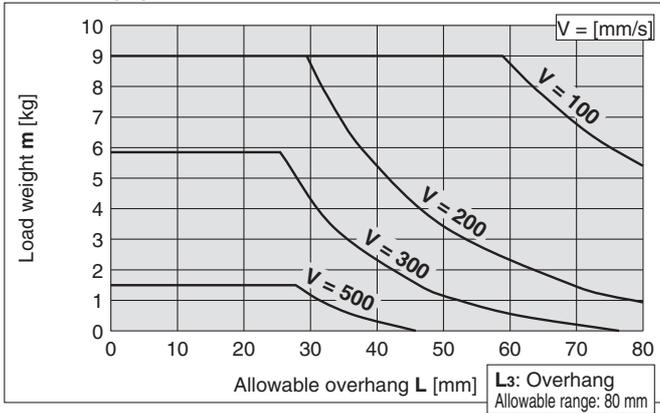
MXQ20(A)-75Z_{DEF}^D



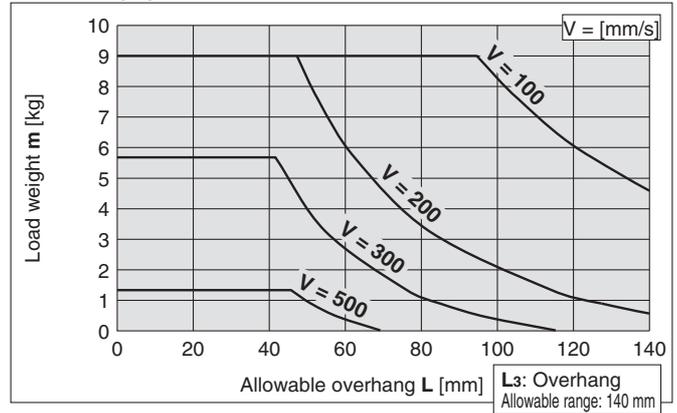
MXQ20(A)-100, 150Z_{DEF}^D



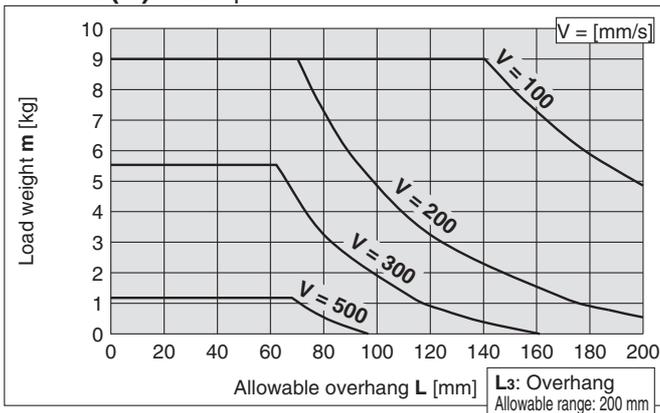
MXQ25(A)-10, 20, 30, 40Z_{DEF}^D



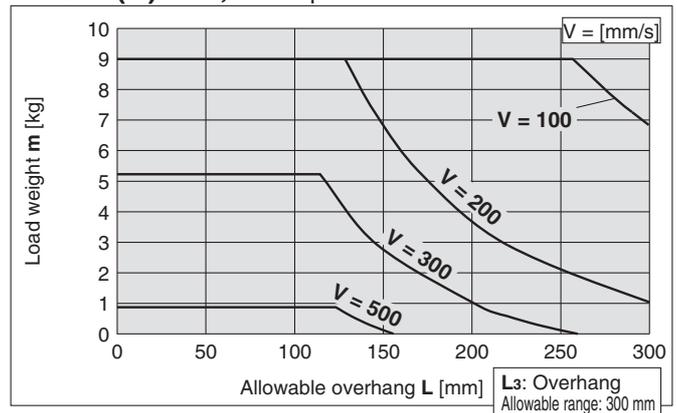
MXQ25(A)-50, 75Z_{DEF}^D



MXQ25(A)-100Z_{DEF}^D



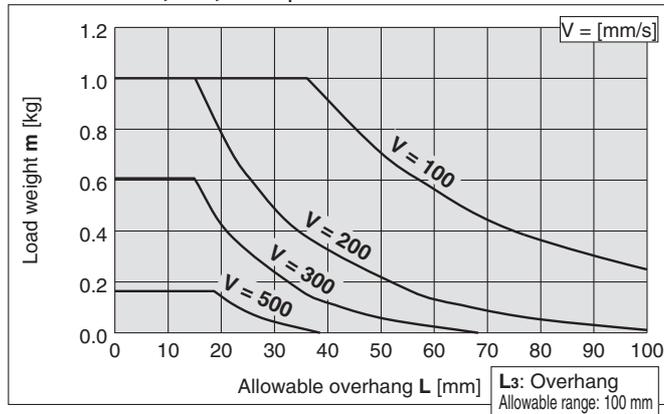
MXQ25(A)-125, 150Z_{DEF}^D



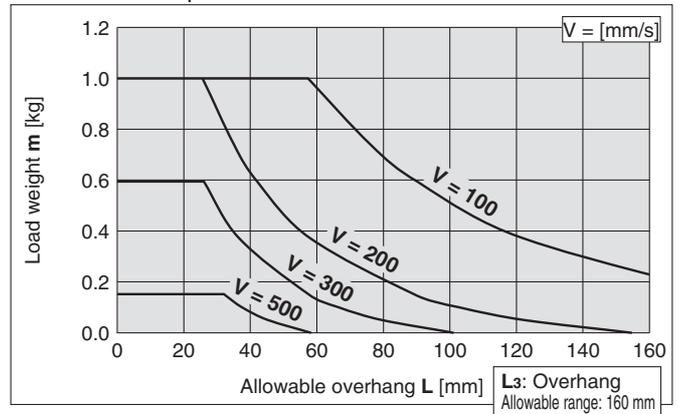
Determine the overhang. (Refer to page 95 for details.)
 L1, L2: Check from the cross point of the load weight and driving speed.
 L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

MXQ 6B-□Z^D_{DEF}/For Transfer/Rubber Stopper

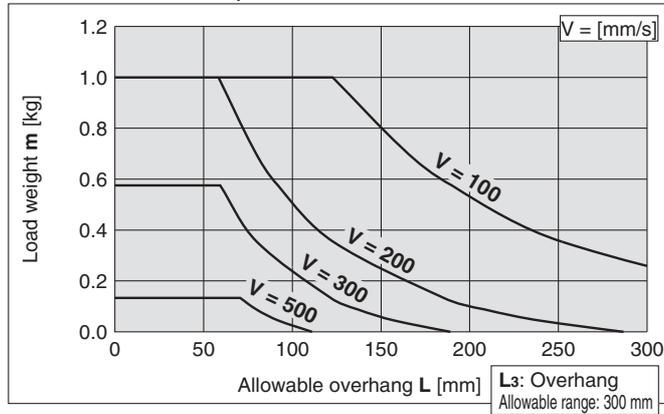
MXQ6B-10, 20, 30Z^D_{DEF}



MXQ6B-40Z^D_{DEF}



MXQ6B-50, 75Z^D_{DEF}



Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

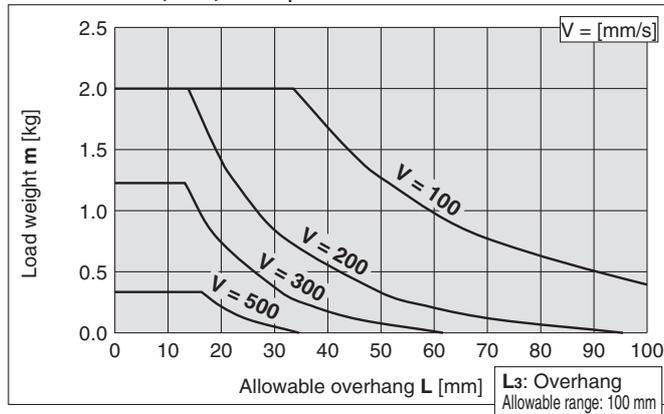
Model Selection

Series MXQ

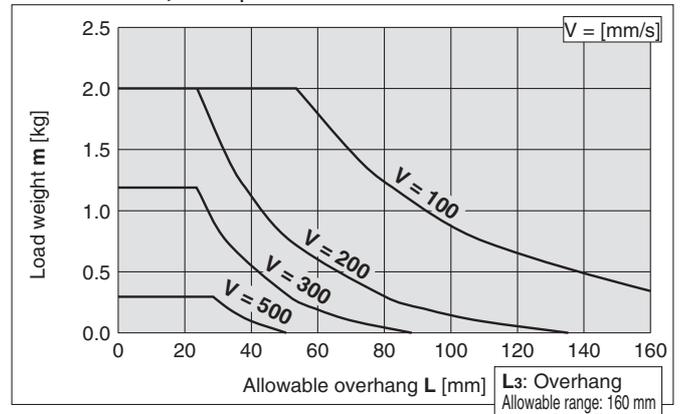
Determine the overhang. (Refer to page 95 for details.)
 L₁, L₂: Check from the cross point of the load weight and driving speed.
 L₃: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

