

Air Slide Table

Series MXQ

ø6, ø8, ø12, ø16, ø20, ø25

How to Order

MXQ 12 **50** **AS** **FR** **M9BW**

Port thread type

Nil	M thread	ø6 to ø16
TN	Rc	
TF	NPT	ø20, ø25
	G	

Symmetric type

Nil	Standard type
L	Symmetric type

Bore size/Stroke (mm)

ø6	10, 20, 30, 40, 50
ø8	10, 20, 30, 40, 50, 75
ø12	10, 20, 30, 40, 50, 75, 100
ø16	10, 20, 30, 40, 50, 75, 100, 125
ø20	10, 20, 30, 40, 50, 75, 100, 125, 150
ø25	10, 20, 30, 40, 50, 75, 100, 125, 150

Functional option

Nil	Standard type
F	With buffer
R ⁽²⁾	With end lock
P	Axial piping type
FR ⁽²⁾	With buffer and end lock
FP	With buffer, Axial piping type

Note 2) W/ end lock is not available in Series MXQ6.

Number of auto switches

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

Auto switch

Nil	Without auto switch (Built-in magnet)
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* For the applicable auto switch model, refer to the table below.
* For the applicable auto switch to buffer, refer to page 95. It requires to order separately.

Adjuster option

Nil	Without adjuster
AS	Extension end adjuster
AT	Retraction end adjuster
A	Double end adjuster
BS ⁽¹⁾	Extension end absorber
BT ⁽¹⁾	Retraction end absorber
B ⁽¹⁾	Double absorber
CS	Extension end metal stopper
CT	Retraction end metal stopper
C	Double metal stopper
ASBT ⁽¹⁾	Extension end adjuster + Retraction end absorber
ASCT	Extension end adjuster + Retraction end metal stopper
BSAT ⁽¹⁾	Extension end absorber + Retraction end adjuster
BSCT ⁽¹⁾	Extension end absorber + Retraction end metal stopper
CSAT	Extension end metal stopper + Retraction end adjuster
CSBT ⁽¹⁾	Extension end metal stopper + Retraction end absorber

Note 1) W/ shock absorber is not available in Series MXQ6.

Option Combinations

Adjuster option	Functional option	Nil	F	R	P	FR	FP
Nil		○	○	○	○	○	○
AS		○	○ ⁽³⁾	○	○	○ ⁽³⁾	○ ⁽³⁾
AT		○	○	x	x	x	x
A		○	○ ⁽³⁾	x	x	x	x
BS		○	x	○	○	x	x
BT		○	○	x	x	x	x
B		○	x	x	x	x	x
CS		○	○ ⁽³⁾	○	○	○ ⁽³⁾	○ ⁽³⁾
CT		○	○	x	x	x	x
C		○	○ ⁽³⁾	x	x	x	x
ASBT		○	○ ⁽³⁾	x	x	x	x
ASCT		○	○ ⁽³⁾	x	x	x	x
BSAT		○	x	x	x	x	x
BSCT		○	x	x	x	x	x
CSAT		○	○ ⁽³⁾	x	x	x	x
CSBT		○	○ ⁽³⁾	x	x	x	x

○ : Available, x : Not available

Note 3) With the combination of buffer mechanism and extension end stroke adjuster, the buffer stroke decreases by the amount of stroke adjusted with the extension end stroke adjuster.

Applicable Auto Switch/Refer to pages 1719 to 1827 for the detailed specifications of auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m)				Pre-wired connector	Applicable load								
					DC		AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)		5 (Z)	IC circuit	Relay, PLC						
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○			IC circuit	Relay, PLC				
	Diagnostic indication (2-color indication)			3-wire (PNP)				M9PV	M9P	●	●	●	○		○							
				2-wire				M9BV	M9B	●	●	●	○		○							
				3-wire (NPN)				M9NWV	M9NW	●	●	●	○		○							
				3-wire (PNP)				M9PWV	M9PW	●	●	●	○		○							
				2-wire				M9BWV	M9BW	●	●	●	○		○							
Reed switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5 V	—	A96V	A96	●	—	●	—	—	IC circuit	—						
	No			2-wire				24 V	12 V	100 V	A93V	A93	●				—	●	—	—	—	Relay, PLC
										100 V or less	A90V	A90	●				—	●	—	—		

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

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

* Since there are other applicable auto switches than listed, refer to page 128 for details.
* For details about auto switches with pre-wired connector, refer to pages 1784 and 1785.
* Auto switches are shipped together (not assembled).



Made to Order Specifications

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

Symbol	Specifications
-X7	PTFE grease
-X9	Grease for food
-X11	Adjusting bolt, long specification (Adjustment range: 15 mm)
-X12	Adjusting bolt, long specification (Adjustment range: 25 mm)
-X16	Heat treated metal stopper bolt (Adjustment range: 5 mm)
-X17	Heat treated metal stopper bolt (Adjustment range: 15 mm)
-X18	Heat treated metal stopper bolt (Adjustment range: 25 mm)
-X33	Without built-in auto switch magnet
-X39	Fluororubber seals
-X42	Anti-corrosive specifications for guide section
-X45	EPDM seals

For clean room specifications, refer to "Pneumatic Clean Series" catalog.

Specifications

Bore size (mm)	6	8	12	16	20	25	
Piping port size	M5 x 0.8				Rc 1/8, NPT 1/8, G 1/8		
Fluid	Air						
Action	Double acting						
Operating pressure	0.15 to 0.7 MPa						
Proof pressure	1.05 MPa						
Ambient and fluid temperature	−10 to 60°C						
Piston speed	50 to 500 mm/s (Adjuster option/Metal stopper: 50 to 200 mm/s)						
Cushion	Rubber bumper (Standard, Adjuster option/Rubber stopper) Shock absorber (Adjuster option/Shock absorber) None (Adjuster option/Metal stopper)						
Lubrication	Non-lube						
Auto switch	Reed auto switch (2-wire, 3-wire) Solid state auto switch (2-wire, 3-wire) 2-color indication solid state auto switch (2-wire, 3-wire)						
Stroke length tolerance	$\begin{smallmatrix} +1 \\ 0 \end{smallmatrix}$ mm						

Option

Adjuster option	Rubber stopper	Extension end (AS)	Stroke adjustment range 0 to 5 mm
		Retraction end (AT)	
		Both ends (A)	
	Shock absorber	Extension end (BS)	W/ shock absorber is not available in Series MXQ6.
		Retraction end (BT)	
		Both ends (B)	
	Metal stopper	Extension end (CS)	Stroke adjustment range 0 to 5 mm
		Retraction end (CT)	
		Both ends (C)	
Functional option	With buffer (F)		W/ end lock is not available in Series MXQ6.
	With end lock (R)		
	Axial piping type (P)		



* For details of adjuster and functional option, refer to pages 94 and 95 in "Option Specifications".

Standard Stroke

Model	Standard stroke (mm)
MXQ 6	10, 20, 30, 40, 50
MXQ 8	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

MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS

D-□

-X□

Individual
-X□

Series MXQ

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	8	OUT	402	80	121	161	201	241	281
		IN	302	60	91	121	151	181	211
20	10	OUT	628	126	188	251	314	377	440
		IN	471	94	141	188	236	283	330
25	12	OUT	982	196	295	393	491	589	687
		IN	756	151	227	302	378	454	529

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

Mass

(g)

Model	Standard stroke (mm)									Additional weight of adjuster option						Extra for option		
	10	20	30	40	50	75	100	125	150	Rubber stopper		Shock absorber		Metal stopper		With buffer	With end lock	Axial piping type (S: Stroke (mm))
MXQ 6	100	120	140	180	200	—	—	—	—	6	5	—	—	10	5	25	—	13 + 0.2 S
MXQ 8	140	170	210	250	315	385	—	—	—	10	10	30	23	23	10	35	40	26 + 0.2 S
MXQ12	335	340	380	450	490	655	745	—	—	25	23	47	30	35	23	70	100	43 + 0.2 S
MXQ16	605	610	670	735	835	1000	1250	1400	—	45	40	75	53	60	40	105	160	55 + 0.2 S
MXQ20	1100	1100	1100	1200	1400	1750	2350	2650	2900	80	65	170	120	115	65	130	310	166 + 0.5 S
MXQ25	1750	1750	1750	1950	2400	2750	3450	4300	4700	130	110	220	140	180	110	200	560	240 + 0.5 S

Option Specifications

Stroke Adjustment Range of Adjuster Option (Identical for extension and retraction ends)

Type	Stroke adjustment range
Rubber stopper	0 to 5 mm
With shock absorber	Refer to the dimensions on page 124.
Metal stopper	0 to 5 mm

* Optional wide adjustment range adjuster are available with rubber stopper and metal stopper.

How to Order Stroke Adjuster (Accessory)

MXQ—AS 12 L—X11

Adjuster option

AS	Rubber stopper	Extension end
AT	stopper	Retraction end
BS	Shock absorber	Extension end
BT	absorber	Retraction end
CS	Metal stopper	Extension end
CT	stopper	Retraction end

Symmetric type

Nil	Standard type
L	Symmetric type

Applicable bore size

6	ø6
8	ø8
12	ø12
16	ø16
20	ø20
25	ø25



Adjustment range

Nil	5 mm	Standard
-X11	15 mm	Option
-X12	25 mm	

Note 1) -X12 (adjusting range: 25 mm) is not available in Series MXQ6.

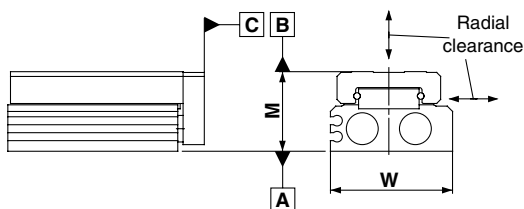
Note 2) -X11 and -X12 are not available with shock absorber.

Note 3) W/ Shock absorber is not available in Series MXQ6.

Note 4) For dimensions, refer to pages 122 to 126.

For the symmetric type, refer to the external dimensions symmetrically. (Symmetric type is what the direction of the adjusting bolt is reversed.)

Table Accuracy



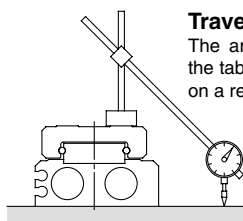
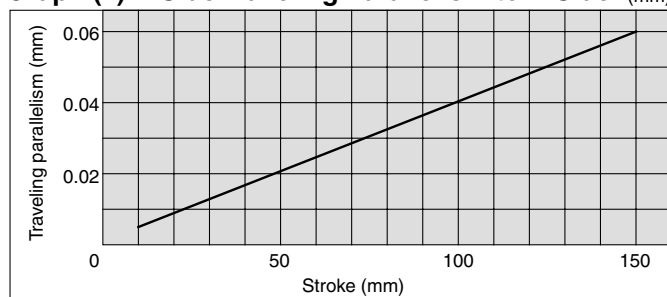
Model	MXQ6	MXQ8	MXQ12	MXQ16	MXQ20	MXQ25
B side parallelism to A side	Refer to Table (1).					
B side traveling parallelism to A side	Refer to Graph (1).					
C side perpendicularity to A side	0.05 mm					
M dimension tolerance	± 0.08 mm (± 0.1 mm) *1					
W dimension tolerance	± 0.1 mm					
Radial internal clearance (μ m)	-4 to 0	-4 to 0	-6 to 0	-10 to 0	-12 to 0	-14 to 0

*1) ± 0.1 mm for 75 mm or longer stroke

Table (1) B Side Parallelism to A Side (mm)

Model	Stroke (mm)									
	10	20	30	40	50	75	100	125	150	
MXQ 6	0.025	0.03	0.035	0.04	0.045	—	—	—	—	
MXQ 8	0.025	0.03	0.035	0.04	0.055	0.065	—	—	—	
MXQ12	0.03	0.03	0.035	0.04	0.045	0.065	0.075	—	—	
MXQ16	0.035	0.035	0.04	0.045	0.05	0.065	0.08	0.095	—	
MXQ20	0.04	0.04	0.04	0.045	0.055	0.07	0.095	0.105	0.125	
MXQ25	0.045	0.045	0.045	0.05	0.06	0.07	0.09	0.115	0.125	

Graph (1) B Side Traveling Parallelism to A Side (mm)



Traveling parallelism:

The amount of deflection on a dial gauge when the table travels a full stroke with the body secured on a reference base surface.

Shock Absorber Specifications

Shock absorber model		RB0805	RB0806	RB1007	RB1411	RB1412
Applicable slide table		MXQ8	MXQ12	MXQ16	MXQ20	MXQ25
Max. energy absorption (J)		0.98	2.94	5.88	14.7	19.6
Stroke absorption (mm)		5	6	7	11	12
Max. collision speed (mm/s)		50 to 500				
Max. operating frequency (cycle/min)		80	80	70	45	45
Max. allowable thrust (N)		245	245	422	814	814
Ambient temperature range (°C)		-10 to 60				
Spring force (N)	Extended	1.96	1.96	4.22	6.86	6.86
	Retracted	3.83	4.22	6.86	15.30	15.98
Mass (g)		15	15	25	65	65

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



With End Lock Specifications

Model	MXQ8	MXQ12	MXQ16	MXQ20	MXQ25
Bore size (mm)	8	12	16	20	25
Piston speed	50 to 500 mm/s				
Holding force (N)	25	60	110	160	250

Note) For caution on end lock, refer to page 132.



