

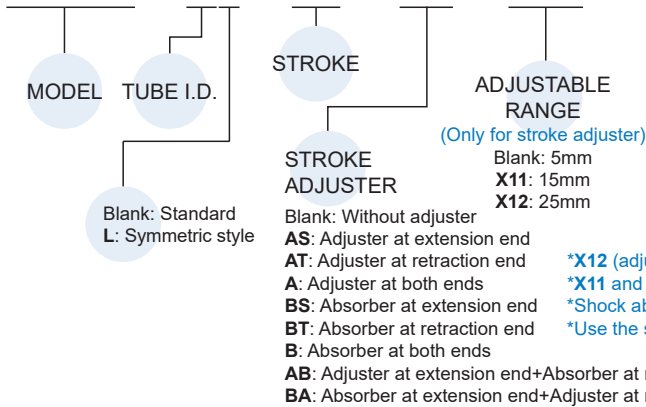
### Table for standard stroke

Tube I.D.	Stroke (mm)
ø6	10, 20, 30, 40, 50
ø8	10, 20, 30, 40, 50, 75

\* Made to order.

### Order example

**MCSQ – 8L – 50 – AS – X12**



### Features


- High precision combination of cylinder and linear rail.
- Flush fitting sensor groove.
- Magnetic as standard.

### Specification

Model	MCSQ	
Acting type	Double acting	
Tube I.D. (mm)	6	8
Port size	M5×0.8	
Medium	Air	
Operating pressure range	0.15~0.7 MPa	
Proof pressure	1 MPa	
Ambient temperature	-5~+60°C (No freezing)	
Lubricator	Not required	
Available speed range	50~500 mm/sec	
Cushion	Rubber bumper (Standard) Shock absorber (Option)	
Sensor switch (*)	RCE, RCE1, RDEP	

\* RCE, RCE1, RDEP specification, please refer to page 8-12, 13, 18.

### Theoretical force



Unit: N

Tube I.D. (mm)	Piston rod (mm)	Operating direction	Piston area (mm <sup>2</sup> )	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	

\*X12 (adjustable range: 25mm) is not available for MCSQ-6.

\*X11 and X12 are not available for shock absorber type.

\*Shock absorber is not available on series MCSQ-6.

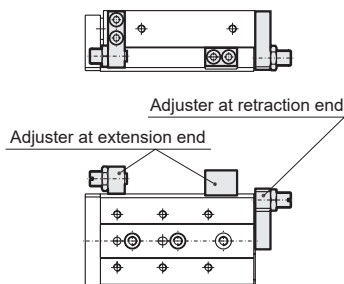
\*Use the same stroke adjuster with MCSS, specification please refer to page 5-23.

### Stroke adjuster option

#### Stroke adjuster

- Adjustable stroke range: 0~5mm (Standard)

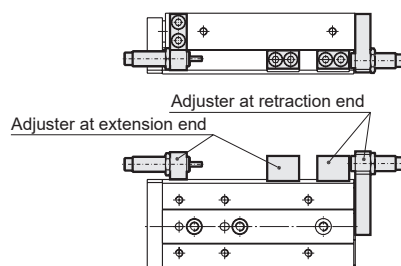
AS: Adjuster at extension end  
AT: Adjuster at retraction end  
A: Adjuster at both ends



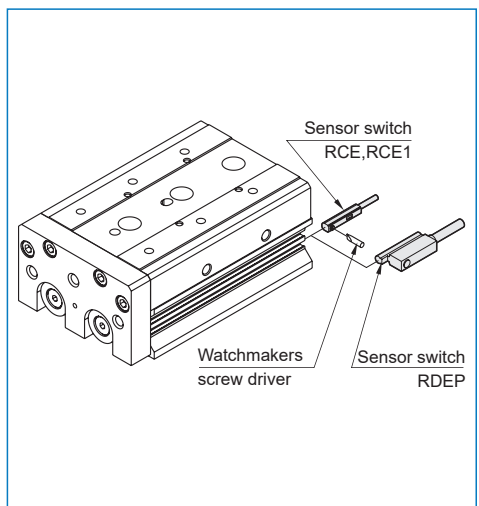
#### With shock absorber

- Enables adjustment of stroke.
- Absorbs the collision at stroke end and stops smoothly.

