

# Series 13-22-MXQ Air slide table

ø6, ø8, ø12, ø16, ø20, ø25

## How to Order

**Clean series**

13	Vacuum suction type (Special treatment on guide)
----	--

**Port thread type**

Symbol	Thread type	Bore size
Nil	M-thread	ø6 to ø16
	Rc	ø20, ø25
TN	NPT	ø20, ø25
TF	G	ø20, ø25

**13-MXQ 12 50 M9N**

**22-MXQ 12 50 M9N**

**Copper, fluorine and silicon-free + Low particle generation**

22	Vacuum suction type
----	---------------------

**Symmetric type**

Nil	Standard type
L	Symmetric type

**Number of auto switches**

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

**Type of auto switch**

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

\* For the applicable auto switch model, refer to the table below.

**Bore size / Stroke (mm)**

	10, 20, 30, 40, 50
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


**Adjuster option**

Nil	Without adjuster	
AS	Rubber stopper	Extension end
AT		Retraction end
A		Both ends
CS	Metal stopper	Extension end
CT		Retraction end
C		Both ends

**Functional option**

Nil	Standard type
p <sup>Note)</sup>	Axial piping type

Note) The combination of axial piping type and both ends adjusters or retraction end adjuster is not available.



## Auto switch specifications (Refer to Best Pneumatics catalog for detailed specifications and auto switches not in the following table.)

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage			Auto switch model	Lead wire length (m) *		Applicable load	
					DC	AC	Electrical entry direction		0.5 Nil	3 (L)		
Reed switch	—	Grommet	Yes	2-wire	24V	12V	100V	A93	●	●	—	Relay, PLC
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24V	12V	—	M9N	●	●	—	Relay, PLC
				2-wire		12V		M9B	●	●	—	

\* Lead wire length symbols: 0.5m.....Nil (Example) A93  
3 m.....L (Example) A93L

PLC: Programmable Logic Controller

Refer to page 182 for a list of applicable auto switches.

### Specifications

<b>Bore size (mm)</b>	6	8	12	16	20	25
<b>Fluid</b>	Air					
<b>Action</b>	Double acting					
<b>Operating pressure</b>	0.15 to 0.7MPa					
<b>Proof pressure</b>	1.05 MPa					
<b>Ambient and fluid temperature</b>	-10 to 60°C (No freezing)					
<b>Piston speed</b>	50 to 300 mm/s (Adjuster option/Metal stopper: 50 to 200 mm/s)					
<b>Cushion</b>	Rubber bumper (Standard, Adjuster option/Rubber stopper) None (Adjuster option/Metal stopper)					
<b>Lubrication</b>	Non-lube					
<b>Stroke length tolerance</b>	+ <sub>0</sub> mm					
<b>Grease</b>	10-/11-: Fluorine grease 21-/22-: Lithium soap based grease					
Particle generation grade (Refer to front matter pages 13 to 22 for details.)	Without adjuster					
	Rubber stopper	13-/22-: Grade 3				
	Metal stopper	13-/22-: Grade 4				

### Suction flow rate of vacuum suction type (Reference values)

Bore size	Suction flow rate $l/min$ (ANR)
6, 8, 12	1
16	2
20	3
25	5

### Adjuster Option: Stroke Adjustment Range

Rubber stopper	Extension end (AS)	Stroke adjustment range 0 to 5 mm
	Retraction end (AT)	
	Both ends (A)	
Metal stopper	Extension end (CS)	Stroke adjustment range 0 to 5 mm
	Retraction end (CT)	
	Both ends (C)	

### Proper auto switch mounting position (Detection at stroke end)



### Reed switch: D-A93

Model	A	B									E									Auto switch operation range
		Stroke									Stroke									
		10	20	30	40	50	75	100	125	150	10	20	30	40	50	75	100	125	150	
13-/22-MXQ6(L)	6	5.5	5.5	5.5	13.5	13.5	—	—	—	—	1	1	1	9	9	—	—	—	—	4.5
13-/22-MXQ8(L)	7.5	8	8	12	16	31	32	—	—	—	3.5	3.5	7.5	11.5	26.5	27.5	—	—	—	5
13-/22-MXQ12(L)	11.5	24.5	14.5	14.5	21.5	21.5	40.5	40.5	—	—	20	10	10	17	17	36	36	—	—	6
13-/22-MXQ16(L)	16.5	30.5	20.5	20.5	20.5	26.5	33.5	51.5	51.5	—	26	16	16	16	22	29	47	47	—	7
13-/22-MXQ20(L)	19	43.5	33.5	23.5	33.5	31.5	39.5	71.5	74.5	77.5	39	29	19	29	27	35	67	70	75	8
13-/22-MXQ25(L)	22	52.5	42.5	32.5	32.5	46.5	46.5	60.5	88.5	88.5	48	38	28	28	42	42	56	84	75	9

### Solid state switch: D-M9B, D-M9N

Model	A	B									E									Auto switch operation range
		Stroke									Stroke									
		10	20	30	40	50	75	100	125	150	10	20	30	40	50	75	100	125	150	
13-/22-MXQ6(L)	10	9.5	9.5	9.5	17.5	17.5	—	—	—	—	-0.5	-0.5	-0.5	7.5	7.5	—	—	—	—	1.5
13-/22-MXQ8(L)	11.5	12	12	16	20	35	36	—	—	—	2	2	6	10	25	26	—	—	—	1.5
13-/22-MXQ12(L)	15.5	28.5	18.5	18.5	25.5	25.5	44.5	44.5	—	—	18.5	8.5	8.5	15.5	15.5	34.5	34.5	—	—	2.5
13-/22-MXQ16(L)	20.5	34.5	24.5	24.5	24.5	30.5	37.5	55.5	55.5	—	24.5	14.5	14.5	14.5	20.5	27.5	45.5	45.5	—	3
13-/22-MXQ20(L)	23	47.5	37.5	27.5	37.5	35.5	43.5	75.5	78.5	81.5	37.5	27.5	17.5	27.5	25.5	33.5	65.5	68.5	73.5	3
13-/22-MXQ25(L)	27	56.5	46.5	36.5	36.5	50.5	50.5	64.5	92.5	92.5	46.5	36.5	26.5	26.5	40.5	40.5	54.5	82.5	73.5	3

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

Air preparation equipment

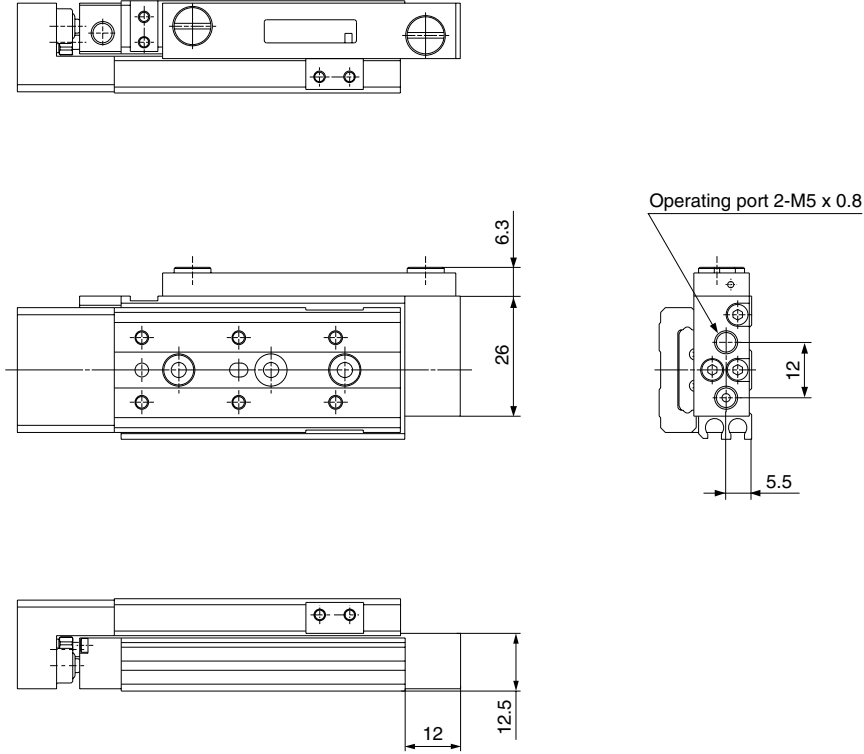
Pressure switch

Clean gas filter



Dimensions: 13-22-MXQ6

Axial piping type (ø6): 13-22-MXQ6-□□P



\* Other dimensions are the same as basic style.