MXQ 8B-□Z_{DEF}^D, MXQ 12B-□Z_{DEF}^D / For Transfer/ Rubber Stopper

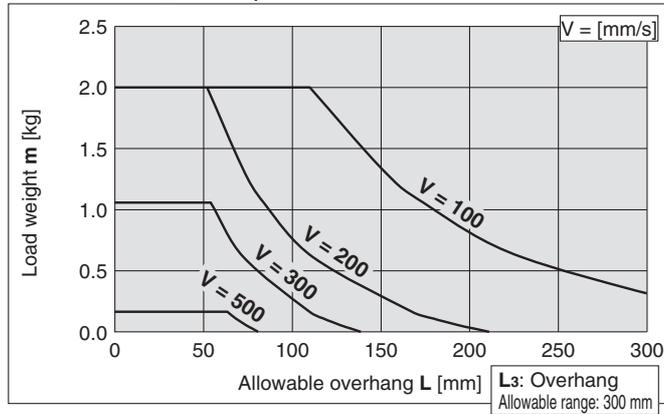
MXQ8B-10, 20, 30Z_{DEF}^D



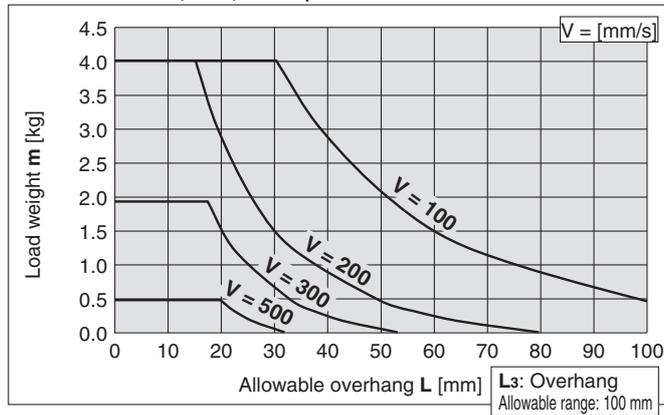
MXQ8B-40, 50Z_{DEF}^D



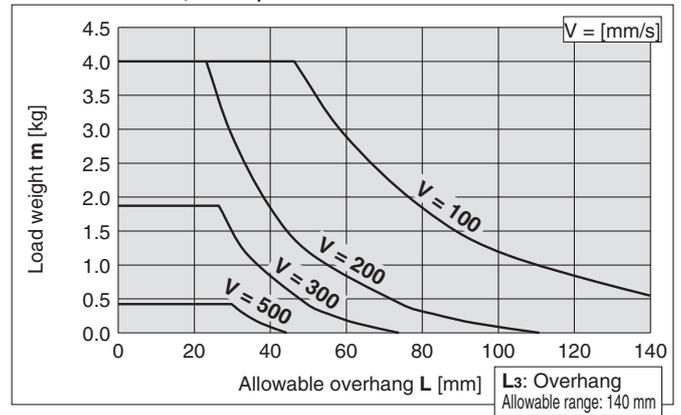
MXQ8B-75, 100Z_{DEF}^D



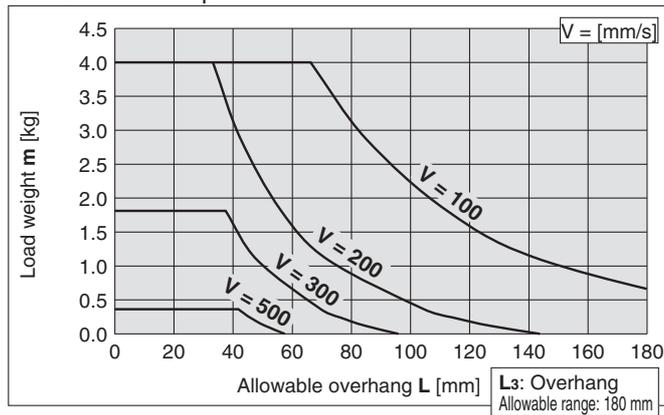
MXQ12B-10, 20, 30Z_{DEF}^D



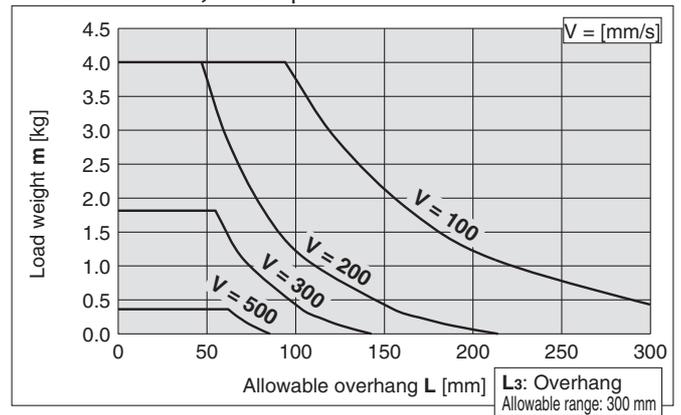
MXQ12B-40, 50Z_{DEF}^D



MXQ12B-75Z_{DEF}^D



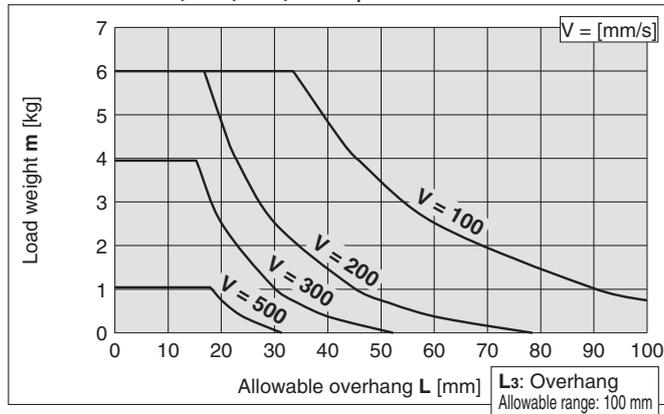
MXQ12B-100, 125Z_{DEF}^D



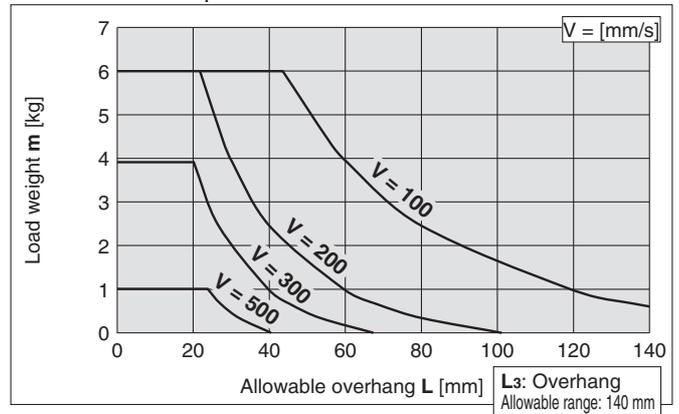
Determine the overhang. (Refer to page 95 for details.)
 L1, L2: Check from the cross point of the load weight and driving speed.
 L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

MXQ 16B-□Z_{FD}^D, MXQ 20B-□Z_{FD}^D / For Transfer/
 Rubber Stopper

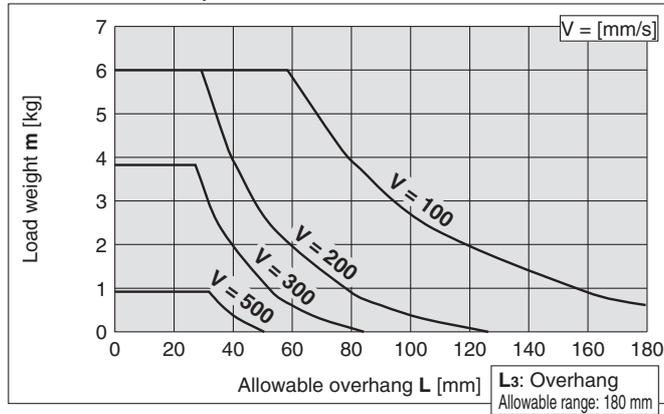
MXQ16B-10, 20, 30, 40Z_{FD}^D



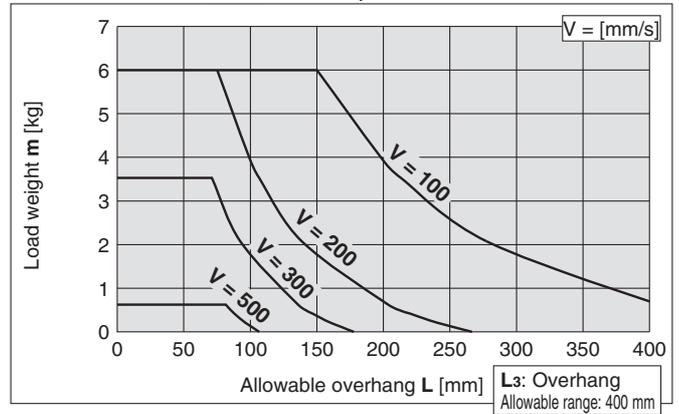
MXQ16B-50Z_{FD}^D



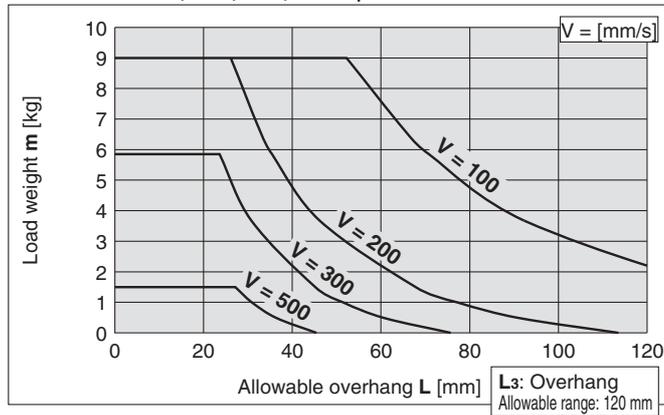
MXQ16B-75Z_{FD}^D



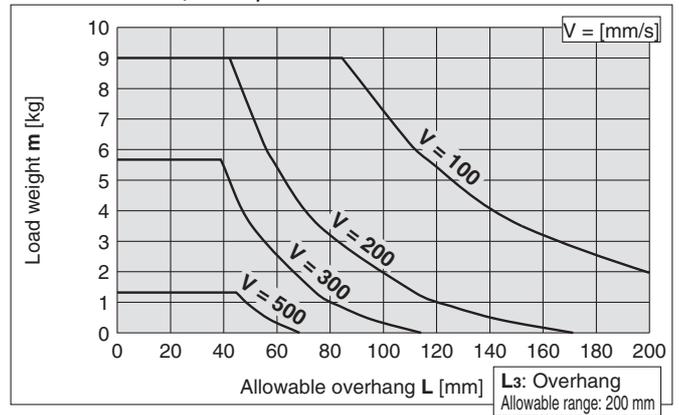
MXQ16B-100, 125, 150Z_{FD}^D



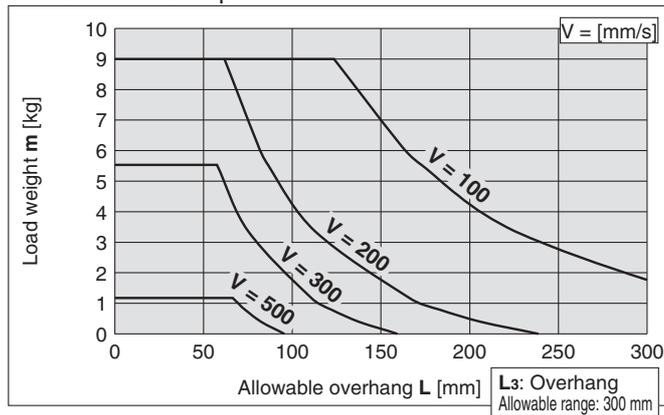
MXQ20B-10, 20, 30, 40Z_{FD}^D



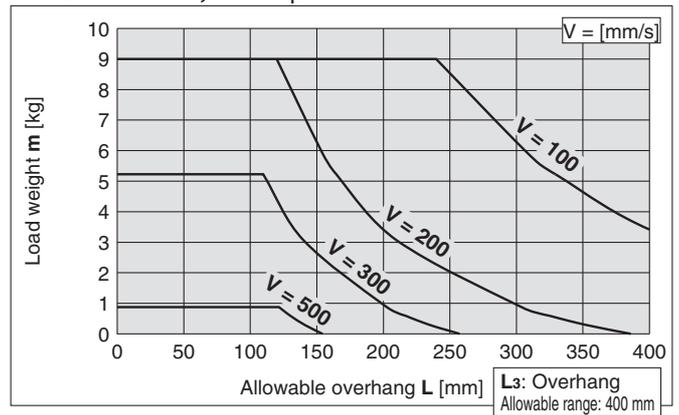
MXQ20B-50, 75Z_{FD}^D



MXQ20B-100Z_{FD}^D



MXQ20B-125, 150Z_{FD}^D



Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster
 Options

Auto Switch
 Mounting

Made to Order

Model Selection

Series MXQ

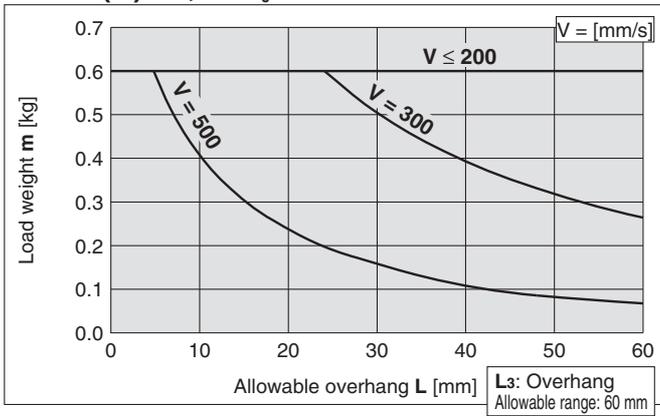
MXQ 6A-□Z_{HJ}^G, MXQ 6-□Z_{HJ}^G (Height interchangeable type)

