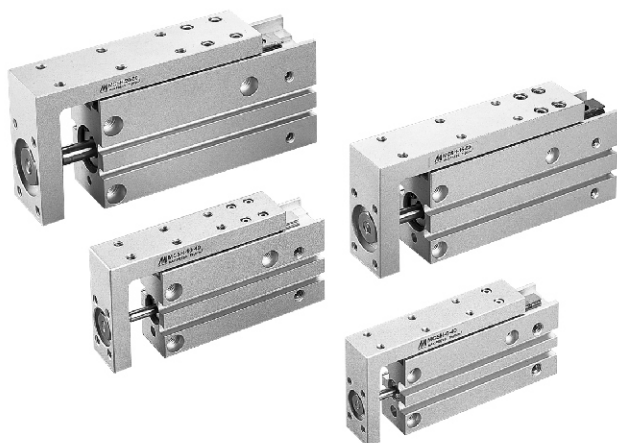


MCSH series

COMPACT SLIDE



Order example:

MCSH – 10 – 60

MODEL

TUBE I.D.

STROKE

Cylinder weight:

(unit:g)

Stroke (mm)	Tube I.D.			
	φ 6	φ 10	φ 16	φ 20
5	62	117	216	437
10	67	125	227	455
15	76	140	247	486
20	81	148	258	505
25	91	162	279	542
30	96	170	290	560
40	111	192	323	597
50	125	215	353	656
60	140	238	386	700

Features:

- Compact precision cylinder.
- Cylinder can take high lateral loads and is also non rotating.
- Cylinder can be mounted in 3 or 4 positions.
- Magnetic as standard.

Specification:

Model	MCSH			
Acting type	Double acting			
Tube I.D. (mm)	6	10	16	20
Guide rail width (mm)	5	7	9	12
Port size	M5×0.8			
Medium	Air			
Min. operating pressure	1.2 kgf/cm ² (0.12 MPa)	0.61 kgf/cm ² (0.06 MPa)	0.51 kgf/cm ² (0.05 MPa)	
Max. operating pressure	7.1 kgf/cm ² (0.7 MPa)			
Proof pressure	10.7 kgf/cm ² (1.05 MPa)			
Ambient temperature	- 5~ + 60℃ (No freezing)			
Piston speed	50~500mm/s			
Allowable kinetic energy J (kgf · cm)	0.0125 (0.127)	0.025 (0.25)	0.05 (0.5)	0.1 (1.0)
Lubricator	Not required			
Cushion	Rubber bumper			
Stroke length tolerance	+1.0 0			
Sensor switch	RCE, RCE1			

Table for standard stroke:

Tube I.D.	Stroke (mm)
φ 6, 10, 16, 20	5, 10, 15, 20, 25, 30, 40, 50, 60

Theoretical force:

(Unit: N)

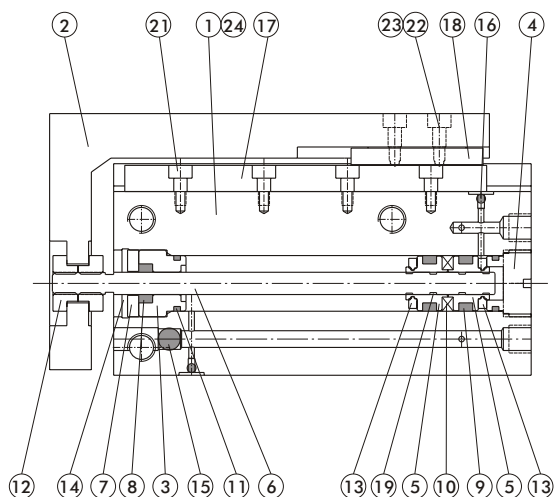
Tube I.D. (mm)	Piston rod (mm)	Operating direction	Piston area (mm ²)	Operating pressure (MPa)		
				0.3	0.5	0.7
6	3	OUT	28.3	8.49	14.2	19.8
		IN	21.2	6.36	10.6	14.8
10	4	OUT	78.5	23.6	39.3	55.0
		IN	66.0	19.8	33.0	46.2
16	6	OUT	201.0	60.3	101.0	141.0
		IN	172.0	51.6	86.0	121.0
20	8	OUT	314.0	94.2	157.0	220.0
		IN	264.0	79.2	132.0	185.0

