



Technical data



Caution for safety
(Read before installing)



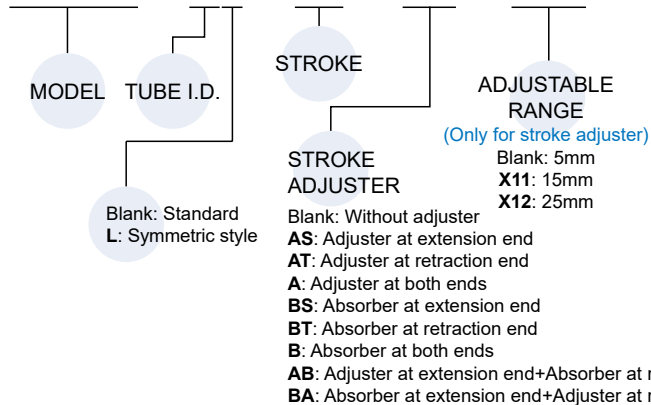
Table for standard stroke

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



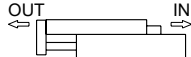
Features

- 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 	

Theoretical force



Unit: N

Tube I.D. (mm)	Piston rod (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

*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.

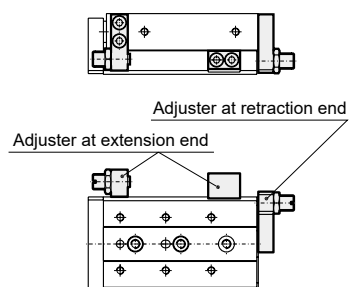
*Use the same stroke adjuster with MCSS .

Stroke adjuster option

Stroke adjuster

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

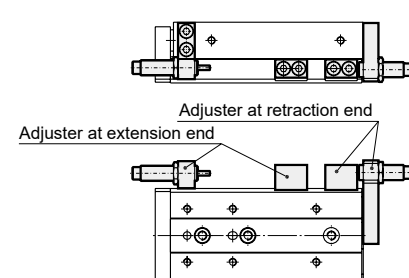
AS: Adjuster at extension end
AT: Adjuster at retraction end
A: Adjuster at both ends



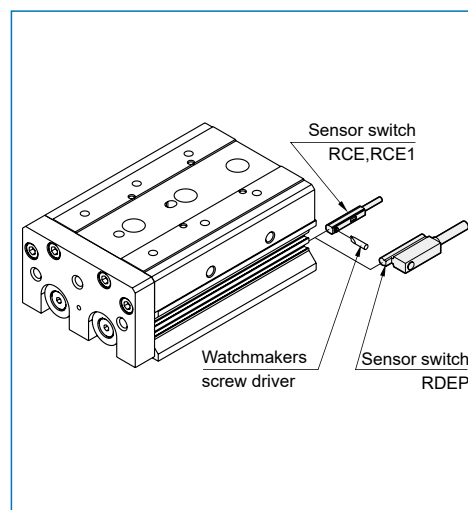
With shock absorber

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

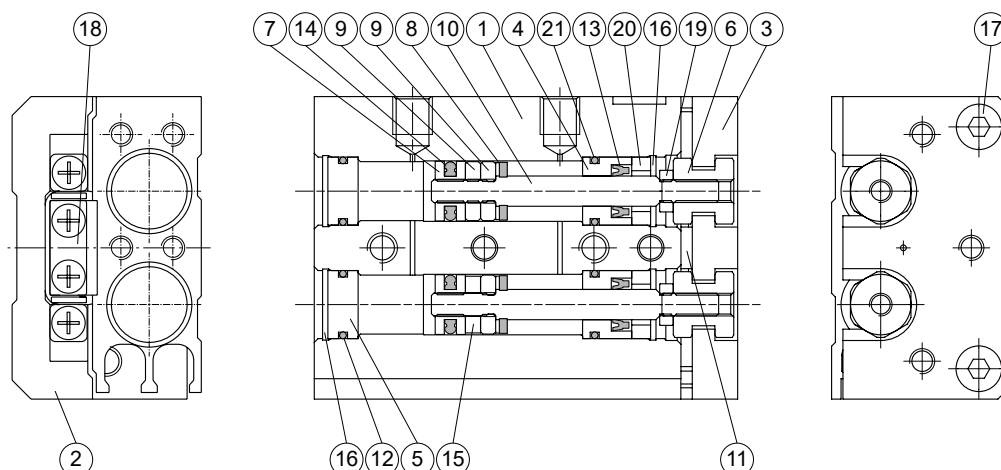
BS: Absorber at extension end
BT: Absorber at retraction end
B: Absorber at both ends