MXQ 8^A_C-□Z_{HJ}^G, MXQ 8-□Z_{HJ}^G (Height interchangeable type)

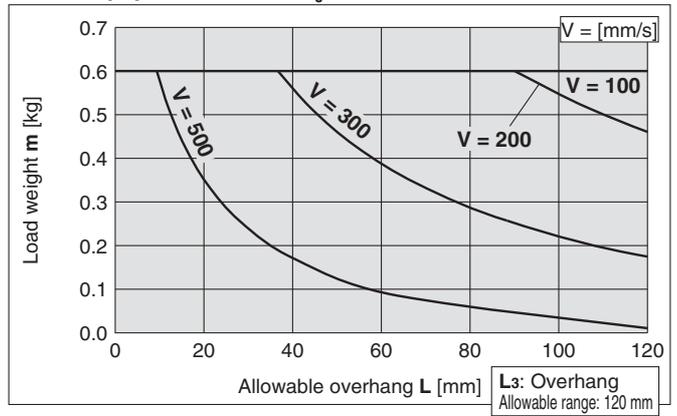
For Transfer/
Shock Absorber (RJ)

Determine the overhang. (Refer to page 95 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.

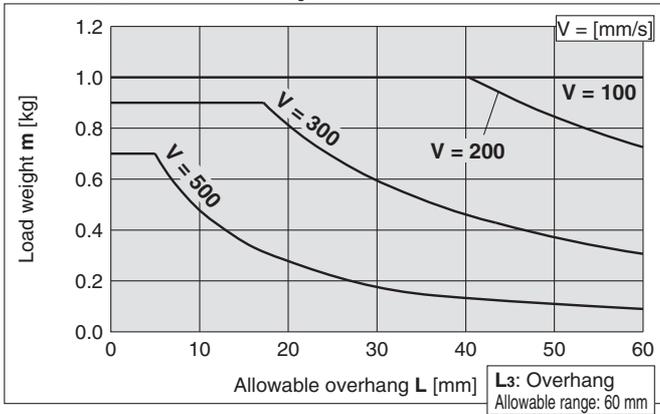
MXQ6(A)-10, 20Z_{HJ}^G



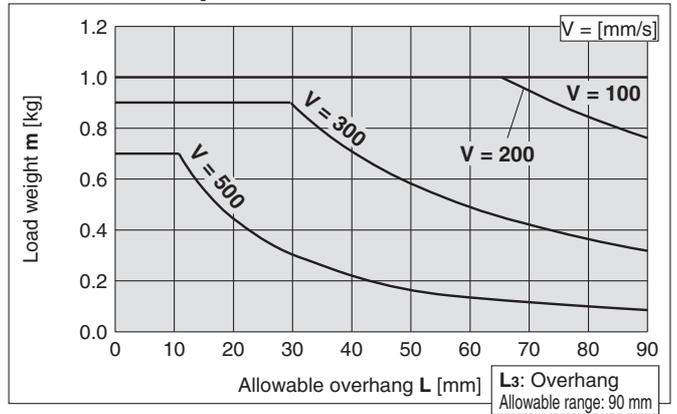
MXQ6(A)-30, 40, 50Z_{HJ}^G



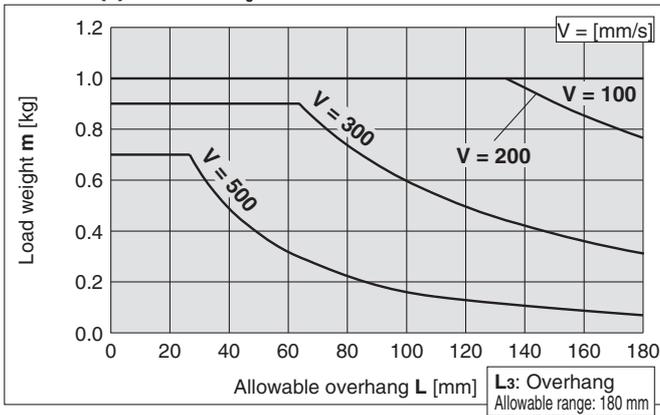
MXQ8(Δ)-10, 20, 30Z_{HJ}^G



MXQ8(Δ)-40Z_{HJ}^G



MXQ8(Δ)-50, 75Z_{HJ}^G

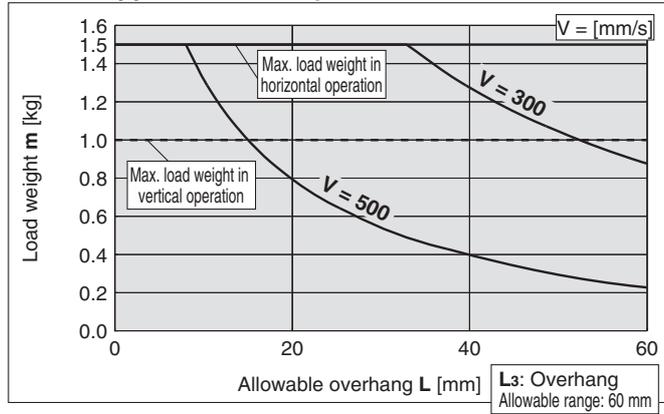


MXQ 12^A_C-□Z^G_{HJ}, MXQ 12-□Z^G_{HJ} (Height interchangeable type)
 MXQ 16A-□Z^G_{HJ}, MXQ 16-□Z^G_{HJ} (Height interchangeable type)

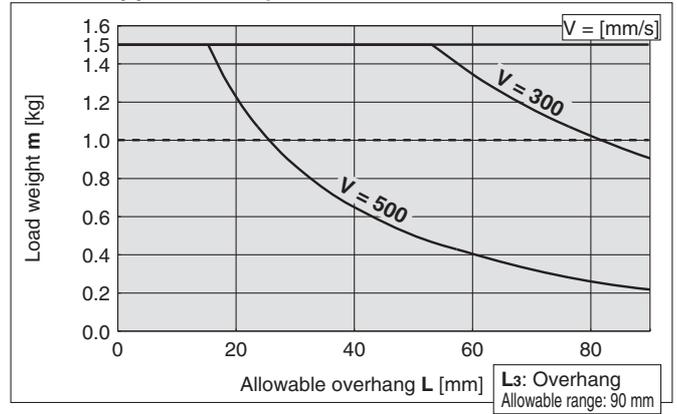
For Transfer/
Shock Absorber (RJ)

Determine the overhang. (Refer to page 95 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.

