

- Cylinder
- Calculation
- SI
- SI A.
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- DSN
- DN/DSN A.
- MA
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- MALC**
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- MHL2
- Pneumatic Fingers
- MXH/MXQ
- CJP
- CJ2
- CDU
- TN
- CXS
- MGP
- MSQ



MALC16X100



MALC25X100







MALC32X100

### Features

1. Improving for adapting wide range applications, using precise polishing of piston rod, more sense of products quality and longer life of front seal.
2. Optima design and improve the production efficiency.
3. Combined with enterprise color planning and new structure design.
4. Change processing technology of cylinder cushion structure to ensure buffering function in stabilization.
5. Improved the range of buffering fine-tune, enable customers to more easily adjust the buffer throttling speed.

### Ordering Code

MALC	U	32	x	50	10	S	E	LB	MT
Series	Back Form	Bore	Stroke	Adjustable Stroke	Magnet	Piston Rod Material	Mountings	Sensor	
MALC: Double Acting 	Blank: Standard with eye mounting 	16 20 25		10: 10mm 20: 20mm 30: 30mm 50: 50mm 75: 75mm 100: 100mm	S: With magnet Blank: Without magnet	Blank: Carbon steel E: Stainless steel	Blank: Basic mountings LB: Front and back mounting 	JEL-03R  * Standard wire length is 1 meter, please specify for other length	
MALCD: Double-shaft 	CM: Standard with round back cover 	32 40					FA: Front mounting flange FB: Back mounting flange 		
MALCJ: Double-shaft with adjustable stroke 	U: Standard with flat back cover 						SDB: Back hinge 		

### Specification

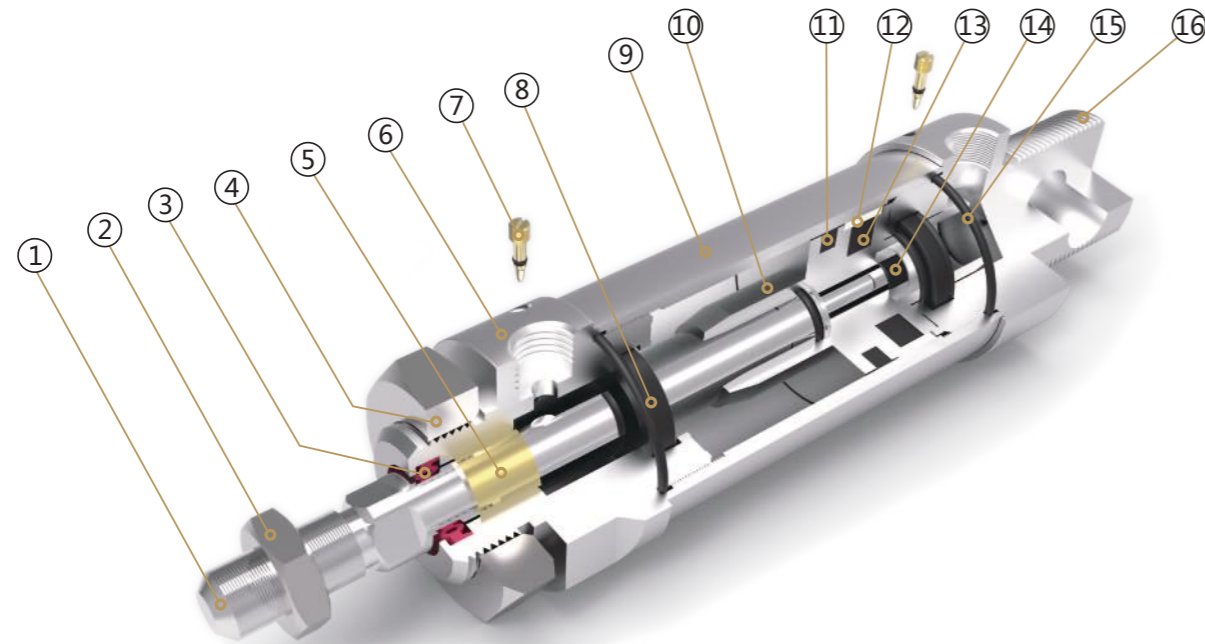
Bore (mm)	16	20	25	32	40
Operation	Double Acting				
Working Medium	Air				
Mountings	Basic LB FA FB SDB				
Operating Pressure Range	0.1 ~ 1.0MPa				
Proof Pressure	1.5 MPa				
Operating Temperature Range	-20 ~ 80°C				
Operating Speed Range	50 ~ 800mm/s				
Cushion	Adjustable Air Cushion				
Port Size	M5×0.8	G1/8"			G1/4"

