

## MAL Series Aluminum Alloy Mini Cylinder



### Ordering code

MAL - 
 CA - 
 50 X 
 50 - 
 25 - 
 S - 
 LB

<p><b>Type</b>                  MAL: Double acting                  MSAL: Single acting                  MALD: Double-shaft double acting                  MALJ: Double-shaft and adjustable stroke type</p>	<p><b>Back cover type</b>                  CA: Fishtail type                  CM: Rounded type                  U: Horizontal type</p>	<p><b>Bore</b></p>	<p><b>Stroke</b></p>	<p>MALJ adjustable stroke type</p>	<p><b>Magnet</b>                  S: With magnet                  Blank: Without magnet</p>	<p><b>Mounting</b>                  Blank: Basic type                  LB: Front and back fixed type                  FA: Front cover fixed type                  SDB: Back cover swinging type</p>
--	--	--------------------	----------------------	------------------------------------	---	---

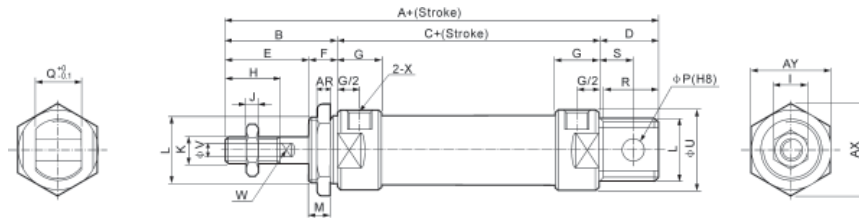
### Specifications

Bore (mm)	16	20	25	32	40
Operation	Double acting or single acting				
Fluid	Air				
Mounting	Basic FA LB SDB				
Operating pressure	1.0~9.0 Kg/cm <sup>2</sup>				
Ensured proof pressure	13.5 Kg/cm <sup>2</sup>				
Operating temperature	0~70°C				
Operating piston speed	50~800 mm/s				
Cushioning	Rubber bumper				
Port size	M5×0.8		G1/8"		

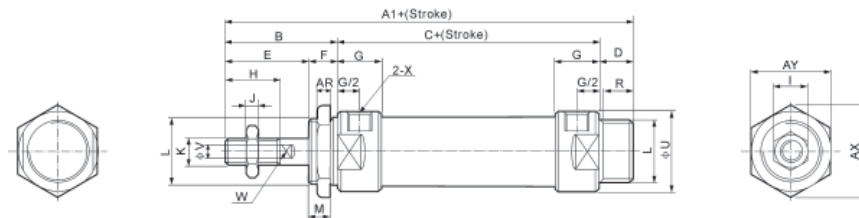
## MAL Series Aluminum Alloy Mini Cylinder

### ● Dimensions

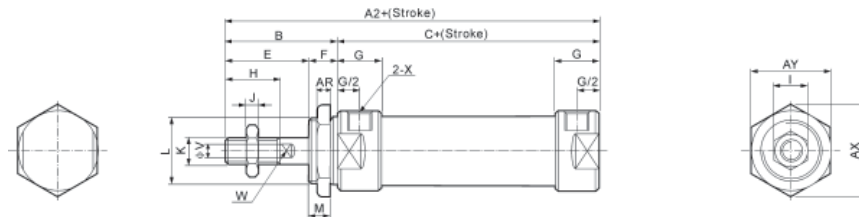
#### MAL-CA



#### MAL-CM



#### MAL-U

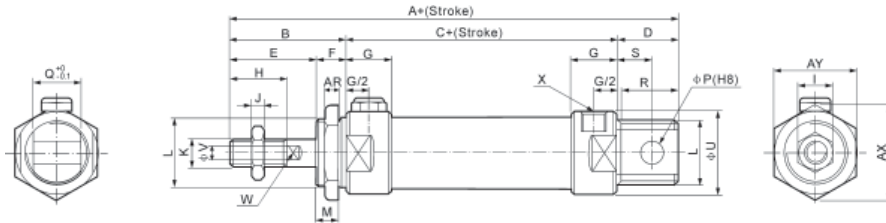


Bore / Symbol	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	104	104	90	38	52	15	15	24	14	11	16	10	5	M6×1
20	131	122	110	40	70	21	12	28	12	16	20	12	6	M8×1.25
25	135	128	114	44	70	21	14	30	14	16	22	17	6	M10×1.25
32	141	128	114	44	70	27	14	30	14	16	22	17	6	M10×1.25
40	165	152	138	46	92	27	14	32	14	22	24	17	7	M12×1.25
Bore / Symbol	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16×1.5	8	6	12	13	13	6	20	6	/	M5	7	24	27.5
20	M22×1.5	10	8	16	19	12	12	29	8	6	G1/8	7	33	29
25	M22×1.5	12	8	16	19	14	12	34	10	8	G1/8	7	33	29
32	M24×2.0	12	10	16	25	14	15	39.5	12	10	G1/8	8	37	32
40	M30×2.0	12	12	20	25	14	15	49.5	16	14	G1/4	9	47	41