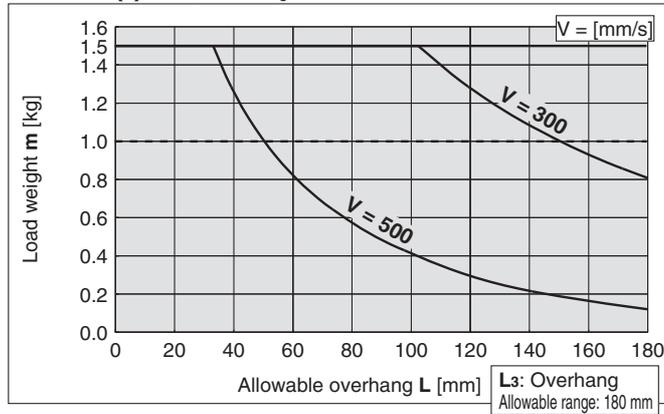
MXQ12(Δ)-10, 20, 30Z^G_{HJ}



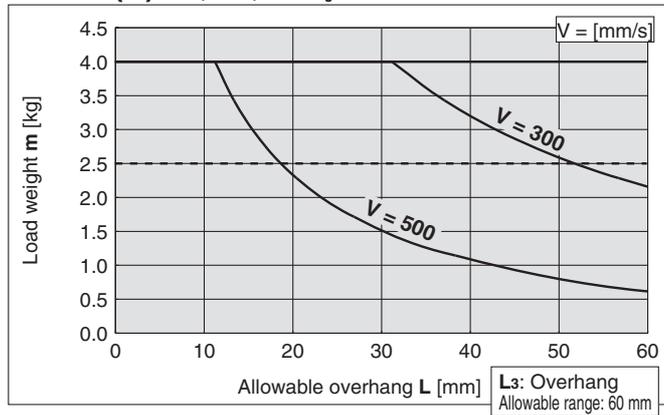
MXQ12(Δ)-40, 50Z^G_{HJ}



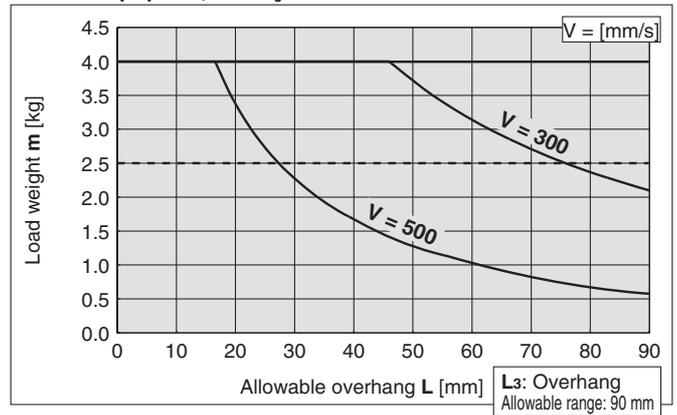
MXQ12(Δ)-75, 100Z^G_{HJ}



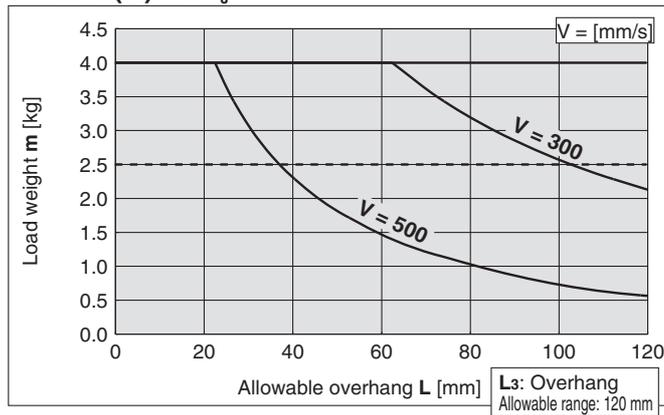
MXQ16(A)-10, 20, 30Z^G_{HJ}



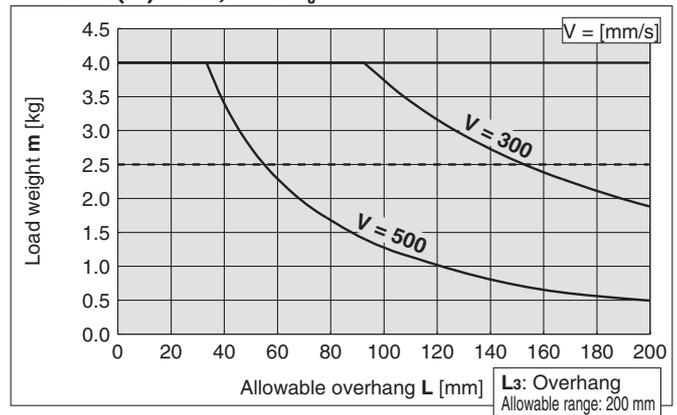
MXQ16(A)-40, 50Z^G_{HJ}



MXQ16(A)-75Z^G_{HJ}



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



Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

Model Selection

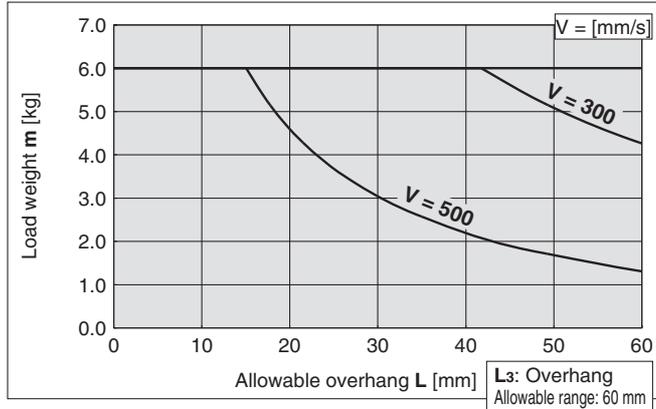
Series MXQ

MXQ 20A-□Z_{HJ}^G, MXQ 20-□Z_{HJ}^G (interchangeable type)
 MXQ 25A-□Z_{HJ}^G, MXQ 25-□Z_{HJ}^G (interchangeable type)

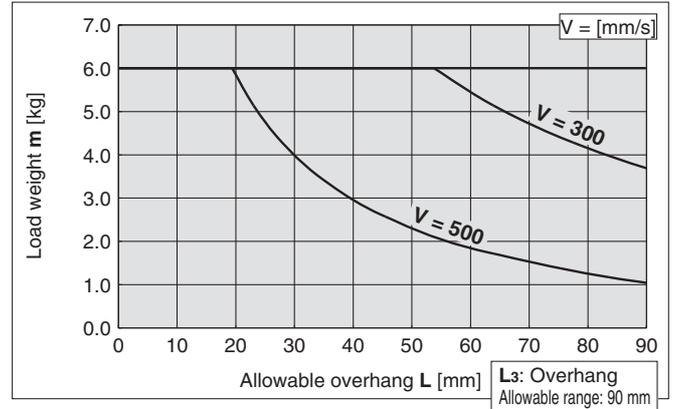
For Transfer/
Shock Absorber (RJ)

Determine the overhang. (Refer to page 95 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.

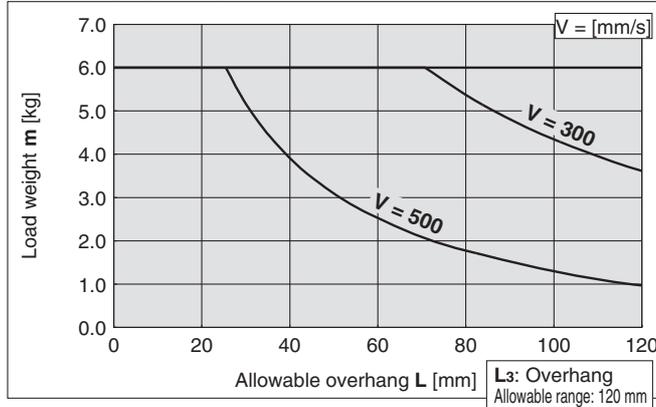
MXQ20(A)-10, 20, 30, 40Z_{HJ}^G



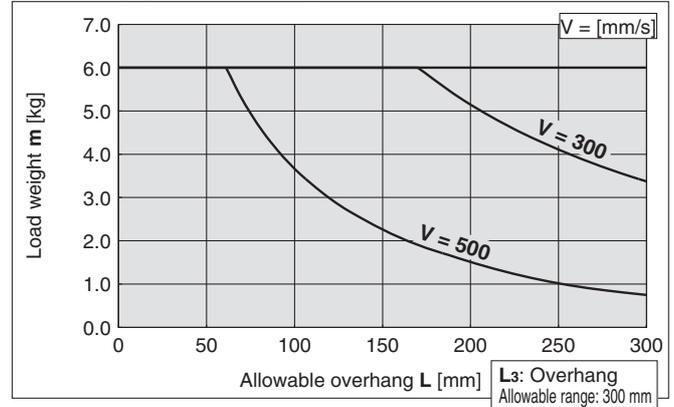
MXQ20(A)-50Z_{HJ}^G



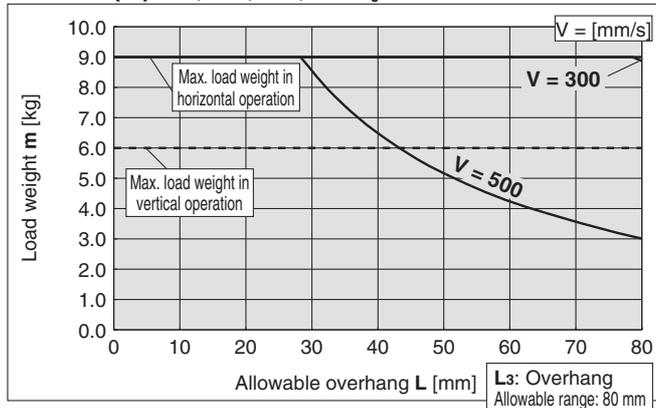
MXQ20(A)-75Z_{HJ}^G



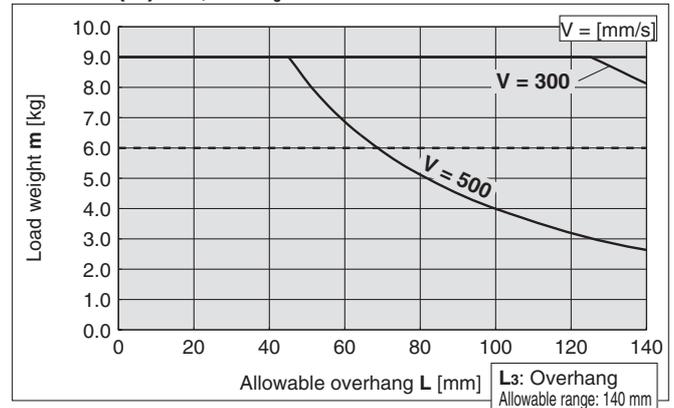
MXQ20(A)-100, 150Z_{HJ}^G



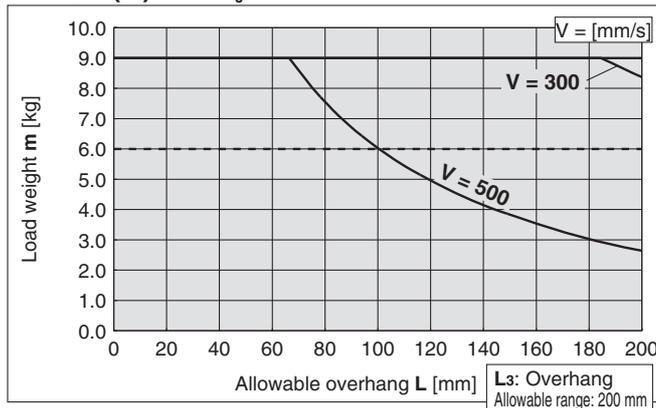
MXQ25(A)-10, 20, 30, 40Z_{HJ}^G



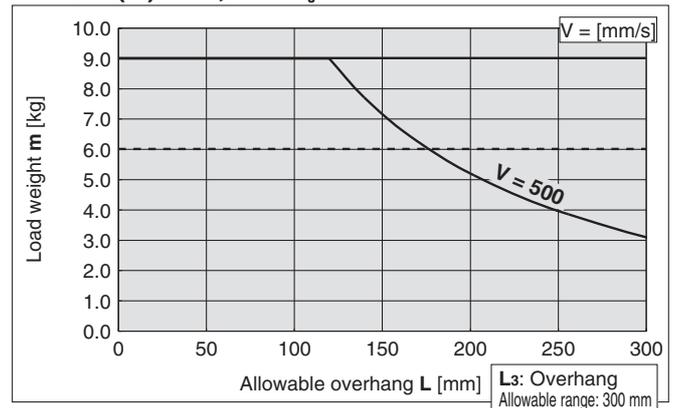
MXQ25(A)-50, 75Z_{HJ}^G



MXQ25(A)-100Z_{HJ}^G



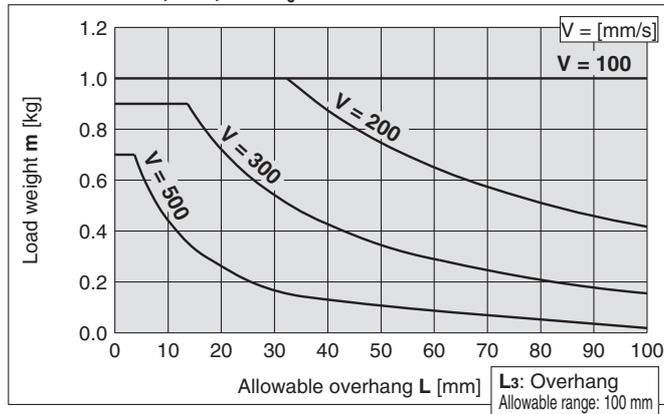
MXQ25(A)-125, 150Z_{HJ}^G



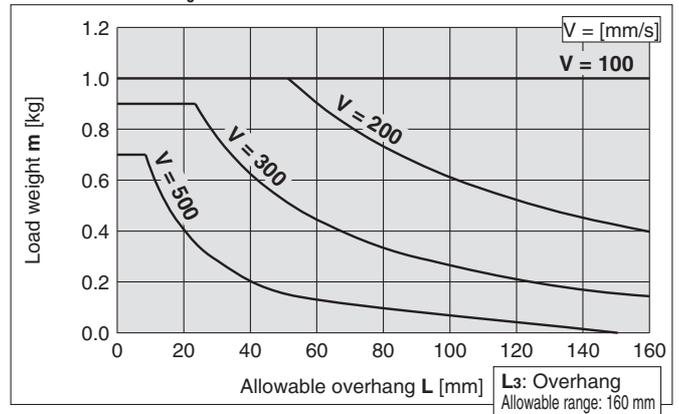
Determine the overhang. (Refer to page 95 for details.)
 L1, L2: Check from the cross point of the load weight and driving speed.
 L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

