

Series 13-22-MXS Air slide table ø6, ø8, ø12, ø16, ø20, ø25

How to Order

Port type

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

Clean series

13 Vacuum suction type (Special treatment on guide)

22 Copper, fluorine and silicon-free + low particle generation Vacuum suction type

13-MXS 12 50 M9N

22-MXS 12 50 M9N

Symmetric type

Nil	Standard type
L (Note 2)	Symmetric type

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
AT	Extension end
A	Retraction end
	Both ends

Functional option

Nil	Standard type
P (Note 1)	Axial piping type

Note 1) The combination of axial piping type and both ends adjusters or retraction end adjuster is not available.

Note 2) Axial piping type is not available for symmetric type.

Number of auto switches

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

Type of auto switch

Nil	Without auto switch

* Refer to the table below for auto switch model numbers.



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)			
							In-line					
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

Bore size (mm)		6	8	12	16	20	25
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 (No freezing)					
Piston speed		50 to 300 mm/s					
Cushion		Rubber bumper (Standard, With stroke adjuster)					
Lubrication		Non-lube					
Stroke length tolerance		$^{+1}_0$ mm					
Grease		13-: Fluorine grease 22-: Lithium soap based grease					
Particle generation grade (Refer to front matter pages 13 to 22 for details.)	Without adjuster	13-/22-: Grade 3					
	Rubber stopper						
	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

With stroke adjuster	Extension end (AS)	Stroke adjustment range 0 to 5 mm
	Retraction end (AT)	
	Both ends (A)	

Auto switches / Proper mounting position at stroke end detection



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-MXS6	5.9	5.6	5.6	5.6	17.6	23.6	—	—	—	—	3.6 (1.1)	3.6 (1.1)	3.6 (1.1)	15.6 (3.1)	21.6 (19.1)	—	—	—	—	4.5
13-/22-MXS8	7.6	10.9	5.9	6.9	14.9	22.9	47.9	—	—	—	8.9 (6.4)	3.9 (1.4)	4.9 (2.4)	12.9 (10.4)	20.9 (18.4)	45.9 (43.4)	—	—	—	5
13-/22-MXS12	11.6	28.4	18.4	8.4	10.4	20.4	41.4	70.4	—	—	26.4 (23.9)	16.4 (13.9)	6.4 (3.9)	8.4 (5.9)	18.4 (15.9)	39.4 (36.9)	68.4 (65.9)	—	—	6
13-/22-MXS16	16.3	28.7	18.7	8.7	8.7	13.7	38.7	61.7	86.7	—	26.7 (24.2)	16.7 (14.2)	6.7 (4.2)	6.7 (4.2)	11.7 (9.2)	36.7 (34.2)	59.7 (57.2)	84.7 (82.2)	—	7
13-/22-MXS20	18.9	32.6	22.6	12.6	12.6	17.6	31.6	59.6	88.6	115.6	30.6 (28.1)	20.6 (18.1)	10.6 (8.1)	10.6 (8.1)	15.6 (13.1)	29.6 (27.1)	57.6 (55.1)	86.6 (84.1)	113.6 (111.1)	8
13-/22-MXS25	23	37.5	27.5	17.5	17.5	20.5	36.5	52.5	85.5	100.5	35.5 (33)	25.5 (23)	15.5 (13)	15.5 (13)	18.5 (16)	34.5 (32)	50.5 (48)	83.5 (81)	98.5 (96)	8

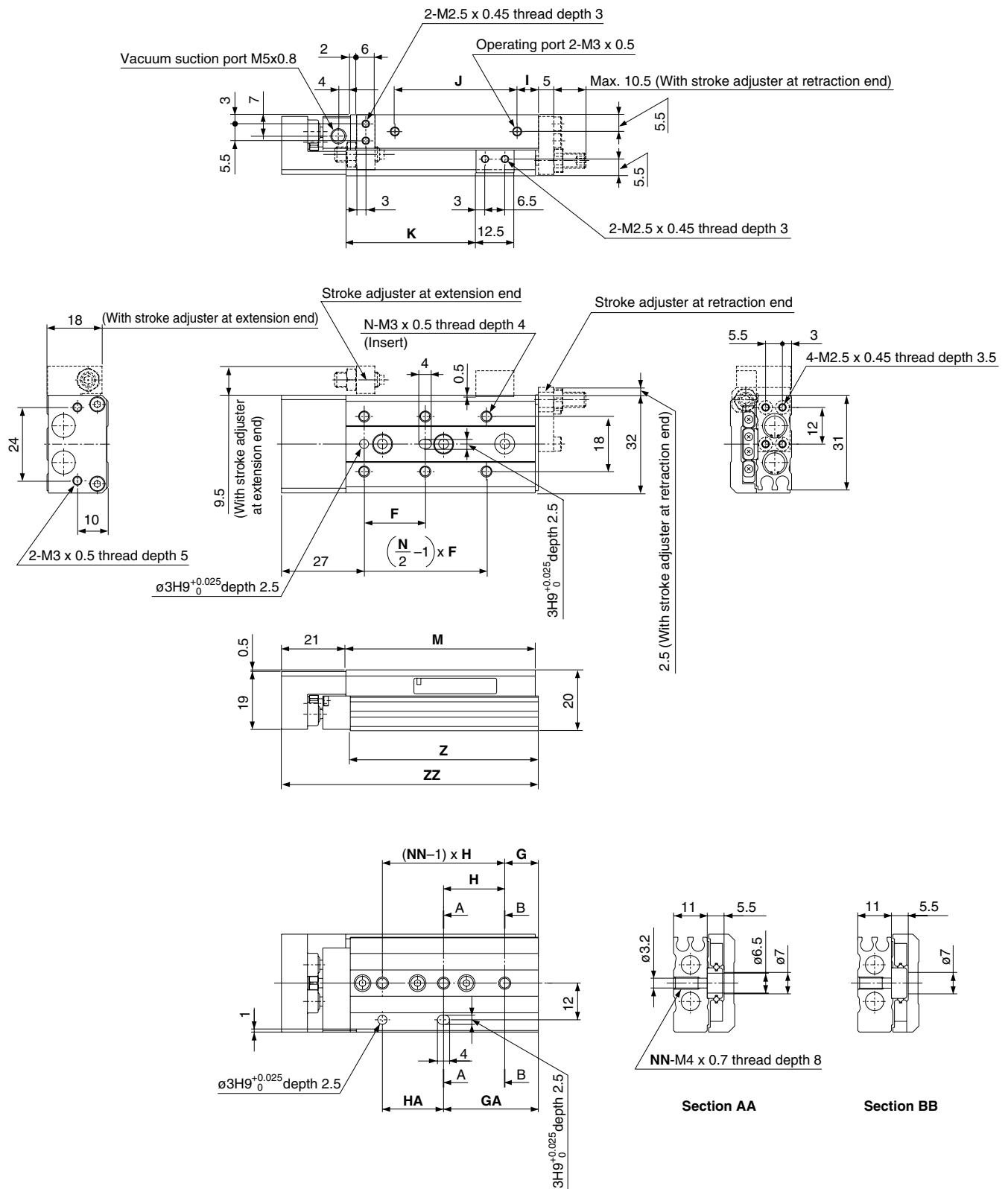
(): denotes D-A93.

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-MXS6	10	9.6	9.6	9.6	21.6	27.6	—	—	—	—	-0.4	-0.4	-0.4	11.6	17.5	—	—	—	—	1.5
13-/22-MXS8	11.6	14.9	9.9	10.9	18.9	26.9	51.9	—	—	—	4.9	-0.1	0.9	8.9	16.9	41.9	—	—	—	1.5
13-/22-MXS12	15.6	32.4	22.4	12.4	14.4	24.4	45.4	74.4	—	—	22.4	12.4	2.4	4.4	14.4	35.4	64.4	—	—	2.5
13-/22-MXS16	20.3	32.7	22.7	12.7	12.7	17.7	42.7	65.7	90.7	—	22.7	12.7	2.7	2.7	7.7	32.7	55.7	80.7	—	3
13-/22-MXS20	22.9	36.6	26.6	16.6	16.6	21.6	35.6	63.6	92.6	119.6	26.6	16.6	6.6	6.6	11.6	25.6	53.6	82.6	109.6	3
13-/22-MXS25	27	41.5	31.5	21.5	21.5	24.5	40.5	56.5	89.5	104.5	31.5	21.5	11.5	11.5	14.5	30.5	46.5	79.5	94.5	3

Dimensions: 13-22-MXS6

Basic style

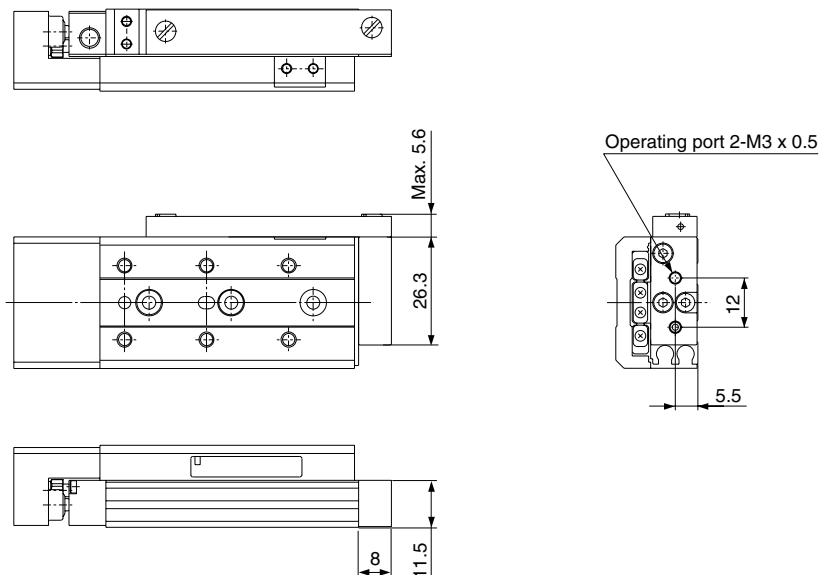


(mm)