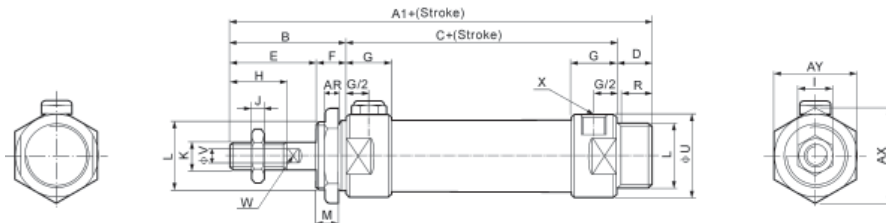
# MAL Series Aluminum Alloy Mini Cylinder

● Dimensions

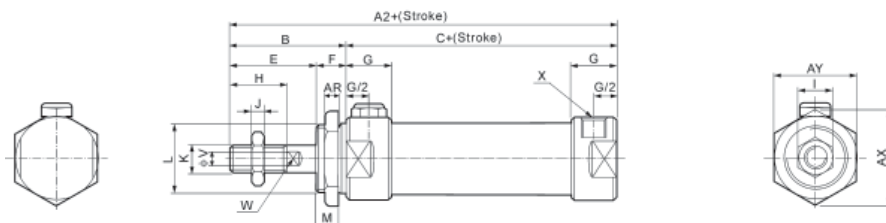
**MSAL-CA**



**MSAL-CM**



**MSAL-U**

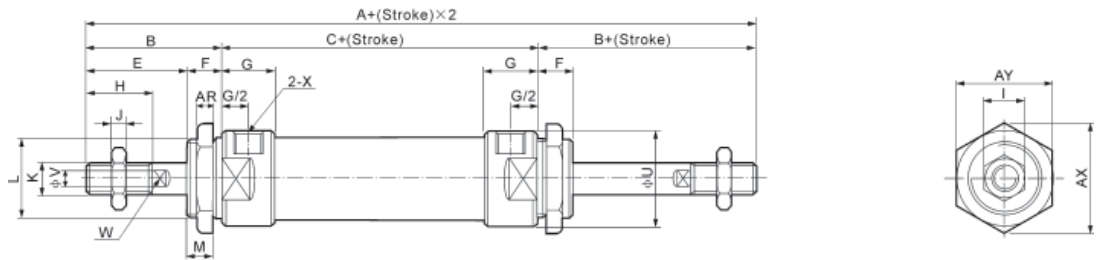


Symbol	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
	0-50	51-100	51-100	0-50	51-100	0-50		51-100									
20	131	156	122	147	110	135	40	70	95	21	12	28	12	16	20	12	6
25	135	160	128	153	114	139	44	70	95	21	14	30	14	16	22	17	6
32	141	166	128	153	114	139	44	70	95	27	14	30	14	16	22	17	6
40	165	190	152	177	138	163	46	92	117	27	14	32	14	22	24	17	7
Bore / Symbol	K		L		M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8×1.25		M22×1.5		10	8	16	19	12	12	29	8	6	G1/8	7	33	29
25	M10×1.25		M22×1.5		12	8	16	19	14	12	34	10	8	G1/8	7	33	29
32	M10×1.25		M24×2.0		12	10	16	25	14	15	39.5	12	10	G1/8	8	37	32
40	M12×1.25		M30×2.0		12	12	20	25	14	15	49.5	16	14	G1/4	9	47	41

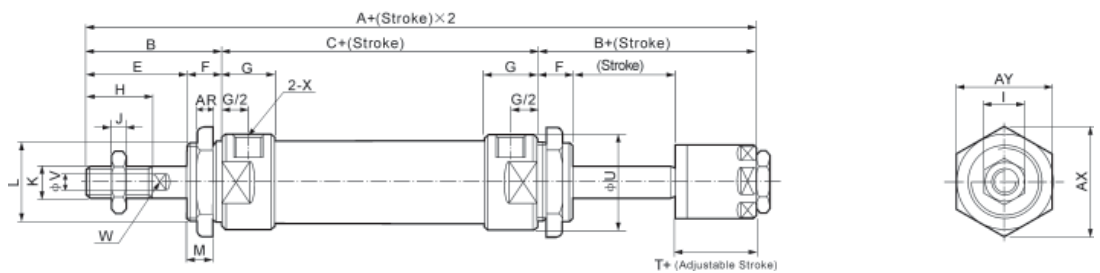
## MAL Series Aluminum Alloy Mini Cylinder

● Dimensions

**MALD**



**MALJ**



Bore/Symbol	A	A1	B	C	E	F	G	H	I	J	K
20	131	122	40	70	28	12	16	20	12	6	M8×1.25
25	135	128	44	70	30	14	16	22	17	6	M10×1.25
32	141	128	44	70	30	14	16	22	17	6	M10×1.25
40	165	152	46	92	32	14	22	24	17	7	M12×1.25
Bore/Symbol	L	M	U	V	W	X	AR	AX	AY	T	
20	M22×1.5	10	29	8	6	G1/8	7	33	29	19	
25	M22×1.5	12	34	10	8	G1/8	7	33	29	21	
32	M24×2.0	12	39.5	12	10	G1/8	8	37	32	21	
40	M30×2.0	12	49.5	16	14	G1/4	9	47	41	21	