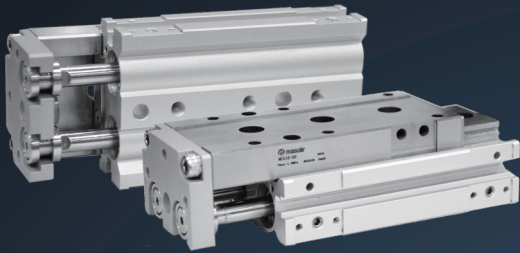


Air Slide Table (Double cylinders Type) MCG Series(φ6-φ25)



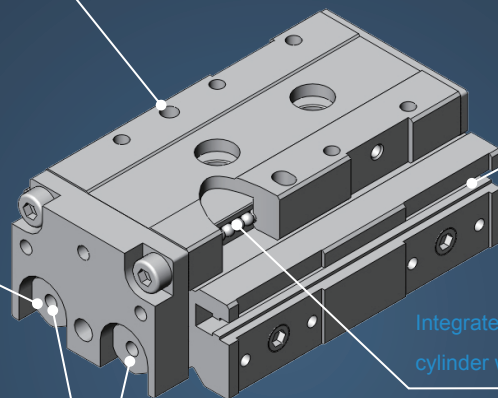
Advantages

- *Double cylinders design ensures twice output.
- *The combination of cylinder and worktable reduces the overall size.
- *Floating joint design ensures no additional load for piston rod.
- *Auto switch is available.
- *Stroke adjuster is available.
- *High strength, precision and load capacity.

The cylinder block and end plate are designed with locating pin holes.

Floating joint design ensures no additional load for piston rod.

Double cylinders design ensures twice output.

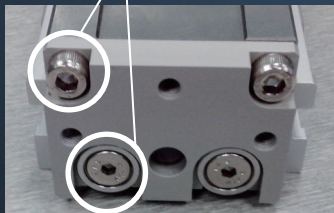


Built-in copper and auto switch is available.

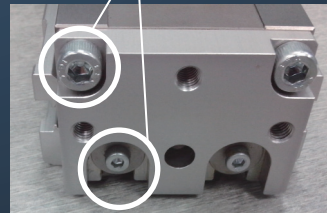
Integrated design of steel column guide rail and cylinder. cylinder with high strength, high precision, high capacity.

Compared with similar products from other companies

12.9 High strength screw



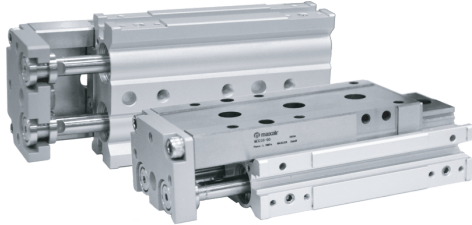
10.9 Normal strength screw



C company from Japan

1. Maxair product looks better than equivalent product from C.
2. For Maxair product, the connection between the end plate and the slide table is connected with 12.9 high strength screws instead of 10.9 normal strength screws of C company.

Linear sliding table cylinder MCG Series(φ6-φ25)



Specifications

Model	MCG6	MCG 8	MCG12	MCG16	MCG20	MCG25
Working fluid	Compressed air					
Actuation	Double acting					
Max. working pressure	0.7MPa					
Min. working pressure	0.15MPa (Note 1)					
Proof pressure	1 MPa					
Ambient temperature	-10 ~ +60°C No freezing (Note2)					
Working piston speed	50~500mm/s (Note3)					
Stroke tolerance	+2.0 0 (Note4)					
Cushion	Rubber cushion(Standard)					
Lubrication	Not required(use turbine oil class 1 ISO vg32 if necessary for lubrication)					
Port size	Main body side	M3×0.5	M5×0.8			Rc1/8
	Main body back	M3×0.5			M5×0.8	Rc1/8

Note1)0.2MPa when using φ6 shock absorber stopper.

2>Note that there will be a slight gap between the end plate and floating bush if no stopper is attached.

3:Keep within 50 to 200 mm/s when using a stroke adjusting stopper.

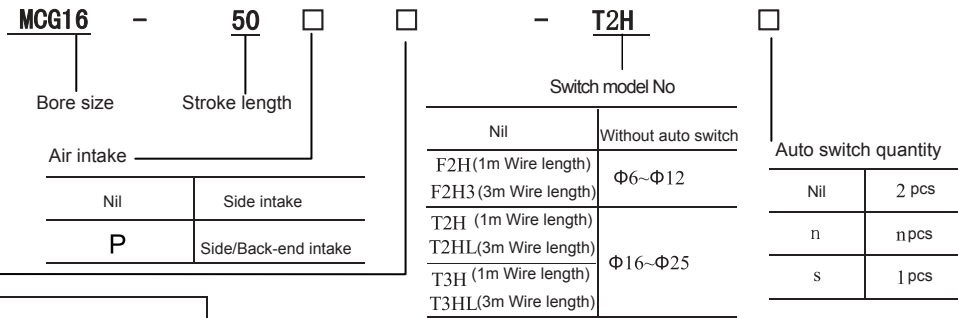
4:The stroke adjusting stopper for 0.3MPa and over working pressure is the metal sealing.

Theoretical

(N)

Bore size	Outer diameter of piston rod	Operating direction	Piston area (mm ²)	Air pressure (MPa)						
				0.2	0.3	0.4	0.5	0.6	0.7	
6	3	Double acting	Out	56.5	11.3	17.0	22.6	28.3	33.9	39.6
			IN	42.4	8.5	12.7	17.0	21.2	25.4	29.7
8	4	Double acting	Out	100.5	20.1	30.1	40.2	50.2	60.3	70.3
			IN	75.4	15.1	22.6	30.1	37.7	45.2	52.8
12	6	Double acting	Out	226.1	45.2	67.8	90.4	113.0	135.6	158.3
			IN	169.6	33.9	50.9	67.8	84.8	101.7	118.7
16	8	Double acting	Out	401.9	80.4	120.6	160.8	201.0	241.2	281.3
			IN	301.4	60.3	90.4	120.6	150.7	180.9	211.0
20	10	Double acting	Out	628.0	125.6	188.4	251.2	314.0	376.8	439.6
			IN	471.0	94.2	141.3	188.4	235.5	282.6	329.7
25	12	Double acting	Out	981.3	196.3	294.4	392.5	490.6	588.8	686.9
			IN	755.2	151.0	226.6	302.1	377.6	453.1	528.6

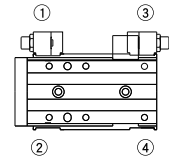
How to order



Blank	No option
S	Stroke adjusting stopper 5mm stroke adjustment on one side
S1	Stopper position ① (can be changed to ④)
S2	Stopper position ② (can be changed to ③)
S3	Stopper position ③ (can be changed to ②)
S4	Stopper position ④ (can be changed to ①)
S5	Stopper position ①③
S6	Stopper position ②④
A	Shock absorber stopper (Note 2/5/6)
A1	Stopper position ① (can be changed to ④)
A2	Stopper position ② (can be changed to ③)
A3	Stopper position ③ (can be changed to ②)
A4	Stopper position ④ (can be changed to ①)
A5	Stopper position ①③
A6	Stopper position ②④
Blank	Port on the stopper: without port
D (Note 6)	Port on stopper: side and bottom ports
Blank	Stopper block material: steel (nitriding)

- *1: To change the adjustable stroke length, use the discrete stroke adjusting stopper.
- *2: For the adjustable stroke range with a shock adsorber stopper, refer to the stopper dimensions table.
- *3: For the port position, refer to the stopper dimensions.
- *4: The port positions of the standard without stopper are ① and ③ on the figure.
- *5: Combination of the stroke adjusting stopper and shock adsorber stopper is custom order.
- *6: Can be selected for the type with stopper only.
- *7: A1, A2, A5 and A6 of $\phi 6$ to $\phi 8$ with 10mm stroke length or less and $\phi 12/\phi 16$ with 20mm stroke length or less are custom order since adjustment is not possible with the standard stopper.
- *8: When two switches are necessary for the type with S or A of $\phi 6$ to $\phi 8$ with 30mm stroke length or less, select the F2H type switch.