Model	F	N	G	H	NN	GA	HA	I	J	K	M	Z	ZZ
13-/22-MXS6-10	20	4	6	25	2	11	20	10	17	22.5	42	41.5	64
13-/22-MXS6-20	30	4	6	35	2	21	20	10	27	32.5	52	51.5	74
13-/22-MXS6-30	20	6	11	20	3	31	20	7	40	42.5	62	61.5	84
13-/22-MXS6-40	28	6	13	30	3	43	30	19	50	52.5	84	83.5	106
13-/22-MXS6-50	38	6	17	24	4	41	48	25	60	62.5	100	99.5	122

Dimensions: ¹³⁻₂₂₋MXS6

Axial piping type (ø6): ¹³⁻₂₂₋MXS6-□□P



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

Air cylinder

Rotary actuator

Air gripper

Directional control
valve

Flow control
equipment

Filter, Pressure
control equipment

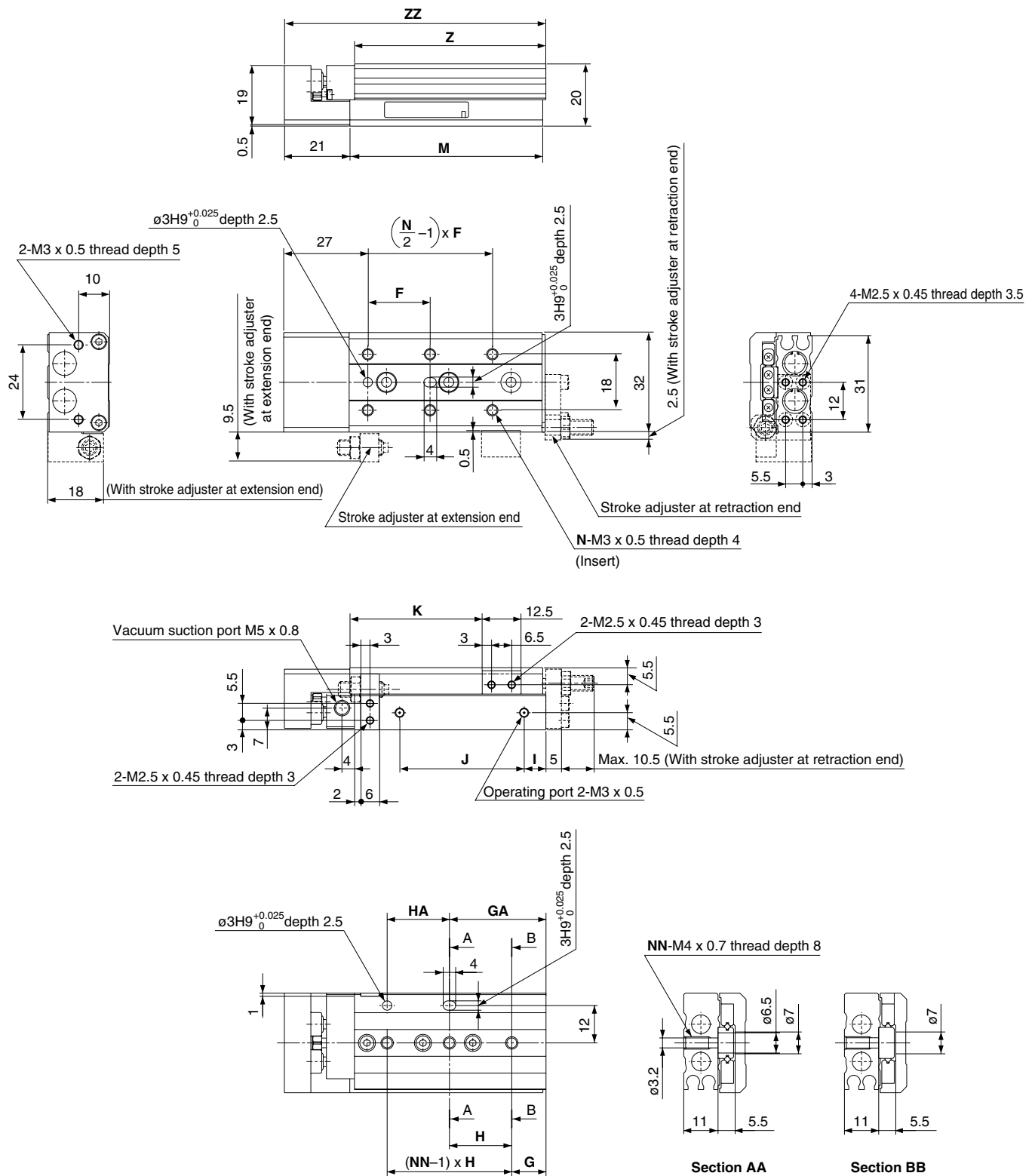
Fittings & Tubing

Air preparation
equipment

Pressure switch

Clean gas filter

Dimensions: **13-22-MXS6L / Symmetric type**

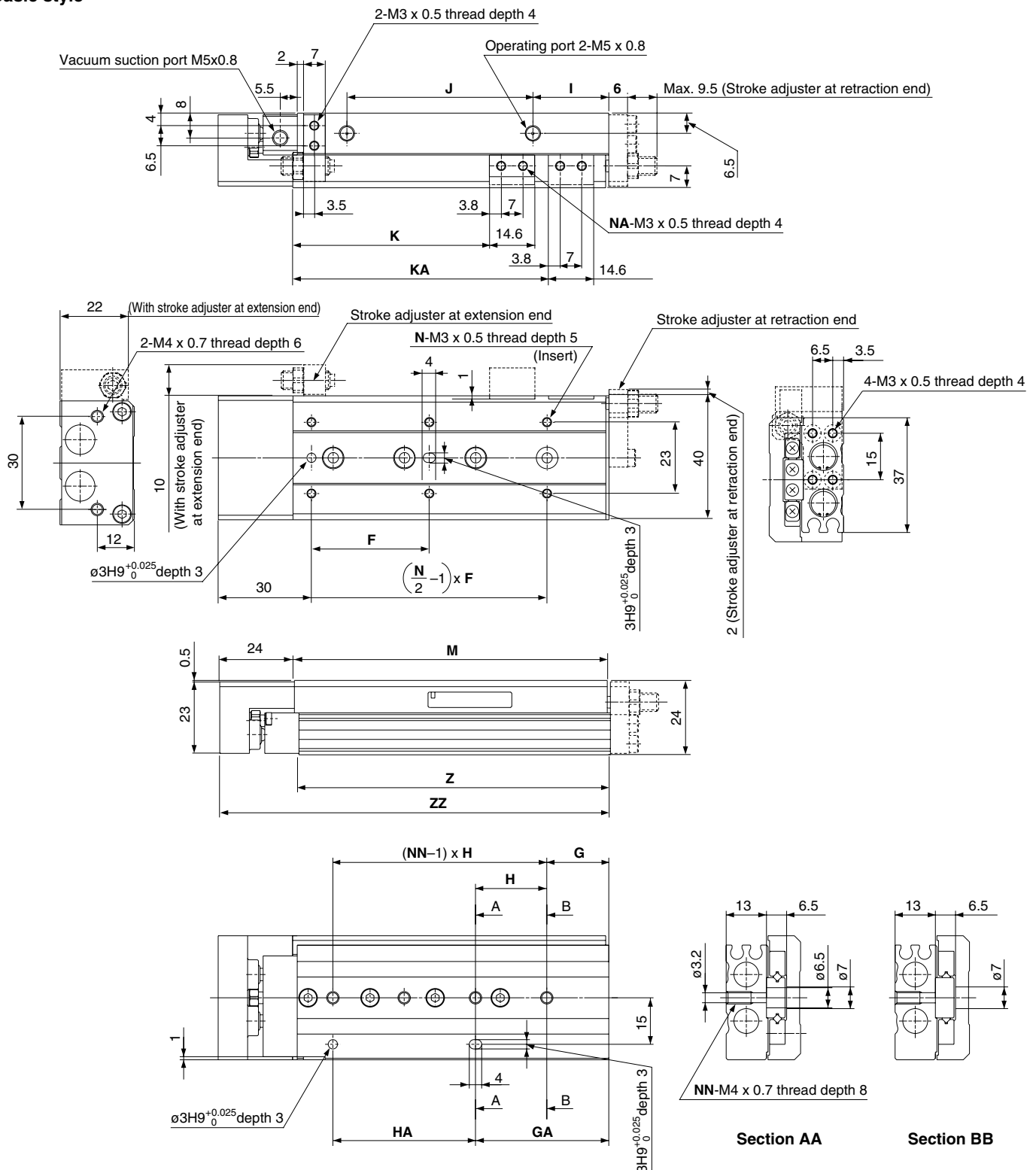


(mm)