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

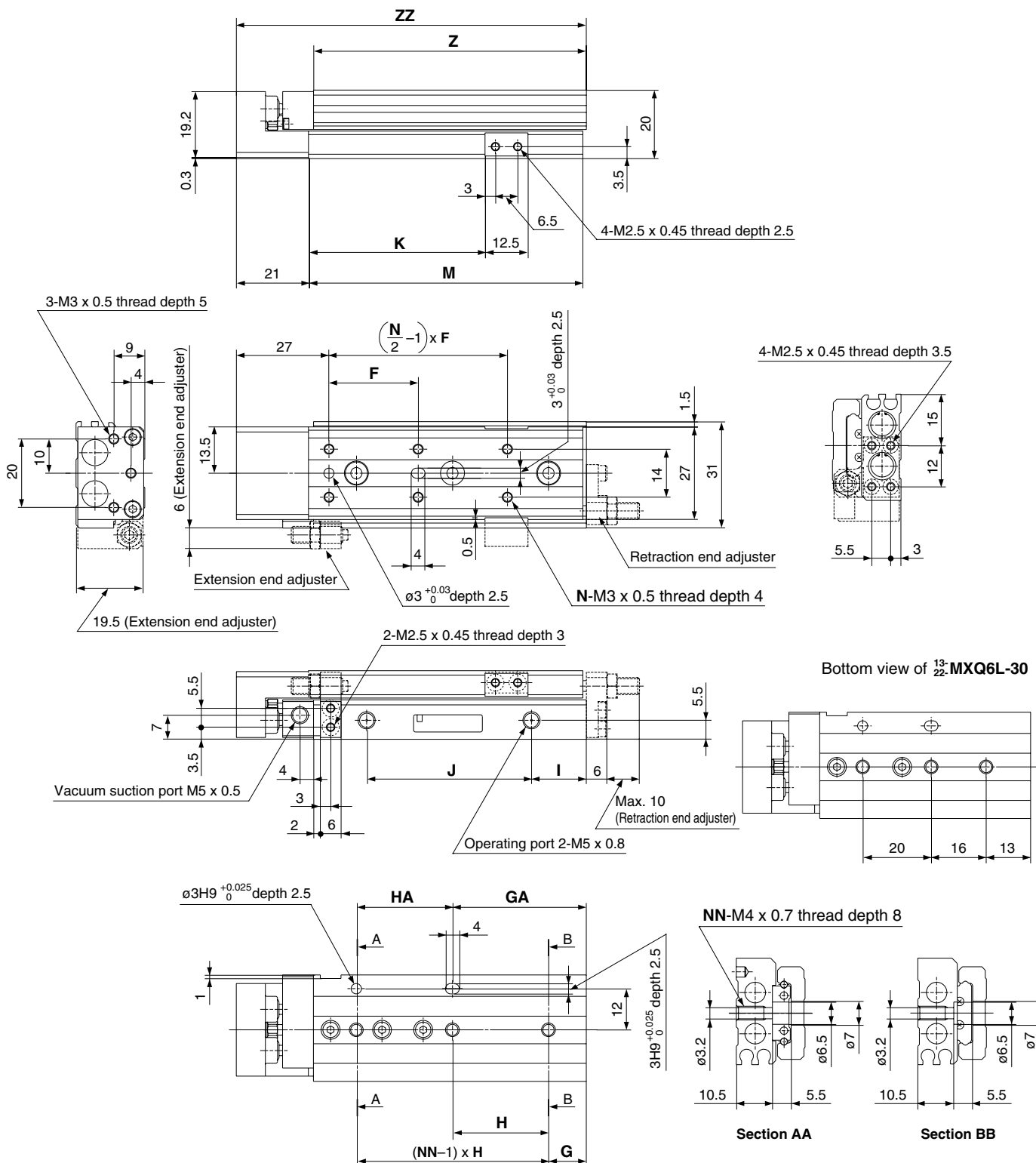
Air preparation equipment

Pressure switch

Clean gas filter

Dimensions: 13-22-MXQ6L / Symmetric type

Basic style



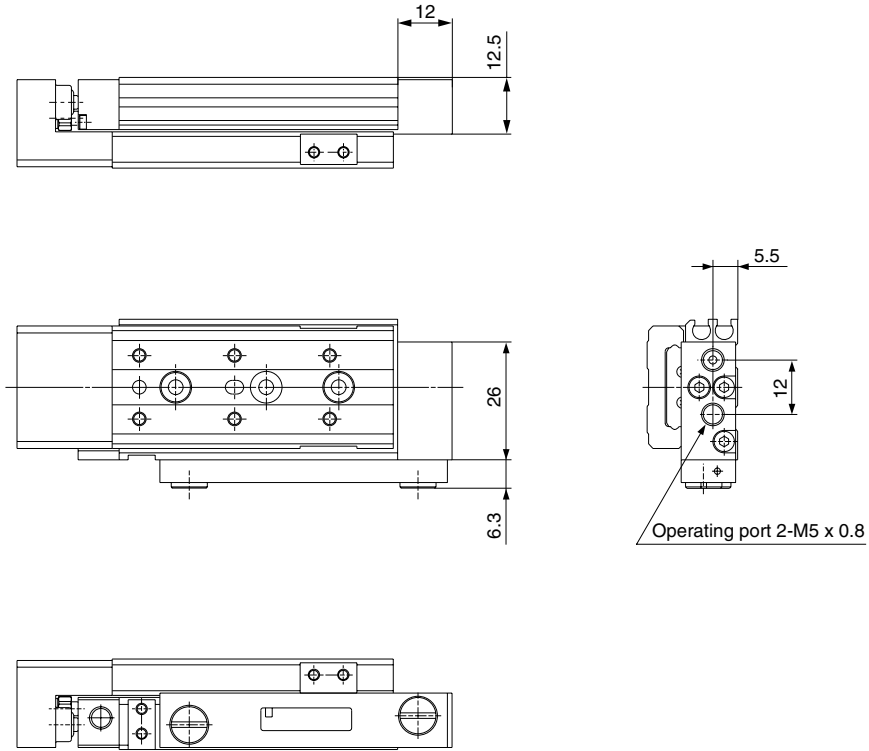
(mm)

Model	F	N	G	H	NN	GA	HA	I	J	K	M	Z	ZZ
13-22-MXQ6L-10	22	4	6	23	2	13	16	9	17	21.5	42	41.5	64
13-22-MXQ6L-20	25	4	13	26	2	13	26	9	27	31.5	52	51.5	74
13-22-MXQ6L-30	21	6	Note)	Note)	3	29	20	9	37	41.5	62	61.5	84
13-22-MXQ6L-40	26	6	11	28	3	39	28	16	48	51.5	80	79.5	102
13-22-MXQ6L-50	27	6	21	28	3	49	28	9	65	61.5	90	89.5	112

Note) Refer to the bottom view of 13-MXQ6L-30.

Dimensions: 13-22-MXQ6L / Symmetric type

Axial piping type (ø6): 13-22-MXQ6L-□□P



\* Other dimensions are the same as basic style.