MXQ 6B-□Z^G_{HJ} /For Transfer/Shock Absorber (RJ)

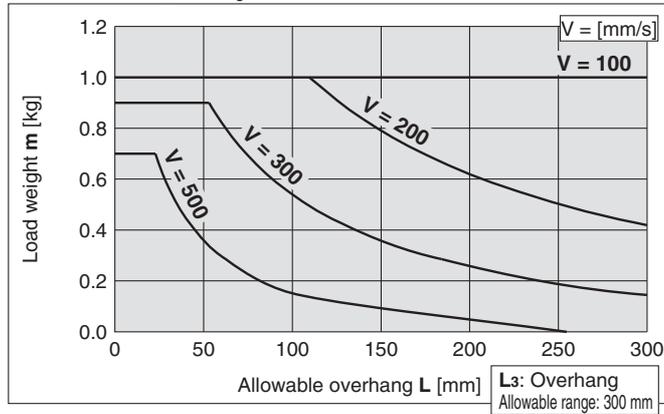
MXQ6B-10, 20, 30Z^G_{HJ}



MXQ6B-40Z^G_{HJ}



MXQ6B-50, 75Z^G_{HJ}



Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

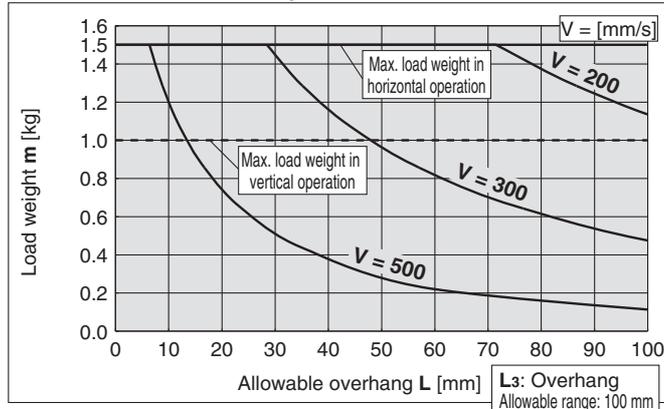
Model Selection

Series MXQ

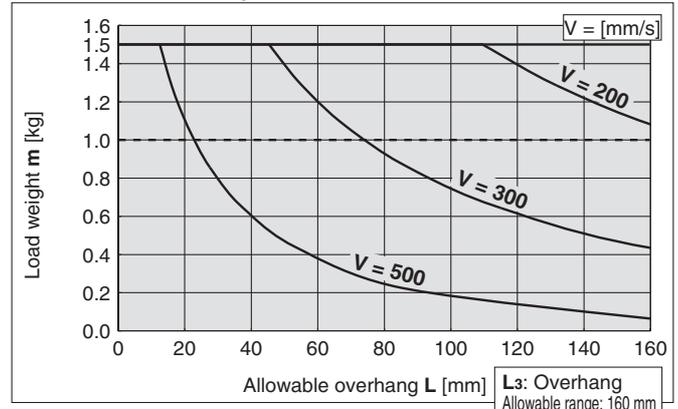
MXQ 8B-□Z^G_{HJ}, MXQ 12B-□Z^G_{HJ} / For Transfer/ Shock Absorber (RJ)

Determine the overhang. (Refer to page 95 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.

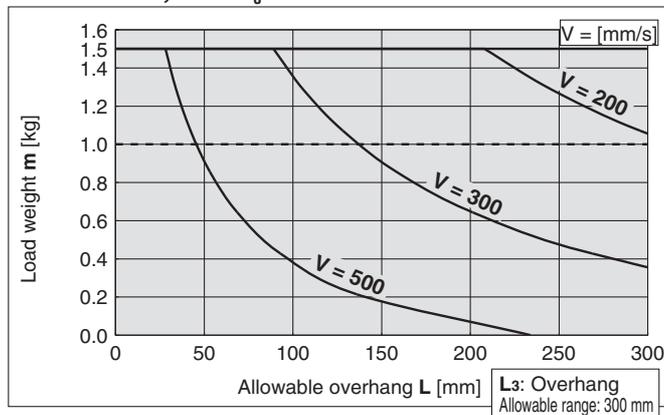
MXQ8B-10, 20, 30Z^G_{HJ}



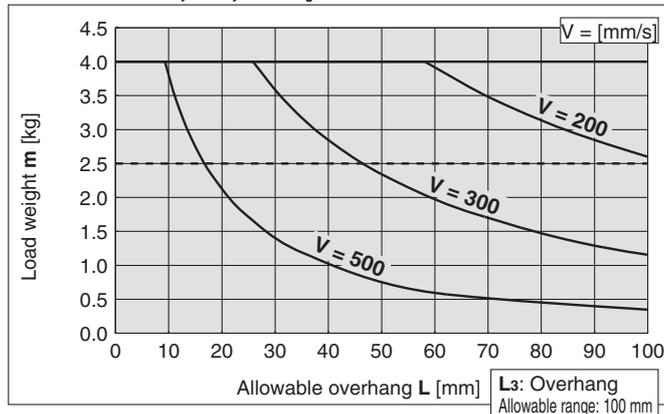
MXQ8B-40, 50Z^G_{HJ}



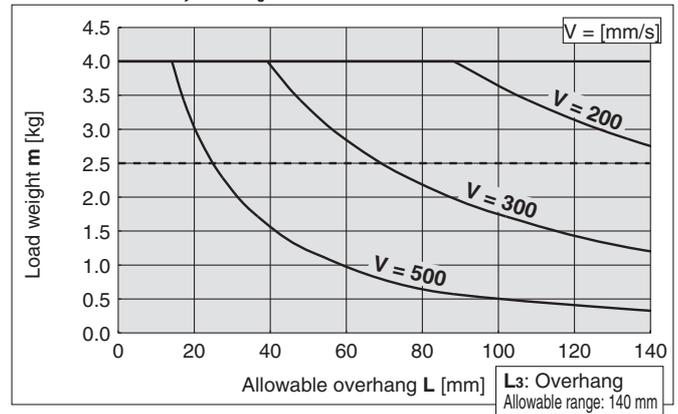
MXQ8B-75, 100Z^G_{HJ}



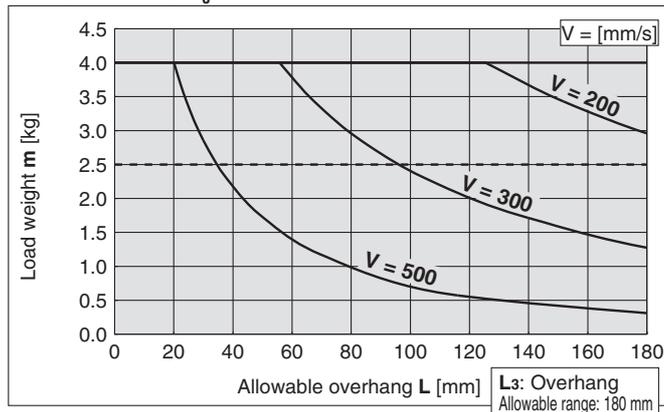
MXQ12B-10, 20, 30Z^G_{HJ}



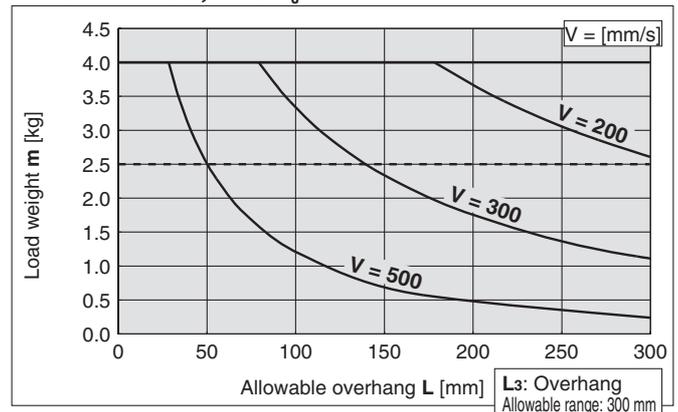
MXQ12B-40, 50Z^G_{HJ}



MXQ12B-75Z^G_{HJ}



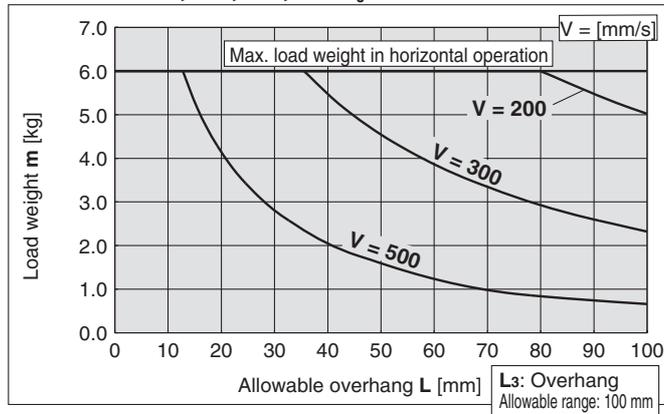
MXQ12B-100, 125Z^G_{HJ}



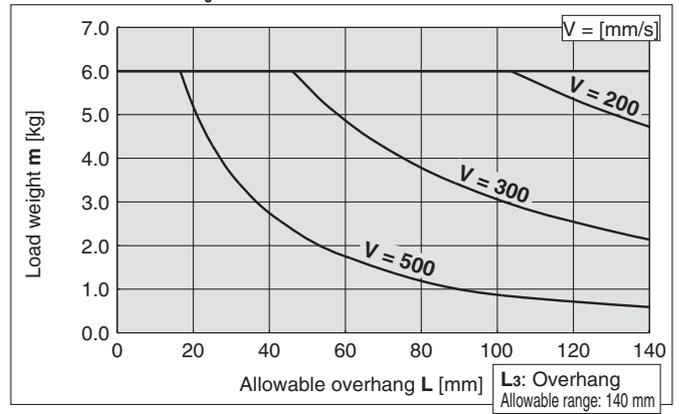
Determine the overhang. (Refer to page 95 for details.)
 L1, L2: Check from the cross point of the load weight and driving speed.
 L3: Can be used within the "Allowable overhang range" in the selection graph if the load weight and driving speed values are within the allowable range.