Model	F	N	G	H	NN	GA	HA	I	J	K	M	Z	ZZ
13-/22-MXS6L-10	20	4	6	25	2	11	20	10	17	22.5	42	41.5	64
13-/22-MXS6L-20	30	4	6	35	2	21	20	10	27	32.5	52	51.5	74
13-/22-MXS6L-30	20	6	11	20	3	31	20	7	40	42.5	62	61.5	84
13-/22-MXS6L-40	28	6	13	30	3	43	30	19	50	52.5	84	83.5	106
13-/22-MXS6L-50	38	6	17	24	4	41	48	25	60	62.5	100	99.5	122

Dimensions: 13-22-MXS8

Basic style

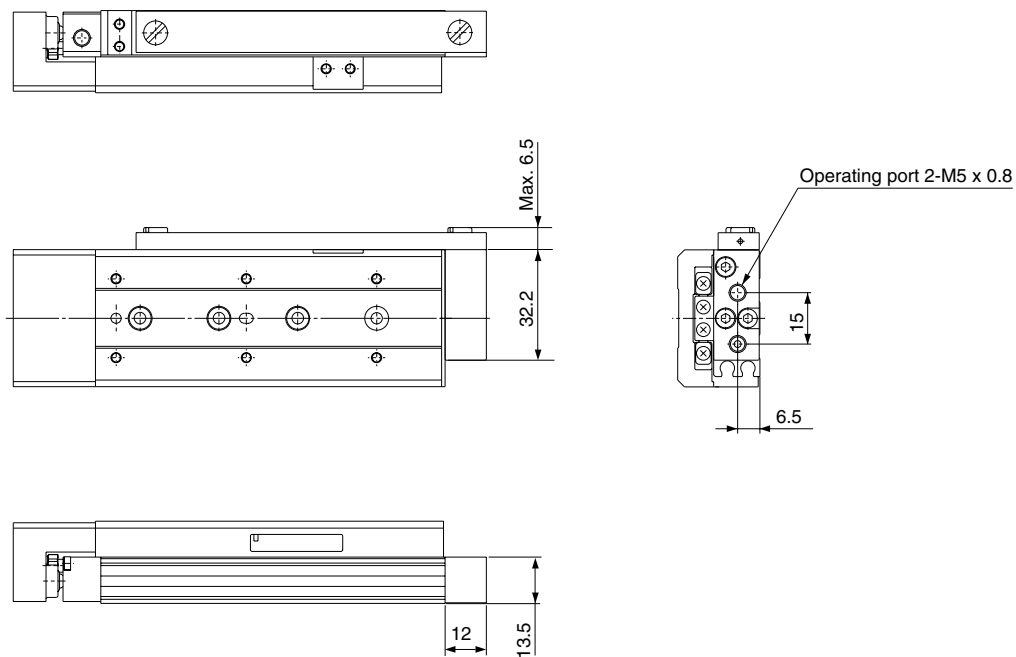


(mm)

Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXS8-10	25	4	9	28	2	17	20	13	19.5	23.5	—	2	49	48.5	74
13-/22-MXS8-20	25	4	12	30	2	12	30	8.5	29	33.5	—	2	54	53.5	79
13-/22-MXS8-30	40	4	13	20	3	33	20	9.5	39	43.5	—	2	65	64.5	90
13-/22-MXS8-40	50	4	15	28	3	43	28	10.5	56	53.5	—	2	83	82.5	108
13-/22-MXS8-50	38	6	20	23	4	43	46	24.5	60	63.5	82.5	4	101	100.5	126
13-/22-MXS8-75	50	6	27	28	5	83	56	38.5	96	88.5	132.5	4	151	150.5	176

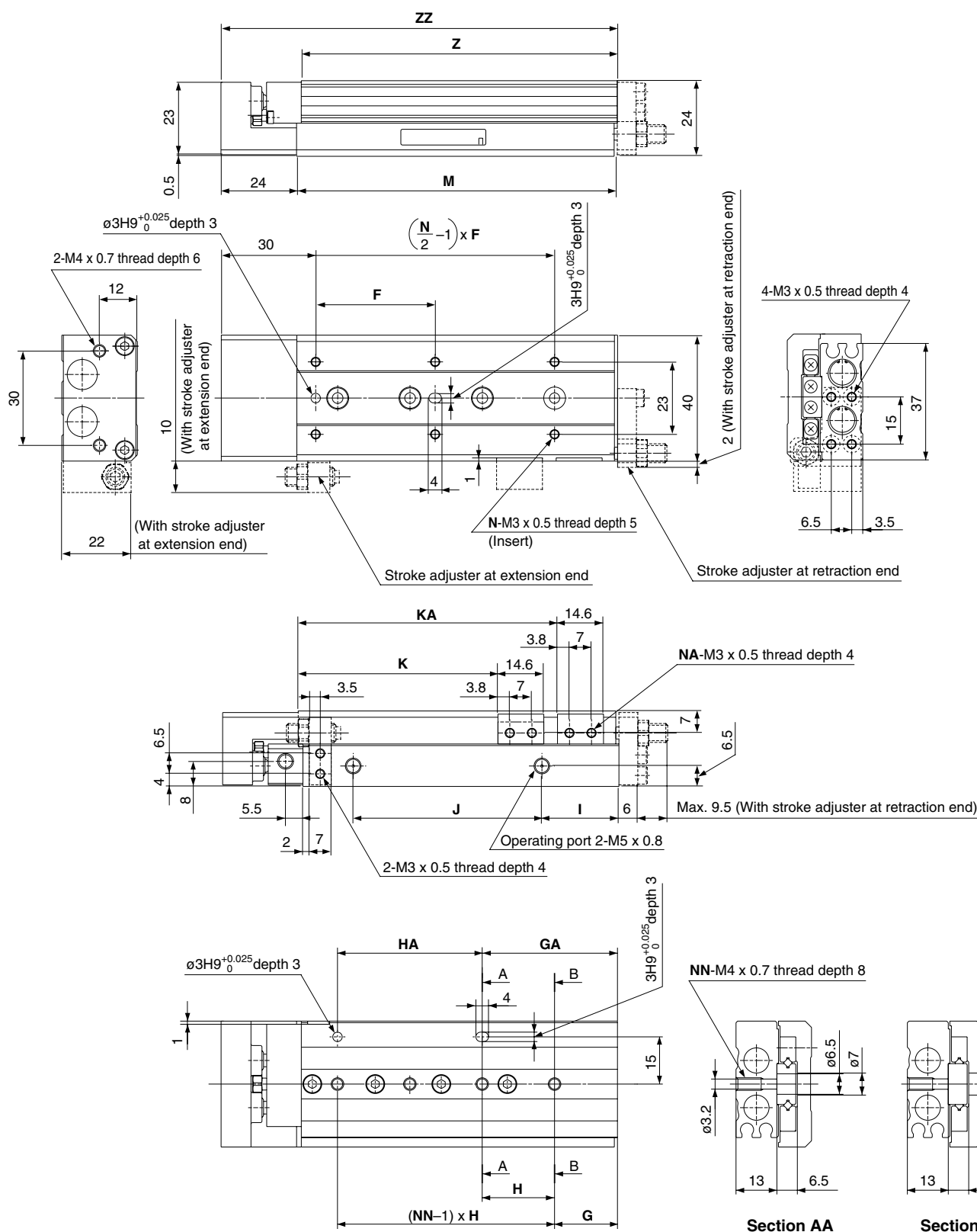
Dimensions: ¹³⁻₂₂₋**MXS8**

Axial piping type (ø8): ¹³⁻₂₂₋**MXS8-□□P**



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

Dimensions: $\frac{13}{22}$ -MXS8L / Symmetric type



(mm)															
Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXS8L-10	25	4	9	28	2	17	20	13	19.5	23.5	—	2	49	48.5	74
13-/22-MXS8L-20	25	4	12	30	2	12	30	8.5	29	33.5	—	2	54	53.5	79
13-/22-MXS8L-30	40	4	13	20	3	33	20	9.5	39	43.5	—	2	65	64.5	90
13-/22-MXS8L-40	50	4	15	28	3	43	28	10.5	56	53.5	—	2	83	82.5	108
13-/22-MXS8L-50	38	6	20	23	4	43	46	24.5	60	63.5	82.5	4	101	100.5	126
13-/22-MXS8L-75	50	6	27	28	5	83	56	38.5	96	88.5	132.5	4	151	150.5	176