● Stopper position



(Combination with stroke adjusting stopper, shock absorber stopper)

Option code		Stroke adjusting stopper						Shock adsorber stopper					
Bore size	Stroke length	S1	S2	S3	S4	S5	S6	A1	A2	A3	A4	A5	A6
$\phi 6, \phi 8$	10	○	○	○	○	○	○	-	-	○	○	-	-
	20 or more	○	○	○	○	○	○	○	○	○	○	○	○
$\phi 12 \sim \phi 25$	10~20	○	○	○	○	○	○	-	-	○	○	-	-
	30 or more	○	○	○	○	○	○	○	○	○	○	○	○

How to order

Bore size (mm)	Stroke length (mm)	Switch model No
$\phi 6$	10,20,30,40,50	SW-F2H(3)
$\phi 8$	10,20,30,40,50,75	
$\phi 12$	10,20,30,40,50,75,100	
$\phi 16$	10,20,30,40,50,75,100,125	SW-T2H(L)/T3H(L)
$\phi 20$	10,20,30,40,50,75,100,125,150	
$\phi 25$	10,20,30,40,50,75,100,125,150	

[Example of model No.]

MCG12-20-S1-F2H

Model: Linear slide cylinder Double acting/single rod MCG① Bore size: $\phi 12$

② Stroke length: 20mm

③ Stopper position ①

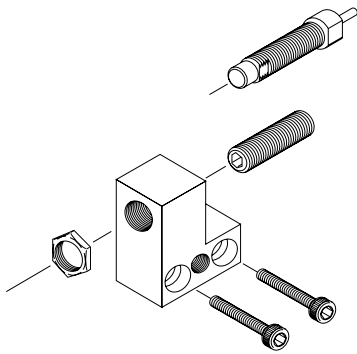
④ Two auto switches.

⑤ F2H 1m; F2H3 3m; SW-T2H 1m; SW-T2HL 3m

How to order a stopper set

*Set of a stopper and stroke adjusting stopper or shock absorber stopper.

*Use it when changing from the standard to the stroke adjusting stopper or shock absorber stopper.



MCG - 12 - S 2 D - S02

*1:When installing in the ① or ② stopper mounting position,the stroke causes changes in the adjustable stroke length;see the table below.

*2:φ6 and φ8 are not available for S03.

*3:Cannot be selected for the shock absorber stopper "A".

A Stopper	
S	Stroke adjusting stopper
A	Shock absorber stopper
B Stopper installation position *1	
1	Stopper position ① or ④
2	Stopper position ② or ③
C Port on the stopper	
Blank	Without port
D	With side and bottom ports
D Adjustable stroke length *2/*3	
Blank	Adjustable stroke range 5mm
S02	Adjustable stroke range 15mm
S03	Adjustable stroke range 25mm

Precautions when purchasing the stopper set

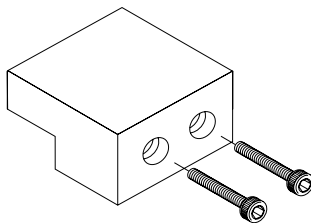
Not applicable

Discrete stroke adjusting stopper S01 is built into the stroke adjusting stopper set. When the stopper set is installed in the ① or ② position (refer to page 3), add the part shown on the right according to the stroke length and adjustable stroke length.

Model No. code	Option code		Discrete stroke adjusting stopper		
	Bore size	Stroke length	Adjustable stroke length(mm)		
			-5	-15	-25
MCG Series	Φ 6, Φ 8	10	S02	—	—
		20 or more	N/A	S02	—
	φ 12 ~ φ 25	10	S03	—	—
		20	S02	S03	—
		30 or more	N/A	S02	S03

How to order discrete stopper block

● Use when changing the adjustable stroke range or when using a custom stroke length.



MCG - 12 - XWK1

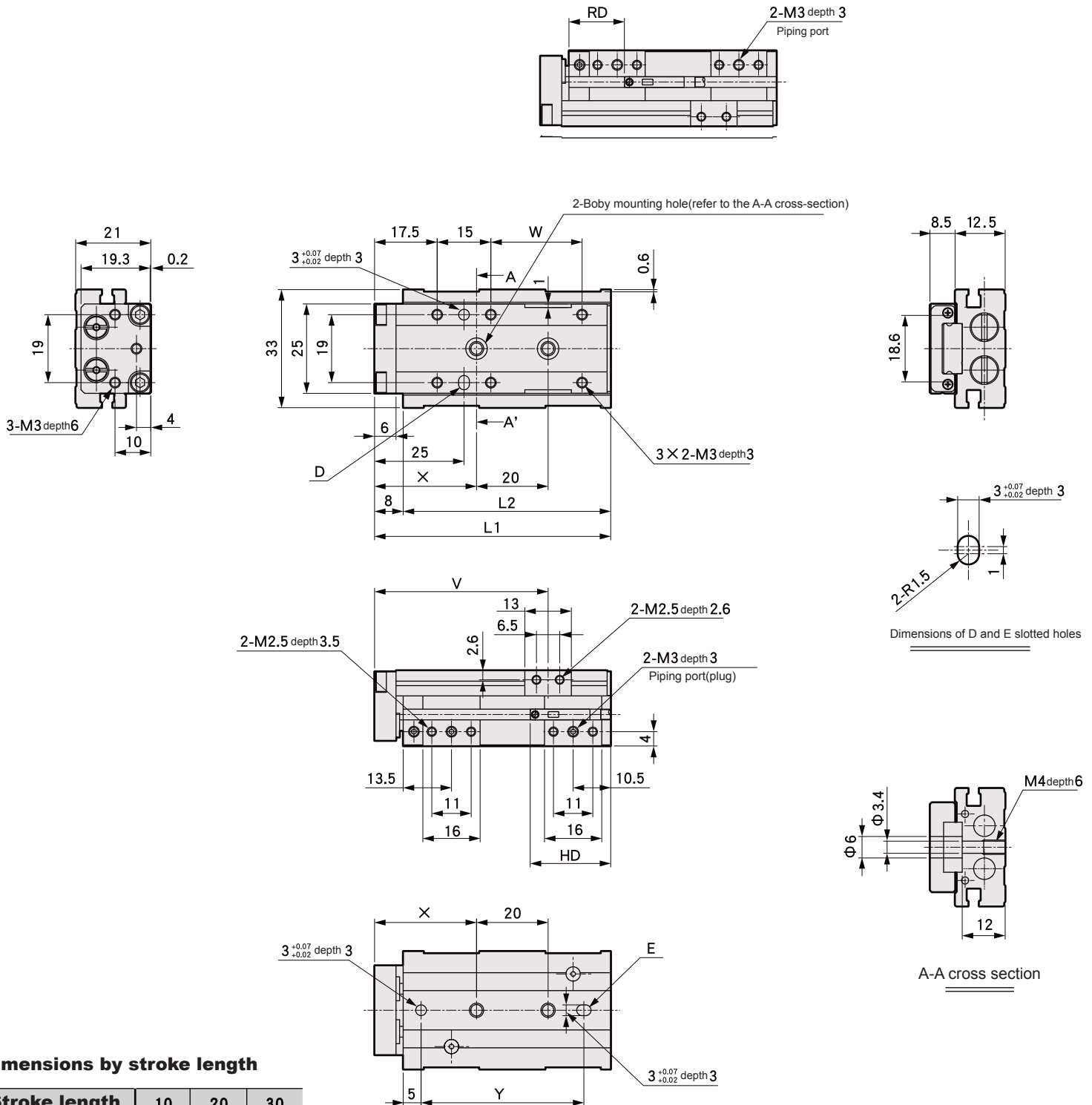
Bore size

A Stopper block	
XWK1	φ 6, φ 8: For 30mm stroke length or less
	φ 12 ~ φ 25: For 40mm stroke length or more
XWK2	φ 6, φ 8: 40 For 40mm stroke length or less
	φ 12 ~ φ 25: For 75mm stroke length or more
B Material	
Blank	Stopper block material steel(nitriding)