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

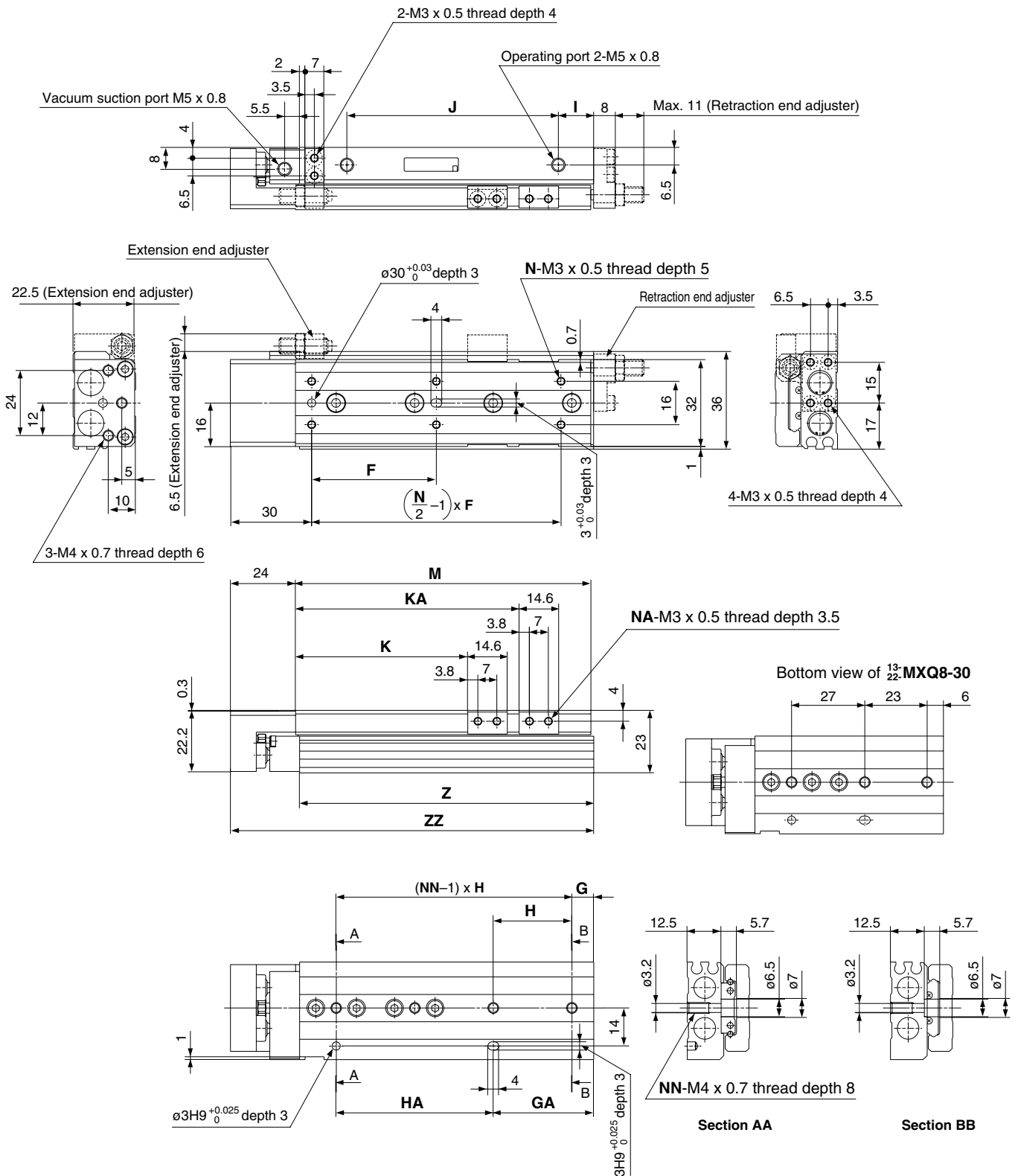
Air preparation equipment

Pressure switch

Clean gas filter

Dimensions: 13-22:MXQ8

Basic style

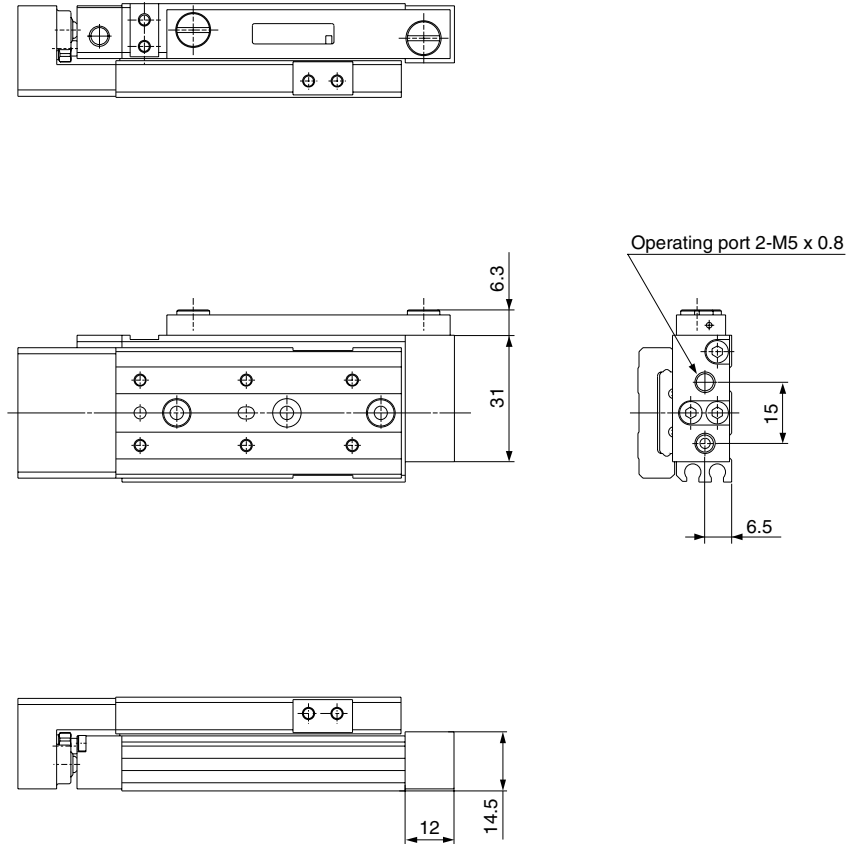


Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-22-MXQ8-10	25	4	7	25	2	13	19	11	17	23.5	—	4	46	45.5	71
13-22-MXQ8-20	25	4	14	28	2	14	28	10	28	33.5	—	4	56	55.5	81
13-22-MXQ8-30	26	6	(Note)	(Note)	3	29	27	12	40	43.5	—	4	70	69.5	95
13-22-MXQ8-40	32	6	8	31	3	39	31	14	52	53.5	—	4	84	83.5	109
13-22-MXQ8-50	46	6	8	29	4	37	58	13	78	63.5	82.5	8	109	108.5	134
13-22-MXQ8-75	50	6	31	30	4	61	60	12	105	88.5	112.5	8	135	134.5	160

Note) Refer to the bottom view of 13-MXQ8-30.

Dimensions: 13-22-MXQ8

Axial piping type (ø8): 13-22-MXQ8-□□P



\* Other dimensions are the same as basic style.

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

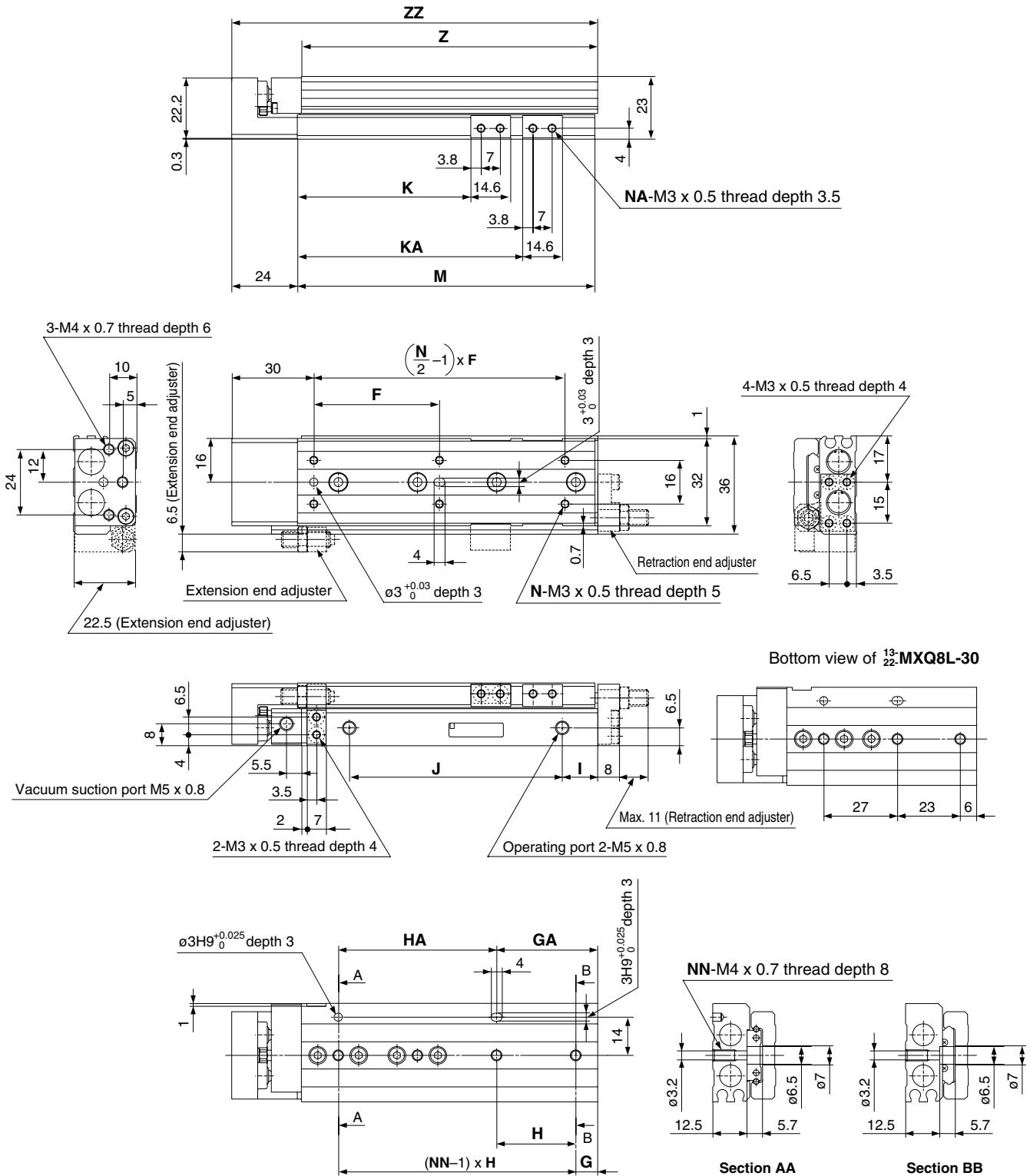
Air preparation equipment

Pressure switch

Clean gas filter

Dimensions: 13-22-MXQ8L / Symmetric type

Basic style

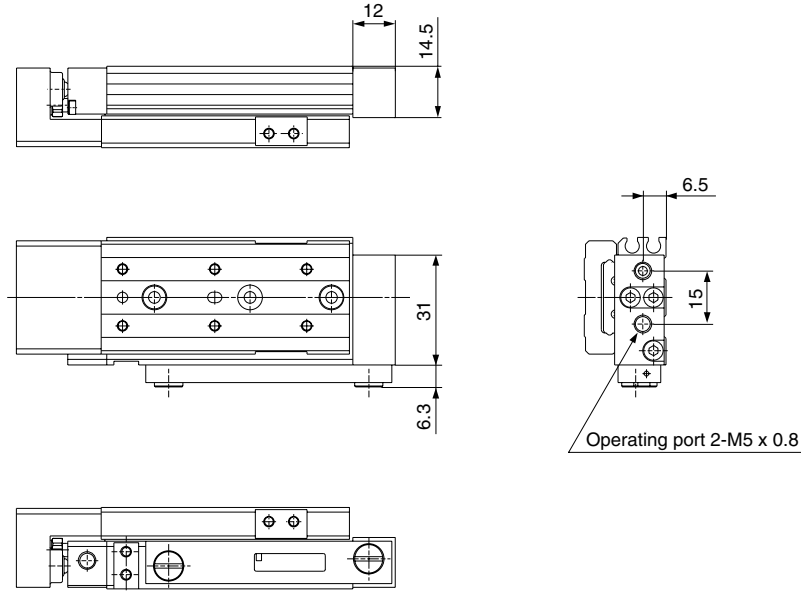


Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXQ8L-10	25	4	7	25	2	13	19	11	17	23.5	—	4	46	45.5	71
13-/22-MXQ8L-20	25	4	14	28	2	14	28	10	28	33.5	—	4	56	55.5	81
13-/22-MXQ8L-30	26	6	— <sup>(Note)</sup>	— <sup>(Note)</sup>	3	29	27	12	40	43.5	—	4	70	69.5	95
13-/22-MXQ8L-40	32	6	8	31	3	39	31	14	52	53.5	—	4	84	83.5	109
13-/22-MXQ8L-50	46	6	8	29	4	37	58	13	78	63.5	82.5	8	109	108.5	134
13-/22-MXQ8L-75	50	6	31	30	4	61	60	12	105	88.5	112.5	8	135	134.5	160

Note) Refer to the bottom view of 13-MXQ8L-30.

Dimensions: <sup>13-</sup><sub>22-</sub>MXQ8L / Symmetric type

Axial piping type (ø8): <sup>13-</sup><sub>22-</sub>MXQ8L-□□P



\* Other dimensions are the same as basic style.