Installation of sensor switch



ø6, ø8



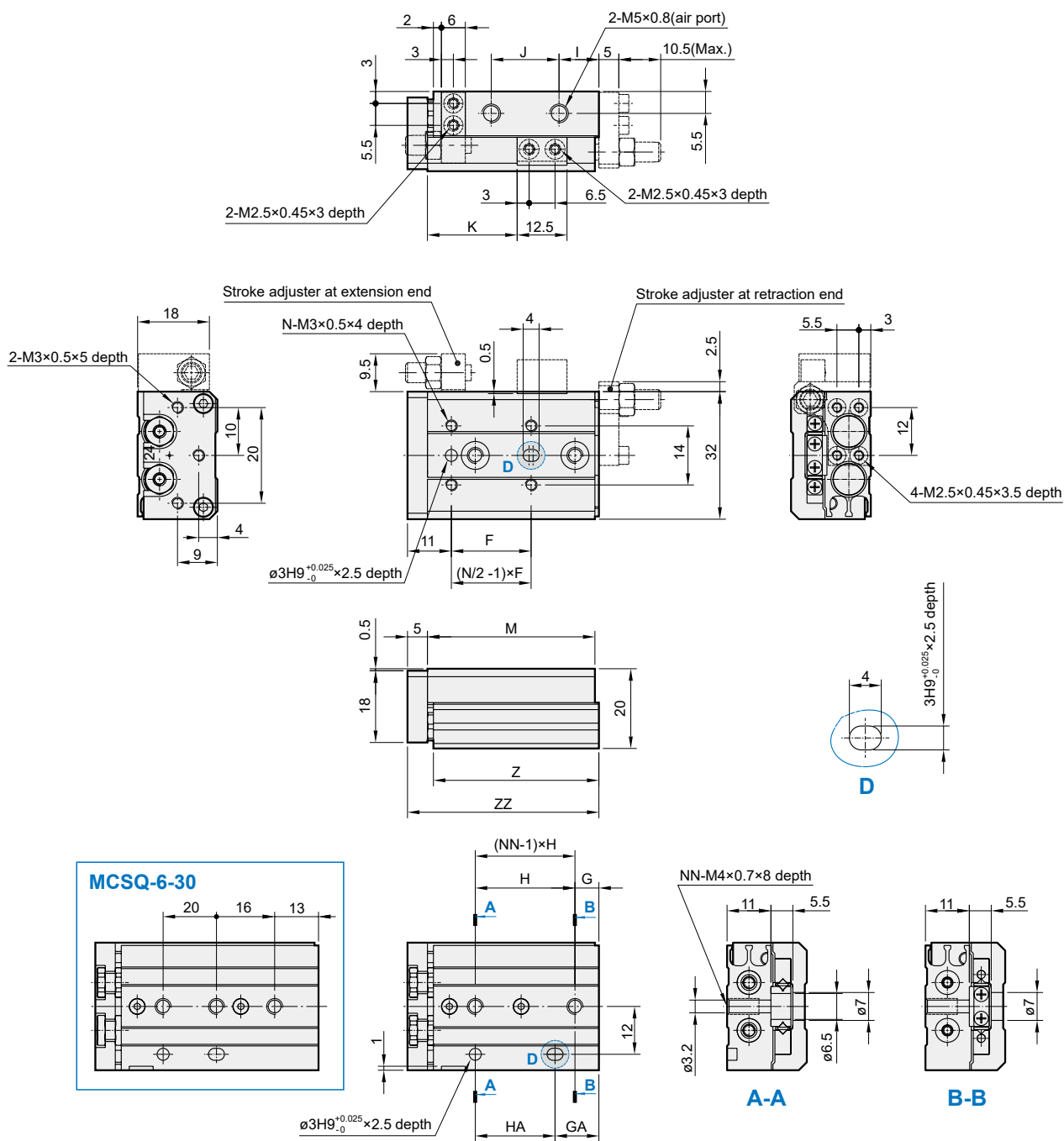
Material

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	

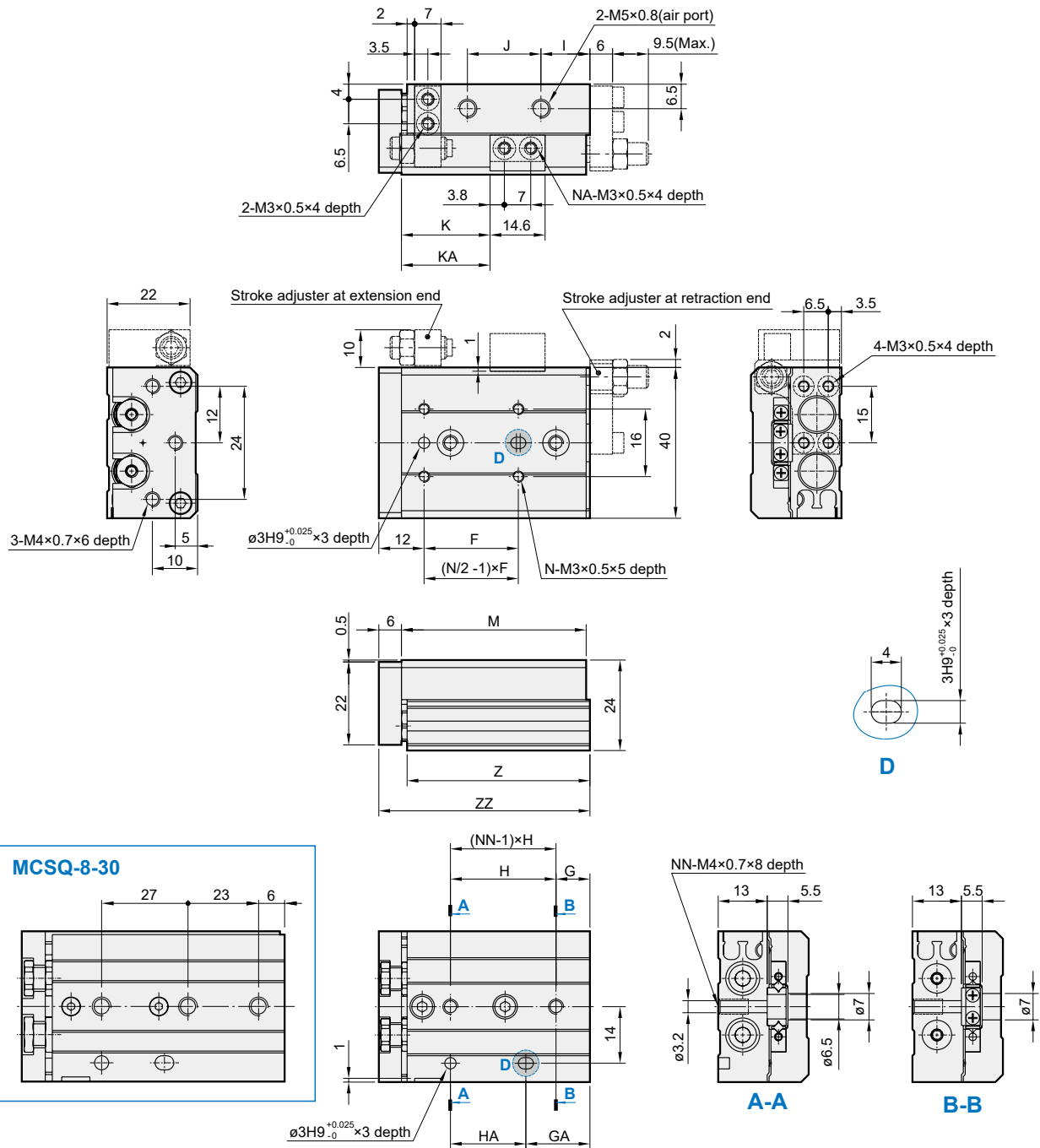
* Q'y: ø6=2, ø8=4

Order example of repair kits

Tube I.D.	Repair kits
ø6	PS-MCSQ-6
ø8	PS-MCSQ-8



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