# MALC Series

## Aluminum Alloy Mini Cylinder



### Internal Structure



### Parts

Number	Name	Number	Name
1	Piston rod	9	Barrel
2	Hexagon nut	10	Piston
3	Shaft seal	11	Piston seal
4	Hexagon nut	12	Anti-friction seal
5	DU bearing	13	Magnet
6	Front cover	14	Screw
7	Anti-collision gasket	15	O ring
8	Cushion	16	Back cover

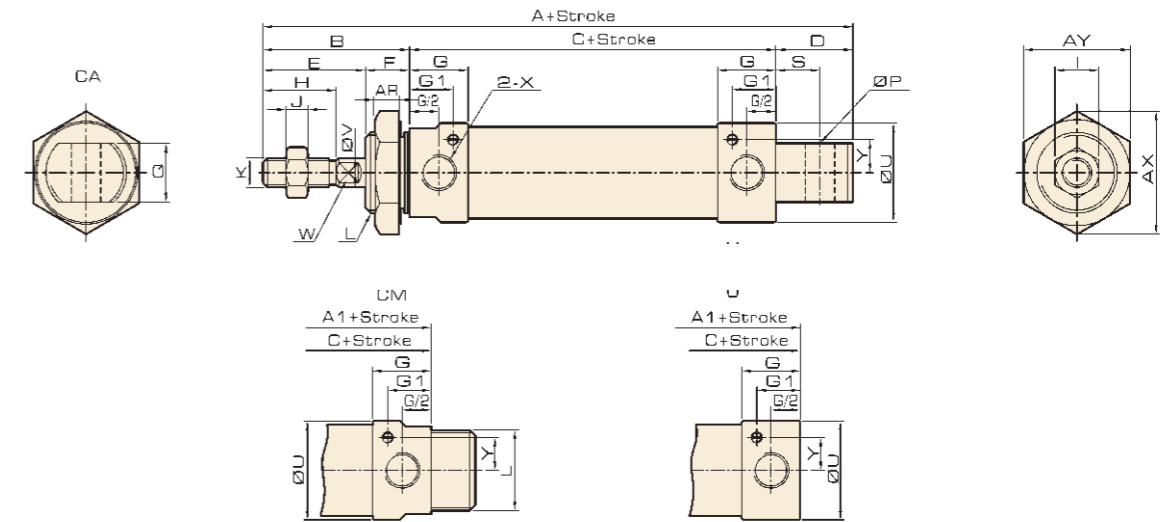
ISO9001:2015 CE

# MALC Series

## Aluminum Alloy Mini Cylinder

### Overall Dimension

#### MALC



Cylinder with or without magnet is the same size

### Dimension

Bore/Stroke	A	A1	B	C	D	D1	E	F	G	G1	H	I	J	K
16	105	90	38	52	15	12	24	14	11	6.5	16	10	5	M6×1
20	131	110	40	70	21	12	28	12	16	12	20	12	6	M8×1.25
25	135	114	44	70	21	14	30	14	16	11	22	17	6	M10×1.25
32	141	114	44	70	27	14	30	14	16	11.5	22	17	6	M10×1.25
40	165	138	46	92	27	14	32	14	22	15	24	19	7	M12×1.25

Bore/Stroke	L	P	Q	S	U	V	W	X	AR	AX	AY	Y
16	M16×1.5	6	12	6	21	6	5	M5×0.8	6	27.8	24	6
20	M22×1.5	8	16	12	27	8	6	G1/8	7	33.5	29	9
25	M22×1.5	8	16	12	32	10	8	G1/8	7	33.5	29	9
32	M24×2	10	16	15	39.5	12	10	G1/8	9	37	32	11.5
40	M30×2	12	20	15	47	16	14	G1/4	9	46	40	14