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

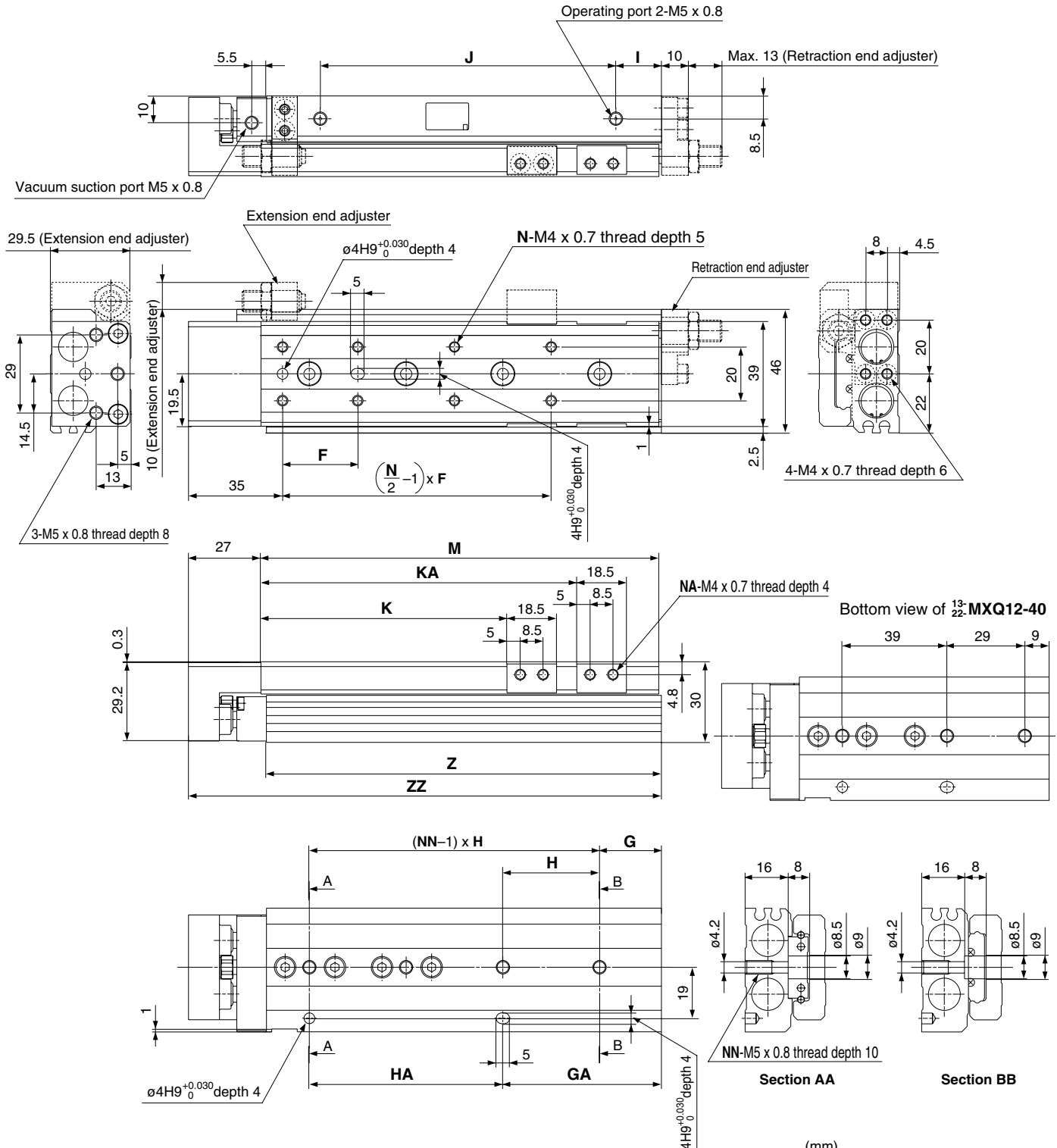
Air preparation equipment

Pressure switch

Clean gas filter

Dimensions: 13-13-MXQ12

Basic style

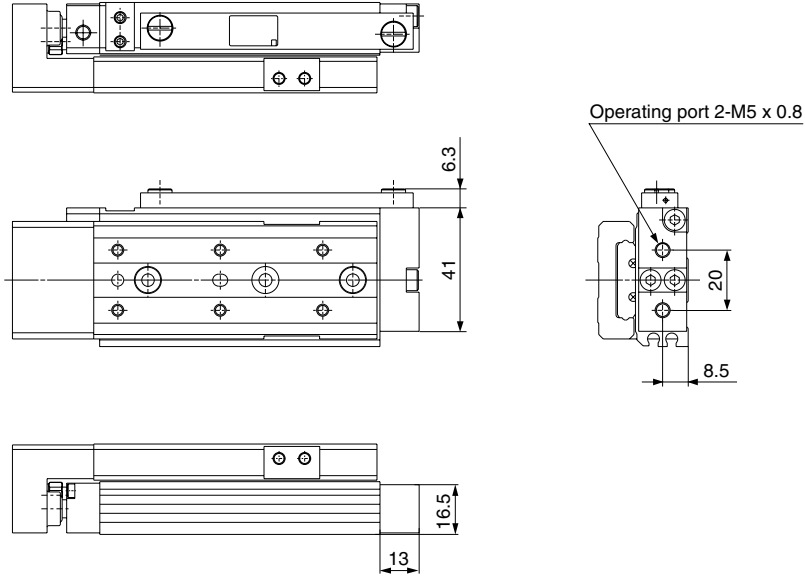


Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXQ12- 10	28	4	18	32	2	18	32	12	34	26.5	—	4	67	66	95
13-/22-MXQ12- 20	28	4	18	32	2	18	32	12	34	36.5	—	4	67	66	95
13-/22-MXQ12- 30	38	4	20	40	2	20	40	14	42	46.5	—	4	77	76	105
13-/22-MXQ12- 40	34	6	—(Note)	—(Note)	3	38	39	15	58	56.5	—	4	94	93	122
13-/22-MXQ12- 50	34	6	9	39	3	48	39	13	70	66.5	—	4	104	103	132
13-/22-MXQ12- 75	36	8	23	36	4	59	72	17	110	91.5	117.5	8	148	147	176
13-/22-MXQ12-100	36	10	12	36	5	84	72	17	135	116.5	142.5	8	173	172	201

Note) Refer to the bottom view of 13-MXQ12-40.

Dimensions: 13-22-MXQ12

Axial piping type (ø12): 13-22-MXQ12-□□P



\* Other dimensions are the same as basic style.

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

Air preparation equipment

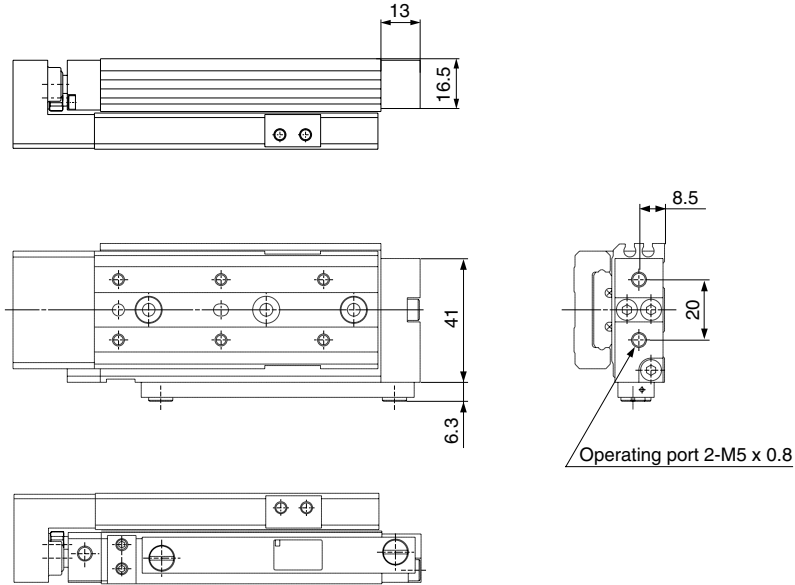
Pressure switch

Clean gas filter



Dimensions: 13-22-MXQ12L / Symmetric type

Axial piping type (ø12): 13-22-MXQ12L-□□P



\* Other dimensions are the same as basic style.