MCG Series

Dimensions(bore size:φ6)

MCG6
 Stroke length:10,20,30
 (Boby mounting hole in the figure shows 20mm stroke length)

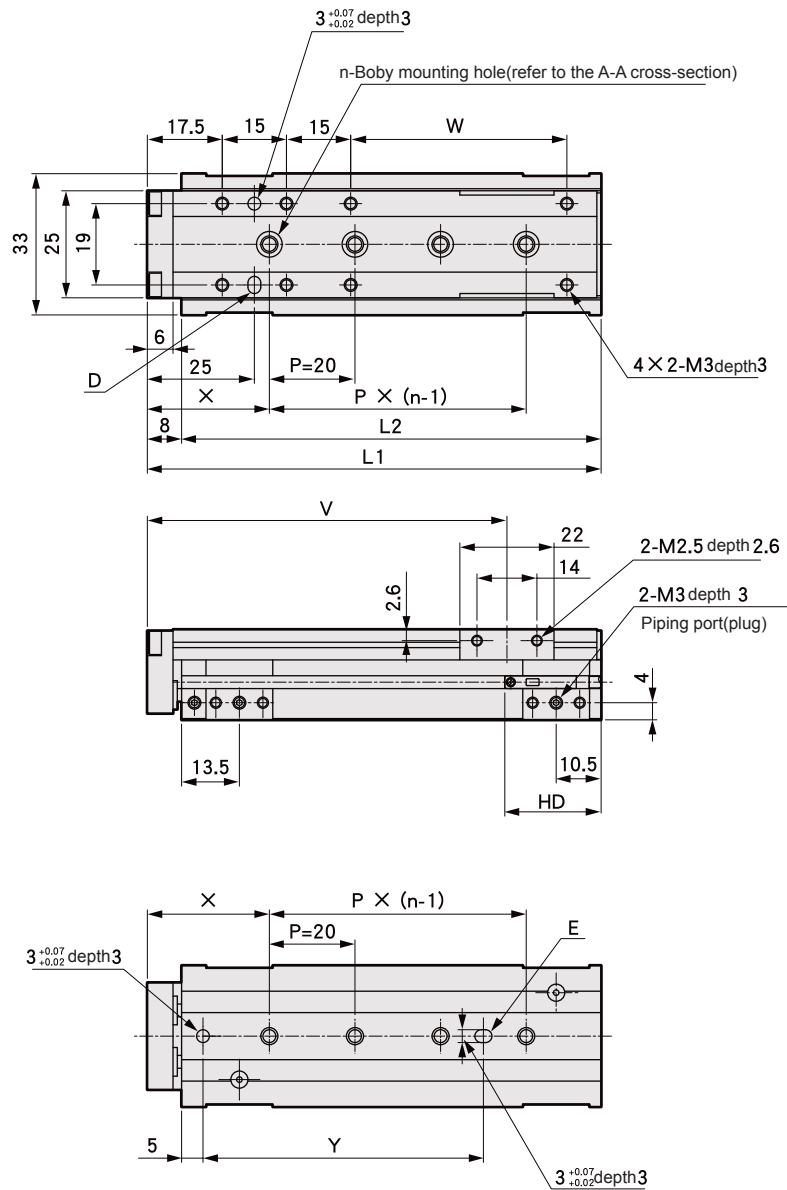


Dimensions by stroke length

Stroke length	10	20	30
L1	66	76	
L2	58	68	
V	48.5	58.5	
W	25.5	35.5	
X	28.5	26	
Y	45.5	43	
RD	25.5	15.5	
HD	22.5		

MCG Series
Dimensions(bore size: $\phi 6$)

MCG6
 Stroke length:40,50
 (Boby mounting hole in the figure shows 50mm stroke length)



Dimensions by stroke length

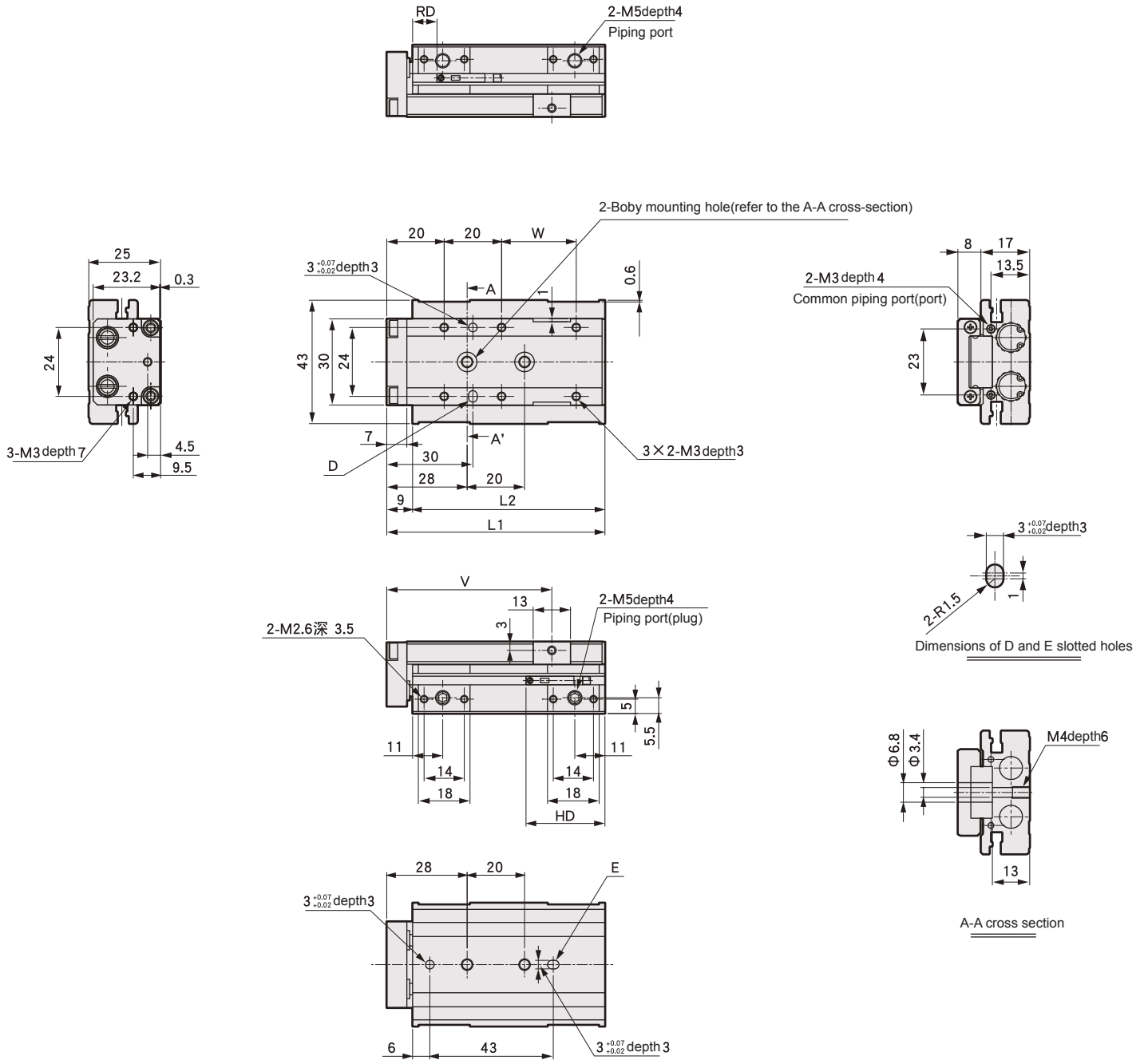
Stroke length	40	50
L1	96	106
L2	88	98
n	3	4
V	74	84
W	40.5	50.5
X	27	28.5
Y	44	65.5
RD	25.5	
HD	22.5	