BS: Absorber at extension end  
BT: Absorber at retraction end  
B: Absorber at both ends

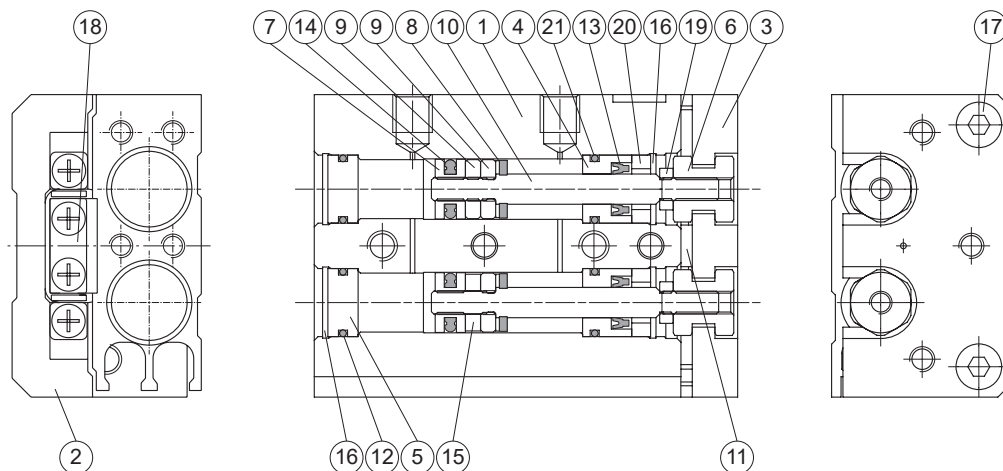


### Installation of sensor switch



## SLIDE CYLINDER

ø6, ø8



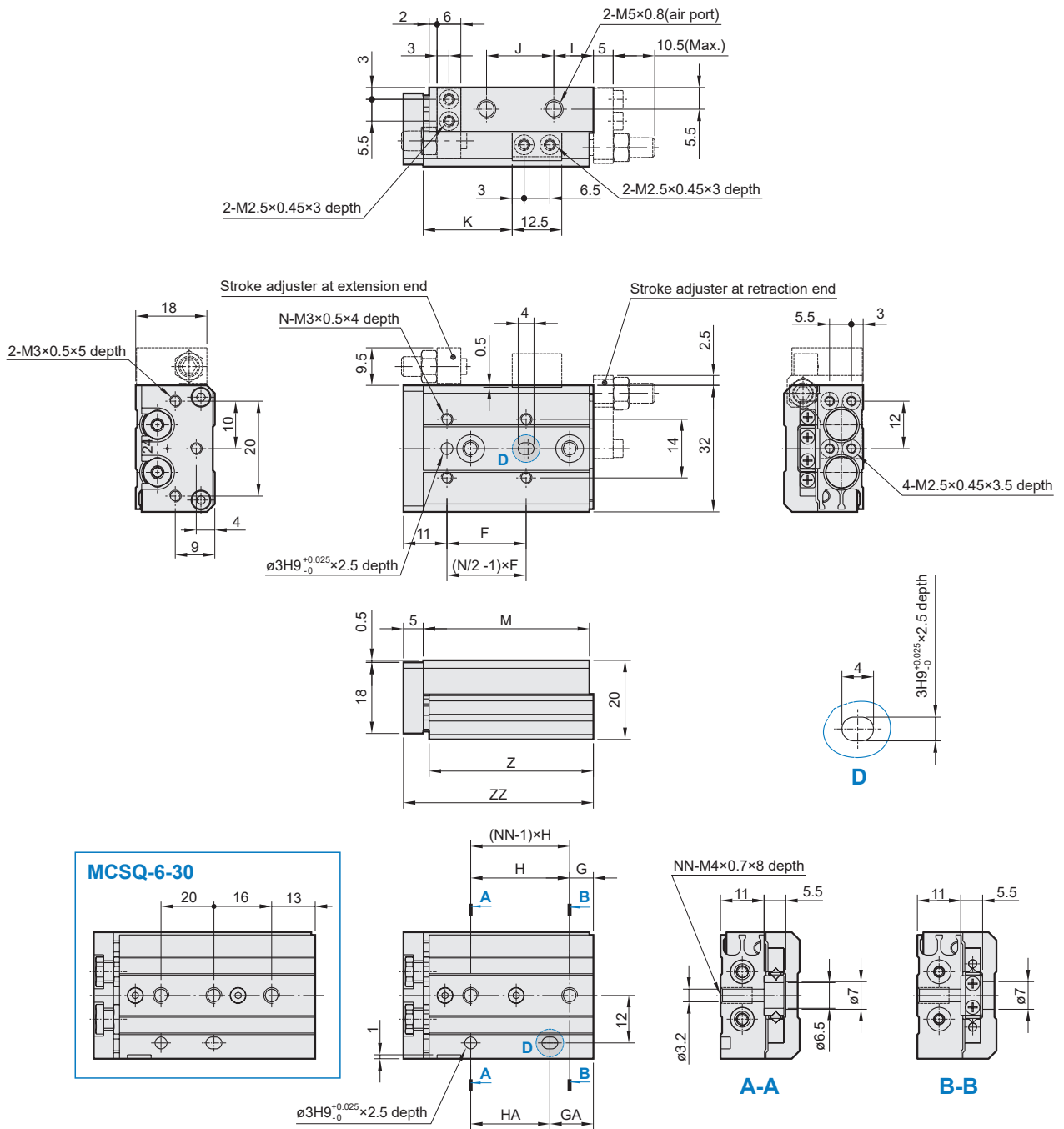
### Material

No.	Tube I.D. Part name	6	8	Q'y	Repair kits (inclusion)
1	Body	Aluminum alloy		1	
2	Table	Aluminum alloy		1	
3	Plate	Aluminum alloy		1	
4	Rod cover	Aluminum alloy		2	
5	Head cover	Aluminum alloy		2	
6	Floating connector	Stainless steel		2	
7	Piston	Stainless steel		2	
8	Cushion pad	NBR		2	●
9	Spacer ring	Stainless steel	Aluminum alloy	3	
10	Piston rod	Stainless steel		2	
11	End cushion	PU		1	●
12	Cover ring	NBR		2	●
13	Rod packing	NBR		2	●
14	Piston packing	NBR		*	●
15	Magnet ring	Magnet material		1	
16	Snap ring	Spring steel	Stainless steel	4	
17	Bolt	Stainless steel		2	
18	Slide way	Bearing steel		1	
19	Nut	Copper		2	
20	Rod cover washer	Stainless steel		2	
21	Cover ring	NBR		2	