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

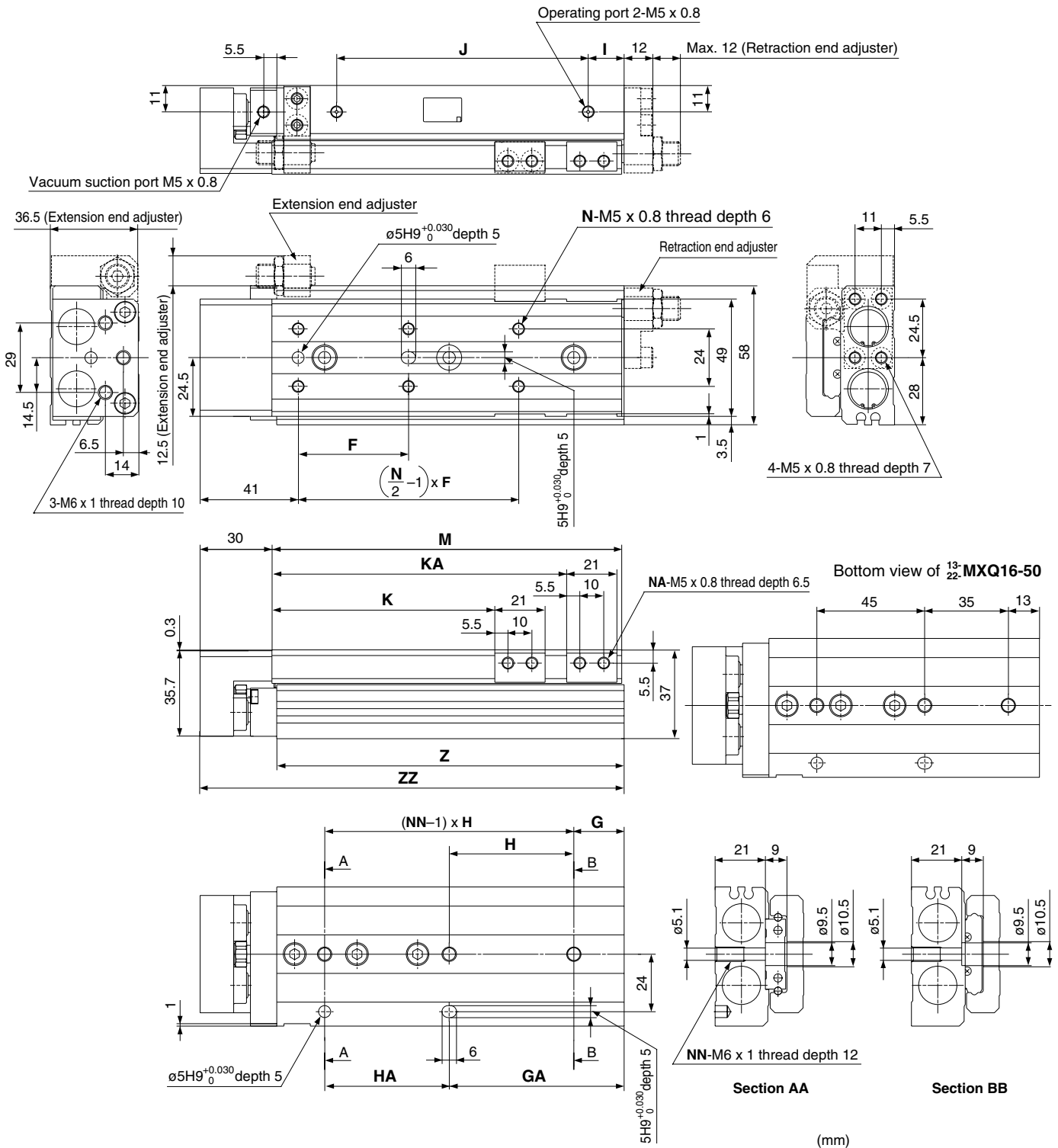
Air preparation equipment

Pressure switch

Clean gas filter

Dimensions: 13-22-MXQ16

Basic style

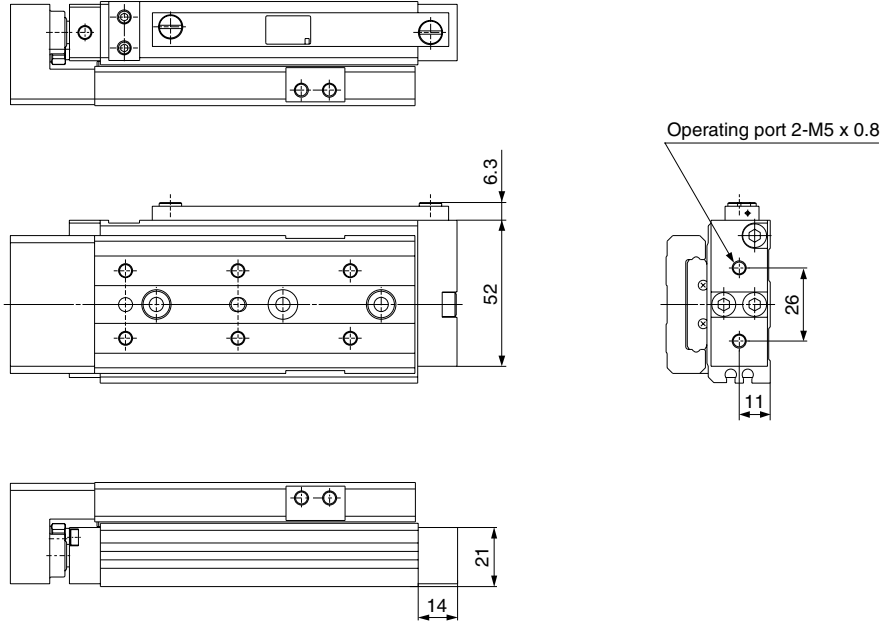


Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXQ16- 10	38	4	18	39	2	18	39	12	40	28	—	4	78	77	109
13-/22-MXQ16- 20	38	4	18	39	2	18	39	12	40	38	—	4	78	77	109
13-/22-MXQ16- 30	48	4	19	48	2	19	48	12	50	48	—	4	88	87	119
13-/22-MXQ16- 40	58	4	19	58	2	19	58	12	60	58	—	4	98	97	129
13-/22-MXQ16- 50	40	6	—(Note)	—(Note)	3	48	45	20	68	68	91	8	114	113	145
13-/22-MXQ16- 75	46	6	21	52	3	73	52	15	105	93	123	8	146	145	177
13-/22-MXQ16-100	44	8	36	44	4	80	88	18	145	118	166	8	189	188	220
13-/22-MXQ16-125	44	10	17	44	5	105	88	23	165	143	191	8	214	213	245

Note) Refer to the bottom view of 13-MXQ16-50.

**Dimensions: <sup>13-</sup><sub>22-</sub>MXQ16**

Axial piping type (ø16): <sup>13-</sup><sub>22-</sub>MXQ16-□□P



\* Other dimensions are the same as basic style.

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

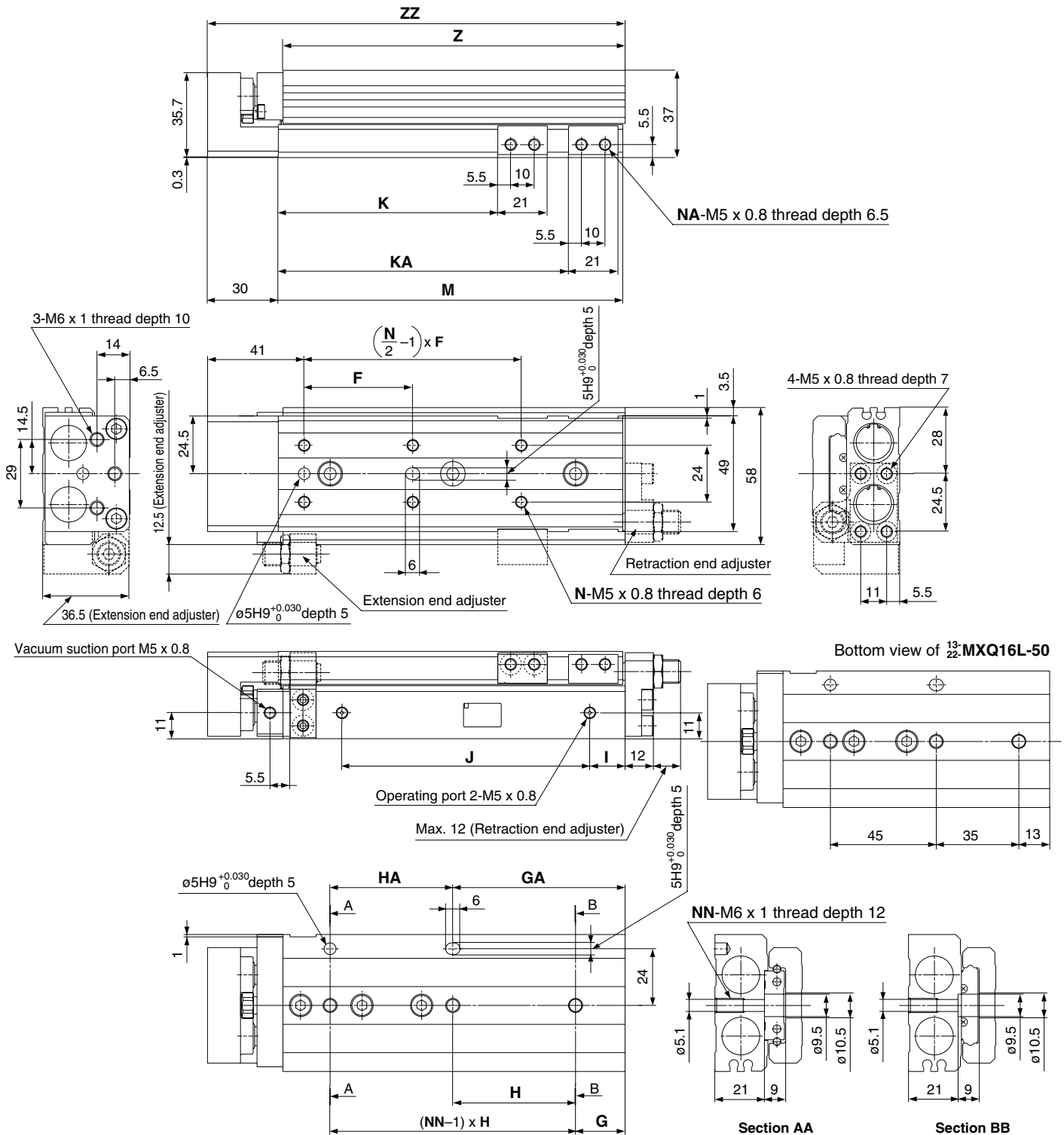
Air preparation equipment

Pressure switch

Clean gas filter

Dimensions: 13-22-MXQ16L / Symmetric type

Basic style

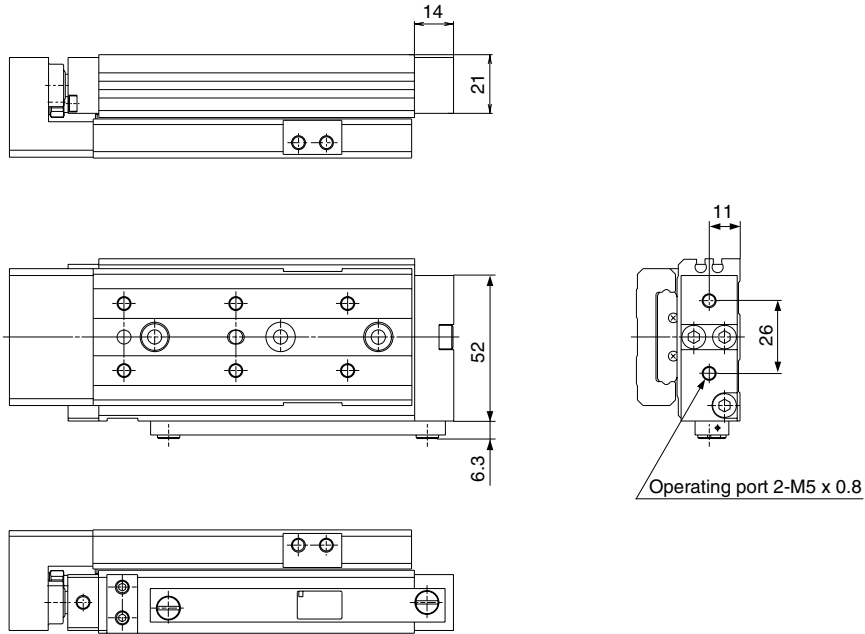


Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXQ16L- 10	38	4	18	39	2	18	39	12	40	28	—	4	78	77	109
13-/22-MXQ16L- 20	38	4	18	39	2	18	39	12	40	38	—	4	78	77	109
13-/22-MXQ16L- 30	48	4	19	48	2	19	48	12	50	48	—	4	88	87	119
13-/22-MXQ16L- 40	58	4	19	58	2	19	58	12	60	58	—	4	98	97	129
13-/22-MXQ16L- 50	40	6	<small>(Note)</small>	<small>(Note)</small>	3	48	45	20	68	68	91	8	114	113	145
13-/22-MXQ16L- 75	46	6	21	52	3	73	52	15	105	93	123	8	146	145	177
13-/22-MXQ16L-100	44	8	36	44	4	80	88	18	145	118	166	8	189	188	220
13-/22-MXQ16L-125	44	10	17	44	5	105	88	23	165	143	191	8	214	213	245

Note) Refer to the bottom view of 13-MXQ16L-50.