MXQ 16B-□Z^G_{HJ}, MXQ 20B-□Z^G_{HJ} / For Transfer/ Shock Absorber (RJ)

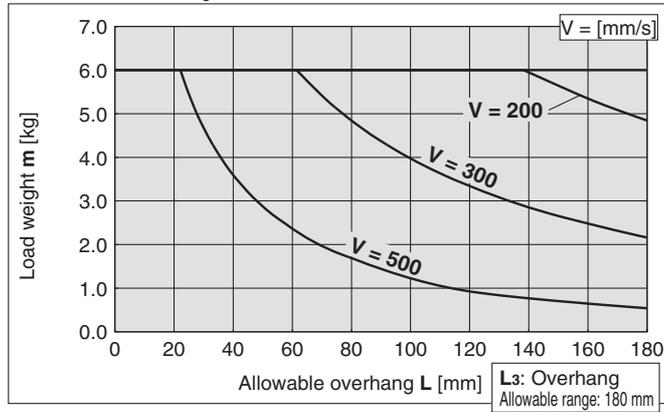
MXQ16B-10, 20, 30, 40Z^G_{HJ}



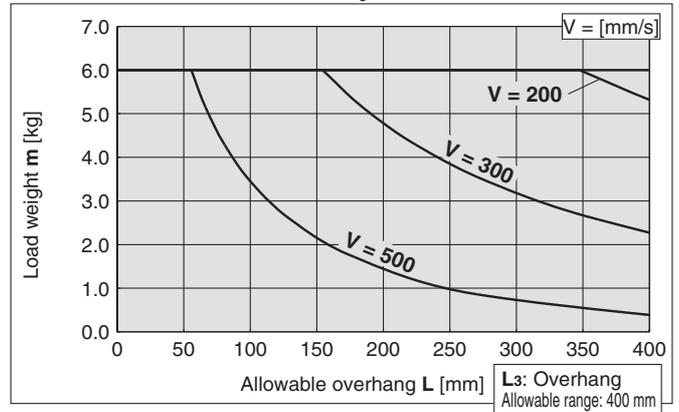
MXQ16B-50Z^G_{HJ}



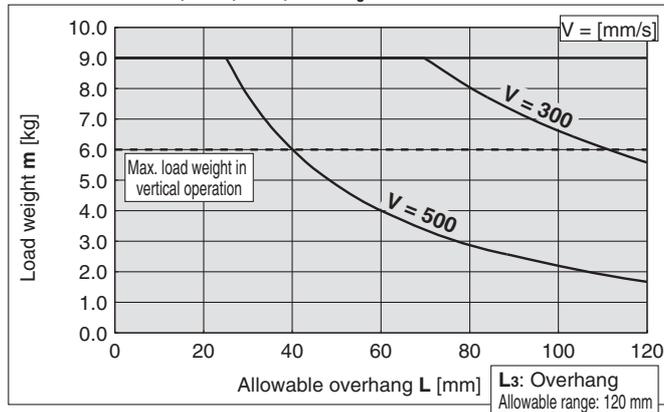
MXQ16B-75Z^G_{HJ}



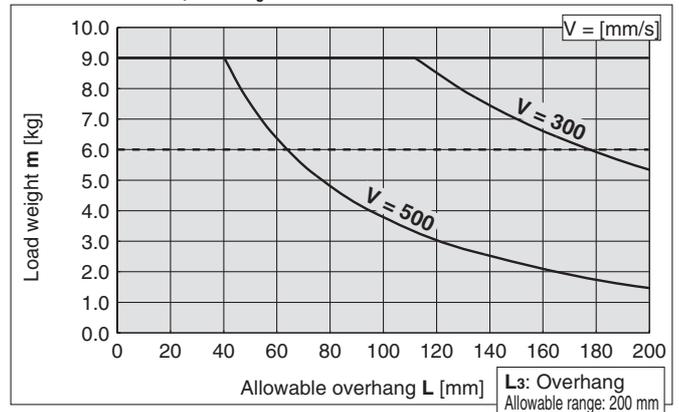
MXQ16B-100, 125, 150Z^G_{HJ}



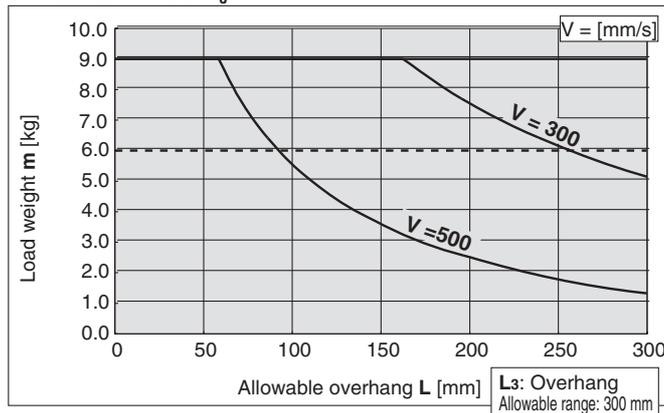
MXQ20B-10, 20, 30, 40Z^G_{HJ}



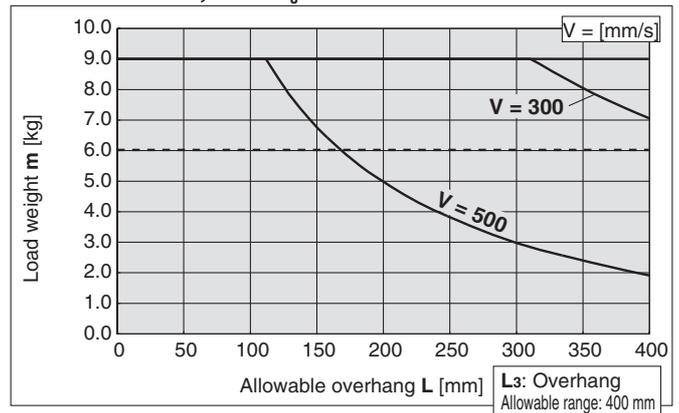
MXQ20B-50, 75Z^G_{HJ}



MXQ20B-100Z^G_{HJ}



MXQ20B-125, 150Z^G_{HJ}



Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster Options

Auto Switch Mounting

Made to Order

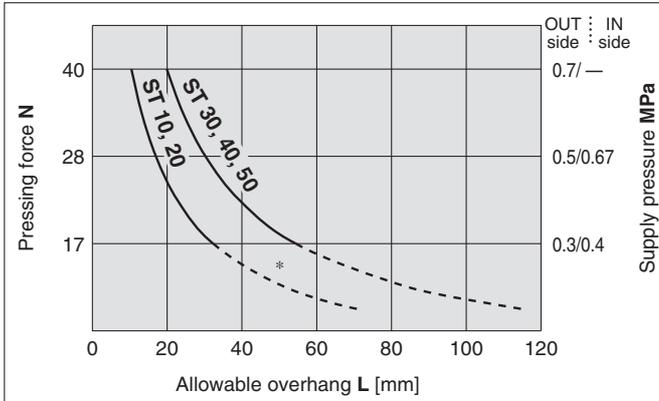
Model Selection

Series MXQ

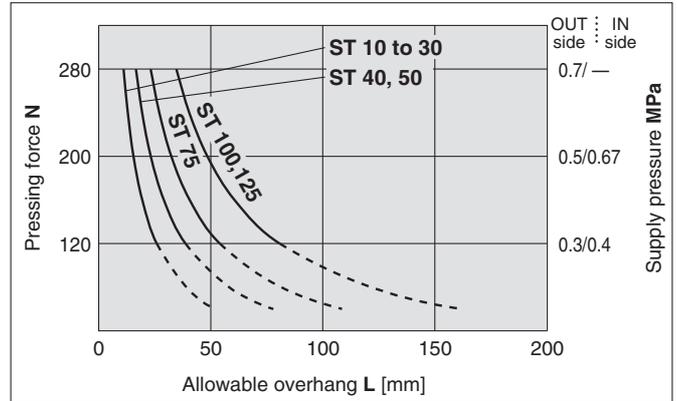
Double Ported Type, Single Side Ported Type, Height Interchangeable Type/For Pressing

Determine the overhang. (Refer to page 96 for details.)
L₁, L₂: Check from the cross point of the pressing force and driving speed.

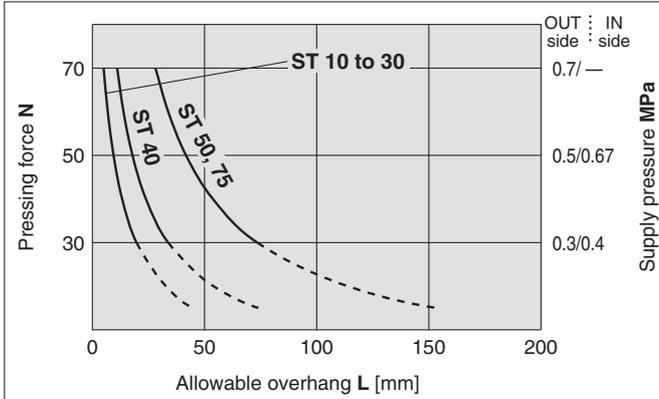
MXQ6A-□Z



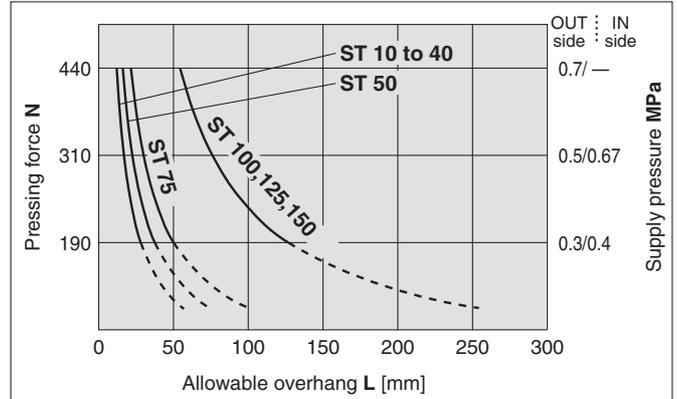
MXQ16A-□Z



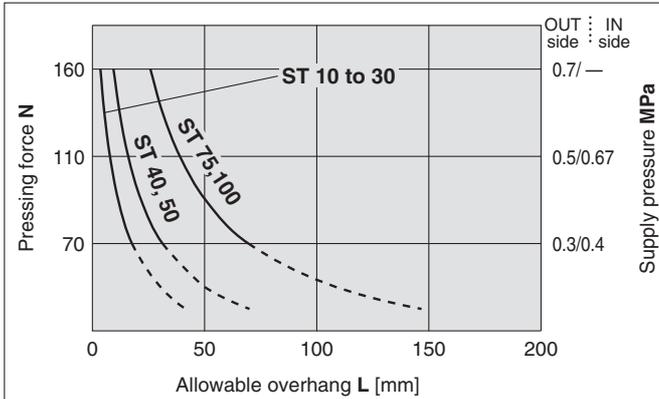
MXQ8^A_C-□Z



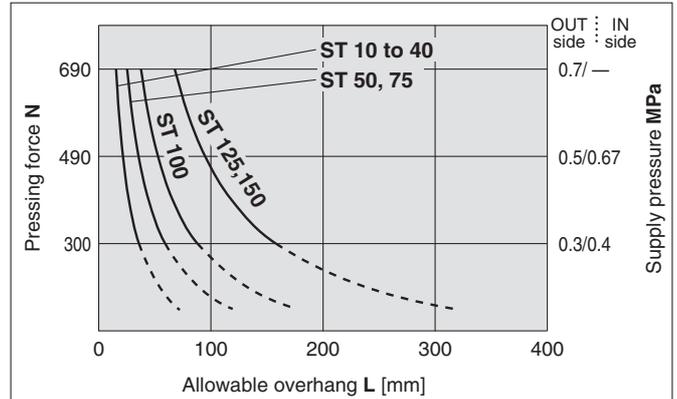
MXQ20A-□Z



MXQ12^A_C-□Z



MXQ25A-□Z



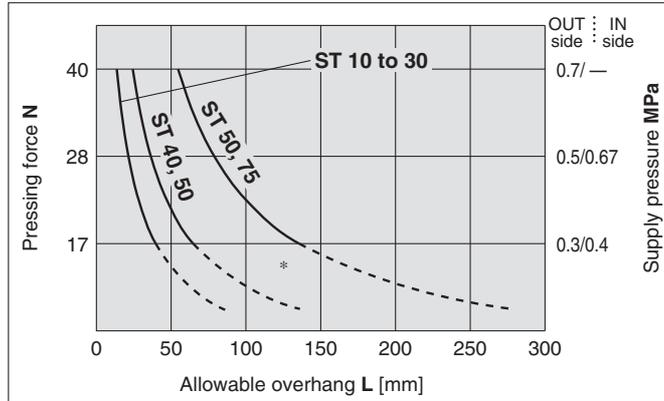
* Pressing force in the dotted line ranges are reference values as the pressing force may vary in these ranges.