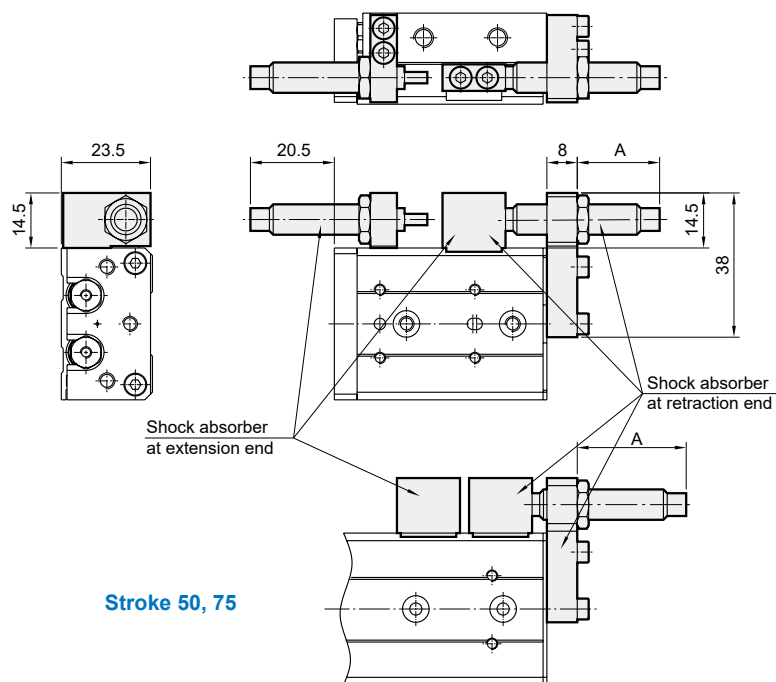
Code Stroke	F	G	GA	H	HA	I	J	K	KA	M	N	NA	NN	Z	ZZ
10	25	7	13	25	19	11	17	23.5	—	46	4	2	2	45.5	53
20	25	14	14	28	28	10	28	33.5	—	56	4	2	2	55.5	63
30	26	—	29	—	27	12	40	43.5	—	70	6	2	3	69.5	77
40	32	8	39	31	31	14	52	53.5	—	84	6	2	3	83.5	91