Buffer Mechanism Specifications

Model		MXQ6	MXQ8	MXQ12	MXQ16	MXQ20	MXQ25
Bore size (mm)		6	8	12	16	20	25
Piston speed		50 to 500 mm/s (Horizontal mounting 50 to 300 mm/s)					
Buffer stroke (mm)		5		10			
Buffer stroke load (N)	Stroke at 0 (mm)	3	5	10	13	17	21
	Maximum stroke	6	8	13	17	25	29



Note 1) For caution on handling the one with buffer mechanism, refer to page 132.

Note 2) The buffer stroke decreases by the amount of stroke adjusted with the extension end stroke adjuster.

Applicable Auto Switch to Buffer

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

* The auto switch for buffer must be ordered separately.

MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS

D-□

-X□

Individual
-X□

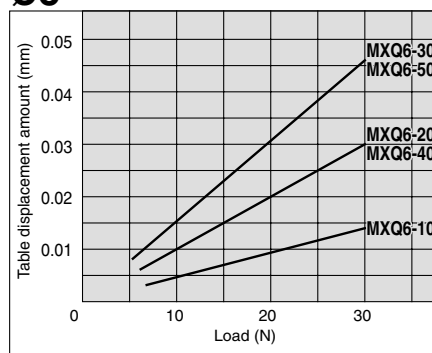
Table Deflection (Reference Values)

Table displacement due to pitch moment load

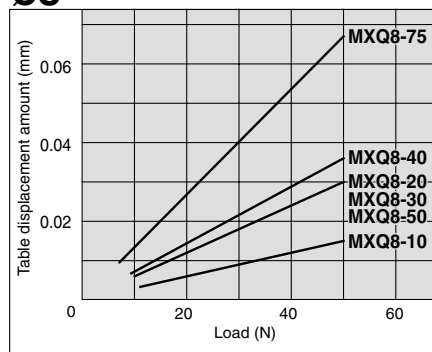
Table displacement when loads are applied to the section marked with the arrow at the full stroke.



ø6



ø8



ø12

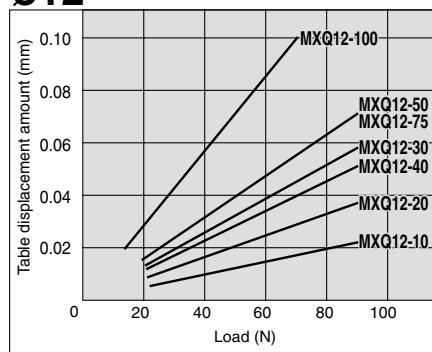
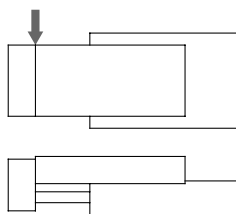
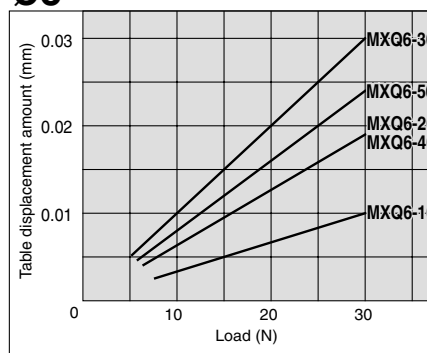


Table displacement due to yaw moment load

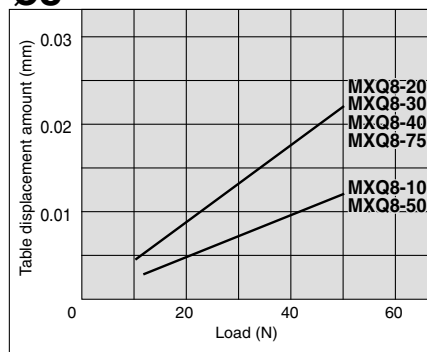
Table displacement when loads are applied to the section marked with the arrow at the full stroke.



ø6



ø8



ø12

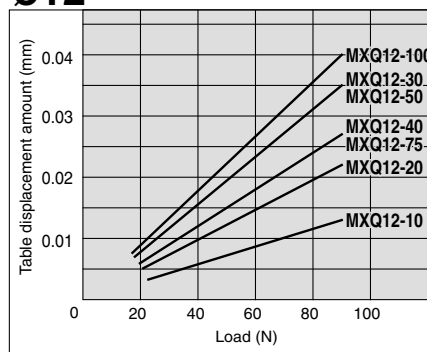
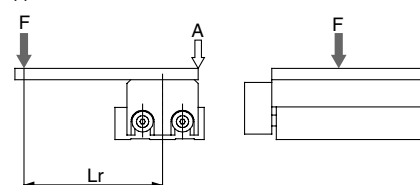
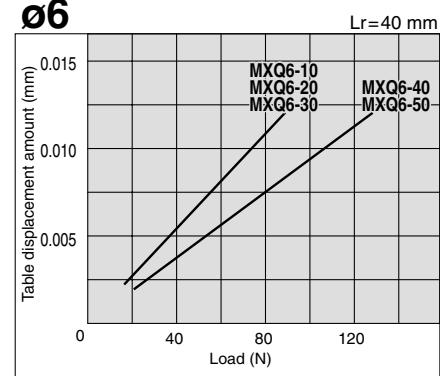


Table displacement due to roll moment load

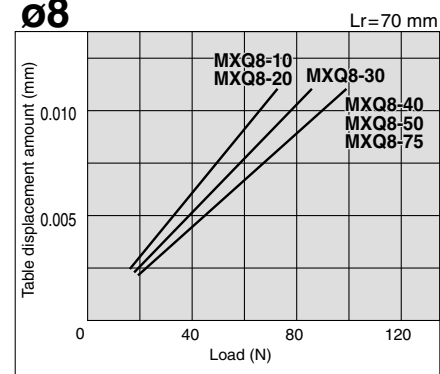
Table displacement of section A when loads are applied to the section F with the slide table retracted.



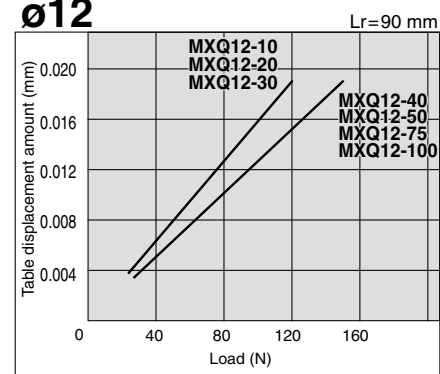
ø6



ø8



ø12



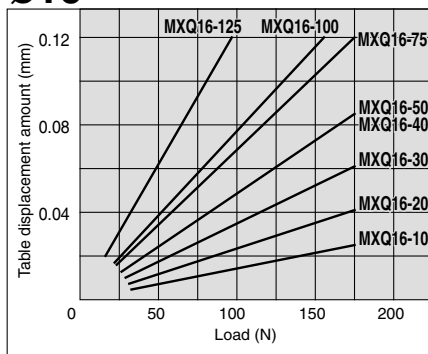
The graphs below show the table displacement when the static moment load is applied to the table. The graphs do not show the loadable mass. Refer to the Model Selection for the loadable mass.

Table displacement due to pitch moment load

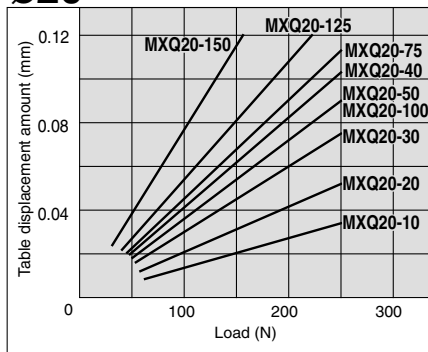
Table displacement when loads are applied to the section marked with the arrow at the full stroke.



ø16



ø20



ø25

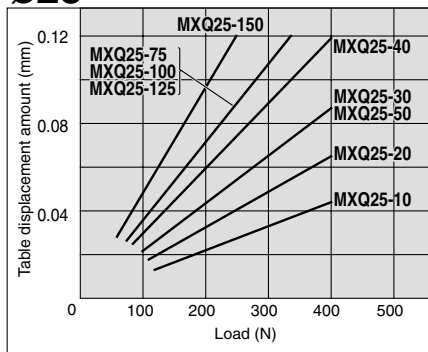
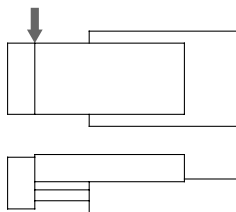
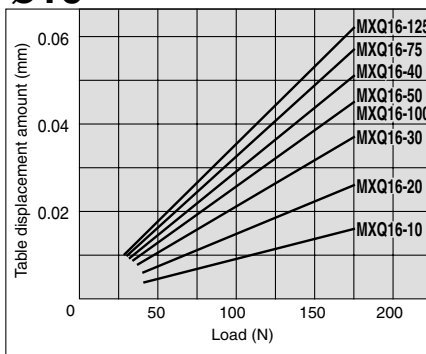


Table displacement due to yaw moment load

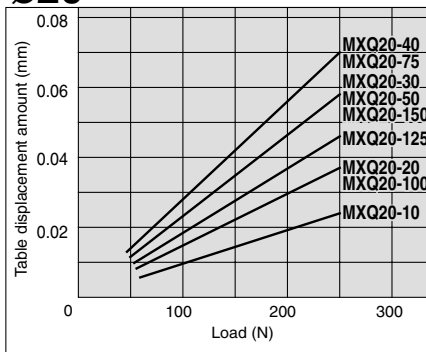
Table displacement when loads are applied to the section marked with the arrow at the full stroke.



ø16



ø20



ø25

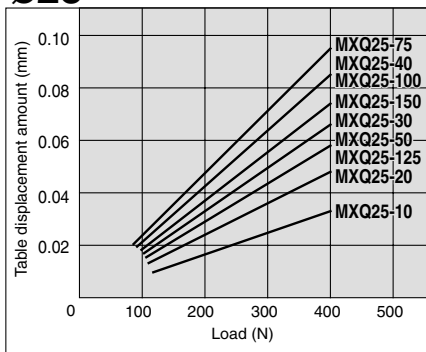
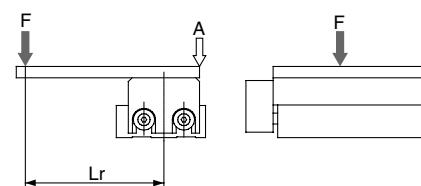
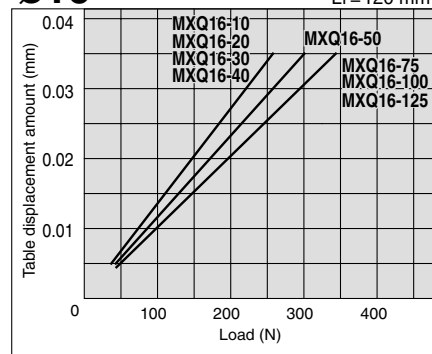


Table displacement due to roll moment load

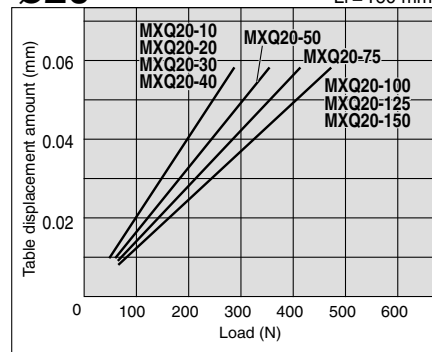
Table displacement of section A when loads are applied to the section F with the slide table retracted.