* ST = Stroke

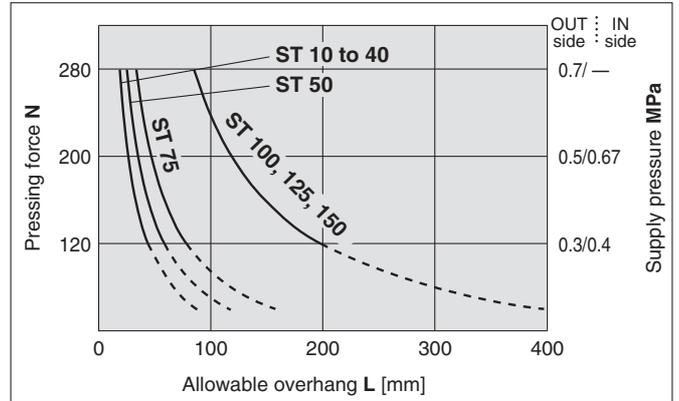
Determine the overhang. (Refer to page 96 for details.)
L₁, L₂: Check from the cross point of the pressing force and driving speed.

Low Thrust with High Rigidity Type/For Pressing

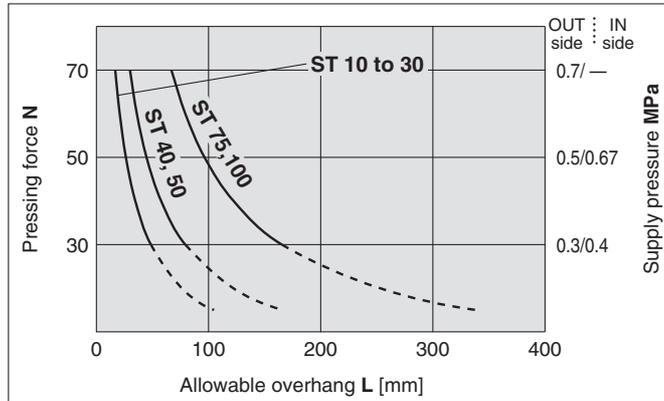
MXQ6B-□Z



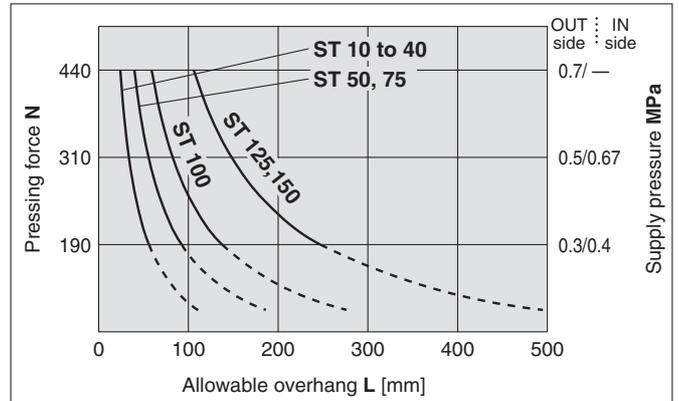
MXQ16B-□Z



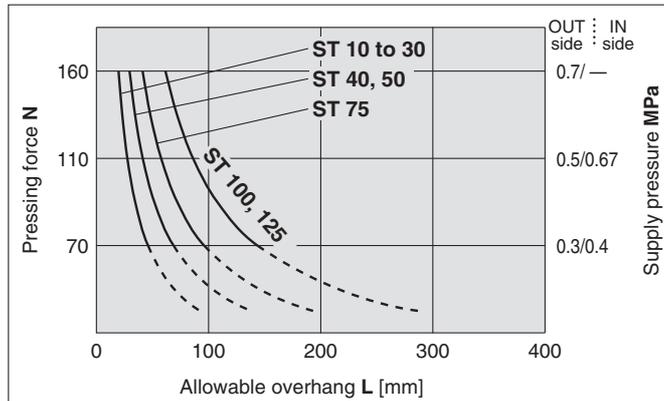
MXQ8B-□Z



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

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster
Options

Auto Switch
Mounting

Made to Order

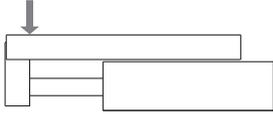
Model Selection

Series MXQ

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

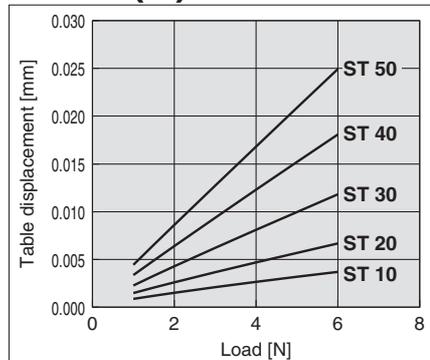
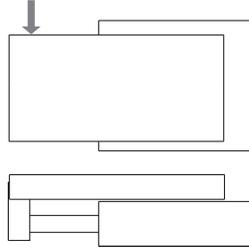


Table displacement due to yaw moment load

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

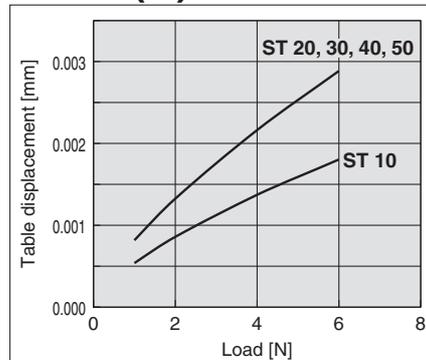
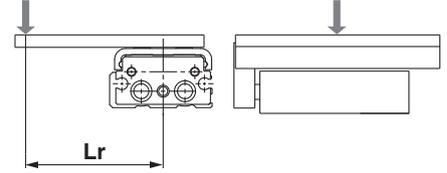


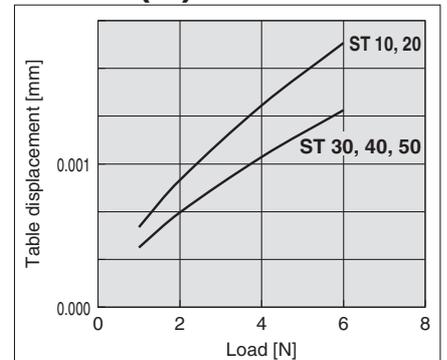
Table displacement due to roll moment load

Displacement when a load is applied to the part indicated by the arrow when the air slide table is retracted

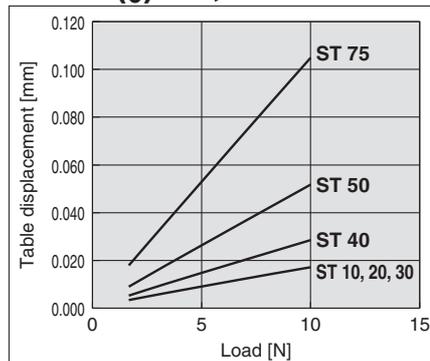


MXQ6(A)-□Z

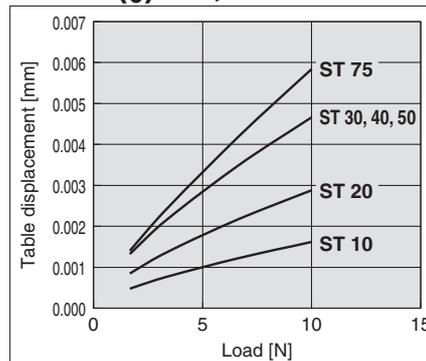
Lr = 40 mm



MXQ8(A)_C-□Z, MXQ6B-□Z

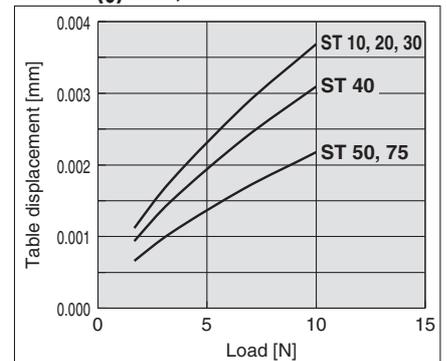


MXQ8(A)_C-□Z, MXQ6B-□Z

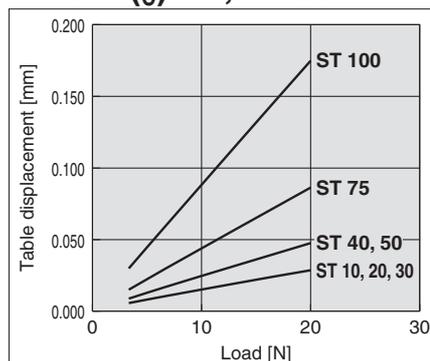


MXQ8(A)_C-□Z, MXQ6B-□Z

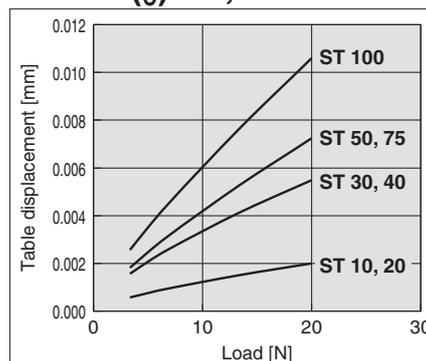
Lr = 70 mm



MXQ12(A)_C-□Z, MXQ8B-□Z

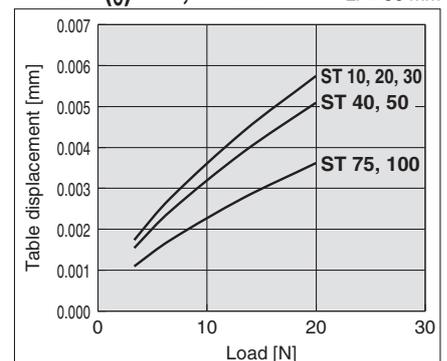


MXQ12(A)_C-□Z, MXQ8B-□Z



MXQ12(A)_C-□Z, MXQ8B-□Z

Lr = 90 mm

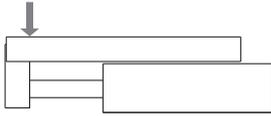


*ST = Stroke

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



MXQ16(A)-□Z, MXQ12B-□Z

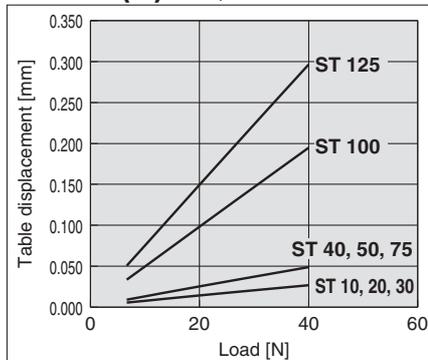
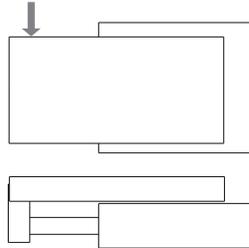