50	46	8	37	29	58	13	78	63.5	82.5	109	6	4	4	108.5	116
75	50	31	61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

MCSQ Dimensions – With shock absorber ø8

SLIDE CYLINDER



ø8



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

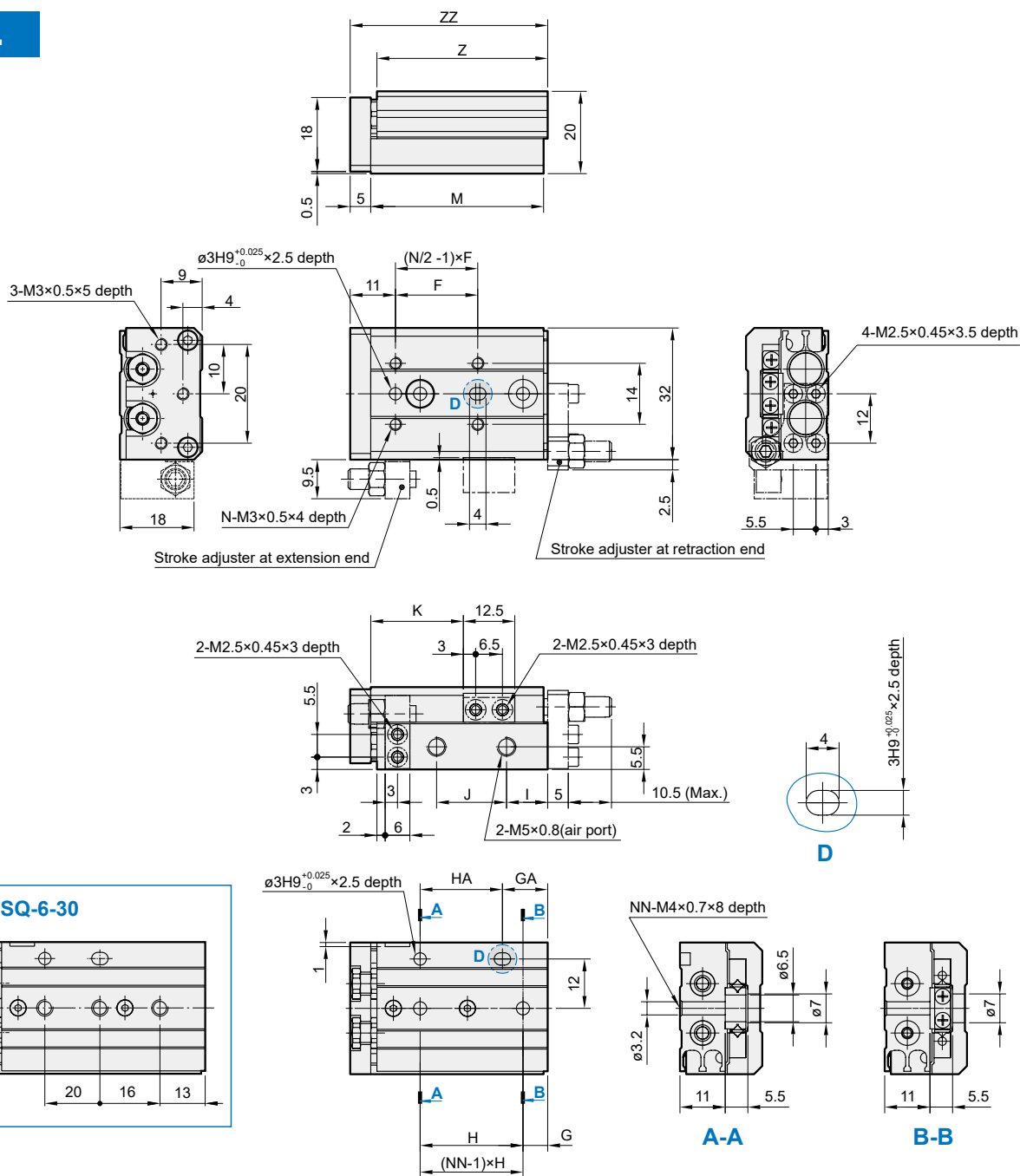
* Other dimensions not indicated are the same as the basic style.