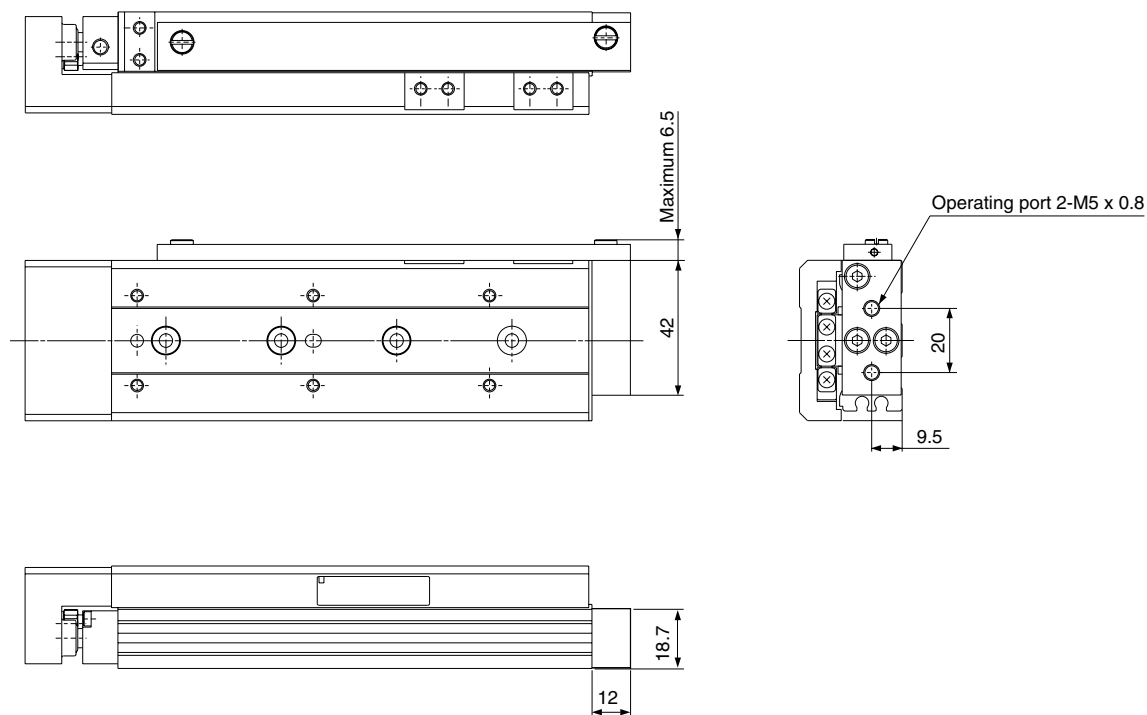
Basic style



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXS12-10	35	4	15	40	2	15	40	10	40	26.5	—	2	71	70	99
13-/22-MXS12-20	35	4	15	40	2	15	40	10	40	36.5	—	2	71	70	99
13-/22-MXS12-30	35	4	15	40	2	15	40	10	40	46.5	—	2	71	70	99
13-/22-MXS12-40	50	4	17	25	3	42	25	10	52	56.5	—	2	83	82	111
13-/22-MXS12-50	35	6	15	36	3	51	36	22	60	66.5	—	2	103	102	131
13-/22-MXS12-75	55	6	25	36	4	61	72	43	85	91.5	125.5	4	149	148	177
13-/22-MXS12-100	65	6	35	38	5	111	76	52	130	116.5	179.5	4	203	202	231

Dimensions / ¹³⁻₂₂₋ **MXS12**

Axial piping (ø12) ¹³⁻₂₂₋ **MXS12-□□P**



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

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

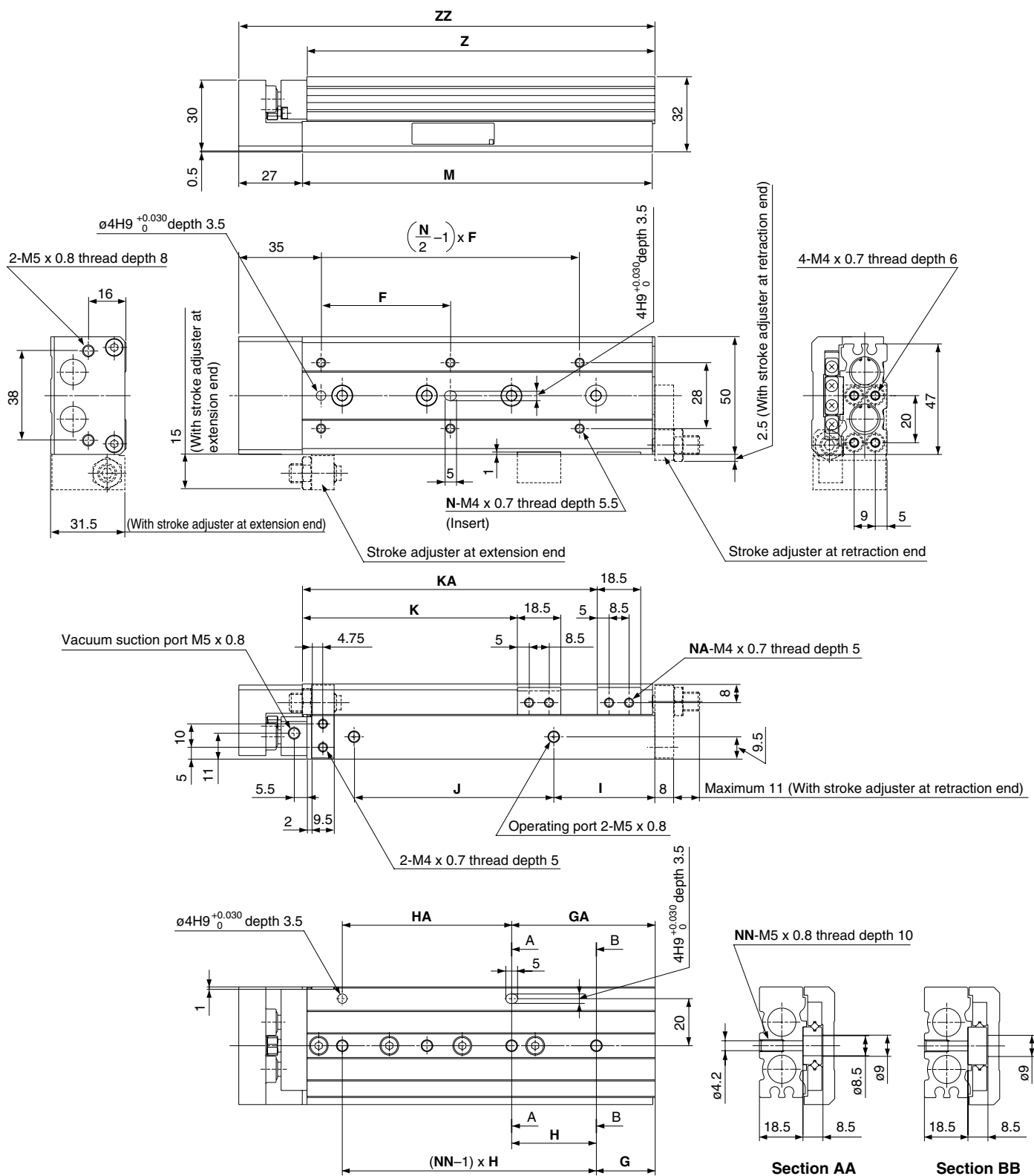
Fittings & Tubing

Air preparation equipment

Pressure switch

Clean gas filter

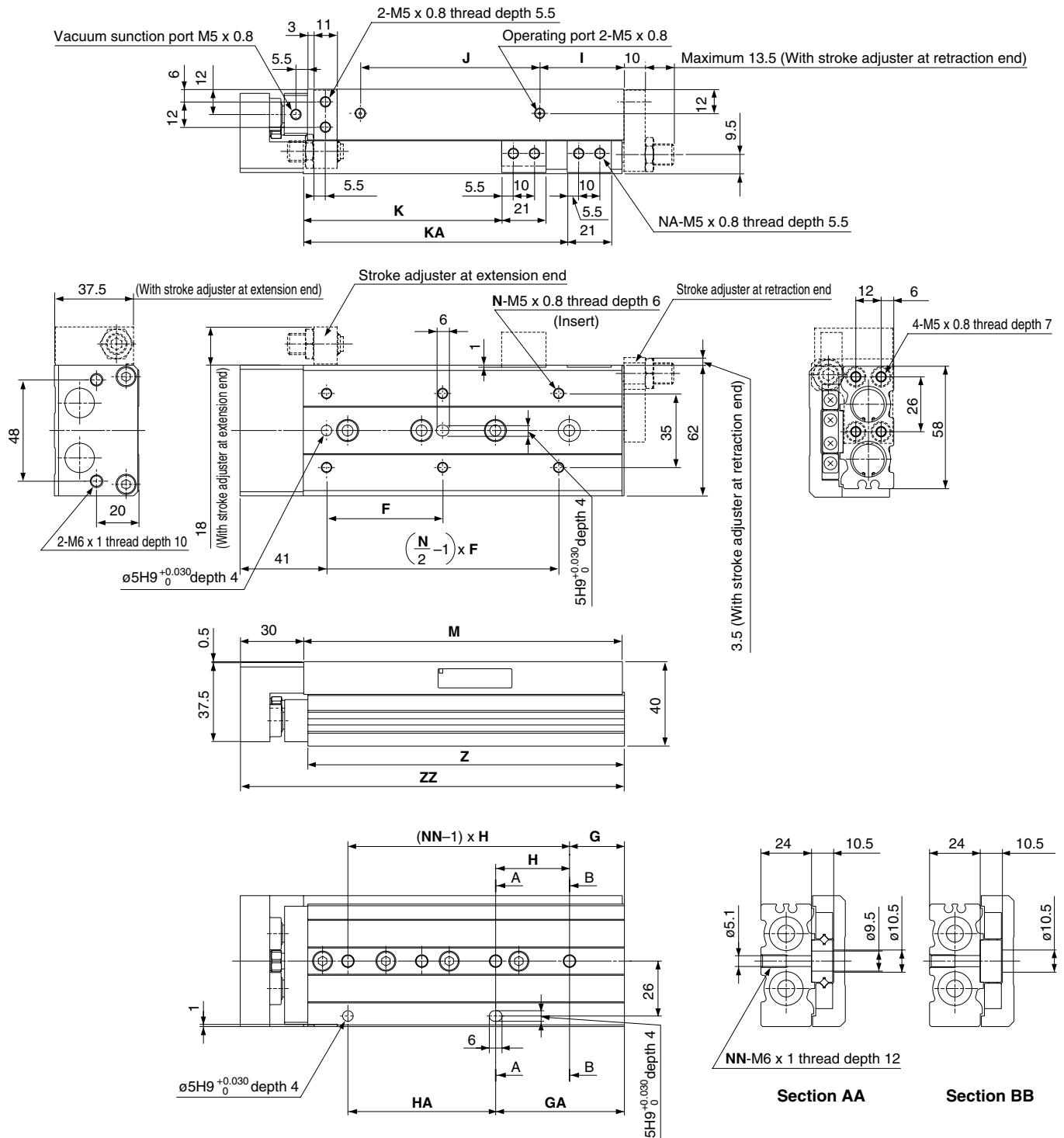
Dimensions / ¹³⁻₂₂₋MXS12L / Symmetric type