Table displacement due to yaw moment load

Displacement when a load is applied to the part indicated by the arrow for the entire stroke of the air slide table



MXQ16(A)-□Z, MXQ12B-□Z

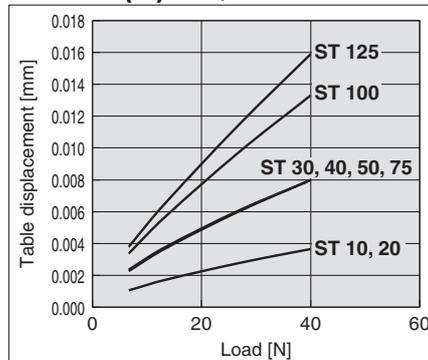
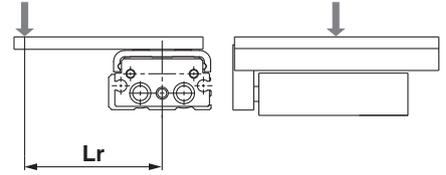
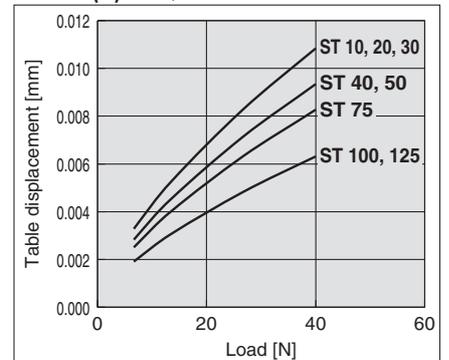


Table displacement due to roll moment load

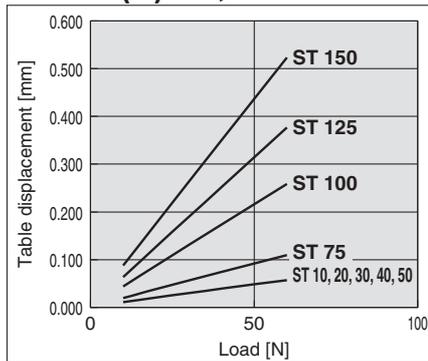
Displacement when a load is applied to the part indicated by the arrow when the air slide table is retracted



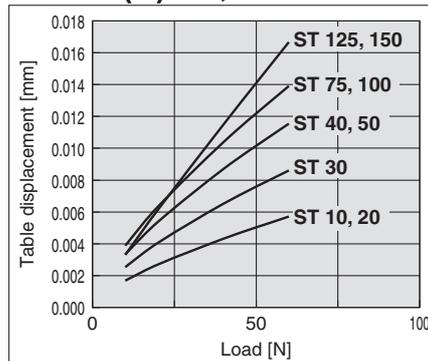
MXQ16(A)-□Z, MXQ12B-□Z Lr = 120 mm



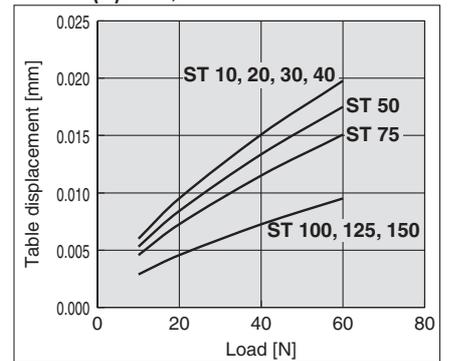
MXQ20(A)-□Z, MXQ16B-□Z



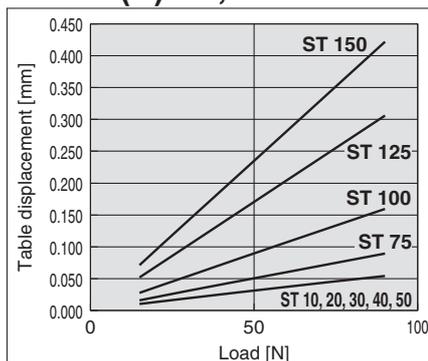
MXQ20(A)-□Z, MXQ16B-□Z



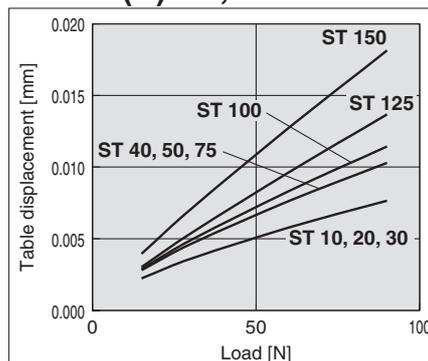
MXQ20(A)-□Z, MXQ16B-□Z Lr = 160 mm



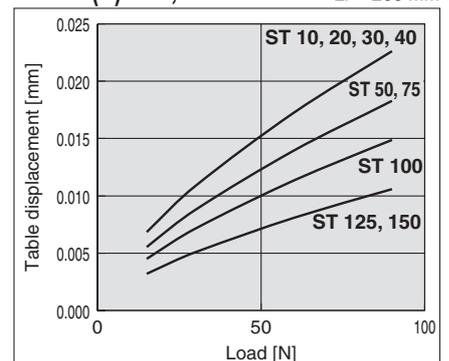
MXQ25(A)-□Z, MXQ20B-□Z



MXQ25(A)-□Z, MXQ20B-□Z



MXQ25(A)-□Z, MXQ20B-□Z Lr = 200 mm



*ST = Stroke

Double ported type
MXQ□A

Low thrust with high rigidity type
MXQ□B

Single side ported type
MXQ□C

Height interchangeable type
MXQ□

Common Adjuster
Options

Auto Switch
Mounting

Made to Order

Model Selection



Series MXQ Specific Product Precautions 1

Be sure to read before handling. Refer to back cover for Safety Instructions, “Handling Precautions for SMC Products” (M-E03-3) and the Operation Manual for Air Preparation Equipment Precautions. Please download it via our website, <http://www.smcworld.com>

Mounting

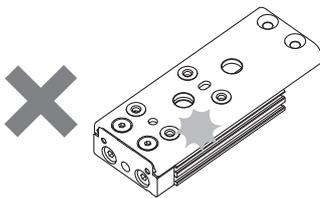
⚠ Caution

1. Do not scratch or dent the mounting surface 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 external forces greater than the allowable moment are 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.

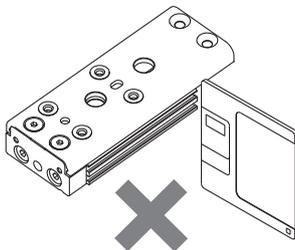
5. Select the proper connection with the loads which have external supports and/or guide mechanisms on the outside, and align it properly.

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 the table section with a magnet.

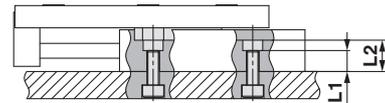
Since the table is made from the magnetic substance, it could become magnetised if it stuck by a magnet etc.

That could cause auto switches etc. to malfunction.

9. When mounting the body, use screws of 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 lead to a detachment.

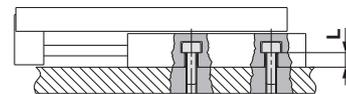
1. Body tapped



⚠ 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

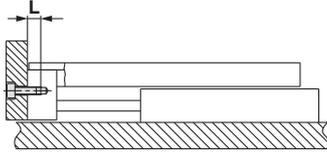
Specific Product Precautions 2

Be sure to read before handling. Refer to back cover for Safety Instructions, “Handling Precautions for SMC Products” (M-E03-3) and the Operation Manual for Air Preparation Equipment Precautions. Please download it via our website, <http://www.smcworld.com>

Mounting

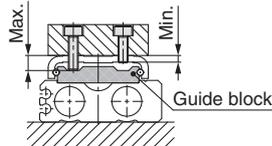
⚠ Caution

3. Front mounting



Model	Bolt	Max. tightening torque [N·m]	Max. screw-in depth L [mm]	
MXQ6(A)	—	M3 x 0.5	0.9	5
MXQ8(A,C)	MXQ6B	M3 x 0.5	0.9	5
MXQ12(A,C)	MXQ8B	M3 x 0.5	0.9	5
MXQ16(A)	MXQ12B	M4 x 0.7	2.1	6
MXQ20(A)	MXQ16B	M5 x 0.8	4.4	7
MXQ25(A)	MXQ20B	M6 x 1	7.4	9

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 cause 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	2.1
MXQ8(A,C)	MXQ6B	M3 x 0.5	1.1	4.1	2.1
MXQ12(A,C)	MXQ8B	M4 x 0.7	2.7	5.7	2.7
MXQ16(A)	MXQ12B	M5 x 0.8	5.4	7.3	3.3
MXQ20(A)	MXQ16B	M5 x 0.8	5.4	7.3	3.3
MXQ25(A)	MXQ20B	M6 x 1	9.2	9	4

10. The positioning hole on the table and on the bottom of the body does not have the same centre. Use these holes during reinstallation after the table has been removed for the maintenance of an identical product.

Operating Environment

⚠ Caution

1. Do not use in the environment, where the product could be exposed to the liquid such as cutting oil etc.

Use in an 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.

2. Do not use in an environment, where the product could be exposed directly to 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 SMC regarding use in this kind of environment.

3. Do not use in direct sunlight.

4. 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.

5. Do not subject it to excessive vibration and/or impact.

Please consult SMC regarding use in this kind of environment, as this can cause damage and malfunction.

Sufficient strength is of 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.

6. Be careful of the anti-corrosiveness 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.

Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of “Caution,” “Warning” or “Danger.” They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.

-  **Caution:** Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
-  **Warning:** Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
-  **Danger:** Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

- *1) ISO 4414: Pneumatic fluid power – General rules relating to systems.
- ISO 4413: Hydraulic fluid power – General rules relating to systems.
- IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)
- ISO 10218-1: Manipulating industrial robots - Safety. etc.

Warning

- 1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.**
Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.
- 2. Only personnel with appropriate training should operate machinery and equipment.**
The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.
- 3. Do not service or attempt to remove product and machinery/equipment until safety is confirmed.**
 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.**
 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalogue.
 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

Limited warranty and Disclaimer/ Compliance Requirements

The product used is subject to the following “Limited warranty and Disclaimer” and “Compliance Requirements”.
Read and accept them before using the product.

Limited warranty and Disclaimer

1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.*2)
Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.

*2) Vacuum pads are excluded from this 1 year warranty.

A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Caution

- 1. The product is provided for use in manufacturing industries.**
The product herein described is basically provided for peaceful use in manufacturing industries.
If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary.
If anything is unclear, contact your nearest sales branch.

Caution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

Safety Instructions

Be sure to read “Handling Precautions for SMC Products” (M-E03-3) before using.

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