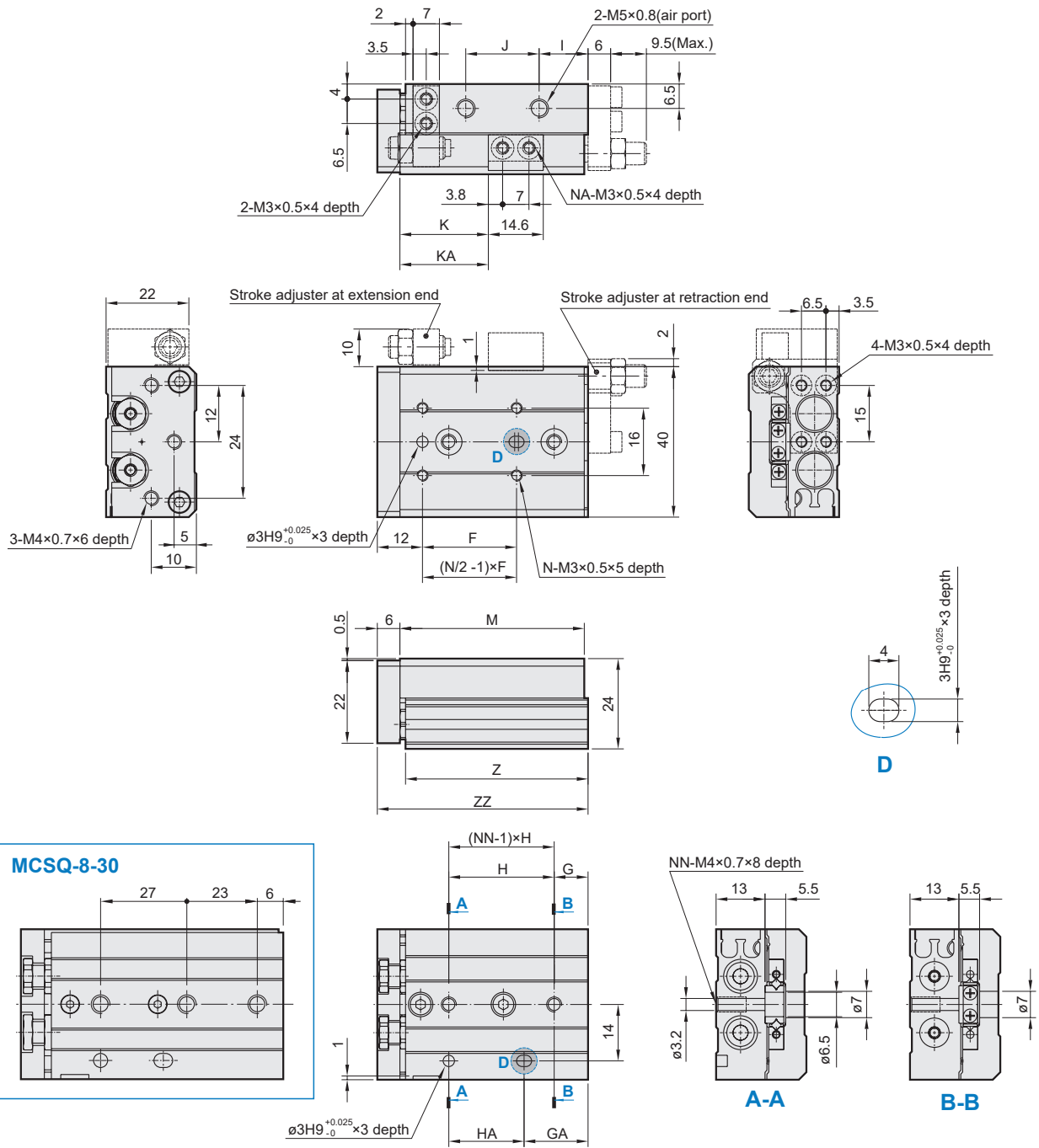
\* Q'y: ø6=2, ø8=4

### Order example of repair kits

Tube I.D.	Repair kits
ø6	<b>PS-MCSQ-6</b>
ø8	<b>PS-MCSQ-8</b>



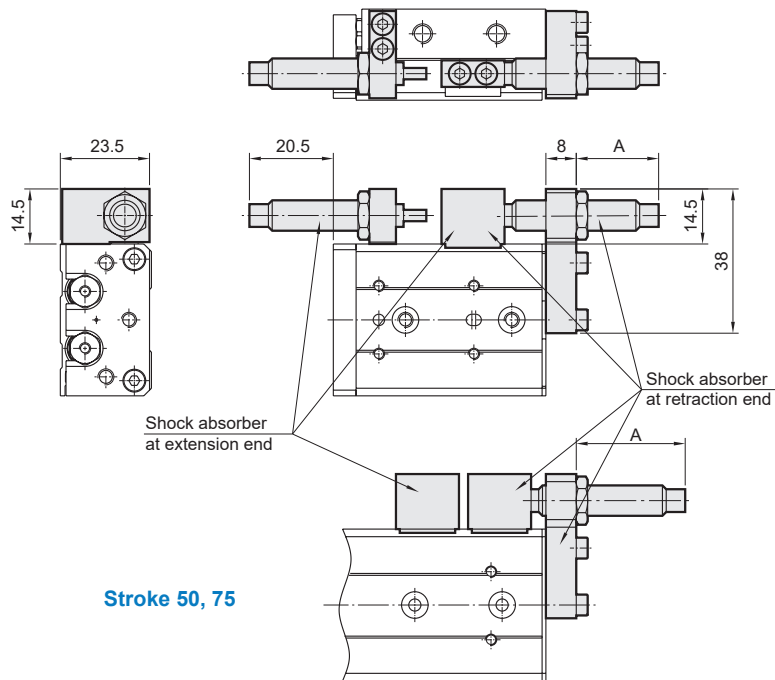
Code Stroke	F	G	GA	H	HA	I	J	K	M	N	NN	Z	ZZ
10	22	6	13	23	16	9	17	21.5	42	4	2	41.5	48
20	25	13	13	26	26	9	27	31.5	52	4	2	51.5	58
30	21	—	29	—	20	9	37	41.5	62	6	3	61.5	68
40	26	11	39	28	28	16	48	51.5	80	6	3	79.5	86
50	27	21	49	28	28	9	65	61.5	90	6	3	89.5	96