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13/-22-MXS12L-10	35	4	15	40	2	15	40	10	40	26.5	—	2	71	70	99
13/-22-MXS12L-20	35	4	15	40	2	15	40	10	40	36.5	—	2	71	70	99
13/-22-MXS12L-30	35	4	15	40	2	15	40	10	40	46.5	—	2	71	70	99
13/-22-MXS12L-40	50	4	17	25	3	42	25	10	52	56.5	—	2	83	82	111
13/-22-MXS12L-50	35	6	15	36	3	51	36	22	60	66.5	—	2	103	102	131
13/-22-MXS12L-75	55	6	25	36	4	61	72	43	85	91.5	125.5	4	149	148	177
13/-22-MXS12L-100	65	6	35	38	5	111	76	52	130	116.5	179.5	4	203	202	231

Dimensions / 13-22-MXS16

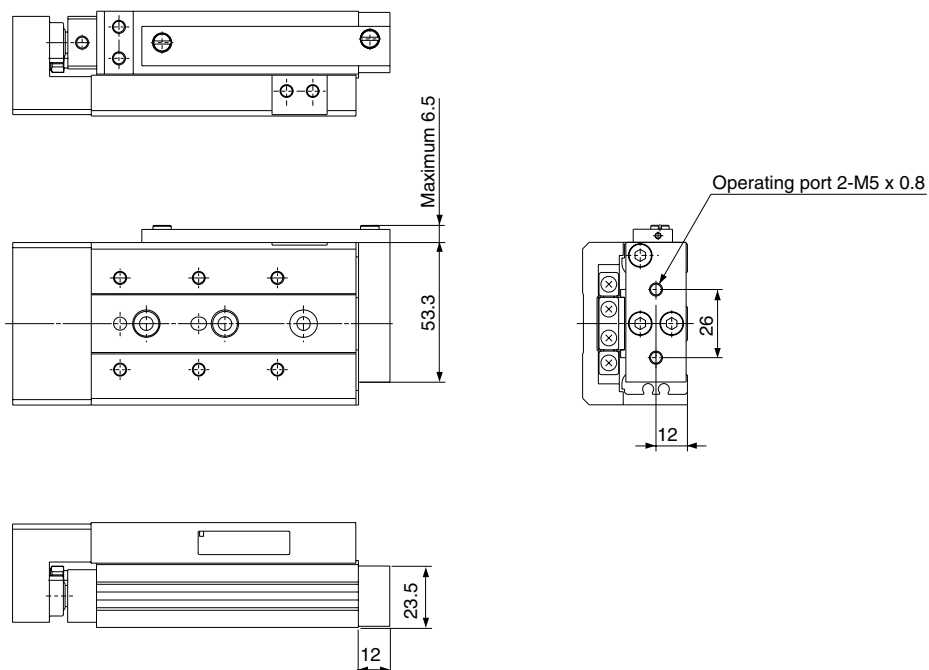
Basic style



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXS16-10	35	4	16	40	2	16	40	10	40	29	—	2	76	75	107
13-/22-MXS16-20	35	4	16	40	2	16	40	10	40	39	—	2	76	75	107
13-/22-MXS16-30	35	4	16	40	2	16	40	10	40	49	—	2	76	75	107
13-/22-MXS16-40	40	4	16	50	2	16	50	10	50	59	—	2	86	85	117
13-/22-MXS16-50	30	6	21	30	3	51	30	15	60	69	—	2	101	100	132
13-/22-MXS16-75	55	6	26	35	4	61	70	40	85	94	125	4	151	150	182
13-/22-MXS16-100	65	6	39	35	5	109	70	55	118	119	173	4	199	198	230
13-/22-MXS16-125	70	8	19	35	7	159	70	68	155	144	223	4	249	248	280