MCSH Inside structure & Parts list

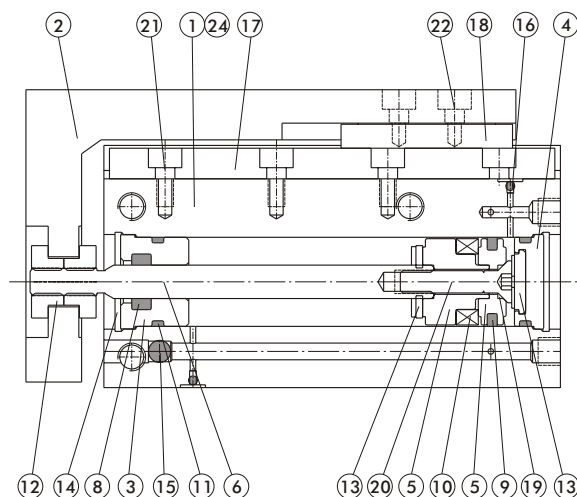
COMPACT SLIDE



φ 6, φ 10



φ 16, φ 20



Material

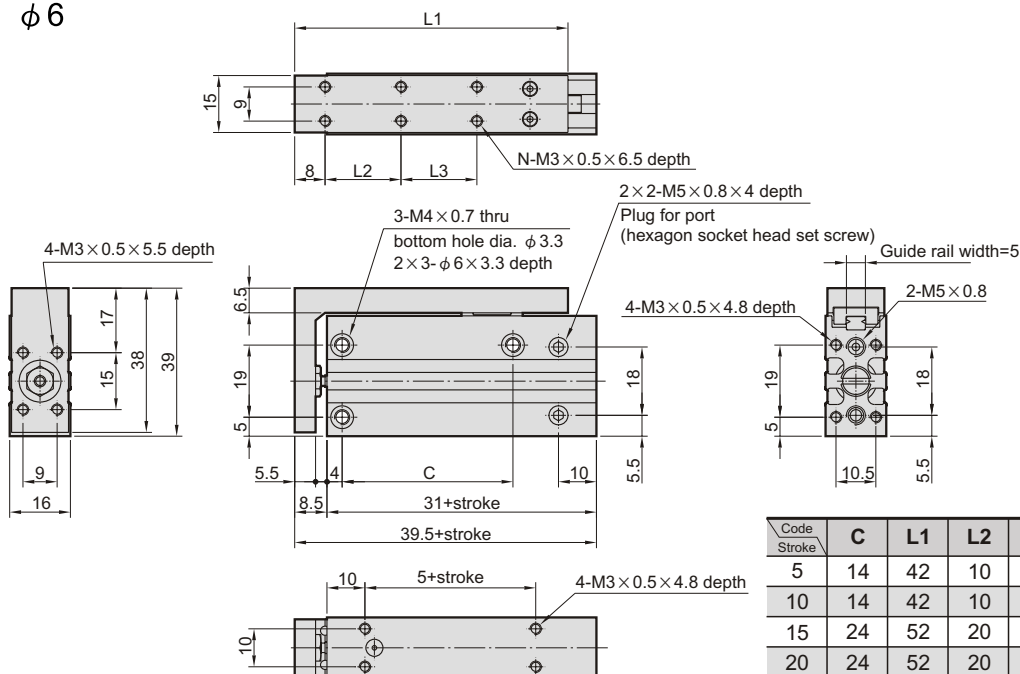
No.	Part name	Tube I.D.	6	10	16	20	Note
1	Body		Aluminum alloy				Anodized
2	Table		Aluminum alloy				Anodized
3	Rod cover		Aluminum alloy				Anodized
4	Head cover		Aluminum alloy				Anodized
5	Piston		Aluminum alloy				
6	Piston rod		Stainless steel				
7	Washer		Aluminum alloy				
8	Rod packing		NBR				
9	Piston packing		NBR				
10	Magnet ring		Magnet material				
11	Cover ring		NBR				
12	Rod front nut		Brass				
13	Cushion packing		NBR				
14	C type snap ring for hole		Spring steel				
15	Steel ball A		Stainless steel				
16	Steel ball B		Stainless steel				
17	Linear guide		Stainless steel				
18	Guide seat		Stainless steel				
19	Piston gasket		NBR				
20	Piston bolt		SCM				
21	Hexagon socket head cap screw A		Stainless steel				
22	Hexagon socket head cap screw B		Stainless steel				
23	Round head Phillips screw		Stainless steel				Only for φ 6
24	Hexagon socket head plug		Stainless steel				