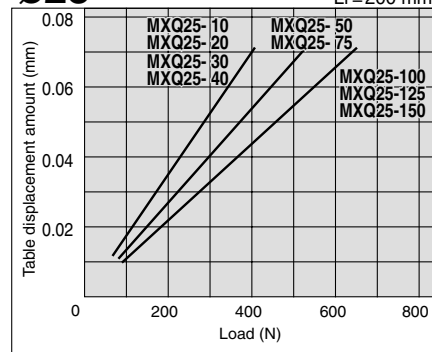
ø16



ø20



ø25



MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS

D-□

-X□

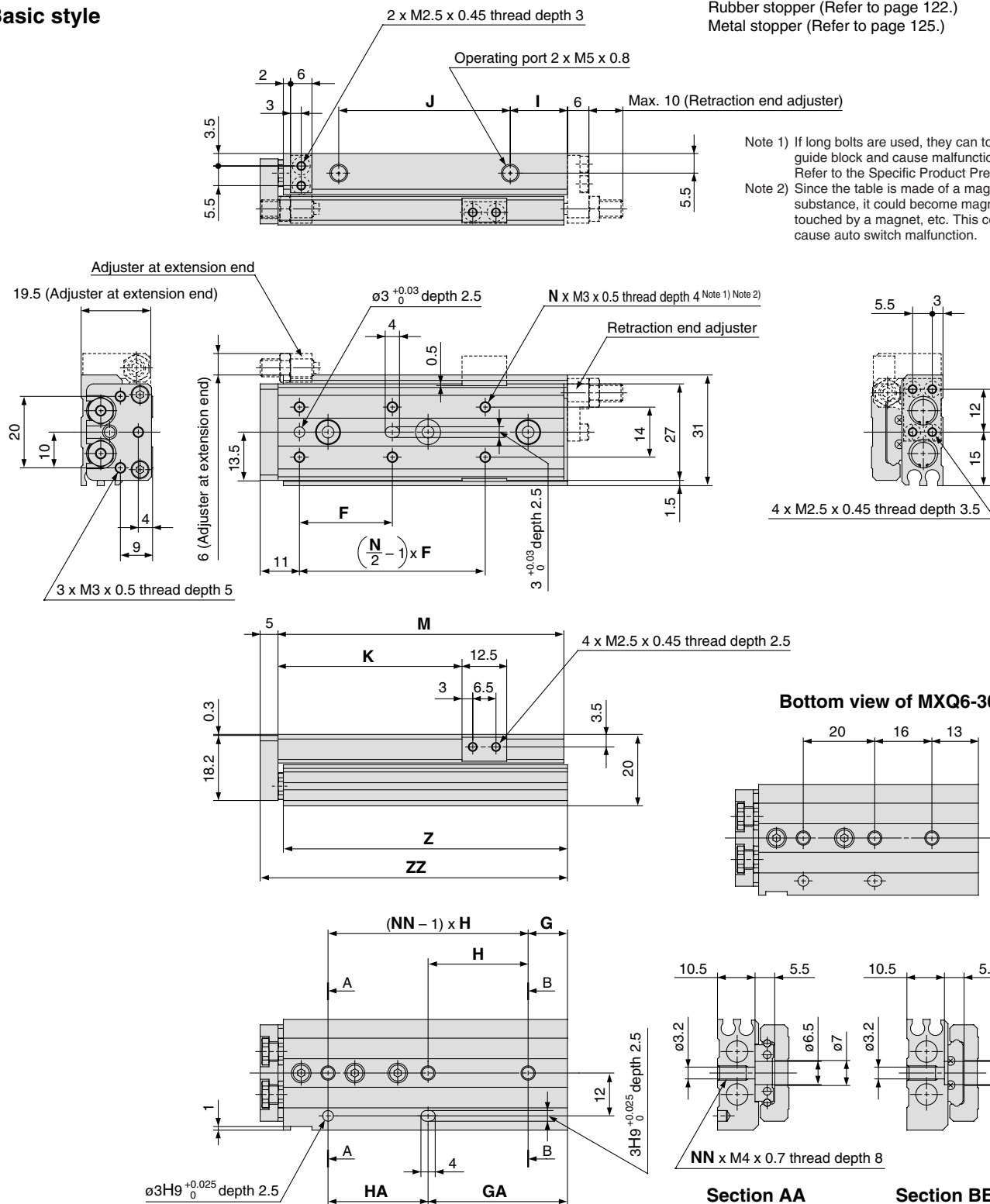
Individual
-X□

Series MXQ

Dimensions: MXQ6

* For detailed dimensions about the stroke adjuster, refer to the option for the stroke adjuster.
Rubber stopper (Refer to page 122.)
Metal stopper (Refer to page 125.)

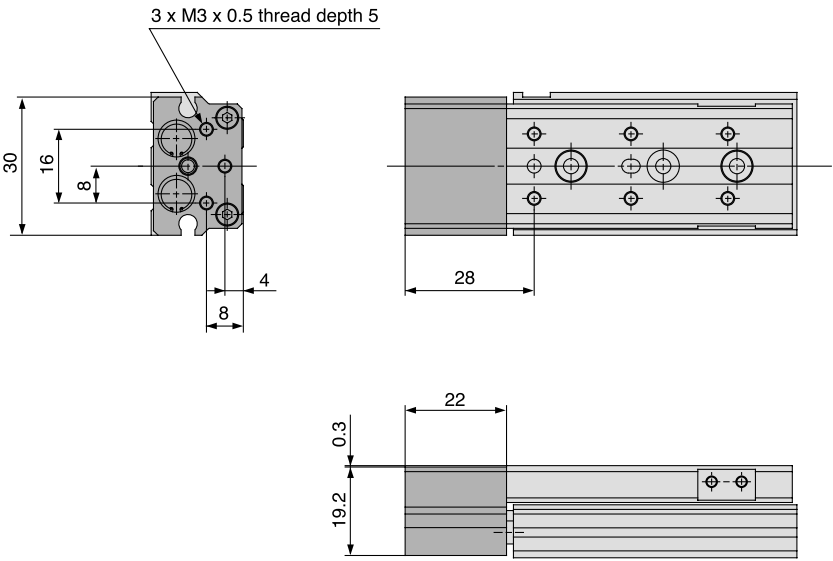
Basic style



Model	F	N	G	H	NN	GA	HA	I	J	K	M	Z	ZZ
MXQ6-10	22	4	6	23	2	13	16	9	17	21.5	42	41.5	48
MXQ6-20	25	4	13	26	2	13	26	9	27	31.5	52	51.5	58
MXQ6-30	21	6	Note)	Note)	3	29	20	9	37	41.5	62	61.5	68
MXQ6-40	26	6	11	28	3	39	28	16	48	51.5	80	79.5	86
MXQ6-50	27	6	21	28	3	49	28	9	65	61.5	90	89.5	96

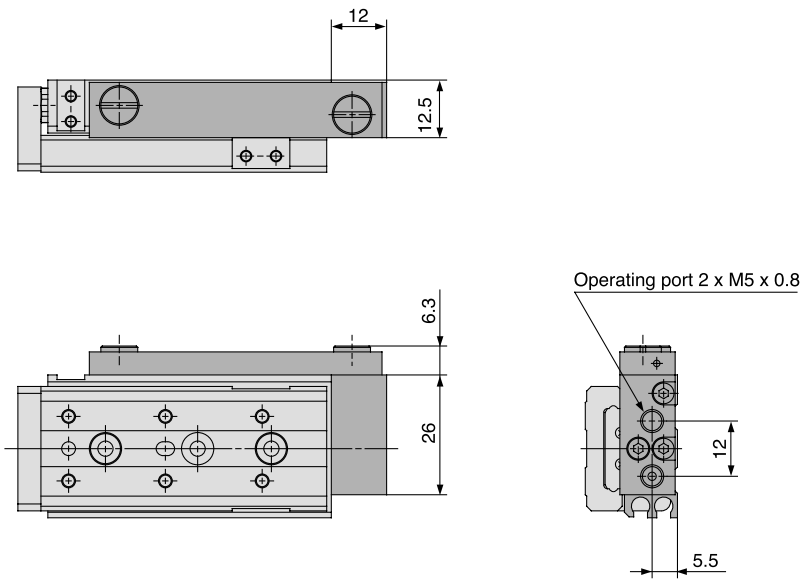
Note) Refer to the bottom view of MXQ6-30.

With buffer (ø6): MXQ6-□□F



* Other dimensions are the same as basic style.

Axial piping type (ø6): MXQ6-□□P



* Other dimensions are the same as basic style.

MXH
MXU
MXS
MXQ
MXF
MXW
MXJ
MXP
MXY
MTS

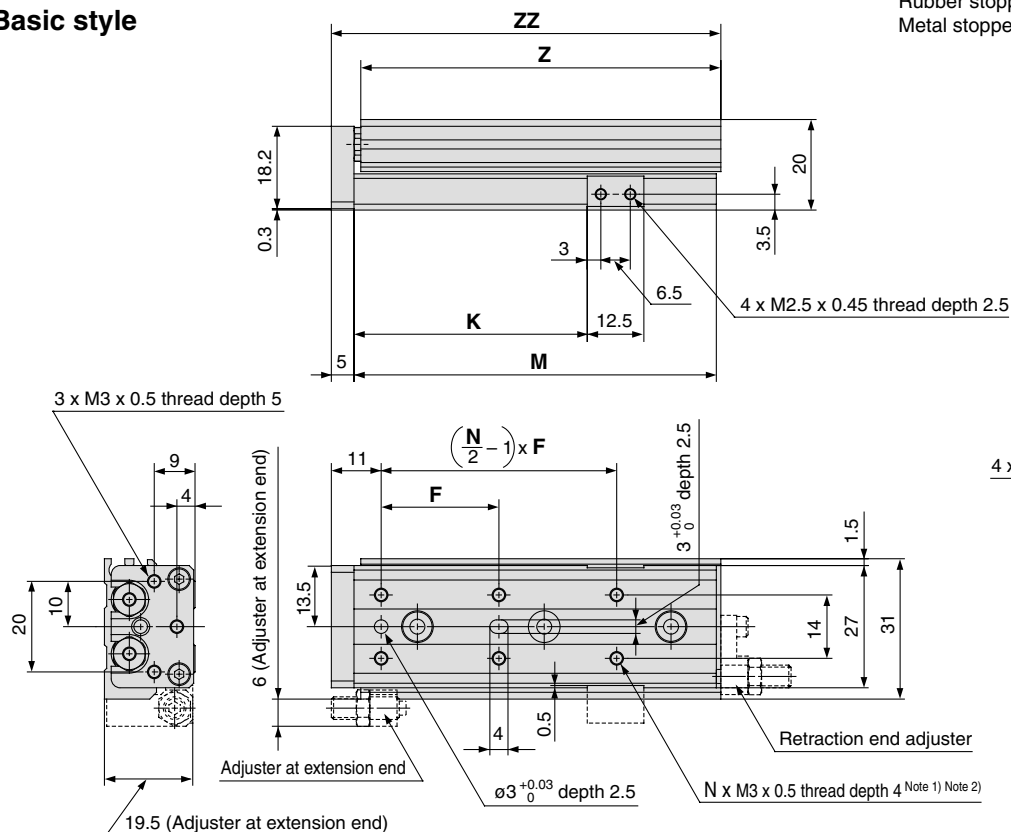
D-□
-X□
Individual -X□

Series MXQ

Dimensions: MXQ6L/Symmetric Type

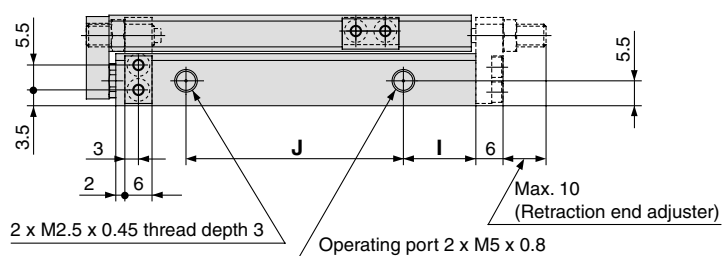
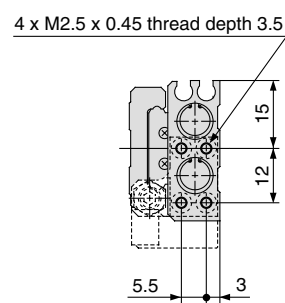
Basic style

* For detailed dimensions about the stroke adjuster,
refer to the option for the stroke adjuster.
Rubber stopper (Refer to page 122.)
Metal stopper (Refer to page 125.)

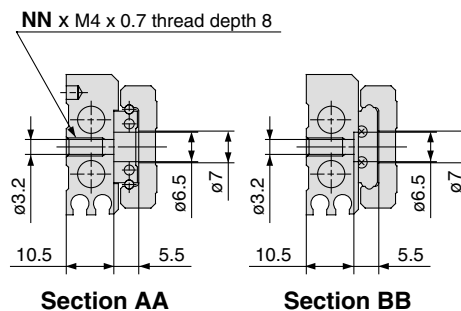
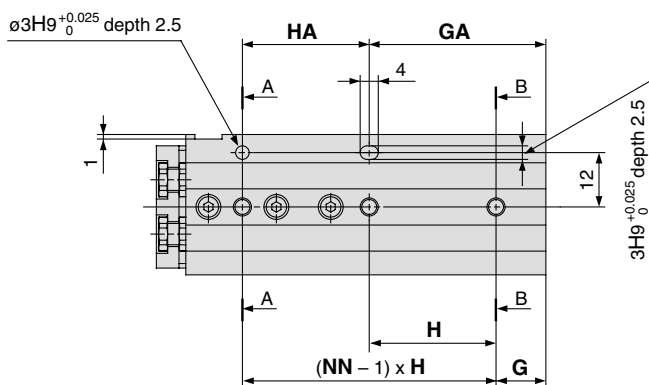
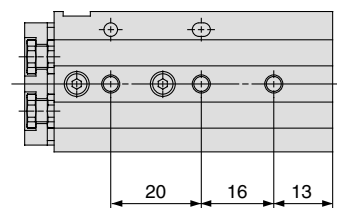


Note 1) If long bolts are used, they can touch the guide block and cause malfunction, etc. Refer to the Specific Product Precautions.