MCSQ Dimensions – Symmetric style ø6

SLIDE CYLINDER

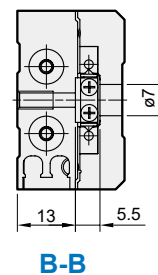
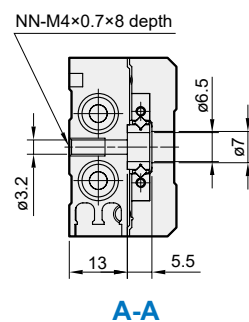
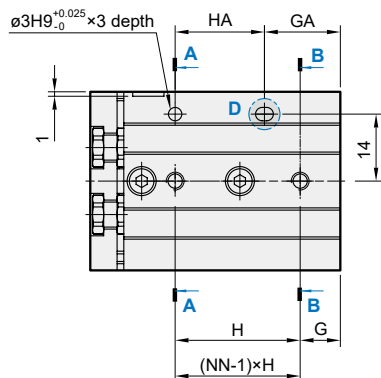
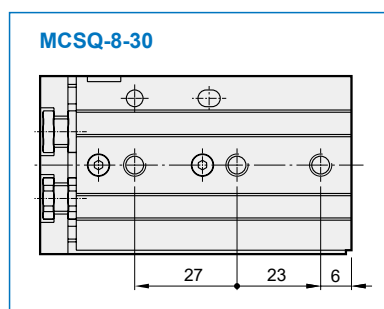
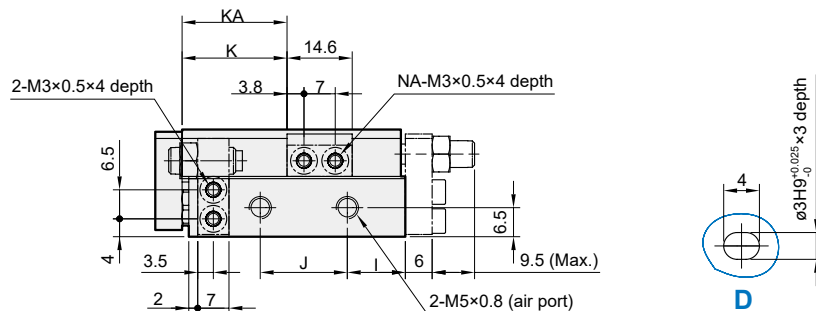
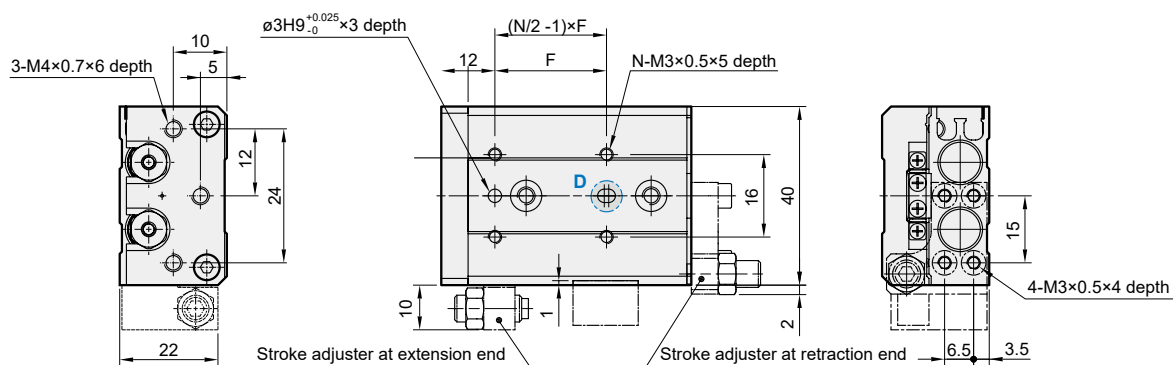


L



MCSQ-6-30

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