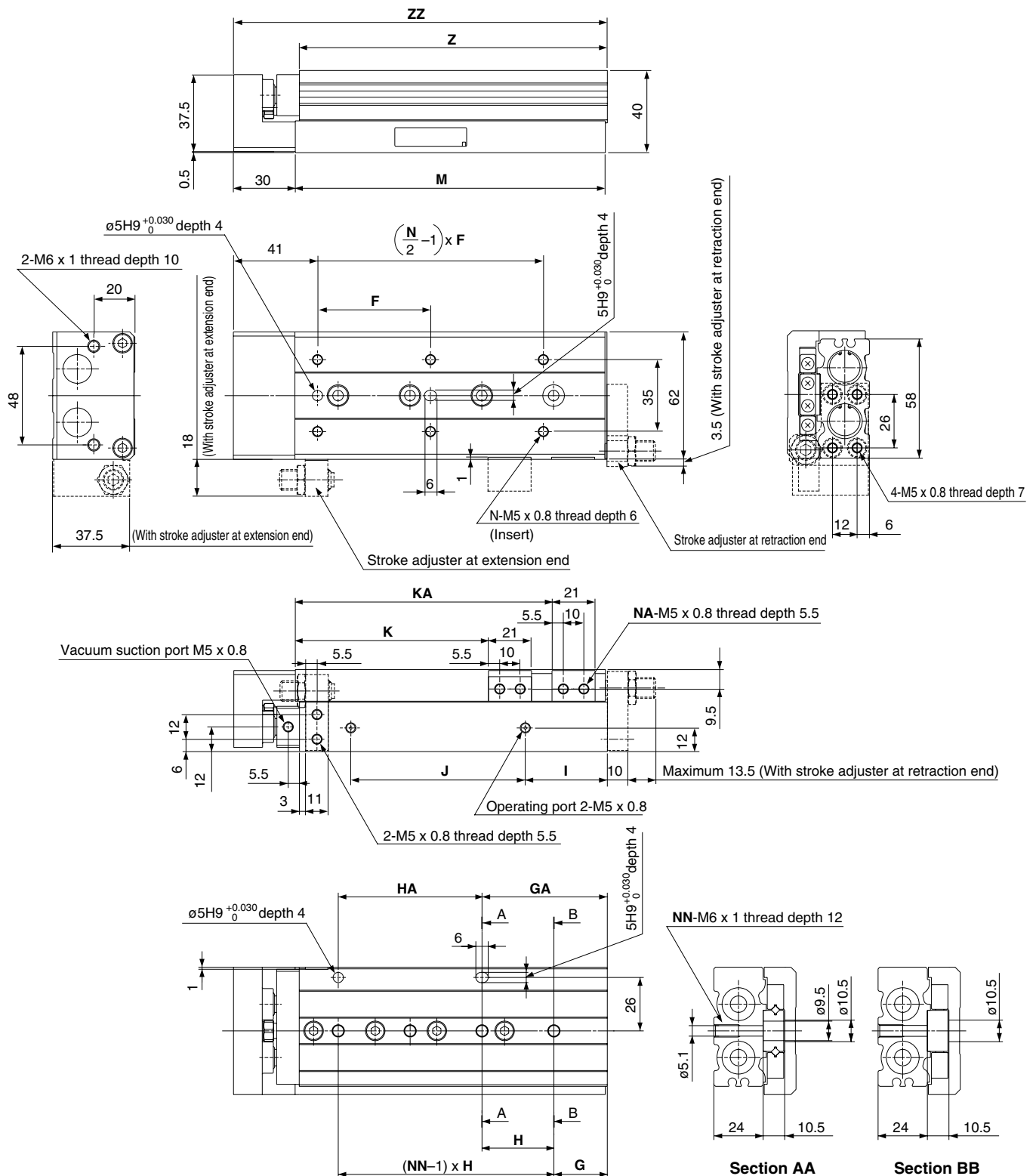
Dimensions / ¹³⁻₂₂₋**MXS16**

Axial piping (ø16) ¹³⁻₂₂₋**MXS16-□□P**



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

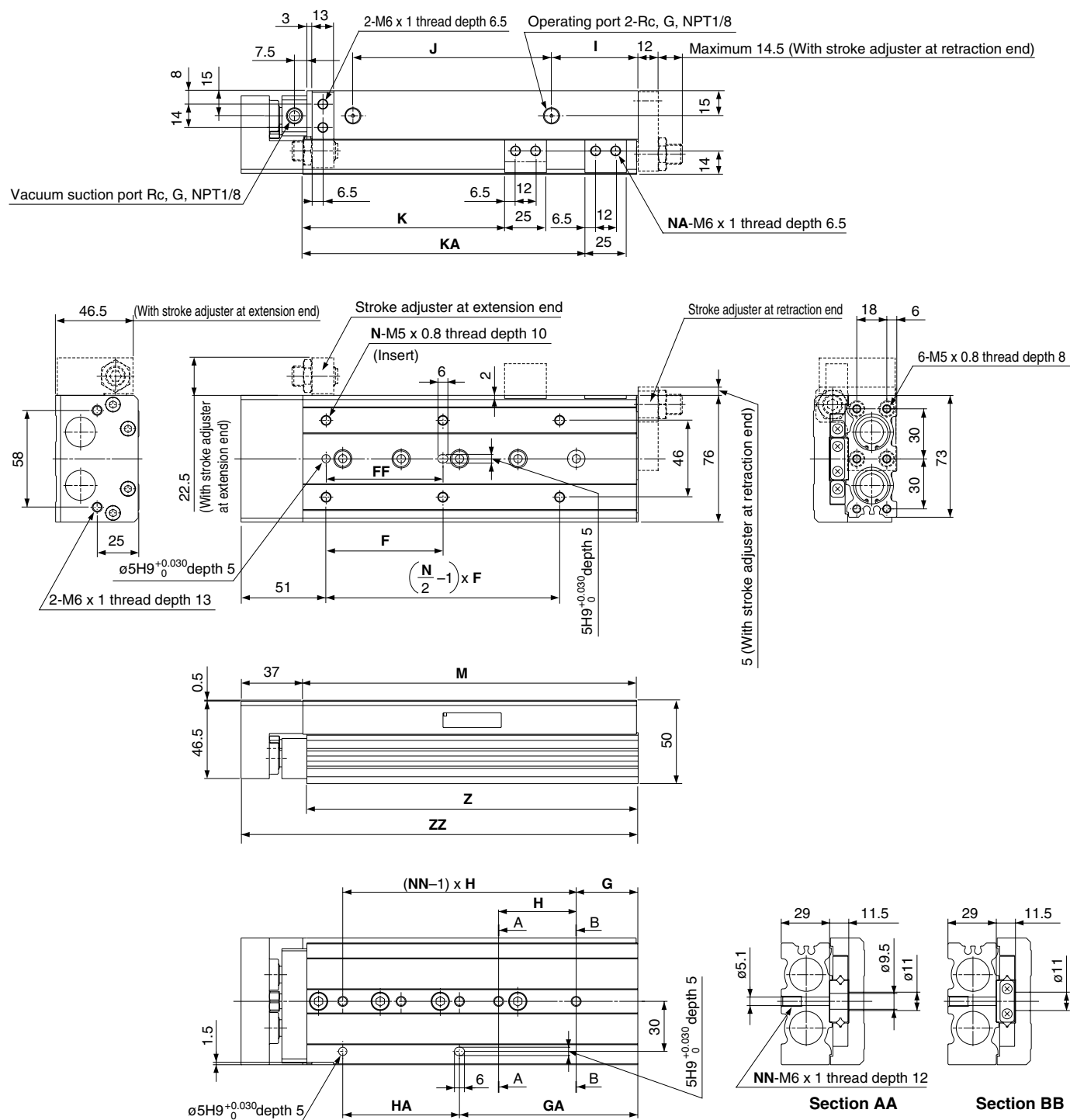
Dimensions / 13-22-**MXS16L** / Symmetric type



Model	F	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXS16L-10	35	4	16	40	2	16	40	10	40	29	—	2	76	75	107
13-/22-MXS16L-20	35	4	16	40	2	16	40	10	40	39	—	2	76	75	107
13-/22-MXS16L-30	35	4	16	40	2	16	40	10	40	49	—	2	76	75	107
13-/22-MXS16L-40	40	4	16	50	2	16	50	10	50	59	—	2	86	85	117
13-/22-MXS16L-50	30	6	21	30	3	51	30	15	60	69	—	2	101	100	132
13-/22-MXS16L-75	55	6	26	35	4	61	70	40	85	94	125	4	151	150	182
13-/22-MXS16L-100	65	6	39	35	5	109	70	55	118	119	173	4	199	198	230
13-/22-MXS16L-125	70	8	19	35	7	159	70	68	155	144	223	4	249	248	280

Dimensions / 13-22- MXS20

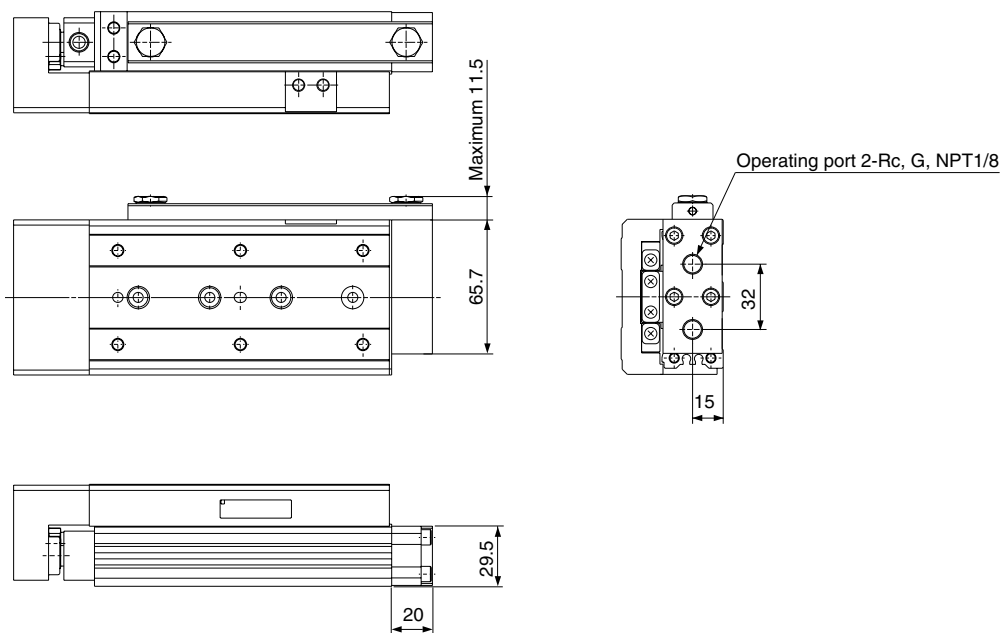
Basic style



Model	F	FF	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXS20-10	50	40	4	15	45	2	25	35	10	44	31	—	2	83	81.5	121
13-/22-MXS20-20	50	40	4	15	45	2	25	35	10	44	41	—	2	83	81.5	121
13-/22-MXS20-30	50	40	4	15	45	2	25	35	10	44	51	—	2	83	81.5	121
13-/22-MXS20-40	60	50	4	15	55	2	35	35	10	54	61	—	2	93	91.5	131
13-/22-MXS20-50	35	35	6	15	35	3	50	35	10	69	71	—	2	108	106.5	146
13-/22-MXS20-75	60	60	6	19	35	4	54	70	10	108	96	—	2	147	145.5	185
13-/22-MXS20-100	70	70	6	37	35	5	107	70	58	113	121	169	4	200	198.5	238
13-/22-MXS20-125	70	70	8	41	38	6	155	76	70	155	146	223	4	254	252.5	292
13-/22-MXS20-150	80	80	8	19	44	7	195	88	87	190	171	275	4	306	304.5	344