MCSH Dimensions $\phi 6$, $\phi 10$

COMPACT SLIDE

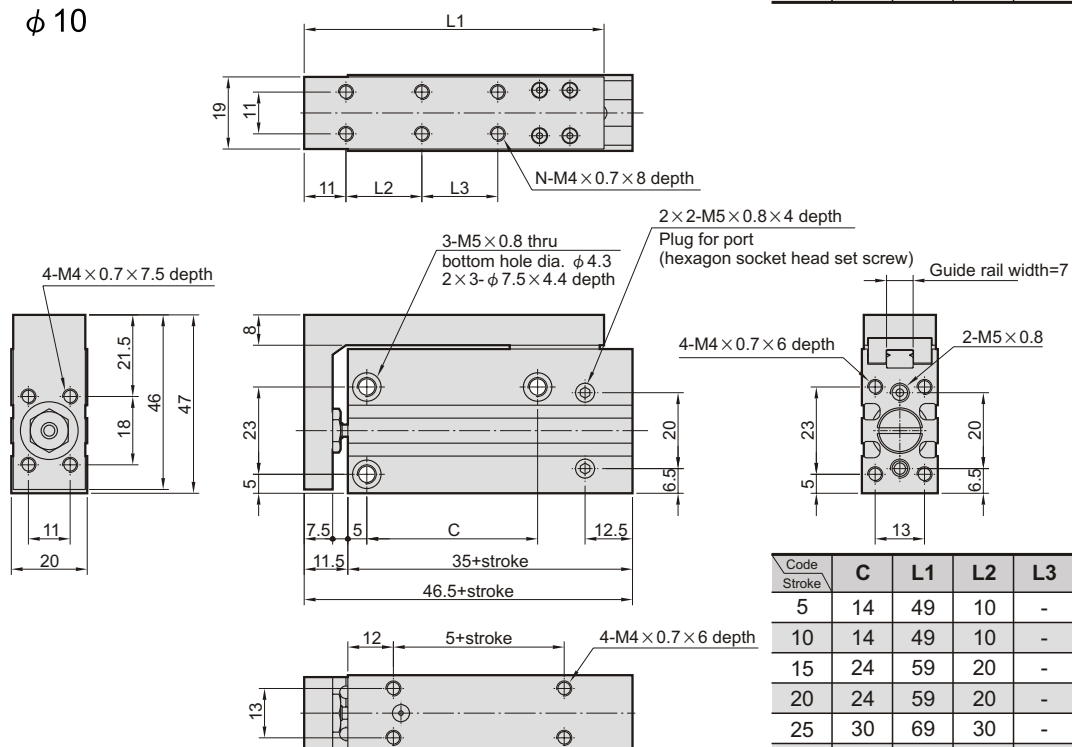


$\phi 6$



Code Stroke	C	L1	L2	L3	N
5	14	42	10	-	4
10	14	42	10	-	4
15	24	52	20	-	4
20	24	52	20	-	4
25	30	62	30	-	4
30	30	62	30	-	4
40	45	72	20	20	6
50	55	82	25	25	6
60	60	92	30	30	6

$\phi 10$



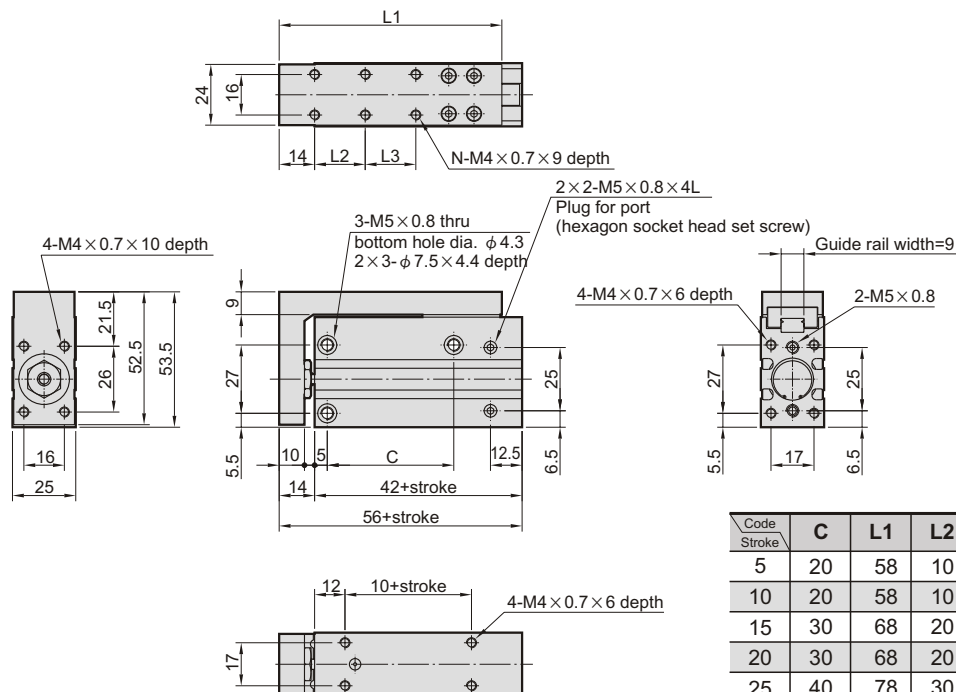
Code Stroke	C	L1	L2	L3	N
5	14	49	10	-	4
10	14	49	10	-	4
15	24	59	20	-	4
20	24	59	20	-	4
25	30	69	30	-	4
30	30	69	30	-	4
40	45	79	20	20	6
50	55	89	25	25	6
60	60	99	30	30	6