**Dimensions: <sup>13-</sup><sub>22-</sub>MXQ16L / Symmetric type**

Axial piping type (ø16): <sup>13-</sup><sub>22-</sub>MXQ16L-□□P



\* Other dimensions are the same as basic style.

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

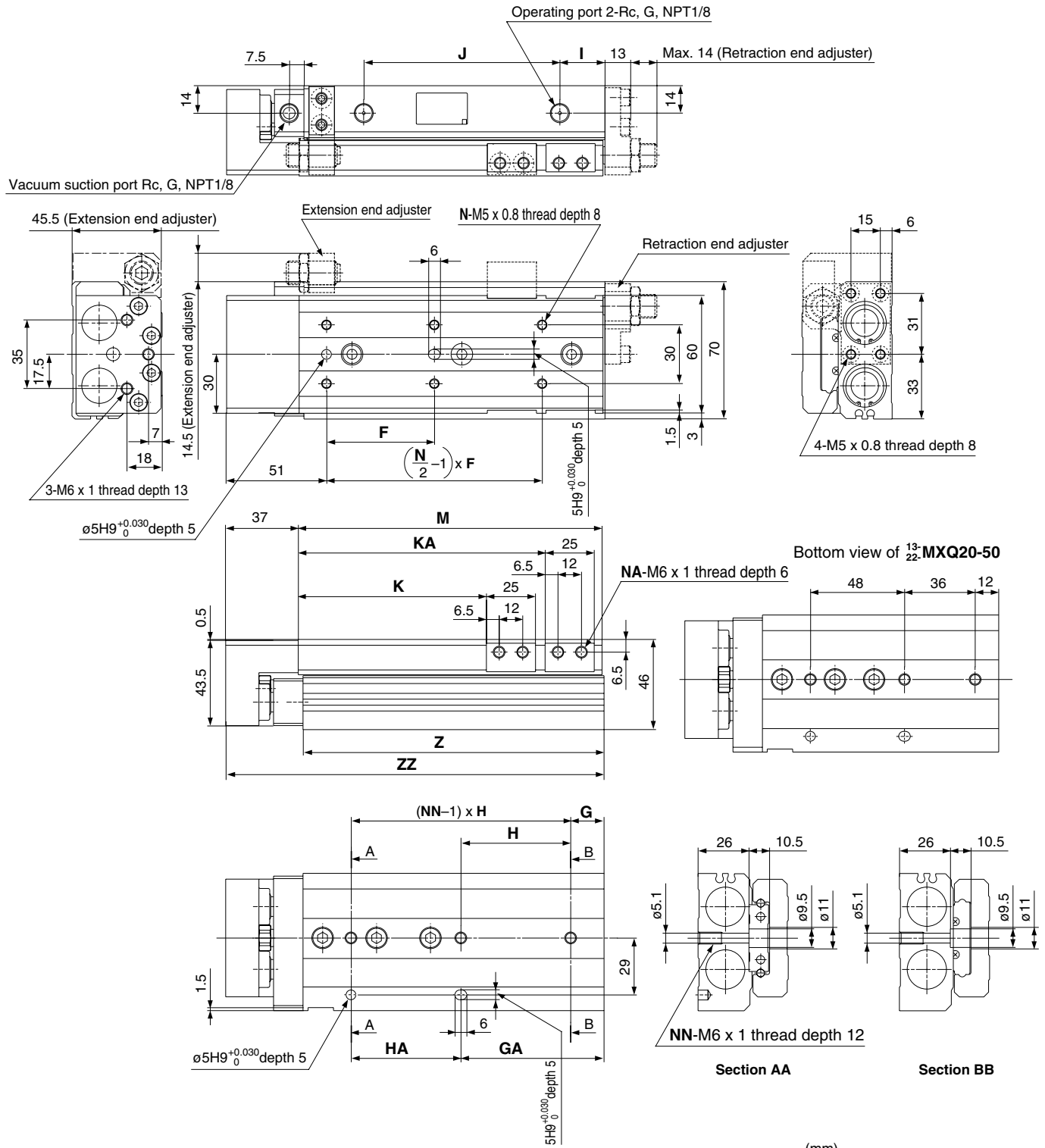
Air preparation equipment

Pressure switch

Clean gas filter

Dimensions: 13-22-MXQ20

Basic style

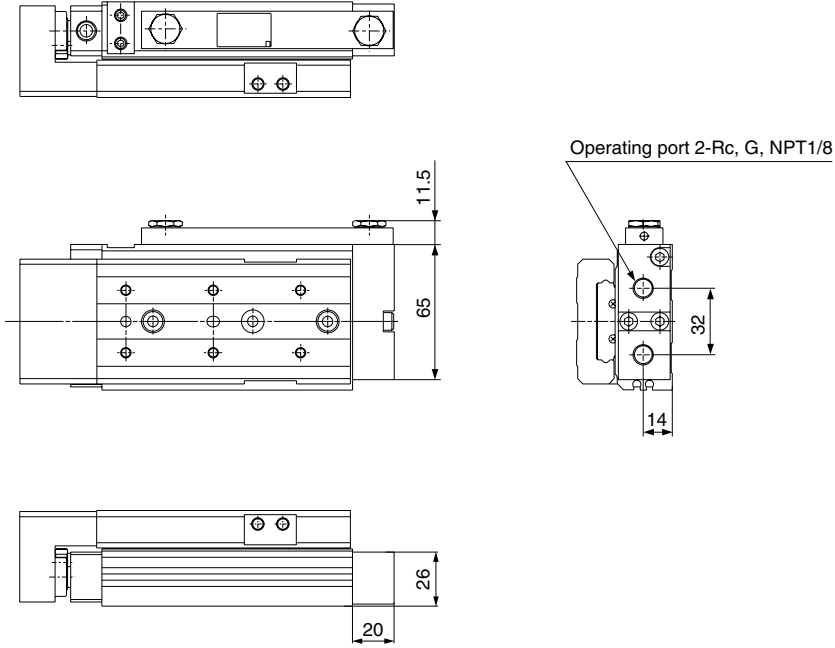


Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXQ20- 10	45	4	22	46	2	18	50	16	46	31	—	4	94	92.5	132
13-/22-MXQ20- 20	40	4	22	46	2	18	50	16	46	41	—	4	94	92.5	132
13-/22-MXQ20- 30	48	4	22	46	2	18	50	16	46	51	—	4	94	92.5	132
13-/22-MXQ20- 40	58	4	22	56	2	22	56	16	56	61	—	4	104	102.5	142
13-/22-MXQ20- 50	42	6	(Note)	(Note)	3	48	48	18	72	71	—	4	122	120.5	160
13-/22-MXQ20- 75	55	6	17	56	3	73	56	23	100	96	126	8	155	153.5	193
13-/22-MXQ20-100	50	8	18	56	4	74	112	25	155	121	183	8	212	210.5	250
13-/22-MXQ20-125	55	8	37	59	4	96	118	18	190	146	211	8	240	238.5	278
13-/22-MXQ20-150	62	8	56	62	4	118	124	21	215	171	239	8	268	266.5	306

Note) Refer to the bottom view of 13-MXQ20-50.

**Dimensions: <sup>13-</sup><sub>22-</sub>MXQ20**

**Axial piping type (ø20): <sup>13-</sup><sub>22-</sub>MXQ20-□□P**



\* Other dimensions are the same as basic style.