Dimensions / ¹³⁻₂₂₋ **MXS20**

Axial piping (ø20) ¹³⁻₂₂₋ **MXS20-□□P**



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

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

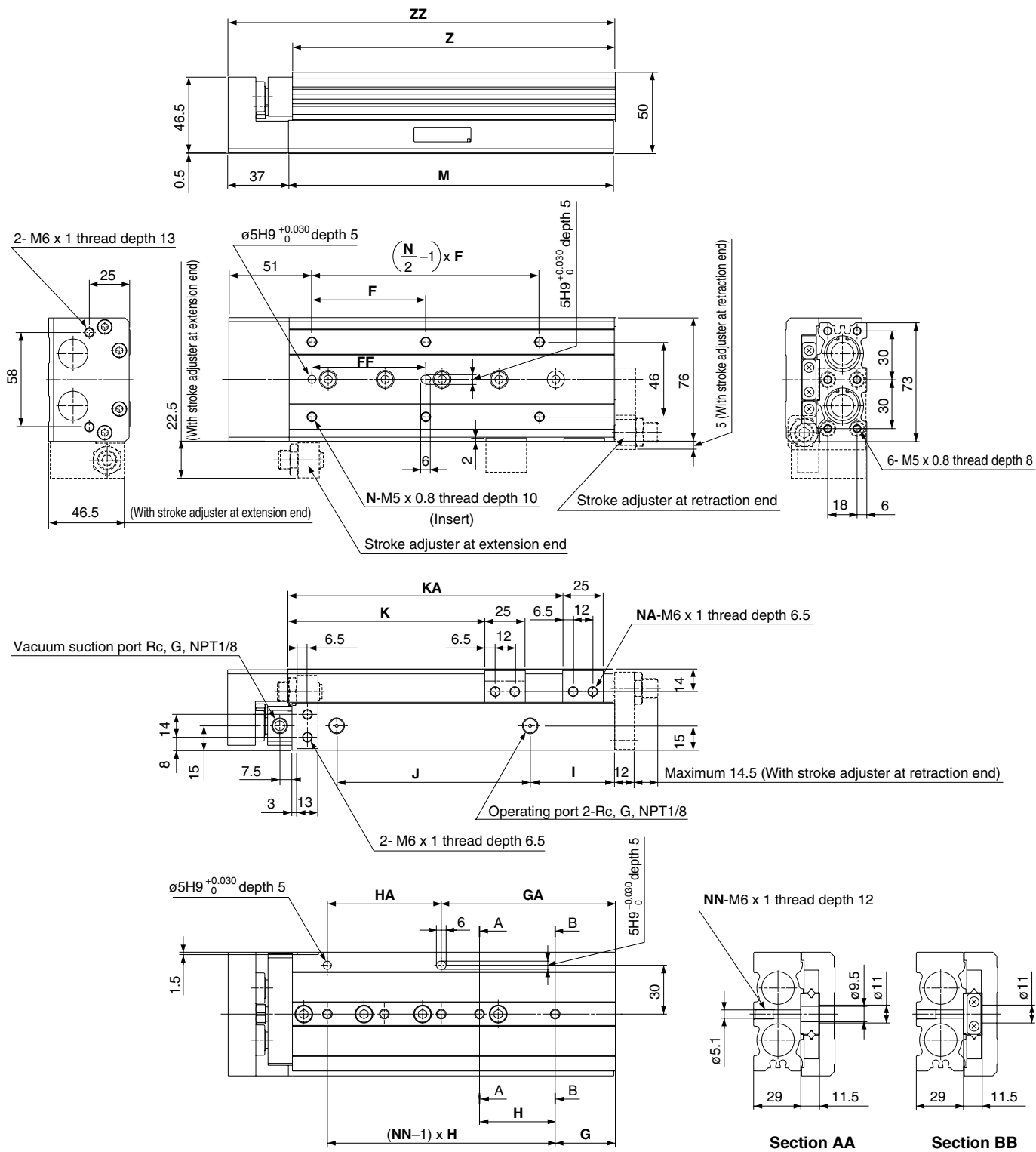
Fittings & Tubing

Air preparation equipment

Pressure switch

Clean gas filter

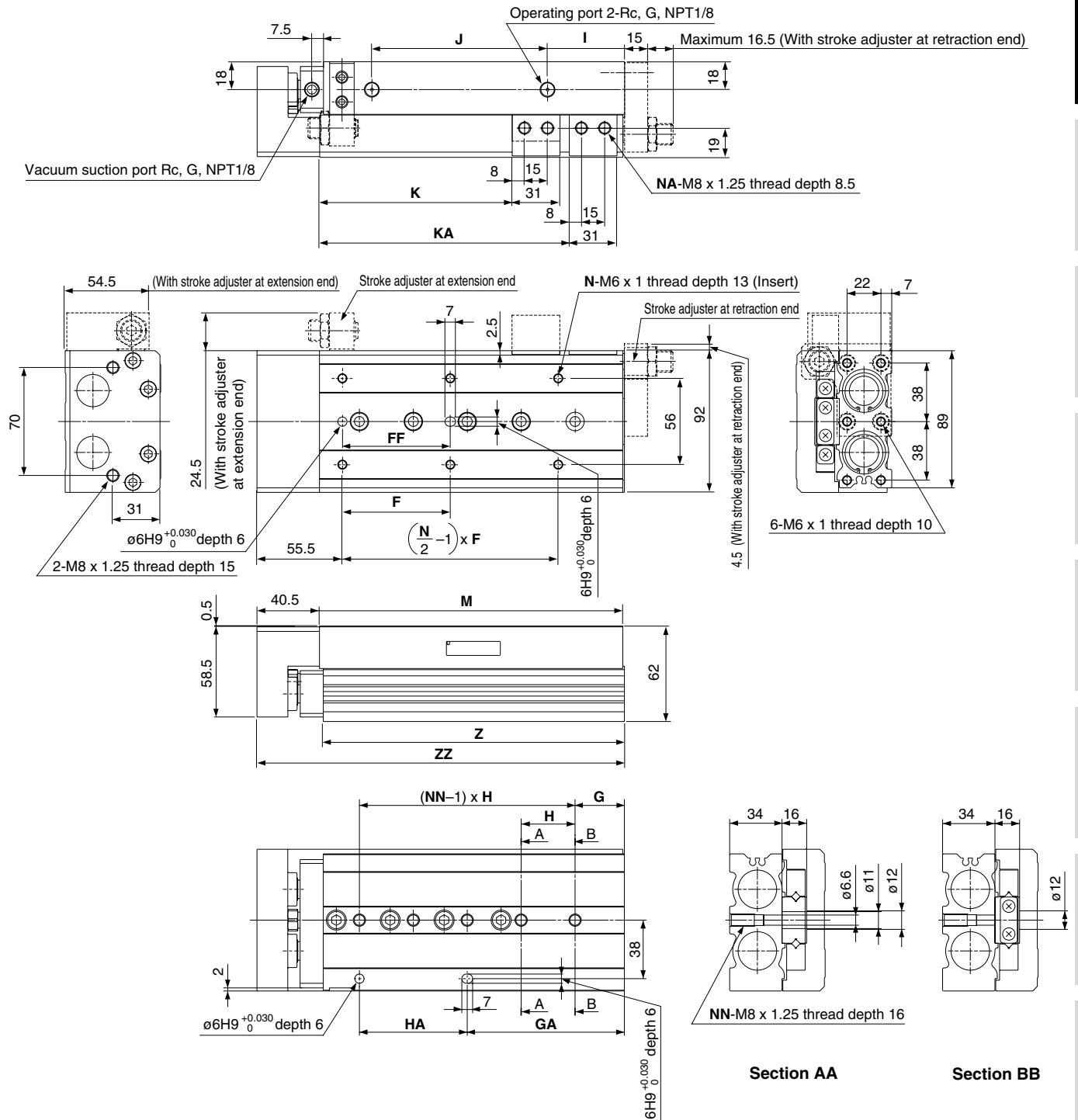
Dimensions / ¹³/₂₂-MXS20L / Symmetric type



(mm)																
Model	F	FF	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXS20L-10	50	40	4	15	45	2	25	35	10	44	31	—	2	83	81.5	121
13-/22-MXS20L-20	50	40	4	15	45	2	25	35	10	44	41	—	2	83	81.5	121
13-/22-MXS20L-30	50	40	4	15	45	2	25	35	10	44	51	—	2	83	81.5	121
13-/22-MXS20L-40	60	50	4	15	55	2	35	35	10	54	61	—	2	93	91.5	131
13-/22-MXS20L-50	35	35	6	15	35	3	50	35	10	69	71	—	2	108	106.5	146
13-/22-MXS20L-75	60	60	6	19	35	4	54	70	10	108	96	—	2	147	145.5	185
13-/22-MXS20L-100	70	70	6	37	35	5	107	70	58	113	121	169	4	200	198.5	238
13-/22-MXS20L-125	70	70	8	41	38	6	155	76	70	155	146	223	4	254	252.5	292
13-/22-MXS20L-150	80	80	8	19	44	7	195	88	87	190	171	275	4	306	304.5	344

Dimensions / 13-22-MXS25

Basic style

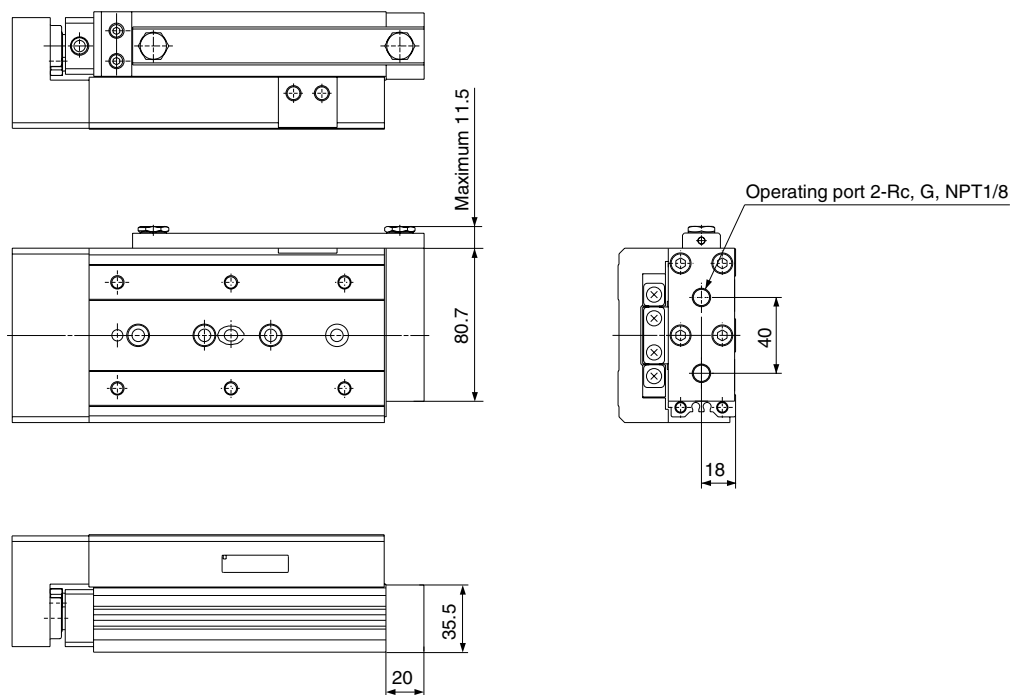


(mm)