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

## SLIDE CYLINDER

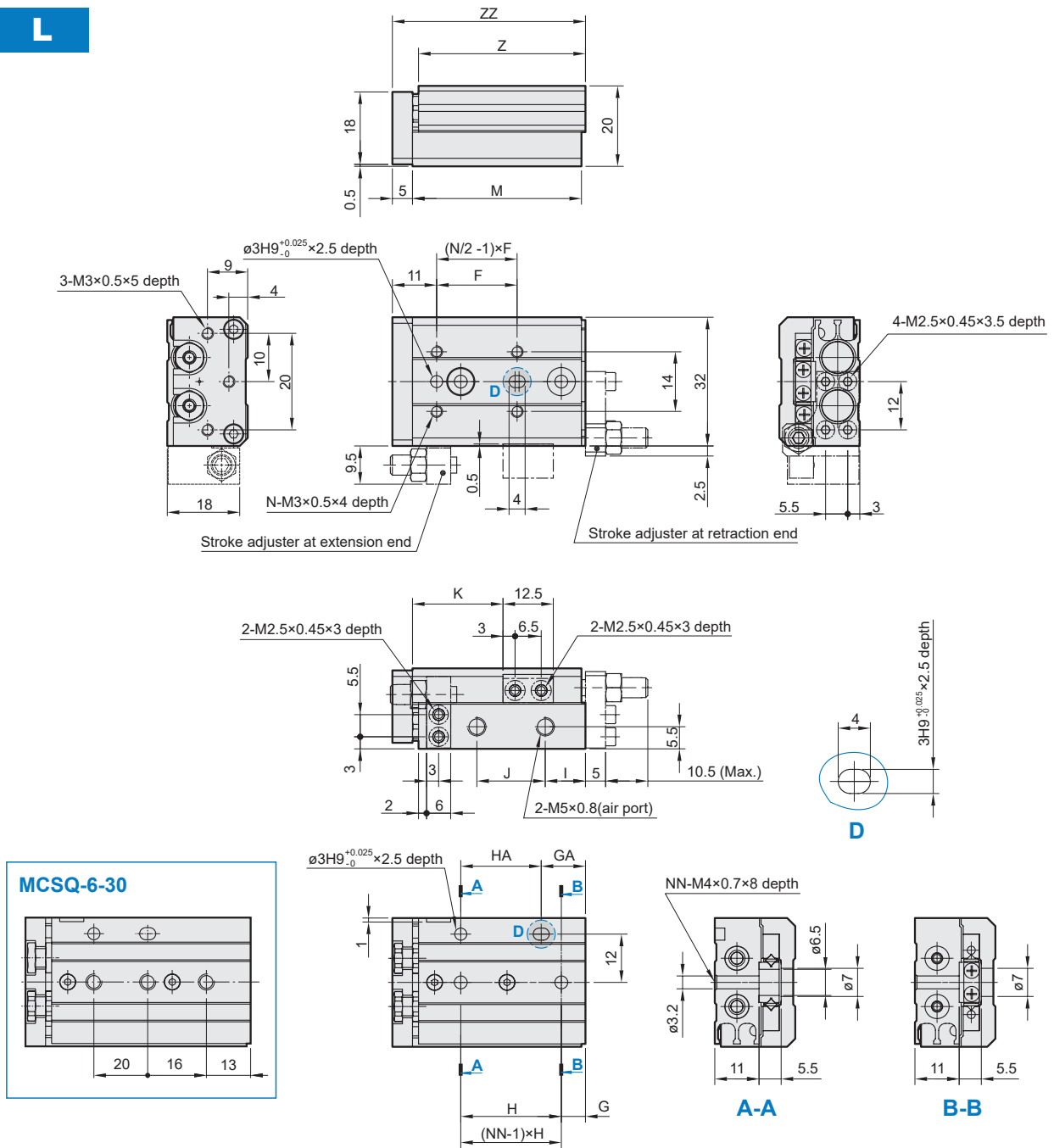
$\varnothing 8$



Stroke	Stroke adjustment range		A dimension (Retracted side mounting)
	Extending	Retracting	
10	Max. 21	13.9	22.9
20		13.9	22.9
30		9.9	18.9
40		5.9	14.9
50		9.9	18.9
75		13.9	22.9

\* Other dimensions not indicated are the same as the basic style.