MCG Series

Dimensions(bore size: $\phi 8$)

MCG8

Stroke length:10,20,30(Boby mounting hole in the figure shows 30mm stroke length)



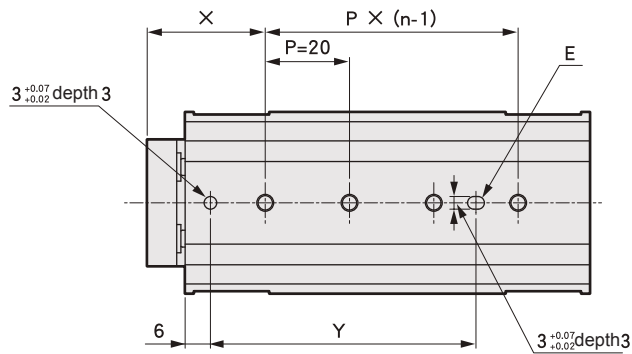
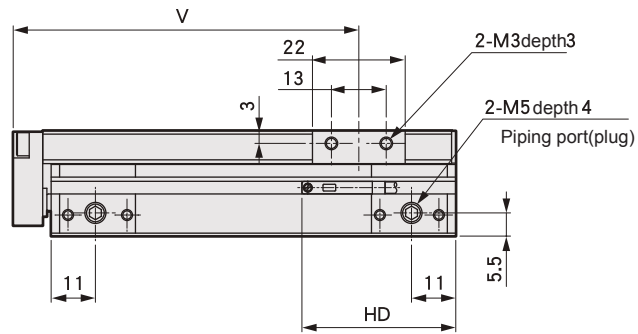
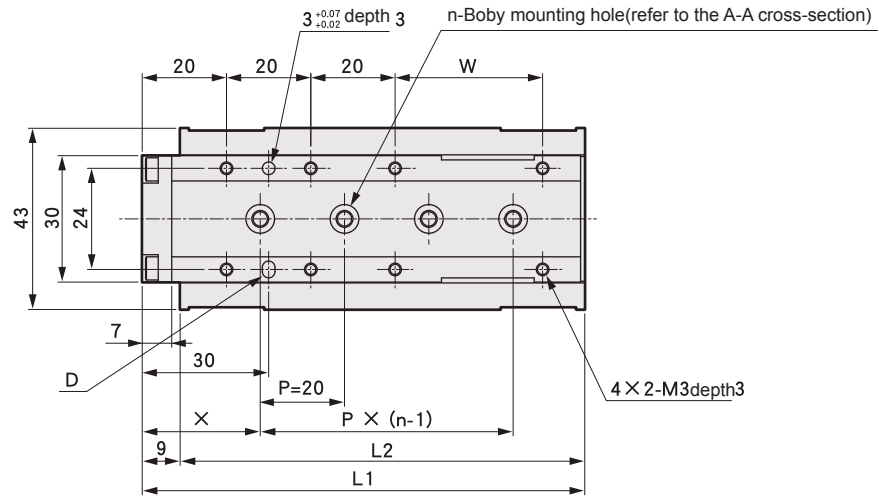
Dimensions by stroke length

Stroke length	10	20	30
L1	66	76	
L2	57	67	
V	47.5	57.5	
W	16	26	
RD	24	14	
HD	23		

MCG Series

Dimensions(bore size: $\phi 8$)

MCG8
Stroke length:40,50,75(Boby mounting hole in the figure shows 30mm stroke length)



Dimensions by stroke length

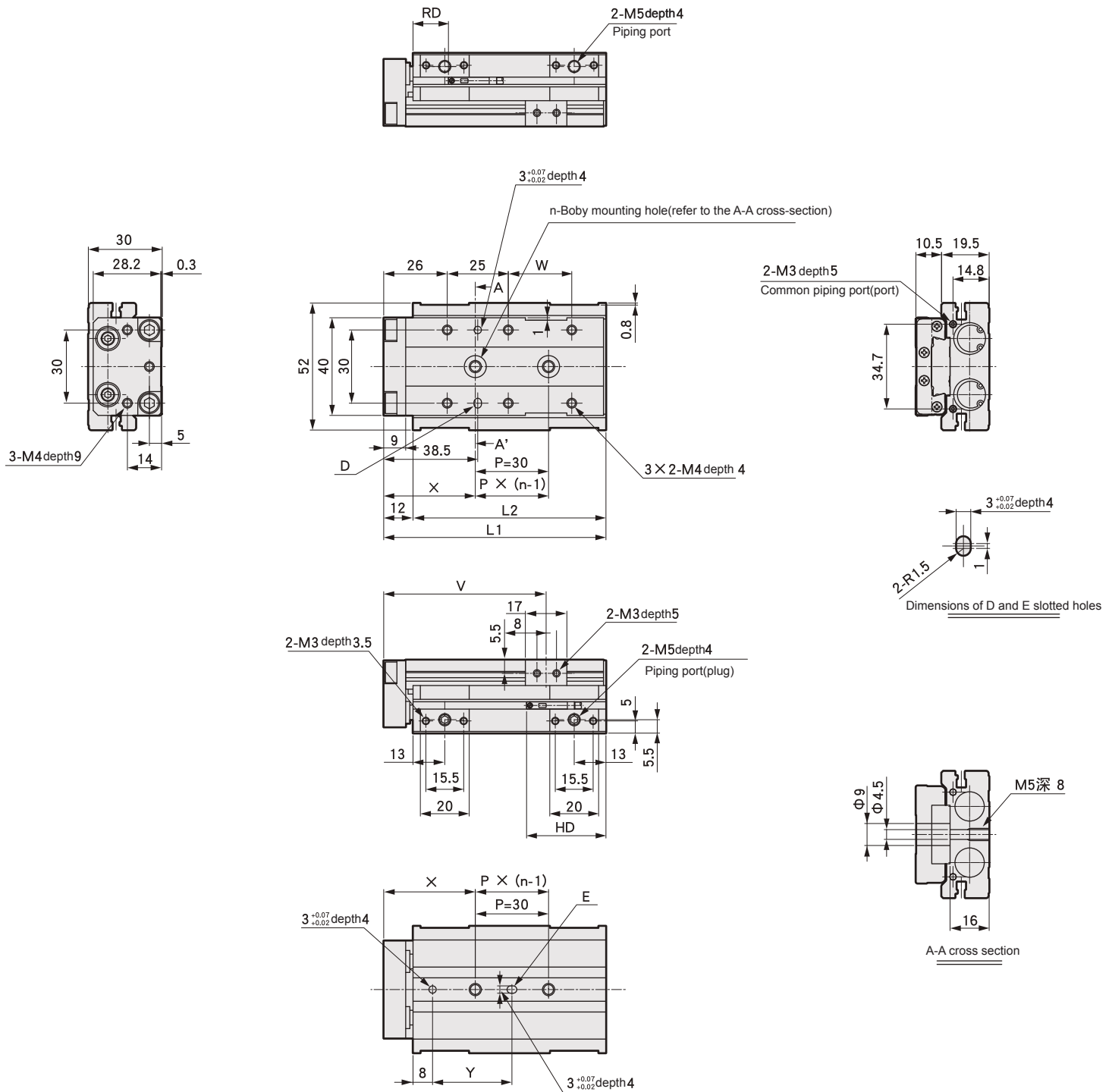
Stroke length	40	50	75
L1	95	105	130
L2	86	96	121
n	3	4	5
V	72	82	107
W	25	35	60
X	26.5	28	25
Y	41.5	63	80
RD	14		
HD	32		