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

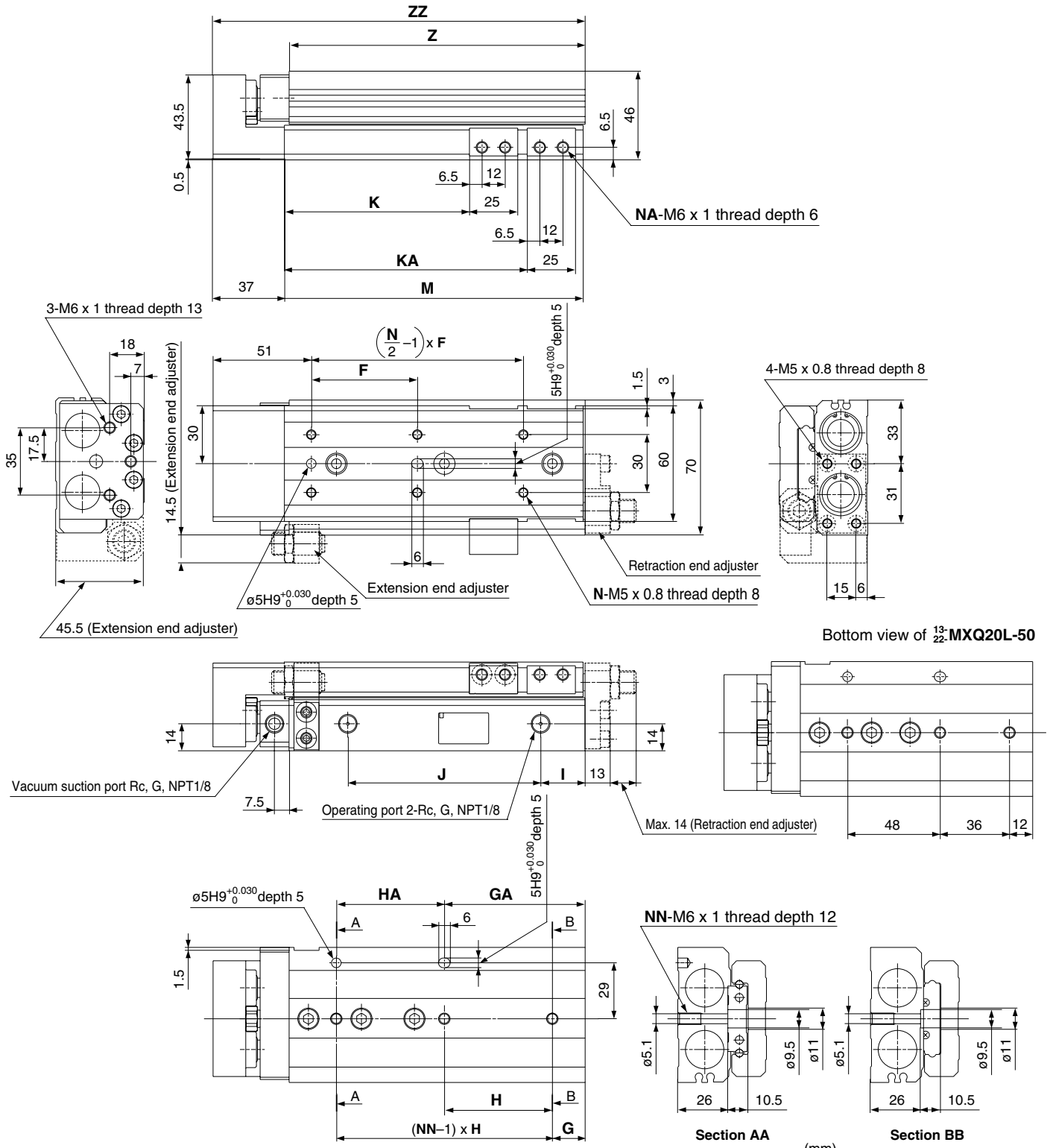
Air preparation equipment

Pressure switch

Clean gas filter

Dimensions: 13-22-MXQ20L / Symmetric type

Basic style

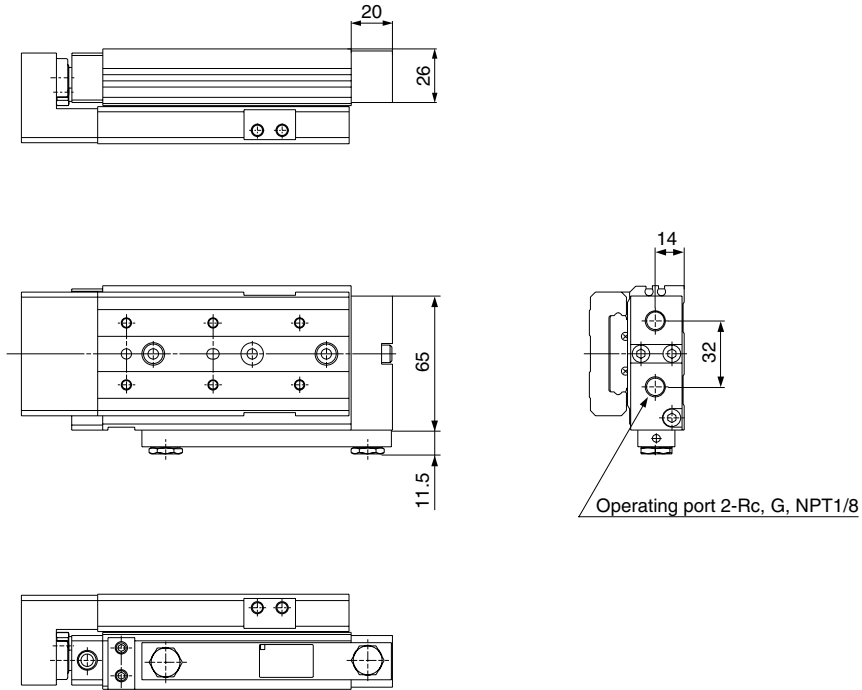


Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXQ20L- 10	45	4	22	46	2	18	50	16	46	31	—	4	94	92.5	132
13-/22-MXQ20L- 20	40	4	22	46	2	18	50	16	46	41	—	4	94	92.5	132
13-/22-MXQ20L- 30	48	4	22	46	2	18	50	16	46	51	—	4	94	92.5	132
13-/22-MXQ20L- 40	58	4	22	56	2	22	56	16	56	61	—	4	104	102.5	142
13-/22-MXQ20L- 50	42	6	Note)	Note)	3	48	48	18	72	71	—	4	122	120.5	160
13-/22-MXQ20L- 75	55	6	17	56	3	73	56	23	100	96	126	8	155	153.5	193
13-/22-MXQ20L-100	50	8	18	56	4	74	112	25	155	121	183	8	212	210.5	250
13-/22-MXQ20L-125	55	8	37	59	4	96	118	18	190	146	211	8	240	238.5	278
13-/22-MXQ20L-150	62	8	56	62	4	118	124	21	215	171	239	8	268	266.5	306

Note) Refer to the bottom view of 13-MXQ20L-50.

Dimensions: <sup>13-</sup><sub>22-</sub>MXQ20L / Symmetric type

Axial piping type (ø20): <sup>13-</sup><sub>22-</sub>MXQ20L-□□P



\* Other dimensions are the same as basic style.