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



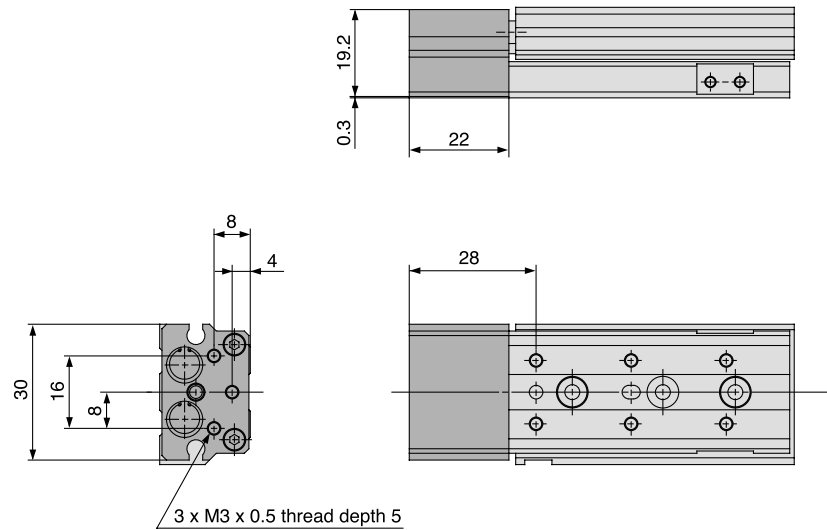
Bottom view of MXQ6L-30



Model	F	N	G	H	NN	GA	HA	I	J	K	M	Z	ZZ
MXQ6L-10	22	4	6	23	2	13	16	9	17	21.5	42	41.5	48
MXQ6L-20	25	4	13	26	2	13	26	9	27	31.5	52	51.5	58
MXQ6L-30	21	6	Note)	Note)	3	29	20	9	37	41.5	62	61.5	68
MXQ6L-40	26	6	11	28	3	39	28	16	48	51.5	80	79.5	86
MXQ6L-50	27	6	21	28	3	49	28	9	65	61.5	90	89.5	96

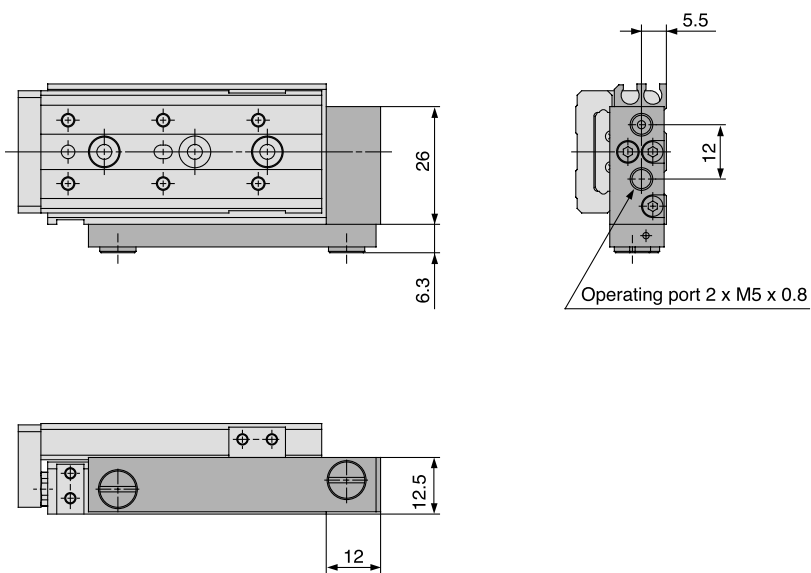
Note) Refer to the bottom view of MXQ6L-30.

With buffer (ø6): MXQ6L-□□F



* Other dimensions are the same as basic style.

Axial piping type (ø6): MXQ6L-□□P



* Other dimensions are the same as basic style.

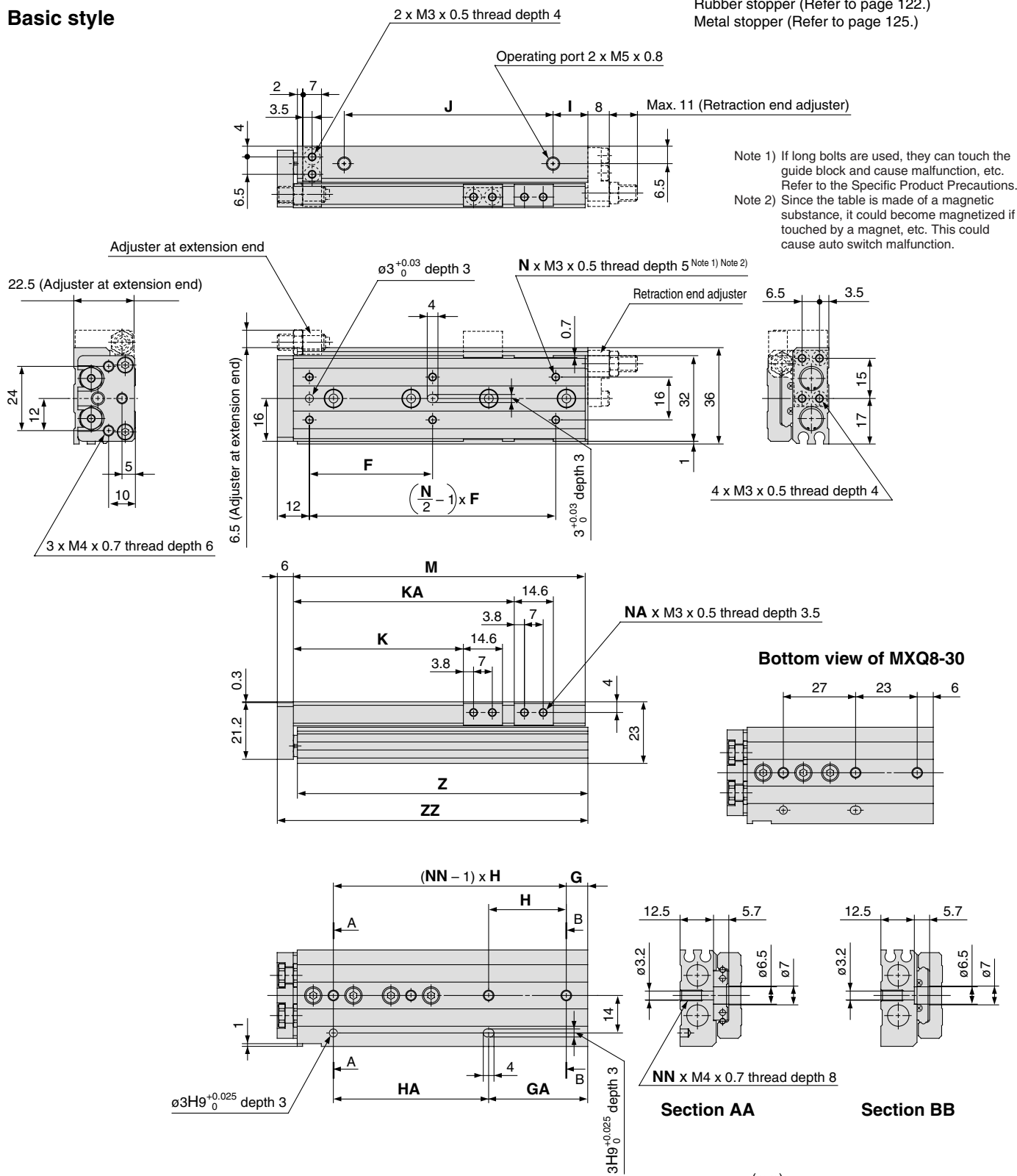
MXH
MXU
MXS
MXQ
MXF
MXW
MXJ
MXP
MXY
MTS

D-□
-X□
Individual -X□

Dimensions: MXQ8

Basic style

* For detailed dimensions about the stroke adjuster, refer to the option for the stroke adjuster.
Rubber stopper (Refer to page 122.)
Metal stopper (Refer to page 125.)



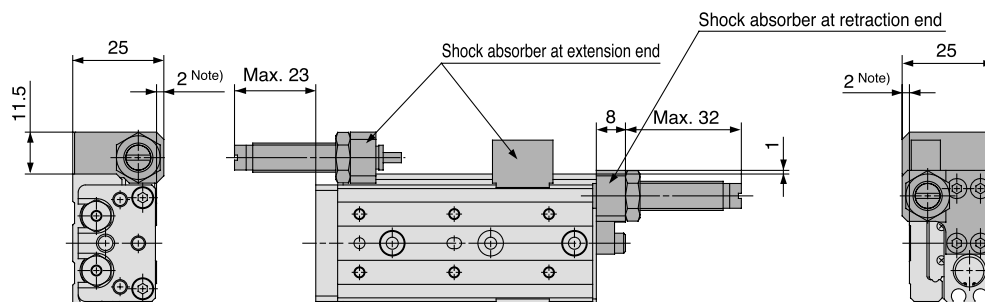
Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
MXQ8-10	25	4	7	25	2	13	19	11	17	23.5	—	4	46	45.5	53
MXQ8-20	25	4	14	28	2	14	28	10	28	33.5	—	4	56	55.5	63
MXQ8-30	26	6	(Note)	(Note)	3	29	27	12	40	43.5	—	4	70	69.5	77
MXQ8-40	32	6	8	31	3	39	31	14	52	53.5	—	4	84	83.5	91
MXQ8-50	46	6	8	29	4	37	58	13	78	63.5	82.5	8	109	108.5	116
MXQ8-75	50	6	31	30	4	61	60	12	105	88.5	112.5	8	135	134.5	142

Note) Refer to the bottom view of MXQ8-30.

With shock absorber (ø8): MXQ8-□□BS/BT/B

Stroke Adjustable Range (mm)

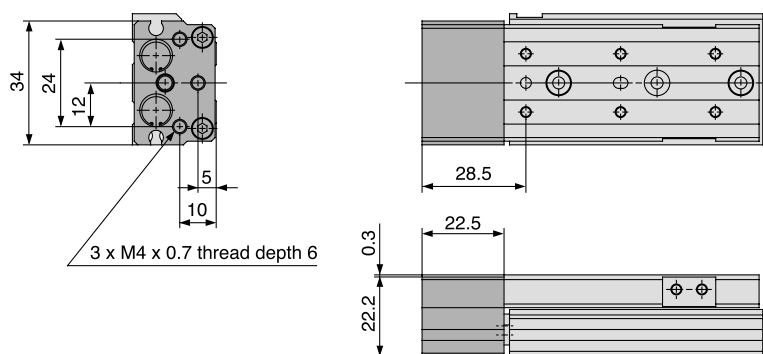
Extension end	Retraction end
20	20



* Other dimensions are the same as basic style.

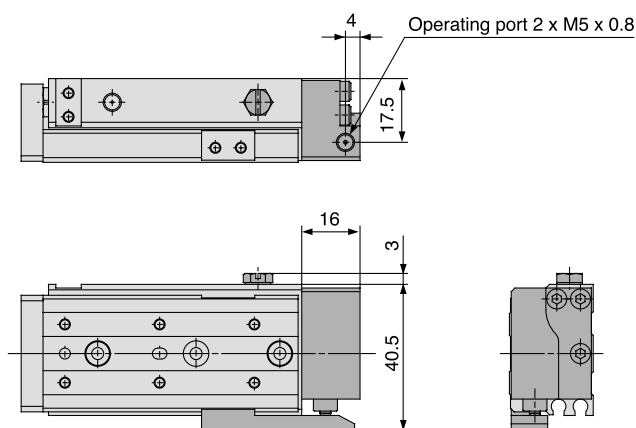
Note) Note that the top of the shock absorber unit will be higher than that of the table.

With buffer (ø8): MXQ8-□□F



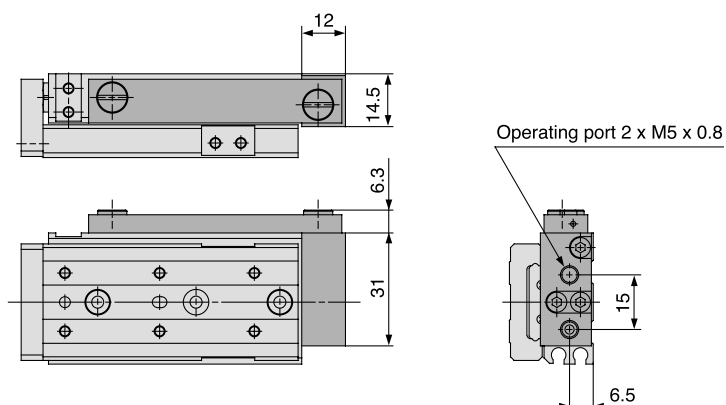
* Other dimensions are the same as basic style.

With end lock (ø8): MXQ8-□□R



* Other dimensions are the same as basic style.

Axial piping type (ø8): MXQ8-□□P



* Other dimensions are the same as basic style.

MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS

D-□

-X□

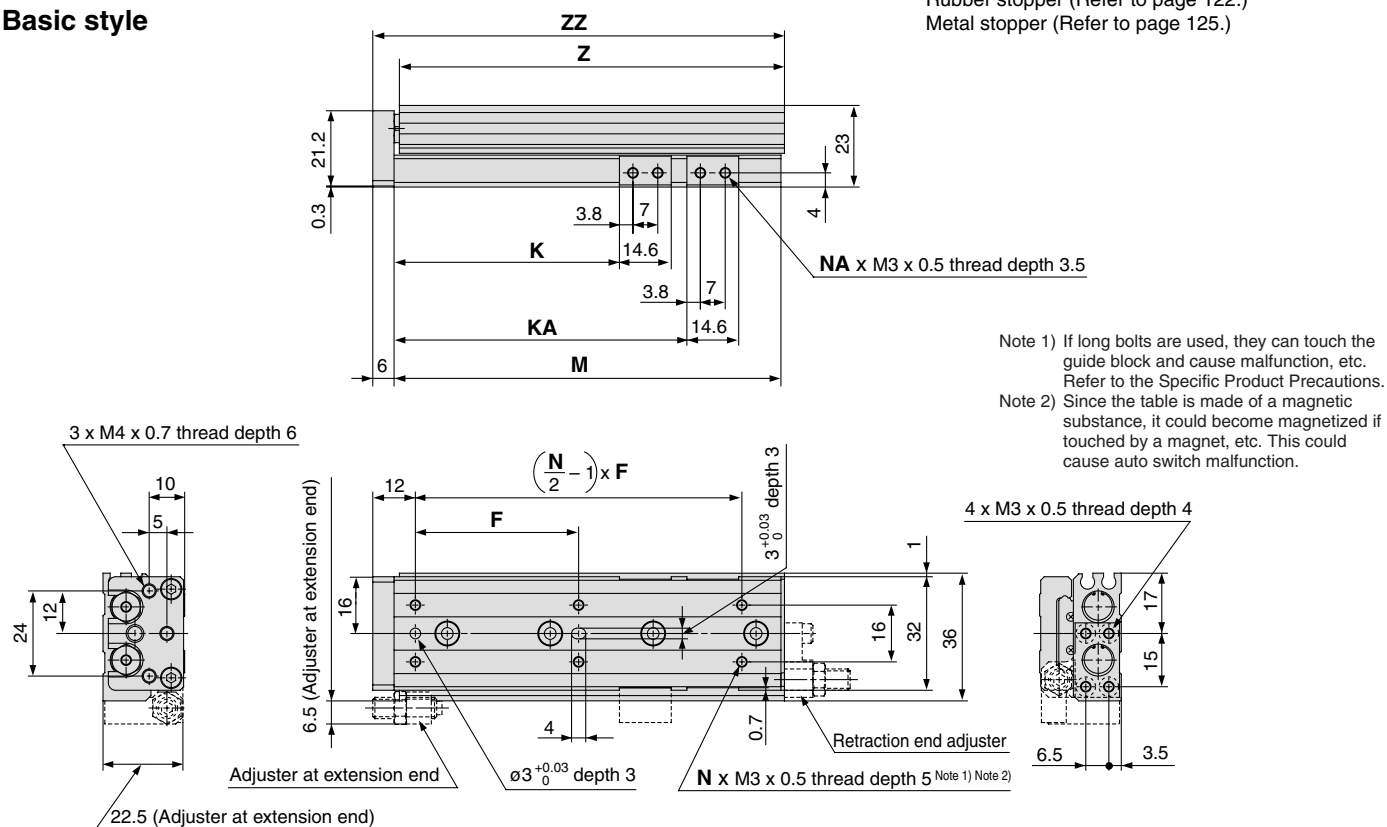
Individual

-X□

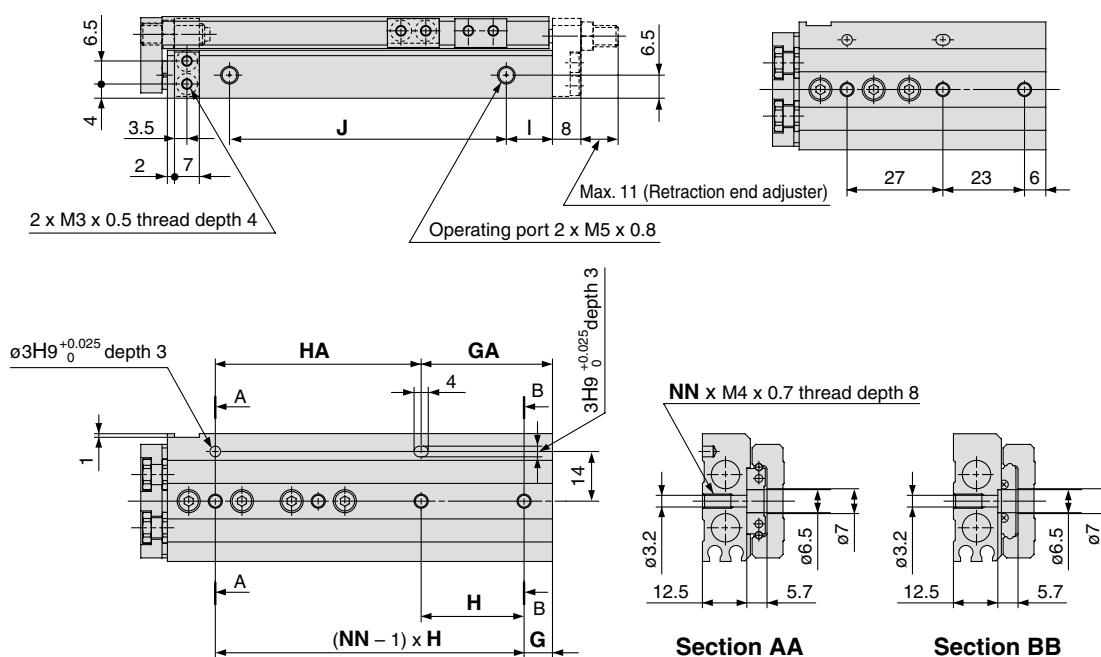
Dimensions: MXQ8L/Symmetric Type

Basic style

* For detailed dimensions about the stroke adjuster, refer to the option for the stroke adjuster.
Rubber stopper (Refer to page 122.)
Metal stopper (Refer to page 125.)



Bottom view of MXQ8L-30



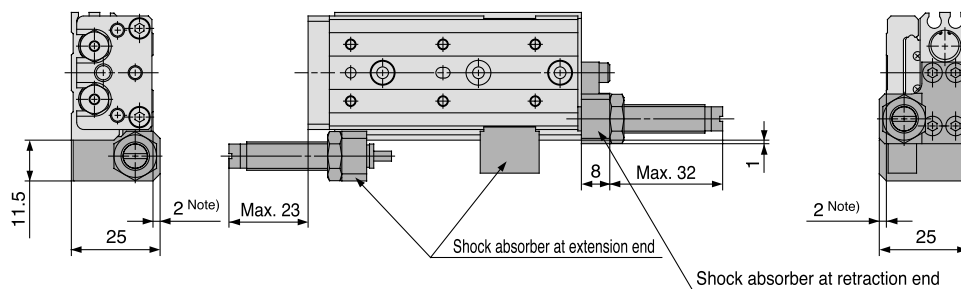
Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
MXQ8L-10	25	4	7	25	2	13	19	11	17	23.5	—	4	46	45.5	53
MXQ8L-20	25	4	14	28	2	14	28	10	28	33.5	—	4	56	55.5	63
MXQ8L-30	26	6	Note)	Note)	3	29	27	12	40	43.5	—	4	70	69.5	77
MXQ8L-40	32	6	8	31	3	39	31	14	52	53.5	—	4	84	83.5	91
MXQ8L-50	46	6	8	29	4	37	58	13	78	63.5	82.5	8	109	108.5	116
MXQ8L-75	50	6	31	30	4	61	60	12	105	88.5	112.5	8	135	134.5	142

Note) Refer to the bottom view of MXQ8L-30.

With shock absorber (ø8): MXQ8L-□□BS/BT/B

Stroke Adjustable Range (mm)

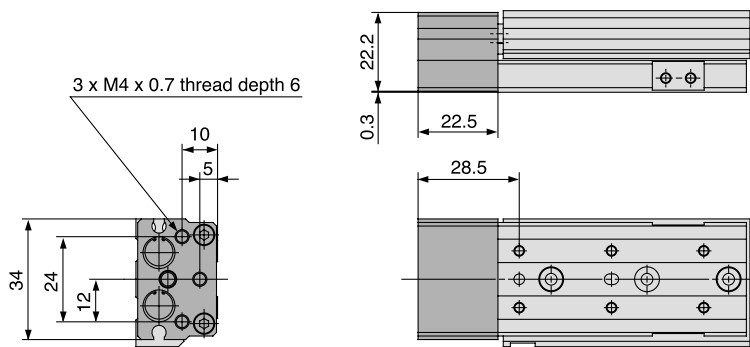
Extension end	Retraction end
20	20



* Other dimensions are the same as basic style

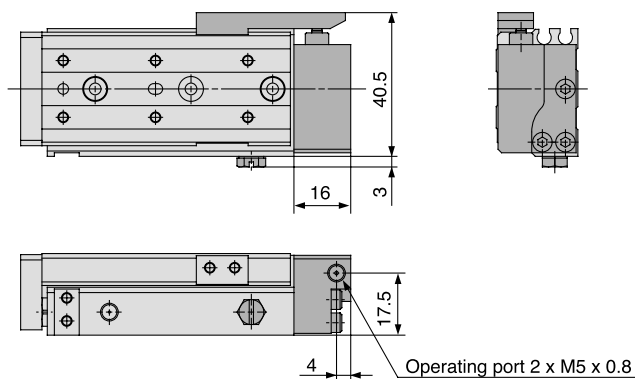
Note) Note that the top of the shock absorber unit will be higher than that of the table.

With buffer (ø8): MXQ8L-□□F



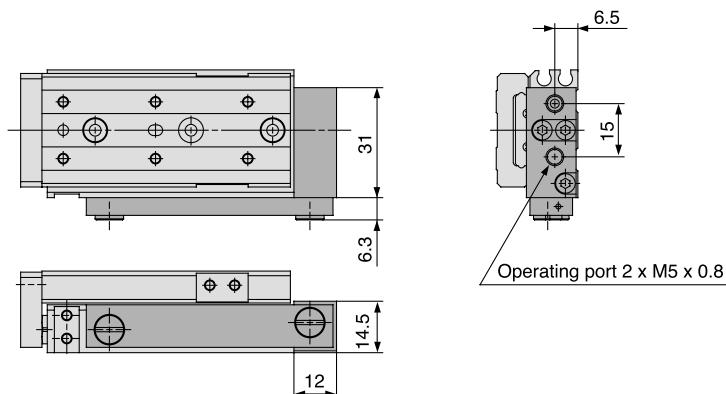
* Other dimensions are the same as basic style

With end lock (ø8): MXQ8L-□□R



* Other dimensions are the same as basic style

Axial piping type (ø8): MXQ8L-□□P



* Other dimensions are the same as basic style

MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS

D-□

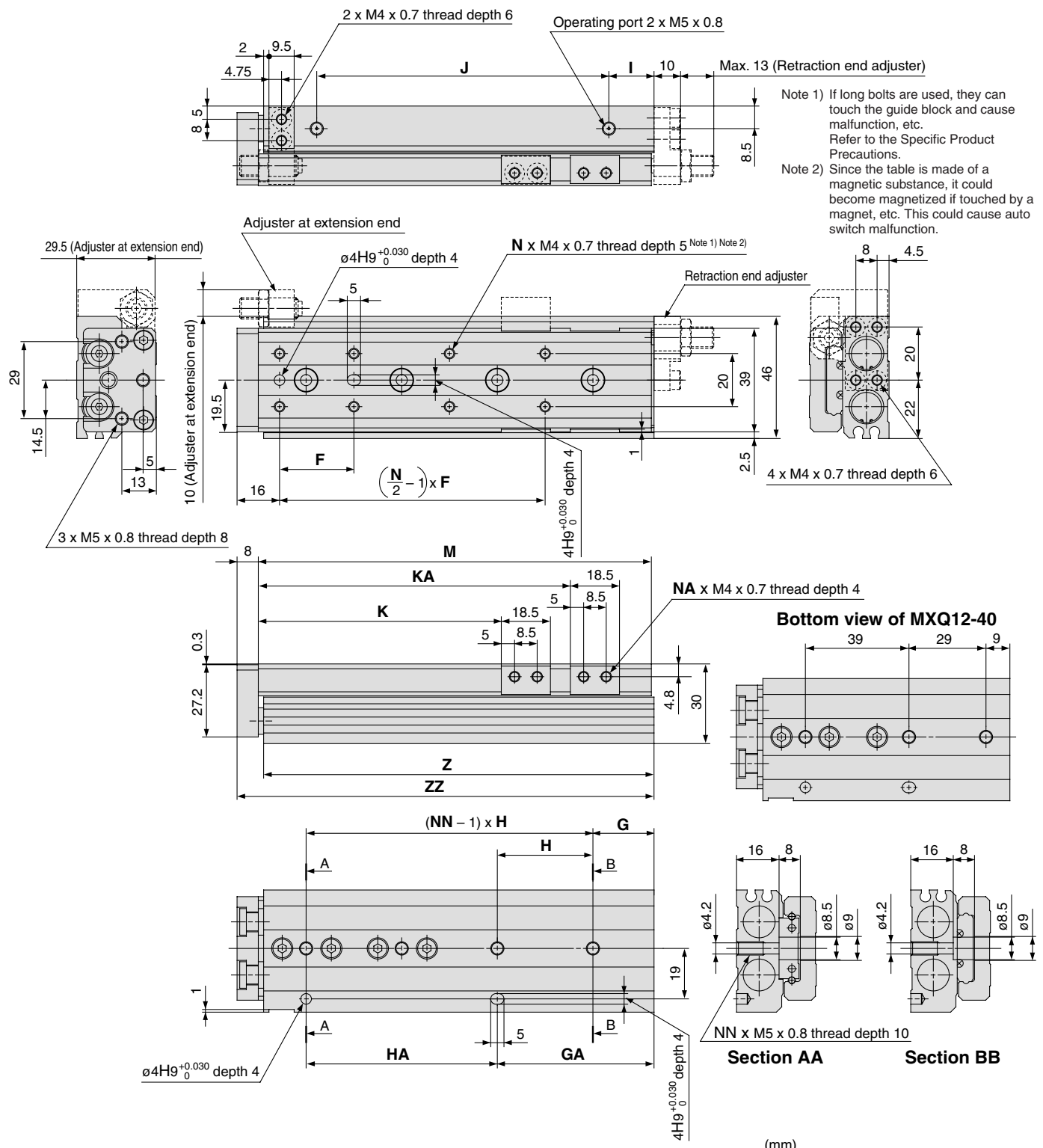
-X□

Individual
-X□

Dimensions: MXQ12

Basic style

* For detailed dimensions about the stroke adjuster, refer to the option for the stroke adjuster.
Rubber stopper (Refer to page 122.)
Metal stopper (Refer to page 125.)