MCG Series

Dimensions(bore size: $\phi 12$)

MCG12

Stroke length:10,20,30,40,50(Boby mounting hole in the figure shows 30mm stroke length)



Dimensions by stroke length

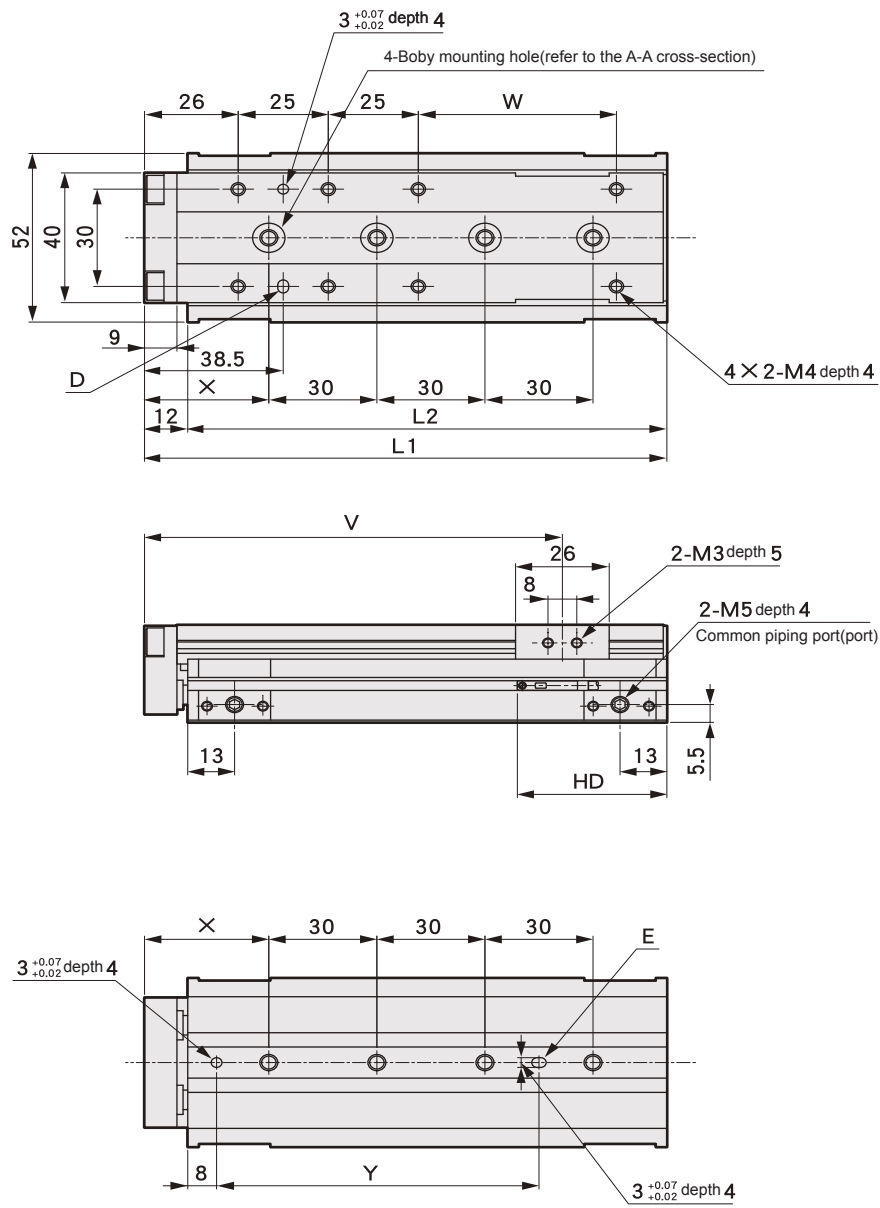
Stroke length	10	20	30	40	50
L1		91		101	111
L2		79		89	99
n		2		3	
V		66.5		76.5	86.5
W		26		36	46
X		37.5		36	32
Y		32.5		31	57
RD	41.5	31.5		21.5	
HD			27		

MCG Series

Dimensions(bore size: ϕ 12)

MCG12

Stroke length:75,100(Boby mounting hole in the figure shows 100mm stroke length)