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

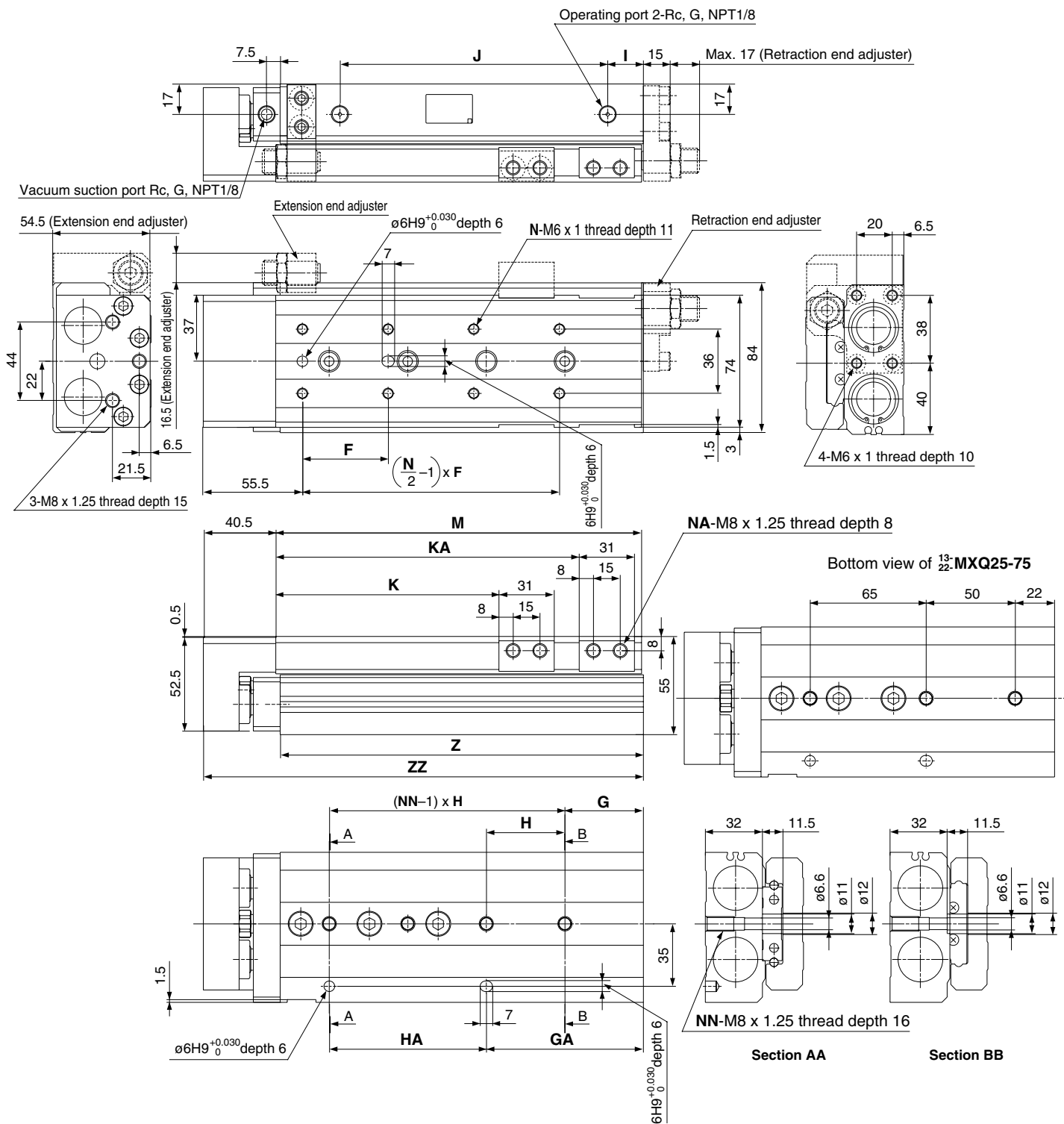
Air preparation equipment

Pressure switch

Clean gas filter

Dimensions: 13-22-MXQ25

Basic style

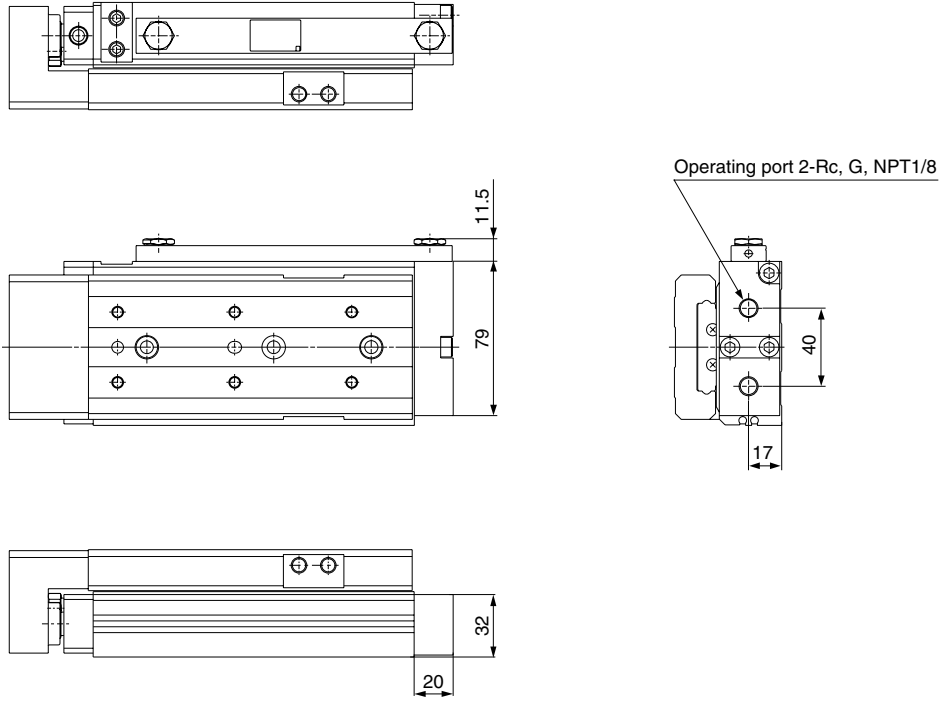


Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXQ25- 10	55	4	23	55	2	23	55	16	56	35	—	4	107	105.5	148.5
13-/22-MXQ25- 20	46	4	23	55	2	23	55	16	56	45	—	4	107	105.5	148.5
13-/22-MXQ25- 30	55	4	23	55	2	23	55	16	56	55	—	4	107	105.5	148.5
13-/22-MXQ25- 40	65	4	23	65	2	23	65	16	66	65	—	4	117	115.5	158.5
13-/22-MXQ25- 50	75	4	32	80	2	32	80	16	90	75	—	4	141	139.5	182.5
13-/22-MXQ25- 75	60	6	—(Note)	—(Note)	3	72	65	31	100	100	—	4	166	164.5	207.5
13-/22-MXQ25-100	48	8	44	44	4	88	88	20	150	125	170	8	205	203.5	246.5
13-/22-MXQ25-125	60	8	31	66	4	97	132	18	205	150	223	8	258	256.5	299.5
13-/22-MXQ25-150	65	8	56	66	4	122	132	18	230	175	248	8	283	281.5	342.5

Note) Refer to the bottom view of 13-MXQ25-75.

Dimensions: 13-22-MXQ25

Axial piping type (ø25): 13-22-MXQ25-□□P



\* Other dimensions are the same as basic style.

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

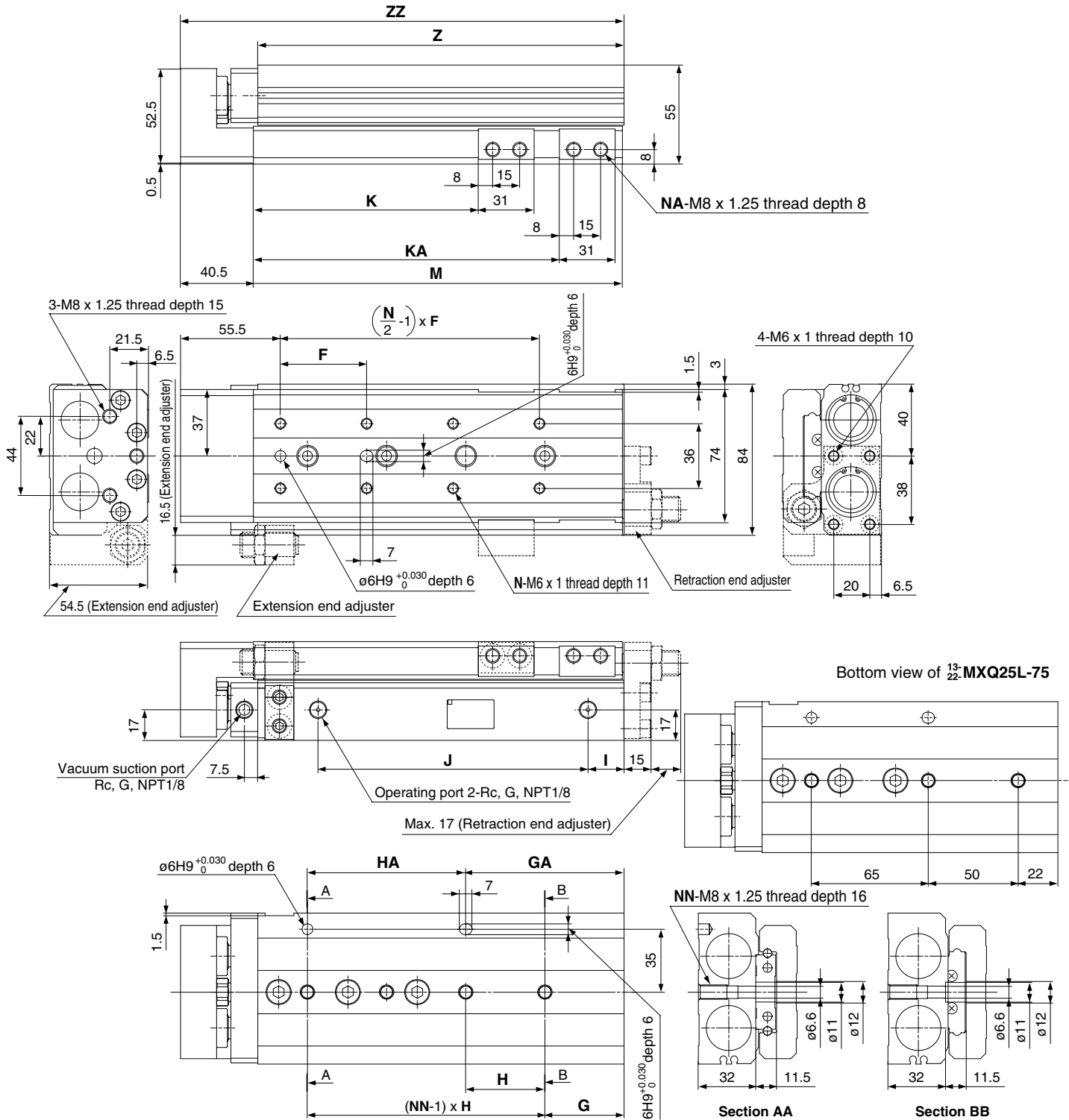
Air preparation equipment

Pressure switch

Clean gas filter

Dimensions: 13-22-MXQ25L / Symmetric type

Basic style

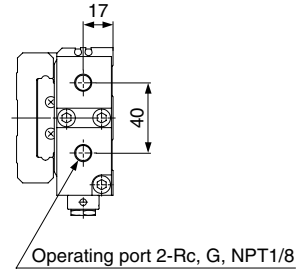
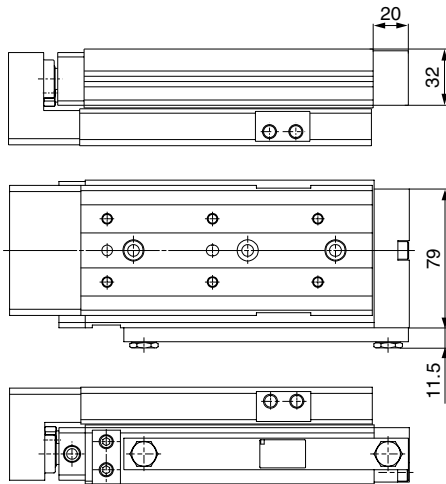


Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXQ25L- 10	55	4	23	55	2	23	55	16	56	35	—	4	107	105.5	148.5
13-/22-MXQ25L- 20	46	4	23	55	2	23	55	16	56	45	—	4	107	105.5	148.5
13-/22-MXQ25L- 30	55	4	23	55	2	23	55	16	56	55	—	4	107	105.5	148.5
13-/22-MXQ25L- 40	65	4	23	65	2	23	65	16	66	65	—	4	117	115.5	158.5
13-/22-MXQ25L- 50	75	4	32	80	2	32	80	16	90	75	—	4	141	139.5	182.5
13-/22-MXQ25L- 75	60	6	Note)	Note)	3	72	65	31	100	100	—	4	166	164.5	207.5
13-/22-MXQ25L-100	48	8	44	44	4	88	88	20	150	125	170	8	205	203.5	246.5
13-/22-MXQ25L-125	60	8	31	66	4	97	132	18	205	150	223	8	258	256.5	299.5
13-/22-MXQ25L-150	65	8	56	66	4	122	132	18	230	175	248	8	283	281.5	342.5

Note) Refer to the bottom view of 13-MXQ25L-75.

**Dimensions: 13-22-MXQ25L / Symmetric type**

Axial piping type (ø25): 13-22-MXQ25L-□□P



\* Other dimensions are the same as those of basic style.

**Made to Order**

**1. Anti-corrosive specifications for guide unit -X42**

13-22-MXQ

Standard model no. -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 <sup>Note 2</sup>.

Note 1) Dimensions are the same as standard type.

Note 2) Special anti-corrosive treatment makes table and the guide block black.

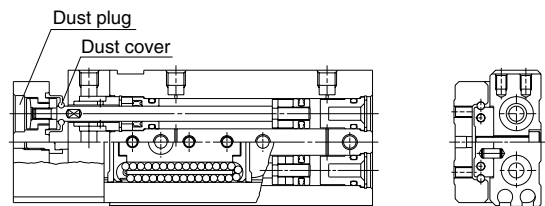
**2. Dust cover and dust plug made by fluoro rubber -X52**

13-MXQ

Standard model no. -X52

Fluoro rubber is used for the dust cover and the dust plug instead of silicone rubber for standard one.

Note 1) Dimensions are the same as standard type.



**Specific Product Precautions**

Be sure to read before handling.

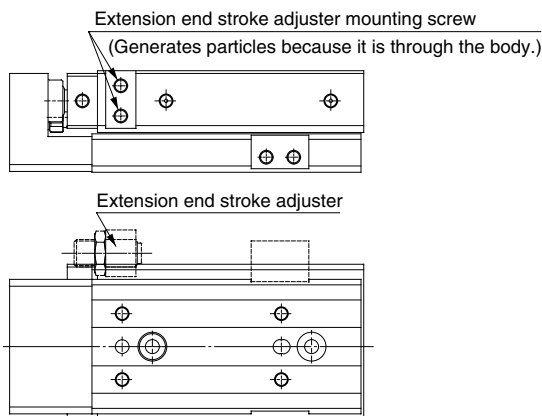
**Operating Precautions**

**Caution**

In case the extension end stroke adjuster is removed, plug the mounting hole.

Particle generation may occur because the bottom hole of the mounting screw penetrates the body. Consult SMC for more information.

Applicable bore size (mm)	12, 16, 20, 25
---------------------------	----------------



In case of types without extension end adjuster, the hole is plugged with a hexagon socket head set screw at the time of shipment.