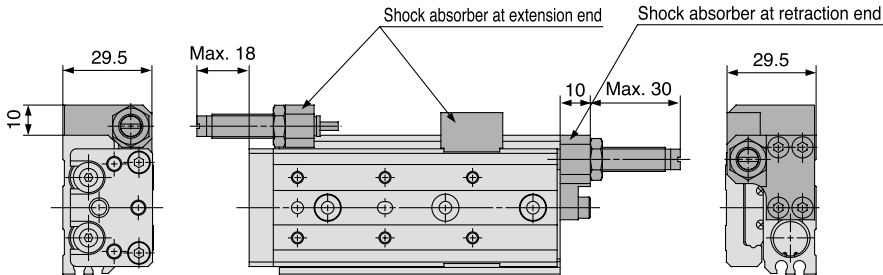
Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
MXQ12- 10	28	4	18	32	2	18	32	12	34	26.5	—	4	67	66	76
MXQ12- 20	28	4	18	32	2	18	32	12	34	36.5	—	4	67	66	76
MXQ12- 30	38	4	20	40	2	20	40	14	42	46.5	—	4	77	76	86
MXQ12- 40	34	6	Note)	Note)	3	38	39	15	58	56.5	—	4	94	93	103
MXQ12- 50	34	6	9	39	3	48	39	13	70	66.5	—	4	104	103	113
MXQ12- 75	36	8	23	36	4	59	72	17	110	91.5	117.5	8	148	147	157
MXQ12-100	36	10	12	36	5	84	72	17	135	116.5	142.5	8	173	172	182

Note) Refer to the bottom view of MXQ12-40.

With shock absorber (ø12): MXQ12-□□BS/BT/B

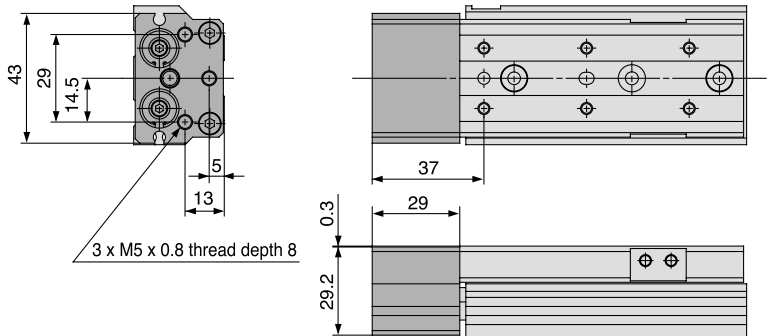
Stroke Adjustable Range (mm)

Extension end	Retraction end
18	18



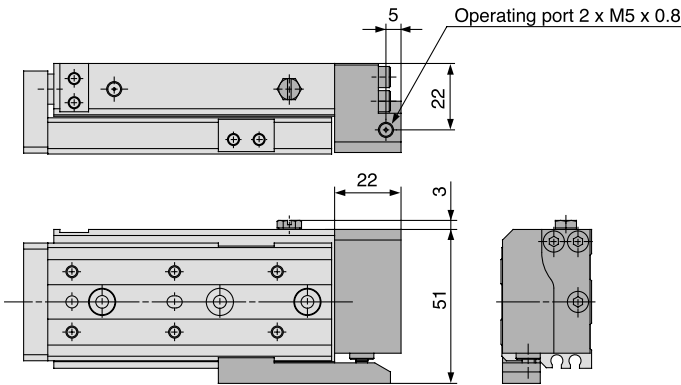
* Other dimensions are the same as basic style.

With buffer (ø12): MXQ12-□□F



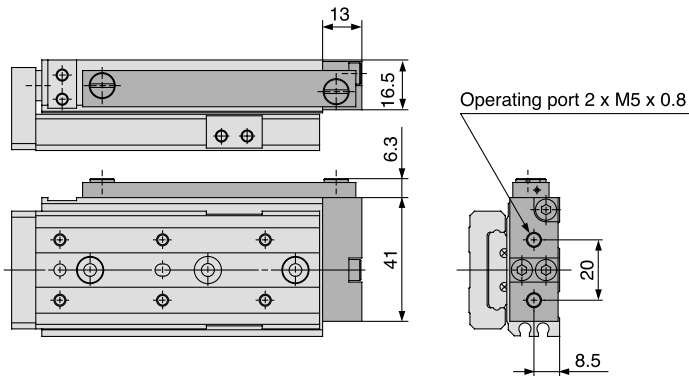
* Other dimensions are the same as basic style.

With end lock (ø12): MXQ12-□□R



* Other dimensions are the same as basic style.

Axial piping type (ø12): MXQ12-□□P



* Other dimensions are the same as basic style.

MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS

D-□

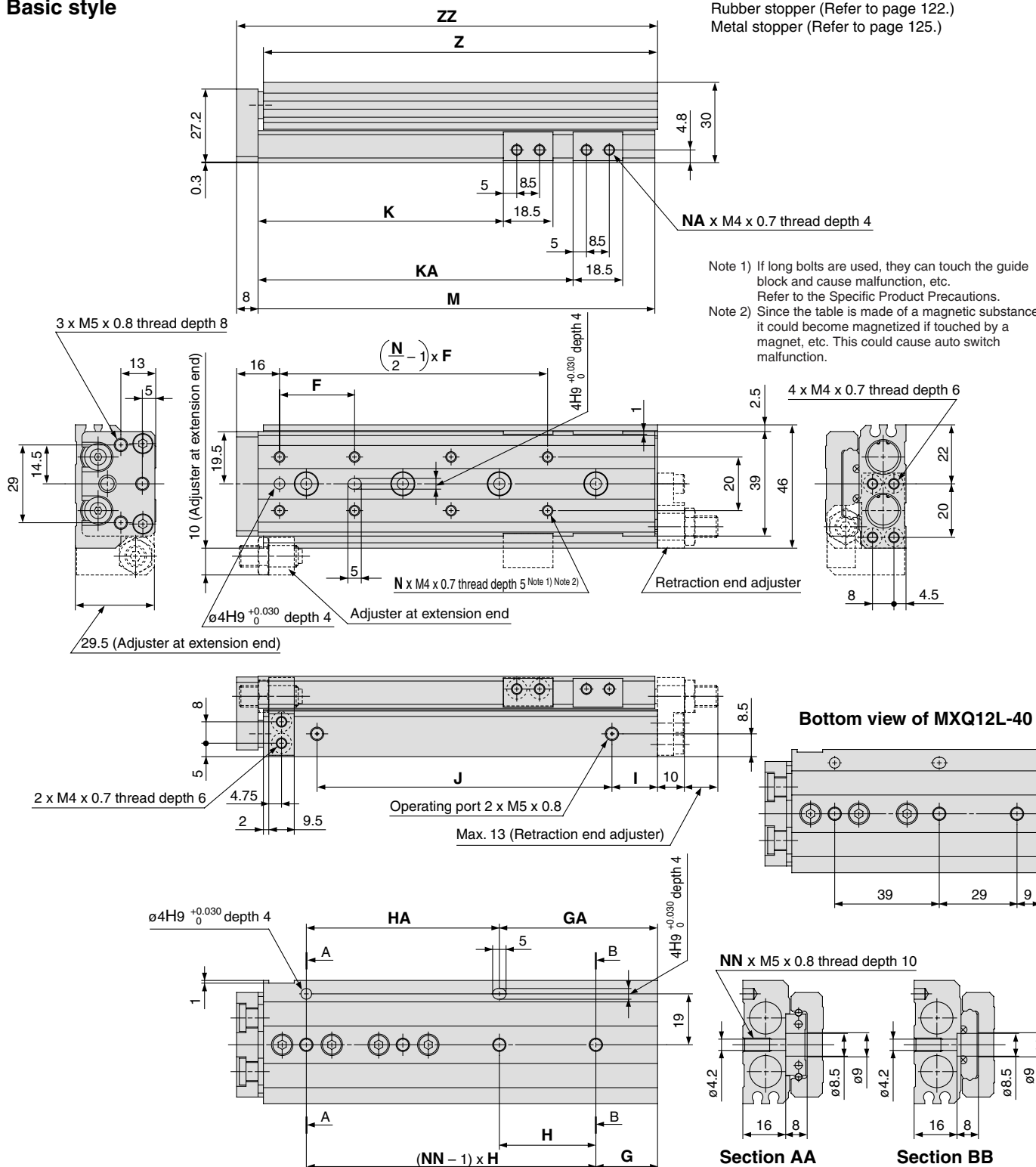
-X□

Individual
-X□

Dimensions: MXQ12L/Symmetric Type

Basic style

* For detailed dimensions about the stroke adjuster, refer to the option for the stroke adjuster.
Rubber stopper (Refer to page 122.)
Metal stopper (Refer to page 125.)



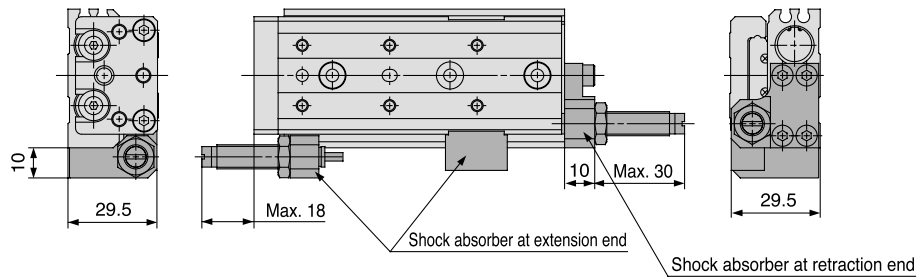
	(mm)															
Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ	
MXQ12L- 10	28	4	18	32	2	18	32	12	34	26.5	—	4	67	66	76	
MXQ12L- 20	28	4	18	32	2	18	32	12	34	36.5	—	4	67	66	76	
MXQ12L- 30	38	4	20	40	2	20	40	14	42	46.5	—	4	77	76	86	
MXQ12L- 40	34	6	(Note)	(Note)	3	38	39	15	58	56.5	—	4	94	93	103	
MXQ12L- 50	34	6	9	39	3	48	39	13	70	66.5	—	4	104	103	113	
MXQ12L- 75	36	8	23	36	4	59	72	17	110	91.5	117.5	8	148	147	157	
MXQ12L-100	36	10	12	36	5	84	72	17	135	116.5	142.5	8	173	172	182	

Note) Refer to the bottom view of MXQ12L-40.

With shock absorber (ø12): MXQ12L-□□BS/BT/B

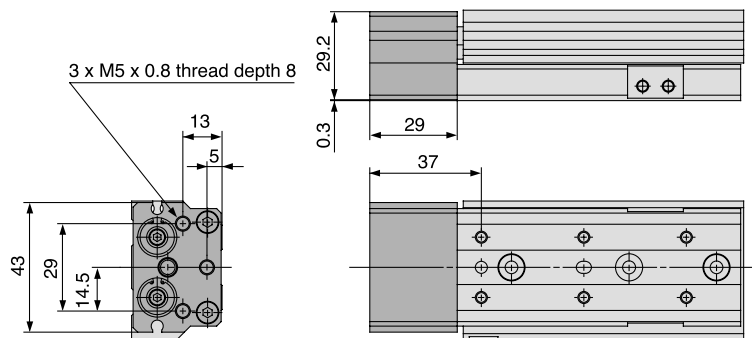
Stroke Adjustable Range (mm)

Extension end	Retraction end
18	18



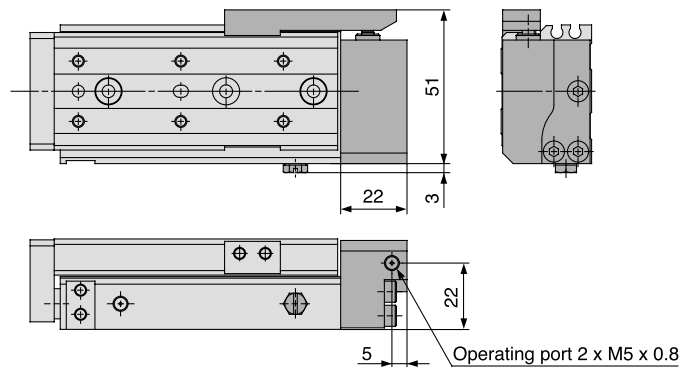
* Other dimensions are the same as basic style.