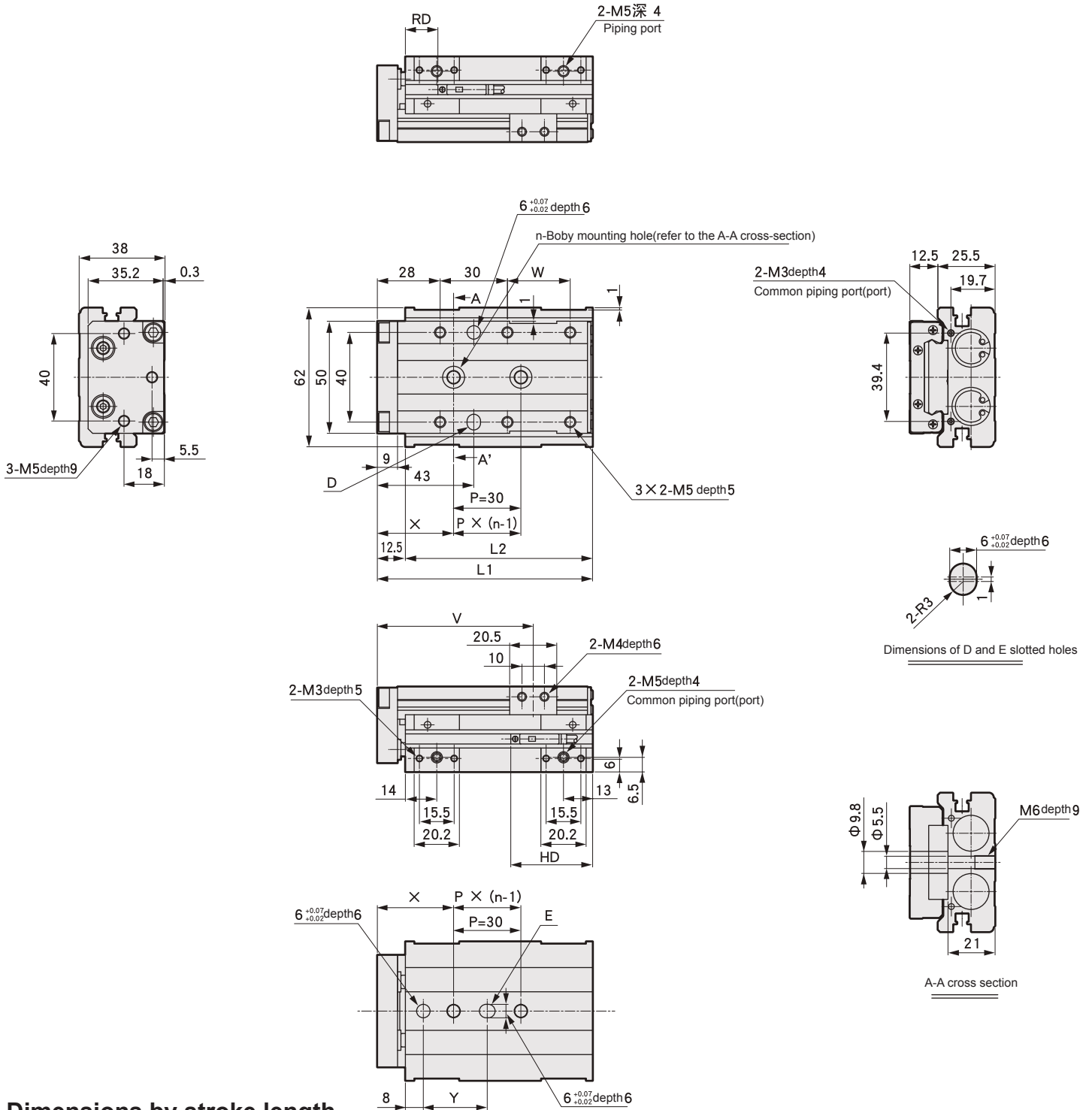


Dimensions by stroke length

Stroke length	75	100
L1	145	170
L2	133	158
V	116	141
W	55	80
X	34.5	47
Y	89.5	102
RD	21.5	
HD	36	

MCG Series
Dimensions(bore size: ϕ 16)

MCG16
Stroke length:10,20,30,40,50(Boby mounting hole
in the figure shows 30mm stroke length)

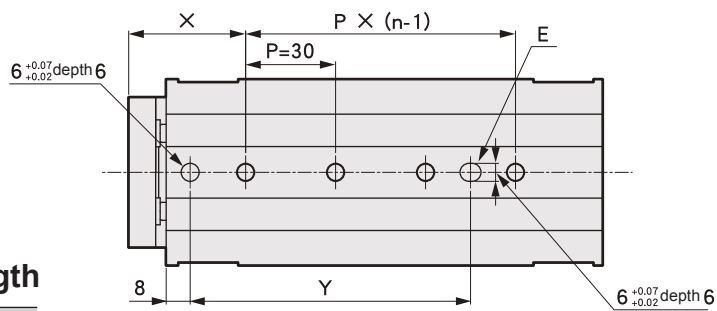
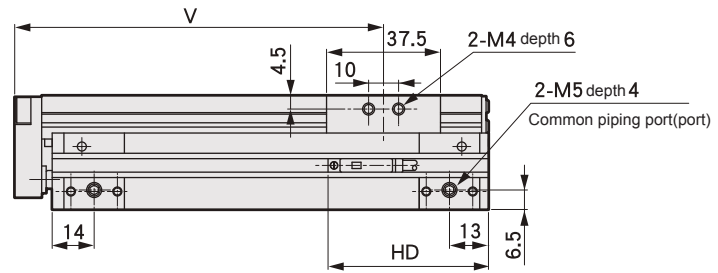
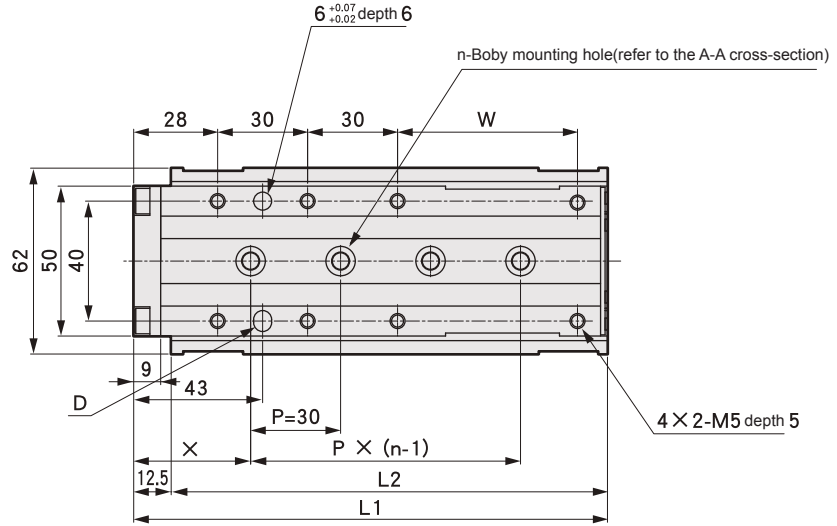


Dimensions by stroke length

Stroke length	10	20	30	40	50
L1		96		106	116
L2		83.5		93.5	103.5
n		2			3
V		69.8		79.8	89.8
W		28		38	48
X		34		45.5	35.5
Y		28.5		40	60
TOH	RD	37	27	17	
	HD	36.5			

MCG Series
Dimensions(bore size: ϕ 16)

MCG16
Stroke length:75,100,125(Boby mounting hole
in the figure shows 75mm stroke length)



Dimensions by stroke length

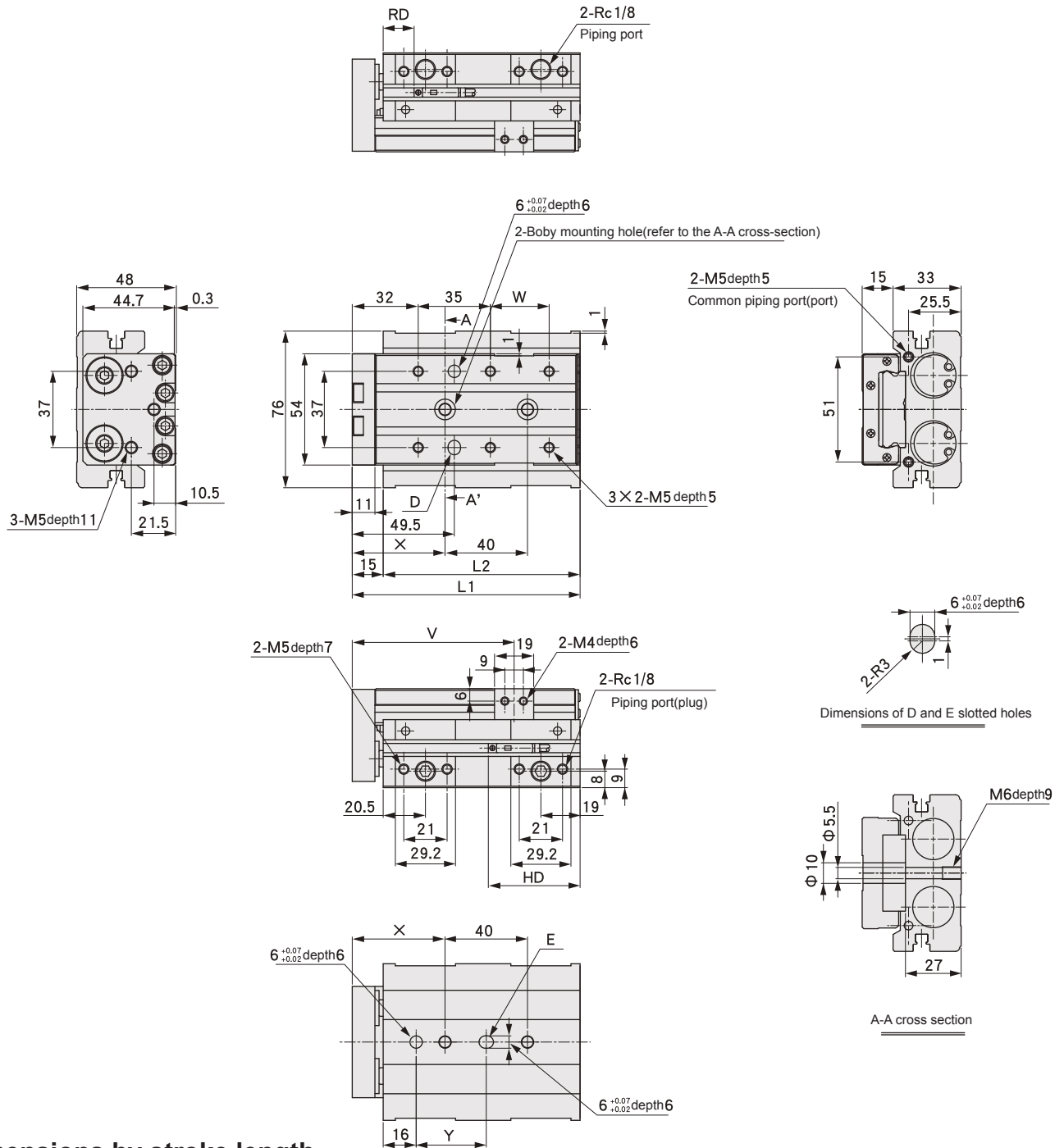
Stroke length	75	100	125
L1	158	183	208
L2	145.5	170.5	195.5
n	4	5	
V	123.3	148.3	173.3
W	60	85	110
X	39	37	49
Y	93.5	121.5	133.5
T0H	RD	17	
	HD	53.5	