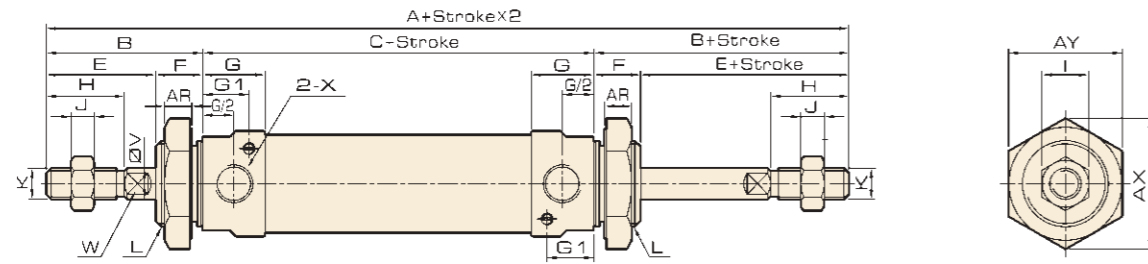
# MALC Series

## Aluminum Alloy Mini Cylinder



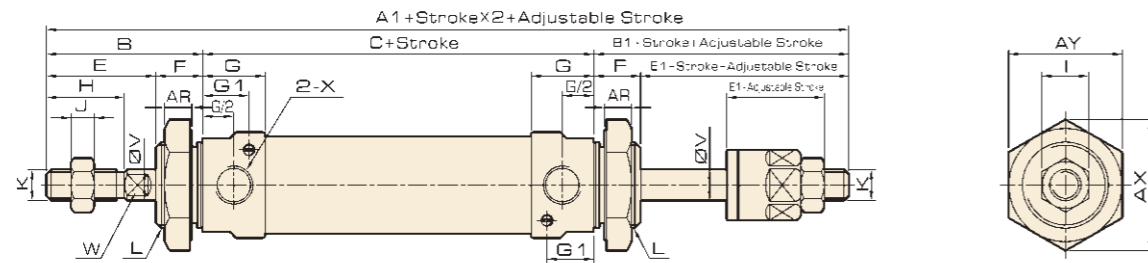
### Overall Dimension

#### MALCD



Cylinder with or without magnet is the same size

#### MALCJ



Cylinder with or without magnet is the same size

### Dimension

Bore/Stroke	A	A1	B	B1	C	E	E1	F	G	G1	H	I	J	K	L	U	V	W	X	AR	AX	AY	Y
16	128	125	38	35	52	24	21	14	11	6.5	16	10	5	M6×1	M16×1.5	21	6	5	M5×0.8	6	27.8	24	6
20	150	147	40	37	70	28	25	12	16	12	20	12	6	M8×1.25	M22×1.5	27	8	6	G1/8	7	33.5	29	9
25	158	155	44	41	70	30	27	14	16	11	22	17	6	M10×1.25	M22×1.5	32	10	8	G1/8	7	33.5	29	9
32	158	155	44	41	70	30	27	14	16	11.5	22	17	6	M10×1.25	M24×2	39.5	12	10	G1/8	9	37	32	11.5
40	184	180	46	42	92	32	28	14	22	15	24	19	7	M12×1.25	M30×2	47	16	14	G1/4	9	46	40	14

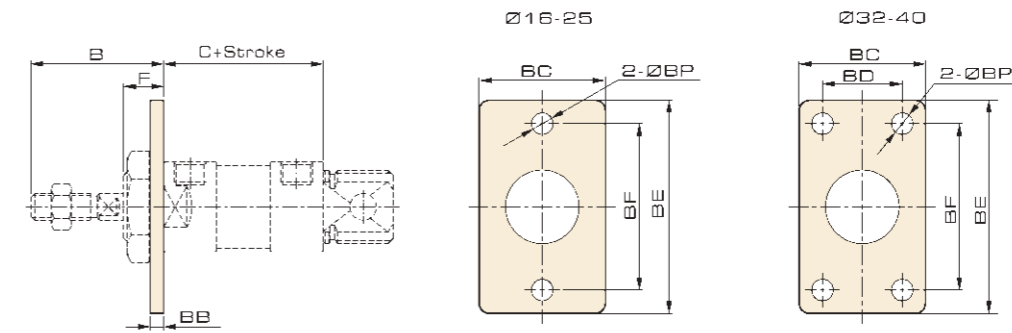
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# MAL / MALC

## Mini Cylinder Accessory

### Overall Dimension

#### FA

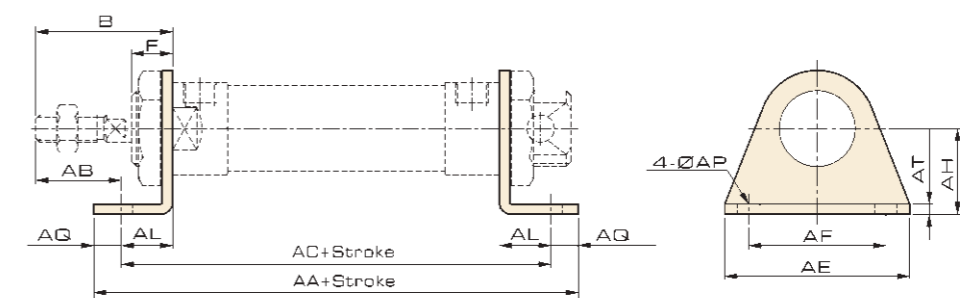


### Dimension

Symbol Bore/Stroke	B	C (MAL Series)	C (MSAL/MTAL Series)			BB	BC	BD	BE	BF	BP	F
			0-50	50-100	100-150							
16	38	52	77	102	-	3	26	-	52	40	5.5	14
20	40	70	95	120	145	4	38	-	64	50	6.5	12
25	44	70	95	120	145	4	38	-	64	50	6.5	14
32	44	70	95	120	145	4	47	33	72	58	6.5	14
40	46	92	117	142	167	4	50	36	84	70	6.5	14