Model	F	FF	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXS25-10	50	40	4	22	45	2	22	45	12	47	35	—	2	92	90.5	133.5
13-/22-MXS25-20	50	40	4	22	45	2	22	45	12	47	45	—	2	92	90.5	133.5
13-/22-MXS25-30	50	40	4	22	45	2	22	45	12	47	55	—	2	92	90.5	133.5
13-/22-MXS25-40	60	50	4	22	55	2	22	55	12	57	65	—	2	102	100.5	143.5
13-/22-MXS25-50	35	35	6	20	35	3	55	35	12	70	75	—	2	115	113.5	156.5
13-/22-MXS25-75	60	60	6	26	35	4	61	70	33	90	100	—	2	156	154.5	197.5
13-/22-MXS25-100	70	70	6	32	35	5	102	70	50	114	125	162	4	197	195.5	238.5
13-/22-MXS25-125	75	75	8	40	38	6	154	76	67	155	150	218	4	255	253.5	296.5
13-/22-MXS25-150	80	80	8	30	40	7	190	80	82	180	175	258	4	295	293.5	336.5

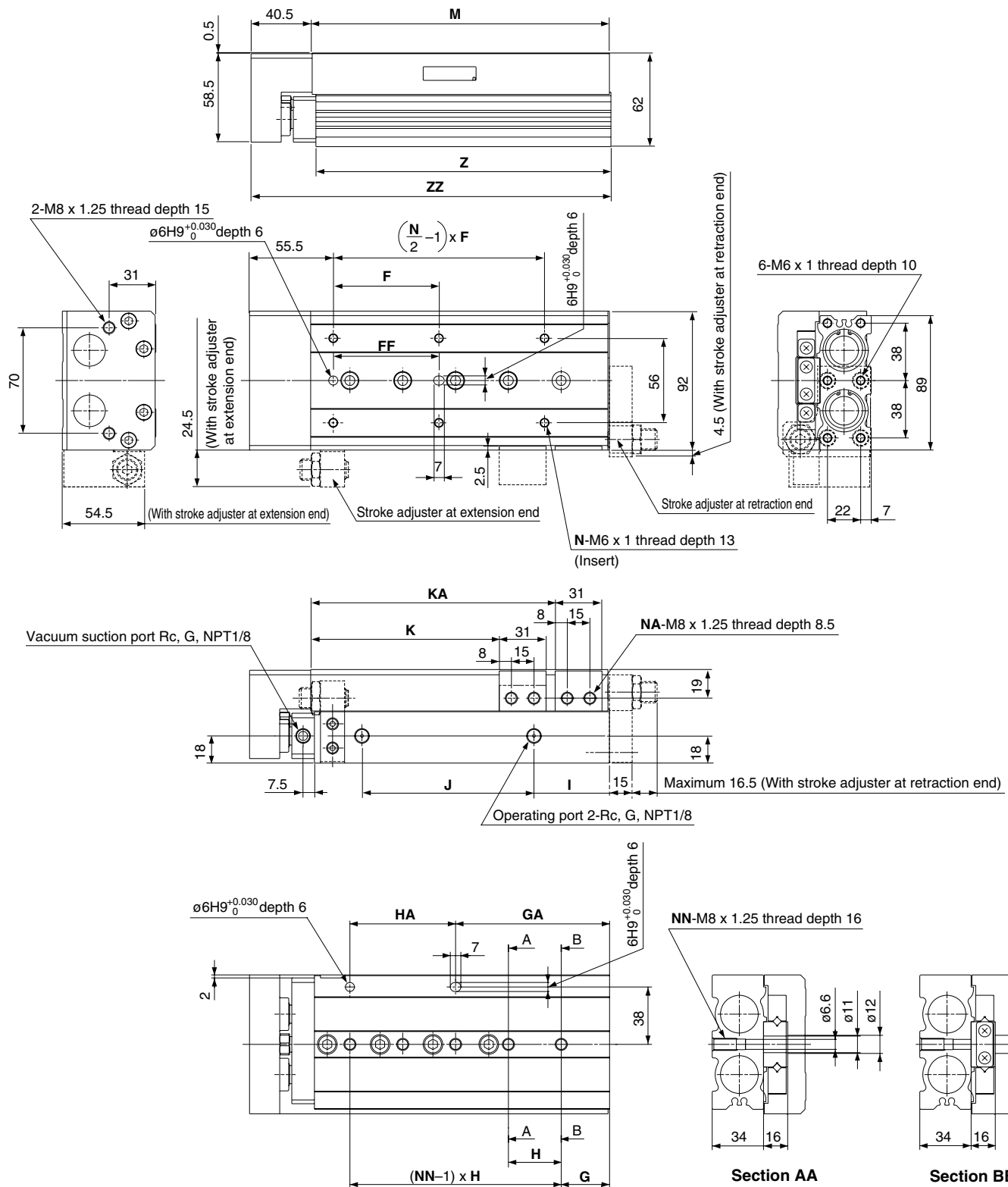
Dimensions / ¹³⁻₂₂₋**MXS25**

Axial piping (ø25) ¹³⁻₂₂₋**MXS25-□□P**



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

Dimensions / ¹³/₂₂-MXS25L / Symmetric type



																(mm)
Model	F	FF	N	G	H	NN	GA	HA	I	J	K	KA	NA	M	Z	ZZ
13-/22-MXS25L-10	50	40	4	22	45	2	22	45	12	47	35	—	2	92	90.5	133.5
13-/22-MXS25L-20	50	40	4	22	45	2	22	45	12	47	45	—	2	92	90.5	133.5
13-/22-MXS25L-30	50	40	4	22	45	2	22	45	12	47	55	—	2	92	90.5	133.5
13-/22-MXS25L-40	60	50	4	22	55	2	22	55	12	57	65	—	2	102	100.5	143.5
13-/22-MXS25L-50	35	35	6	20	35	3	55	35	12	70	75	—	2	115	113.5	156.5
13-/22-MXS25L-75	60	60	6	26	35	4	61	70	33	90	100	—	2	156	154.5	197.5
13-/22-MXS25L-100	70	70	6	32	35	5	102	70	50	114	125	162	4	197	195.5	238.5
13-/22-MXS25L-125	75	75	8	40	38	6	154	76	67	155	150	218	4	255	253.5	296.5
13-/22-MXS25L-150	80	80	8	30	40	7	190	80	82	180	175	258	4	295	293.5	336.5

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

Made to Order

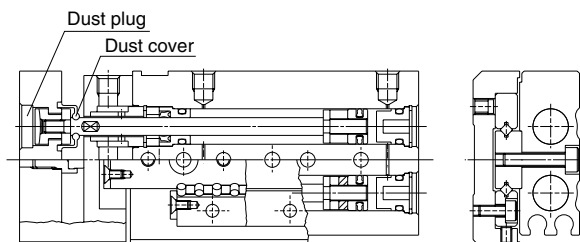
Use of fluoro rubber for dust cover and dust plug -X52

13-MXS

Refer to standard products How to Order -X52

Material used for the dust cover and dust plug has been changed from silicone rubber to fluoro rubber.

Note 1) Dimensions are the same as those of standard type.



! Specific Product Precautions

Be sure to read before handling.

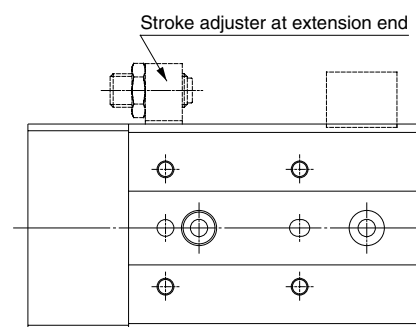
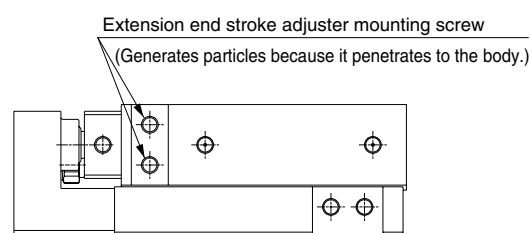
Precautions

! Caution

Plug the port after removing the stroke adjuster at the extension end.

Otherwise particle generation may occur because the prepared hole of the mounting screw penetrates the body. Contact SMC for more information.

Cylinder bore size (mm)	25
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In case of without extension end adjuster type, port is plugged with a hexagon socket head set screw at the time of shipment.