With buffer (ø12): MXQ12L-□□F



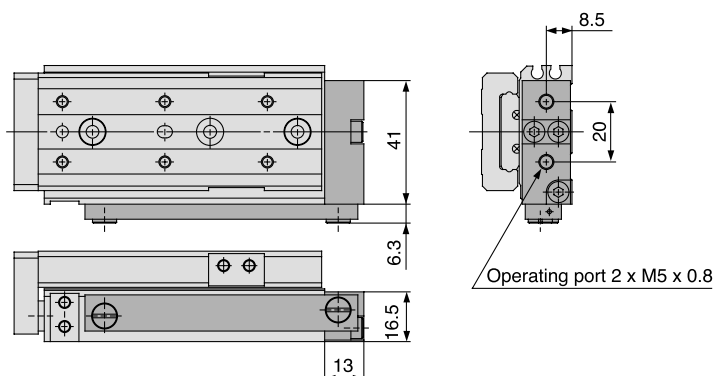
* Other dimensions are the same as basic style.

With end lock (ø12): MXQ12L-□□R



* Other dimensions are the same as basic style.

Axial piping type (ø12): MXQ12L-□□P



* Other dimensions are the same as basic style.

MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS

D-□

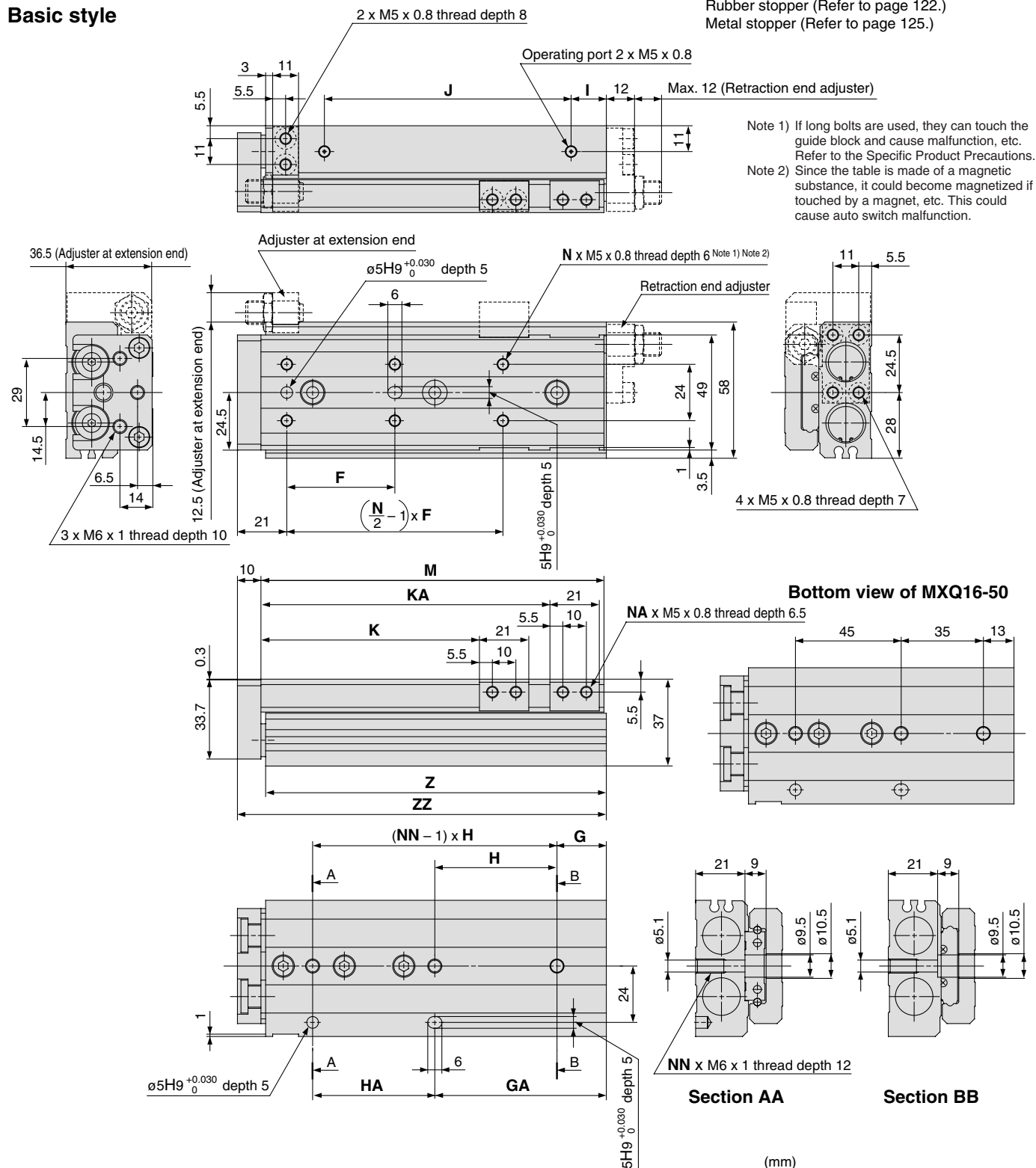
-X□

Individual
-X□

Dimensions: MXQ16

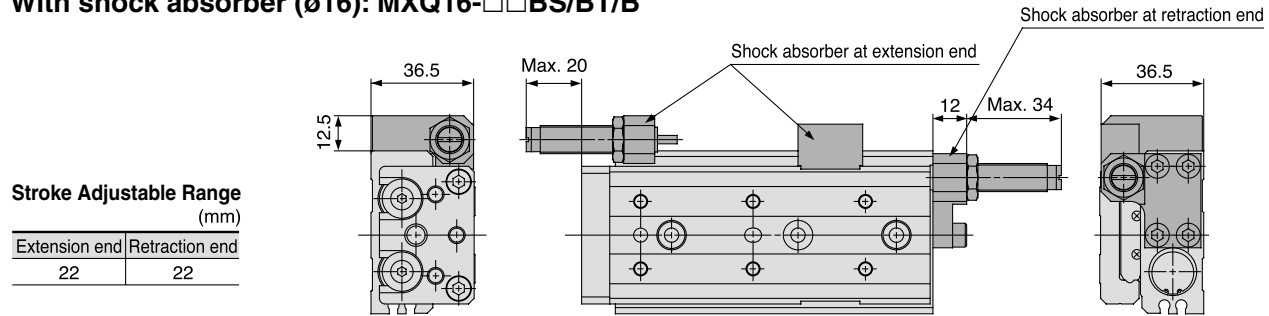
Basic style

* For detailed dimensions about the stroke adjuster, refer to the option for the stroke adjuster.
Rubber stopper (Refer to page 122.)
Metal stopper (Refer to page 125.)

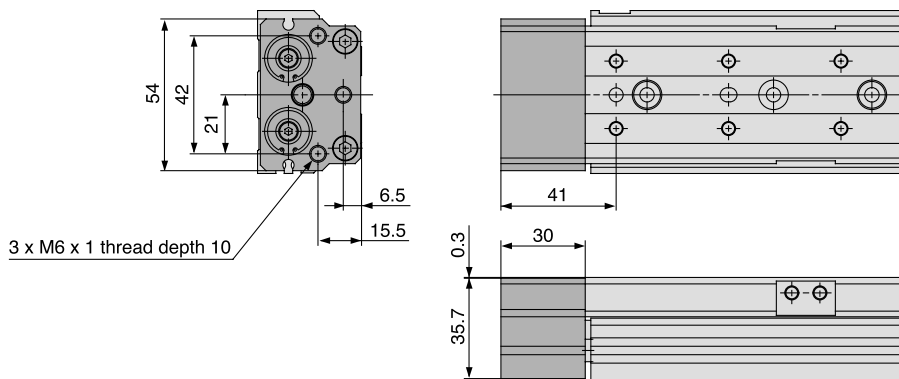


Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
MXQ16- 10	38	4	18	39	2	18	39	12	40	28	—	4	78	77	89
MXQ16- 20	38	4	18	39	2	18	39	12	40	38	—	4	78	77	89
MXQ16- 30	48	4	19	48	2	19	48	12	50	48	—	4	88	87	99
MXQ16- 40	58	4	19	58	2	19	58	12	60	58	—	4	98	97	109
MXQ16- 50	40	6	(Note)	(Note)	3	48	45	20	68	68	91	8	114	113	125
MXQ16- 75	46	6	21	52	3	73	52	15	105	93	123	8	146	145	157
MXQ16-100	44	8	36	44	4	80	88	18	145	118	166	8	189	188	200
MXQ16-125	44	10	17	44	5	105	88	23	165	143	191	8	214	213	225

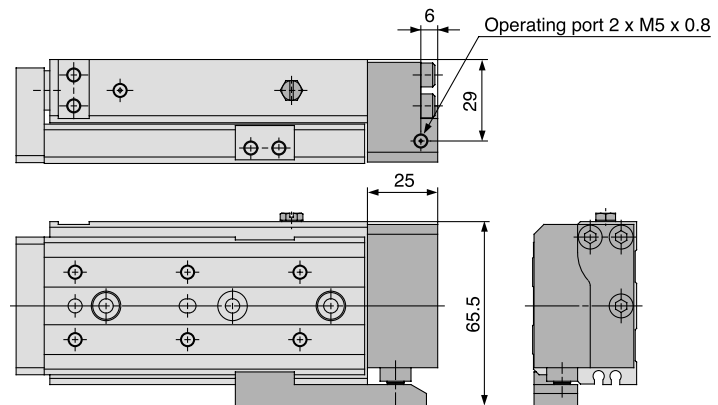
Note) Refer to the bottom view of MXQ16-50.

With shock absorber (ø16): MXQ16-□□BS/BT/B


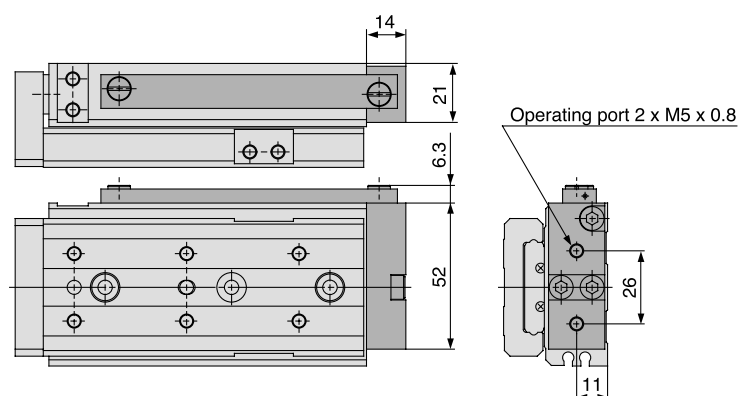
* Other dimensions are the same as basic style.

With buffer (ø16): MXQ16-□□F


* Other dimensions are the same as basic style.

With end lock (ø16): MXQ16-□□R


* Other dimensions are the same as basic style.

Axial piping type (ø16): MXQ16-□□P


* Other dimensions are the same as basic style.

MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS

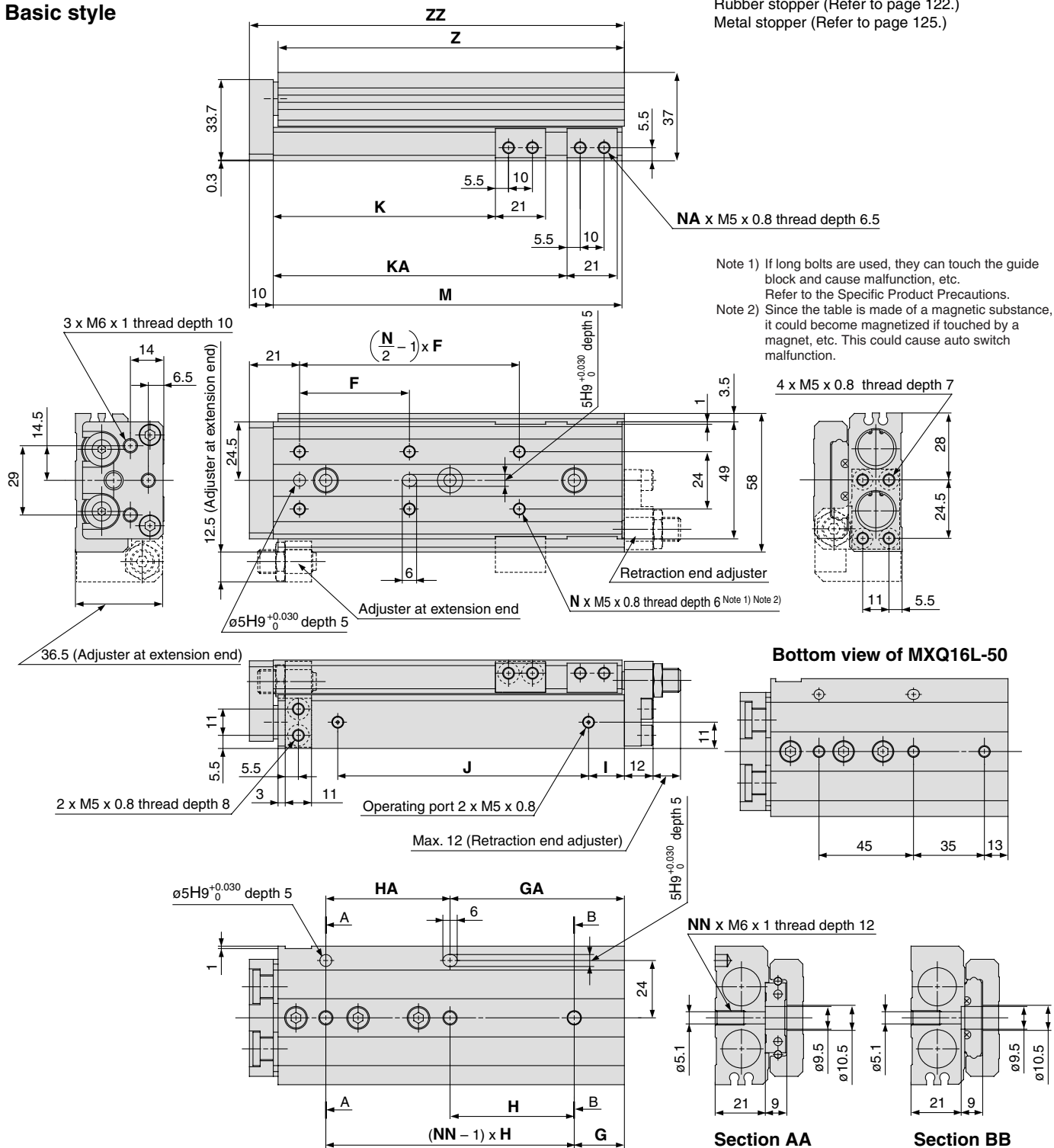
D-□

-X□

Individual
-X□

Dimensions: MXQ16L/Symmetric Type

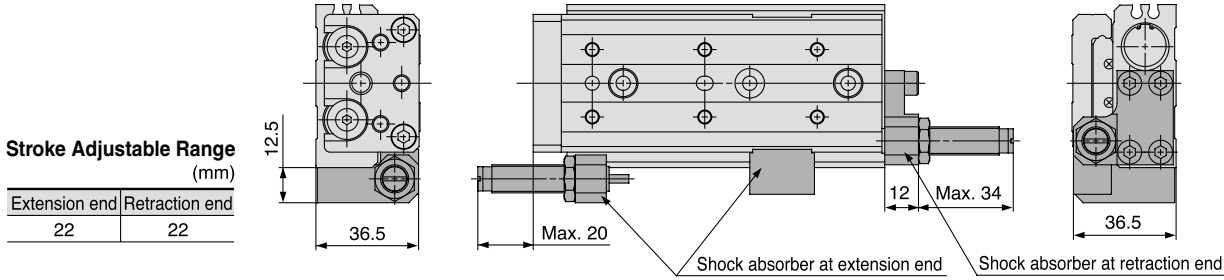
Basic style



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
MXQ16L- 10	38	4	18	39	2	18	39	12	40	28	—	4	78	77	89
MXQ16L- 20	38	4	18	39	2	18	39	12	40	38	—	4	78	77	89
MXQ16L- 30	48	4	19	48	2	19	48	12	50	48	—	4	88	87	99
MXQ16L- 40	58	4	19	58	2	19	58	12	60	58	—	4	98	97	109
MXQ16L- 50	40	6	Note)	Note)	3	48	45	20	68	68	91	8	114	113	125
MXQ16L- 75	46	6	21	52	3	73	52	15	105	93	123	8	146	145	157
MXQ16L-100	44	8	36	44	4	80	88	18	145	118	166	8	189	188	200
MXQ16L-125	44	10	17	44	5	105	88	23	165	143	191	8	214	213	225

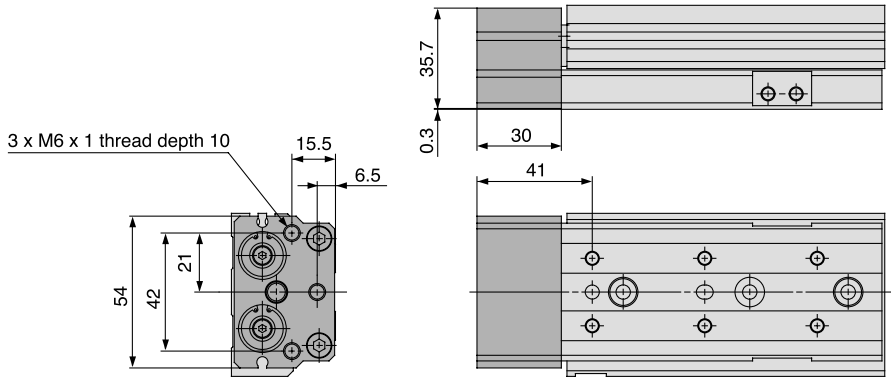
Note) Refer to the bottom view of MXQ16L-50.

With shock absorber (ø16): MXQ16L-□□BS/BT/B



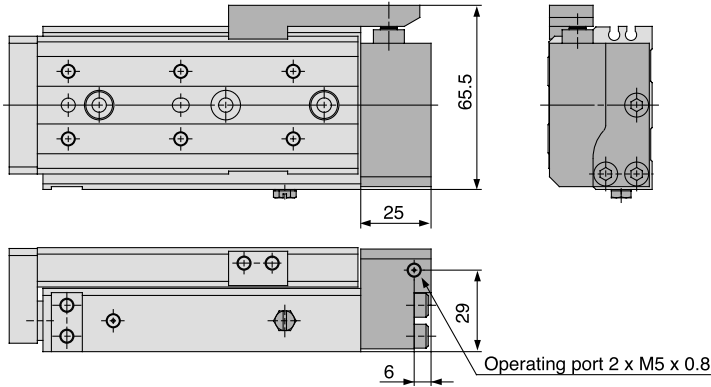
* Other dimensions are the same as basic style.

With buffer (ø16): MXQ16L-□□F



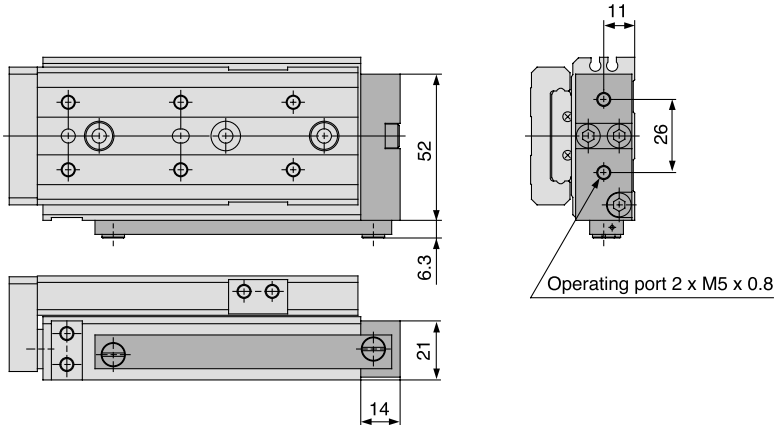
* Other dimensions are the same as basic style.

With end lock (ø16): MXQ16L-□□R



* Other dimensions are the same as basic style.

Axial piping type (ø16): MXQ16L-□□P



* Other dimensions are the same as basic style.

MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS

D-□

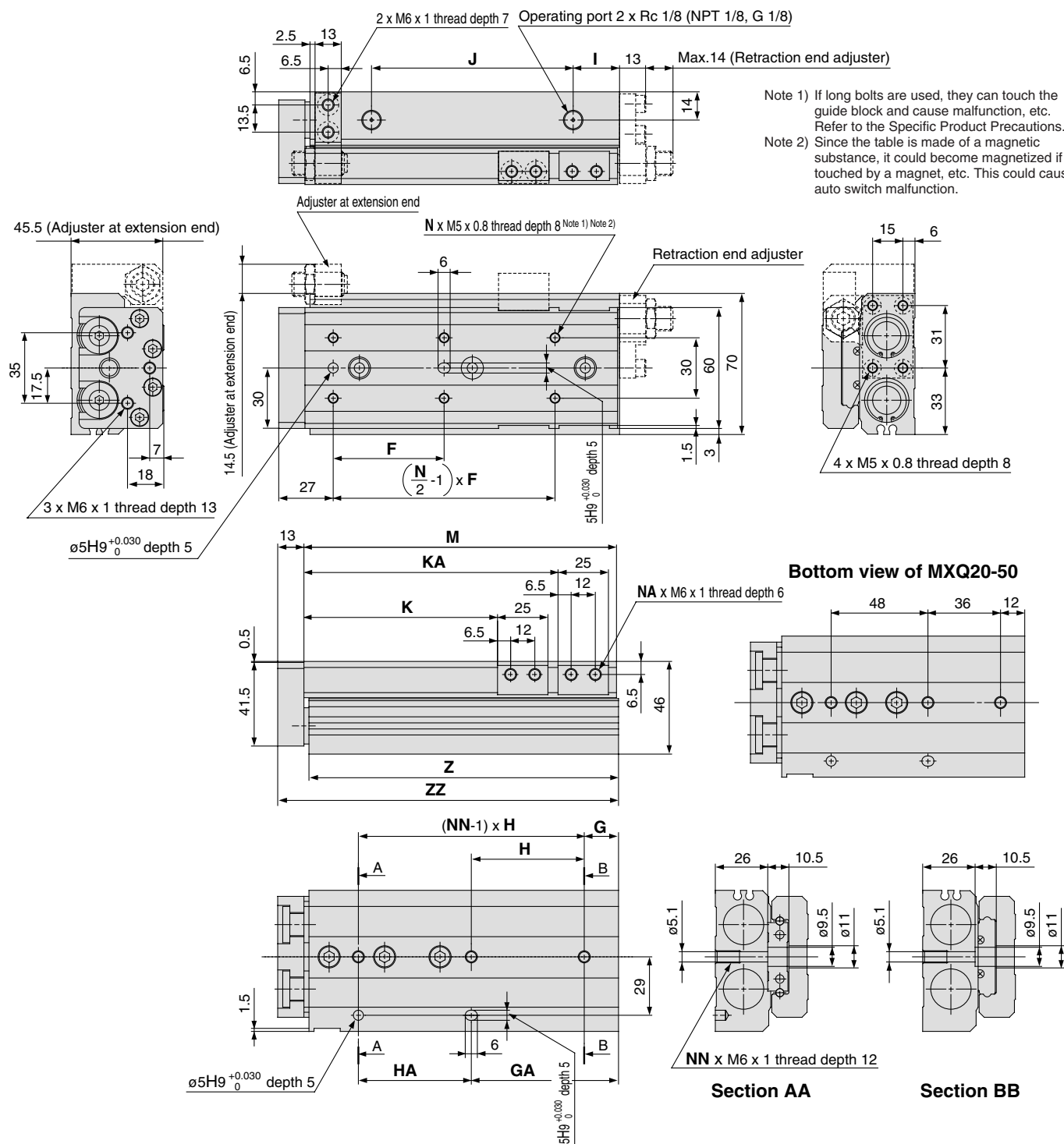
-X□

Individual
-X□

Dimensions: MXQ20

Basic style

* For detailed dimensions about the stroke adjuster, refer to the option for the stroke adjuster.
Rubber stopper (Refer to page 122.)
Metal stopper (Refer to page 125.)



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
MXQ20- 10	45	4	22	46	2	18	50	16	46	31	—	4	94	92.5	108
MXQ20- 20	40	4	22	46	2	18	50	16	46	41	—	4	94	92.5	108
MXQ20- 30	48	4	22	46	2	18	50	16	46	51	—	4	94	92.5	108
MXQ20- 40	58	4	22	56	2	22	56	16	56	61	—	4	104	102.5	118
MXQ20- 50	42	6	Note)	Note)	3	48	48	18	72	71	—	4	122	120.5	136
MXQ20- 75	55	6	17	56	3	73	56	23	100	96	126	8	155	153.5	169
MXQ20-100	50	8	18	56	4	74	112	25	155	121	183	8	212	210.5	226
MXQ20-125	55	8	37	59	4	96	118	18	190	146	211	8	240	238.5	254
MXQ20-150	62	8	56	62	4	118	124	21	215	171	239	8	268	266.5	282

Note) Refer to the bottom view of MXQ20-50.