### Overall Dimension

#### LB



### Dimension

Symbol Bore/Stroke	B	AA (MAL Series)	AA (MSAL/MTAL Series)			AB	AC (MAL Series)	AC (MSAL/MTAL Series)			AE	AF	AH	AL	AP	AQ	AT	F
			0-50	50-100	100-150			0-50	50-100	100-150								
16	38	90	115	140	-	25	78	103	128	-	44	32	20	13	5.5	6	3	14
20	40	116	141	166	191	25	100	125	150	175	54	40	25	15	6.5	8	3	12
25	44	116	141	166	191	29	100	125	150	175	54	40	25	15	6.5	8	3	14
32	44	136	161	186	211	19	120	145	170	195	59	45	32	25	6.5	8	4	14
40	46	158	183	208	233	21	142	167	192	217	64	50	36	25	6.5	8	4	14

# MAL / MALC

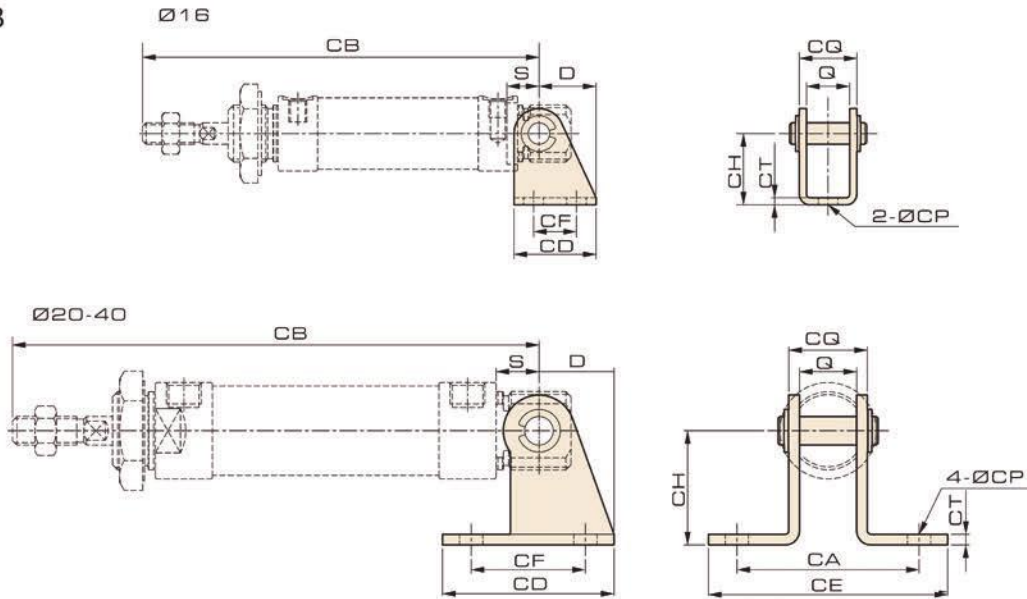
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### Overall Dimension

#### SDB

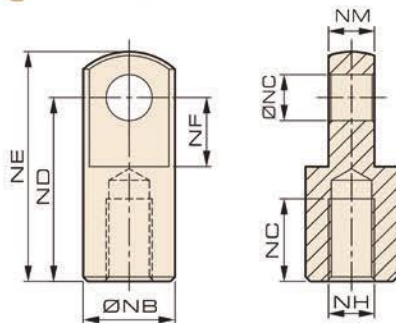


### Dimension

Symbol Bore/ Stroke	D	S	Q	CA	CB (MAL Series)	CB (MSAL/MTAL Series)			CD	CE	CF	CH	CT	CP	CQ
						0-50	50-100	100-150							
16	16	9	12	-	96	121	146	-	23	-	12	20	2	5.5	16
20	21	12	16	51	122	147	172	197	48	67	32	32	3	6.5	22
25	21	12	16	51	126	151	176	201	48	67	32	32	3	6.5	22
32	27	15	16	51	129	154	179	204	52	67	36	36	4	6.5	24
40	27	15	20	55	153	178	203	228	56	71	40	40	4	6.5	28

### Overall Dimension

#### I Knuckle



### Dimension

	NB	NC	ND	NE	NF	NG	NH	NM	Bore	16	20	25	32	40	
II-M04070	10	4	16	21	7	6	M4×0.7	4	Adapted fitting form	√					
II-M06100	12	5	21	28	8.5	8	M6×1	6			√				
II-M08125	16	8	30	40	11	15	M8×1.25	8				√	√		
II-M10125	20	10	40	50	15	18	M10×1.25	10							
II-M12125	24	12	48	62	24	18	M12×1.25	12							√