MCG Series

Dimensions(bore size: $\phi 20$)

MCG20

Stroke length:10,20,30,40,50(Boby mounting hole in the figure shows 30mm stroke length)



Dimensions by stroke length

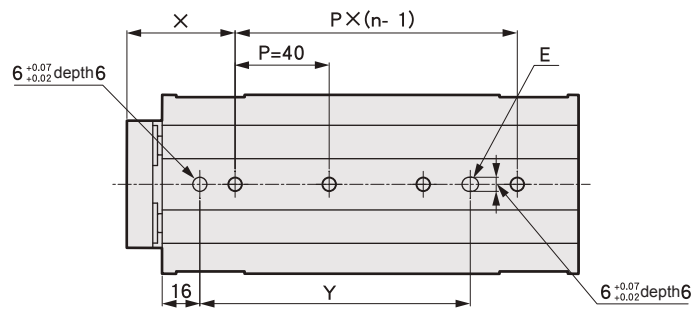
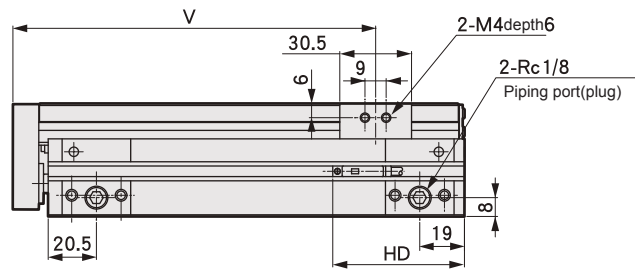
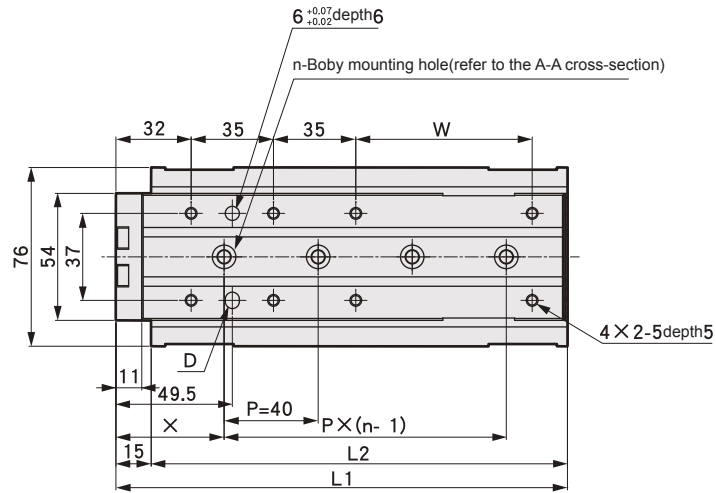
Stroke length	10	20	30	40	50
L1		110.5		120.5	130.5
L2		95.5		105.5	115.5
V		78.5		88.5	98.5
W		28.5		38.5	48.5
X		45		51	49
Y		34		40	38
TOH	RD	36	26	16	
	HD	49.5			

MCG Series

Dimensions(bore size: $\phi 20$)

MCG20

Stroke length:75,100,125,150(Boby mounting hole in the figure shows 100mm stroke length)