MCSH Dimensions $\phi 16$, $\phi 20$

COMPACT SLIDE

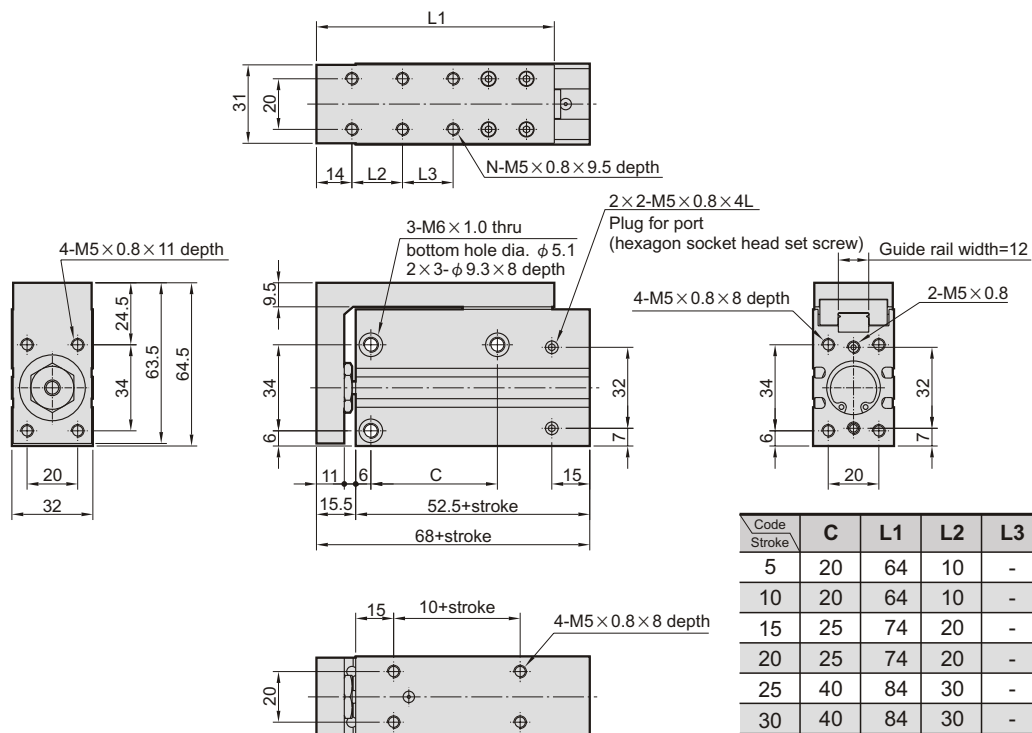


$\phi 16$



Code Stroke	C	L1	L2	L3	N
5	20	58	10	-	4
10	20	58	10	-	4
15	30	68	20	-	4
20	30	68	20	-	4
25	40	78	30	-	4
30	40	78	30	-	4
40	50	88	20	20	6
50	60	98	25	25	6
60	60	108	30	30	6

$\phi 20$



Code Stroke	C	L1	L2	L3	N
5	20	64	10	-	4
10	20	64	10	-	4
15	25	74	20	-	4
20	25	74	20	-	4
25	40	84	30	-	4
30	40	84	30	-	4
40	50	94	20	20	6
50	70	104	25	25	6
60	70	114	30	30	6