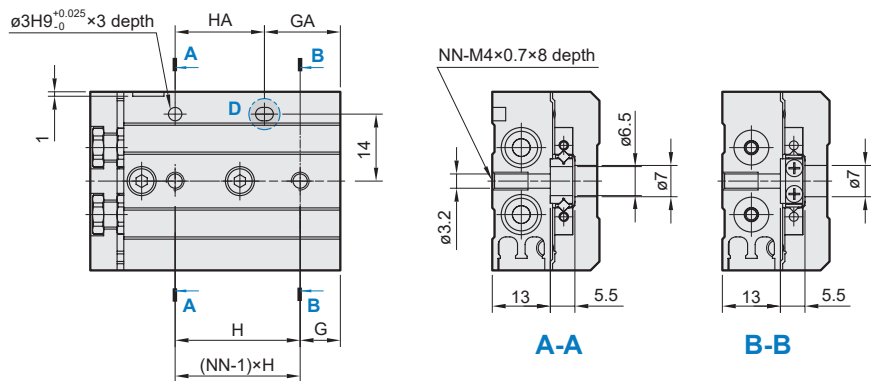
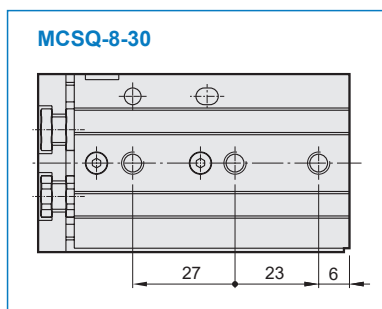
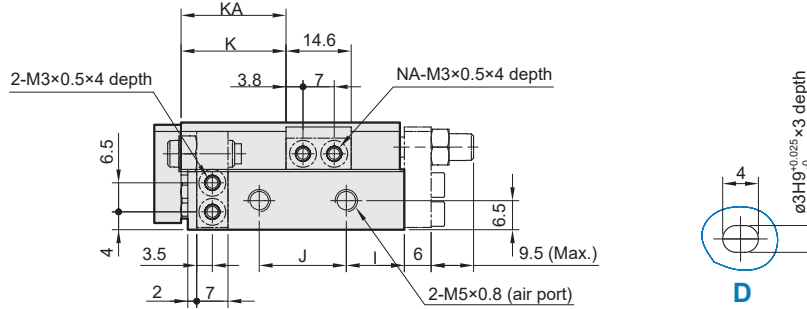
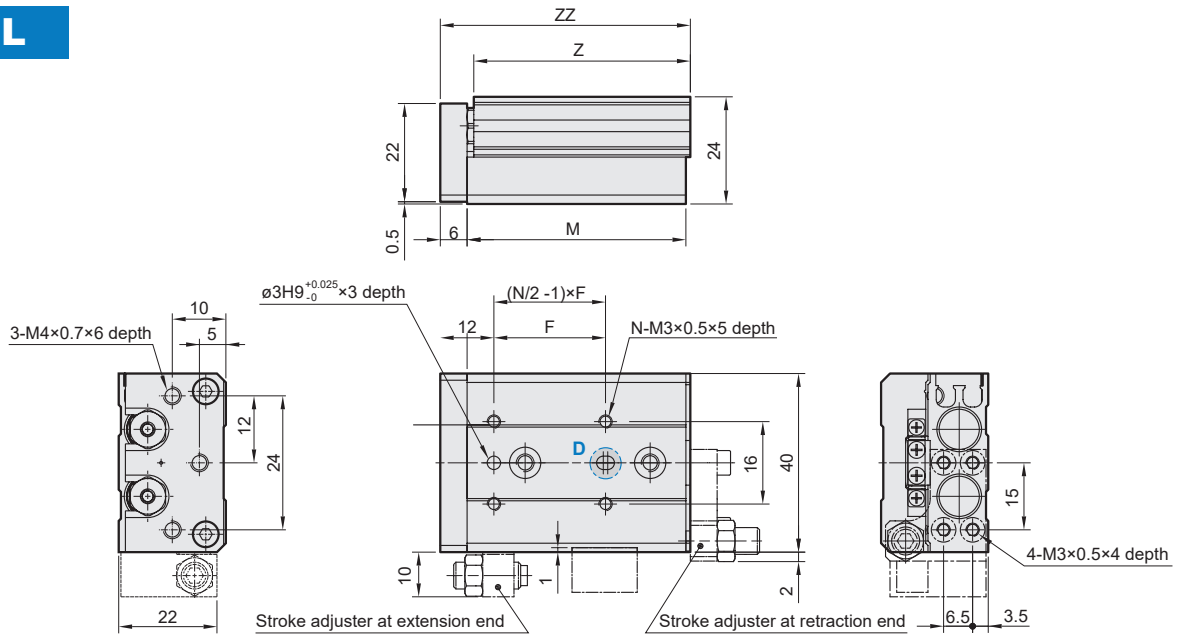
L



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

## SLIDE CYLINDER

L



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