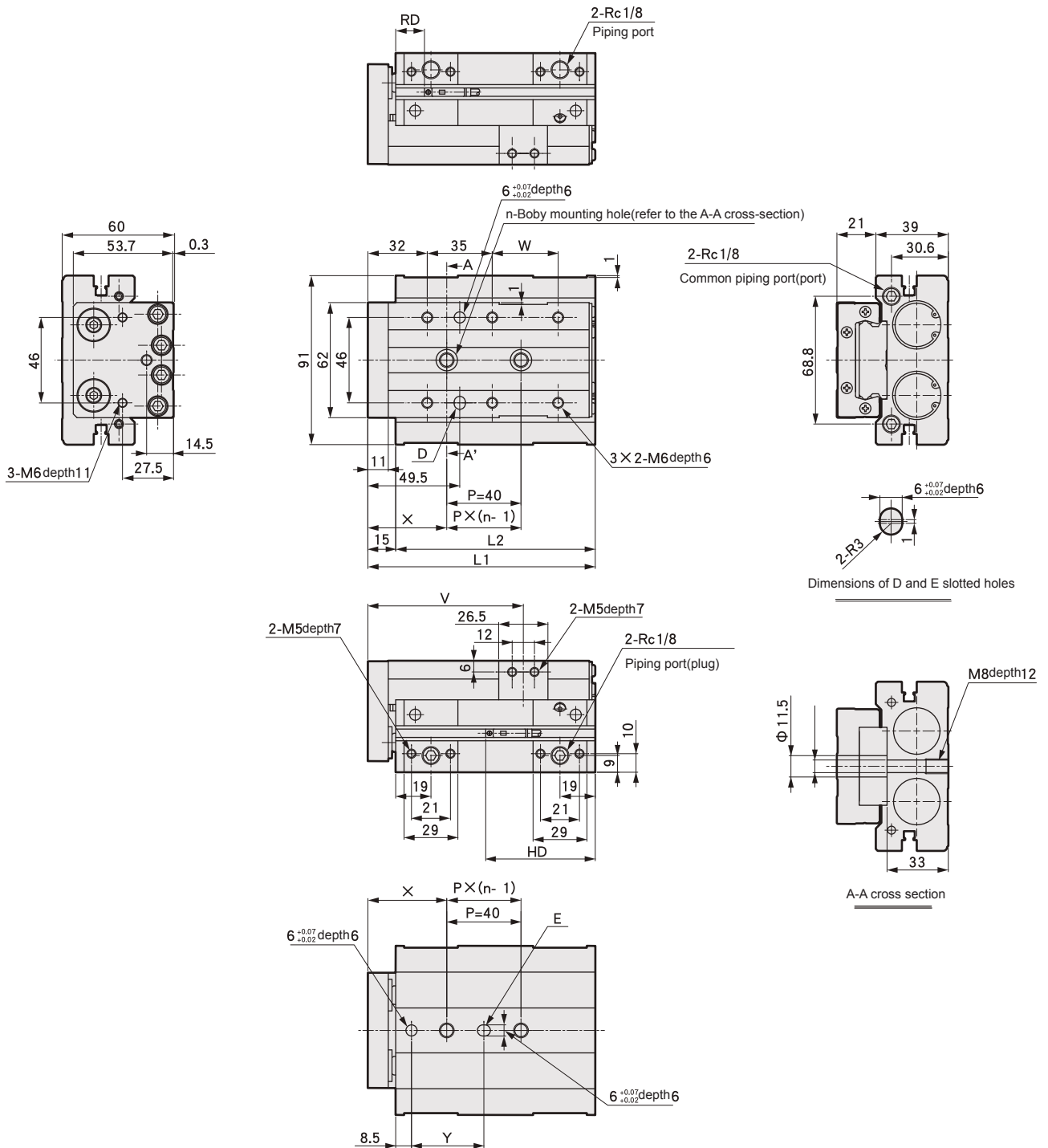


Dimensions by stroke length

Stroke length	75	100	125	150
L1	167	192	217	242
L2	152	177	202	227
n	3	4	5	
V	129.3	154.3	179.3	204.3
W	50	75	100	125
X	46	53	51	
Y	75	115	122	160
T0H	RD	16		
	HD	61		

MCG Series
Dimensions(bore size: ϕ 25)

MCG25
Stroke length:10,20,30,40,50(Boby mounting hole
in the figure shows 30mm stroke length)

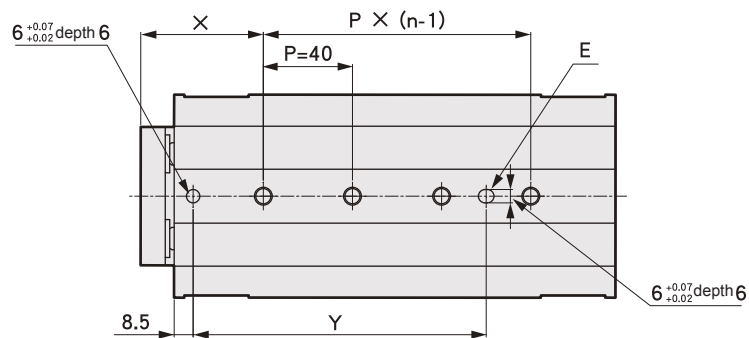
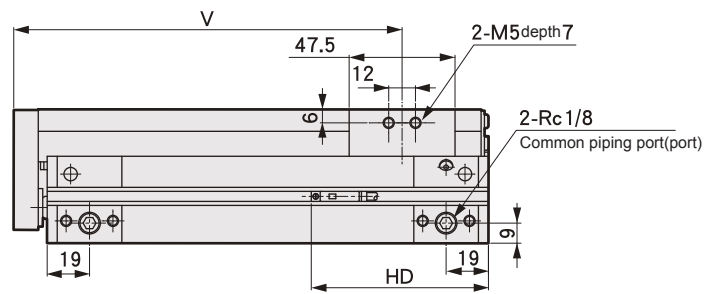
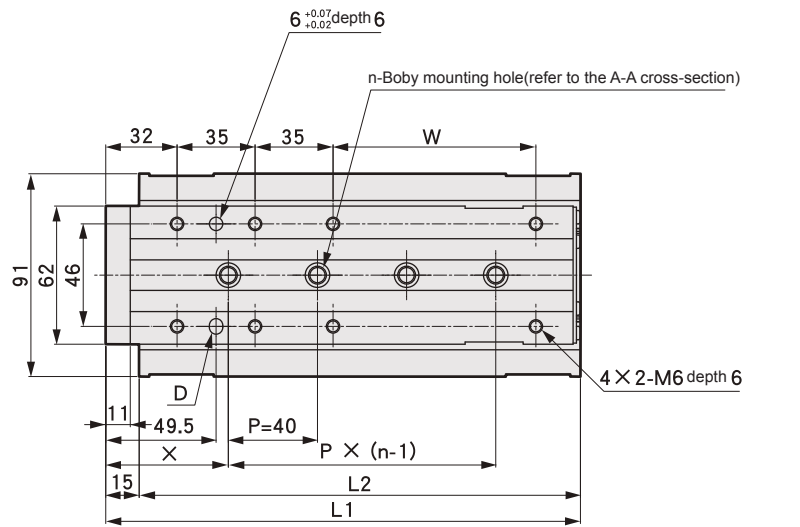


Dimensions by stroke length

Stroke length	10	20	30	40	50
L1		122.5		132.5	142.5
L2		107.5		117.5	127.5
n		2		3	2
V		83.8		93.8	103.8
W		35.5		45.5	55.5
X		42.5		45.5	60.5
Y		39		42	57
TOH	RD	38.5	28.5	18.5	
	HD	59			

MCG Series
Dimensions(bore size: ϕ 25)

MCG25
Stroke length:75,100,125,150(Boby mounting hole
in the figure shows 100mm stroke length)



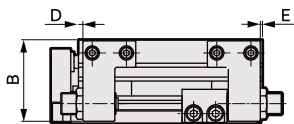
Dimensions by stroke length

Stroke length	75	100	125	150
L1	188	213	238	263
L2	173	198	223	248
n	3	4	5	
V	138.8	163.8	188.8	213.8
W	66	91	116	141
X	60	55	45	60
Y	96.5	131.5	161.5	176.5
TOH	RD	18.5		
	HD	79.5		

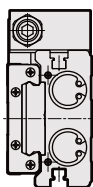
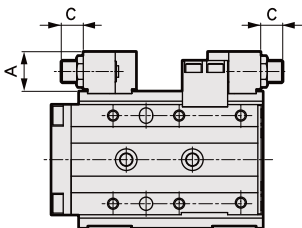
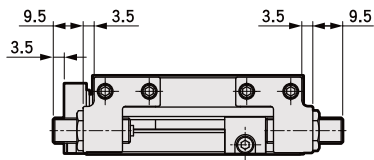
MCG Series

Dimensions:Option

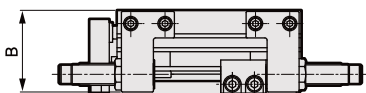
●Stroke adjusting stopper(S1 to S6)



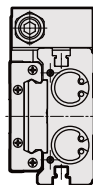
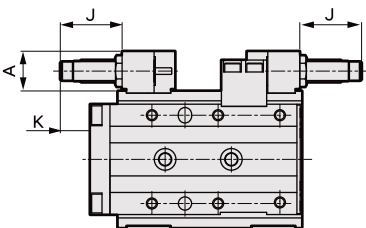
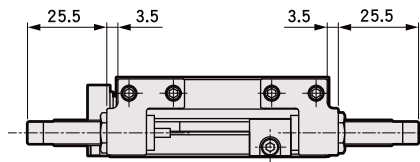
For $\phi 8$



●Shock absorber stopper(A1 to A6)



For $\phi 8$



*1:The figure of the stroke adjusting stopper(S1 to S6) is for 5mm adjustable stroke range.

Code	A	B	C	D	E	J	K	Shock absorber stopper adjustable stroke range(one side)
$\Phi 6$	14	19.5	11	4	1	21	9	9
$\Phi 8$	15.6	24.5	9.5	0.5	0.5	25.5	16	17
$\Phi 12$	15.5	29	12	1	1	25.5	12.5	14.5
$\Phi 16$	18	37	10	2	1	28.5	14	15
$\Phi 20$	20.5	45	14.5	4	2.5	29.5	10.5	13
$\Phi 25$	20.5	57	11.5	2.5	2.5	26.5	9	10