

- Cylinder
- Calculation
- SI
- SI A.
- SIB
- SQ
- DNT
- SC / SU
- SCT
- SC A.
- SL
- DN
- DSN
- DN/DSN A
- MA**
- MAC
- MA/MAC A.
- MAL
- MALC
- MAL/MALC A.
- SDA
- CQ2
- TCQ2
- ADN
- TADN
- PPRM
- MHL2
- Pneumatic Fingers
- MXH/MXQ
- CJP
- CJ2
- CDU
- TN
- CXS
- MGP
- MSQ

### 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, stainless steel series cylinder integrated as the semicircular groove cramping.
4. Using embedded gasket, increase the pressured area of pistons after collision.



MA16X100

### Ordering Code

MA	U	32	x	50	-	10	-	S	-	E	-	LB	-	MT
Series	Back Form	Bore	Stroke	Adjustable Stroke	Magnet	Piston Rod Material	Mountings	Sensor						
<b>MA: Double Acting</b> 	Blank: Standard with eye mounting 	12 16 20	10 20 30 50 75 100	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						
<b>MSA: Single Acting Spring-out</b> 	CM: Standard with round back cover 	25 32 40					FA: Front mounting flange FB: Back mounting flange 							
<b>MTA: Single Acting Spring-in</b> 	U: Standard with flat back cover 						SDB: Back hinge 							
<b>MAD: Double-shaft</b> 														
<b>MAJ: Double-shaft with adjustable stroke</b> 														

### Specification

Bore (mm)	12	16	20	25	32	40
Operation	Double Acting or Single 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	Gasket Cushion					
Port Size	M5×0.8			G1/8"		

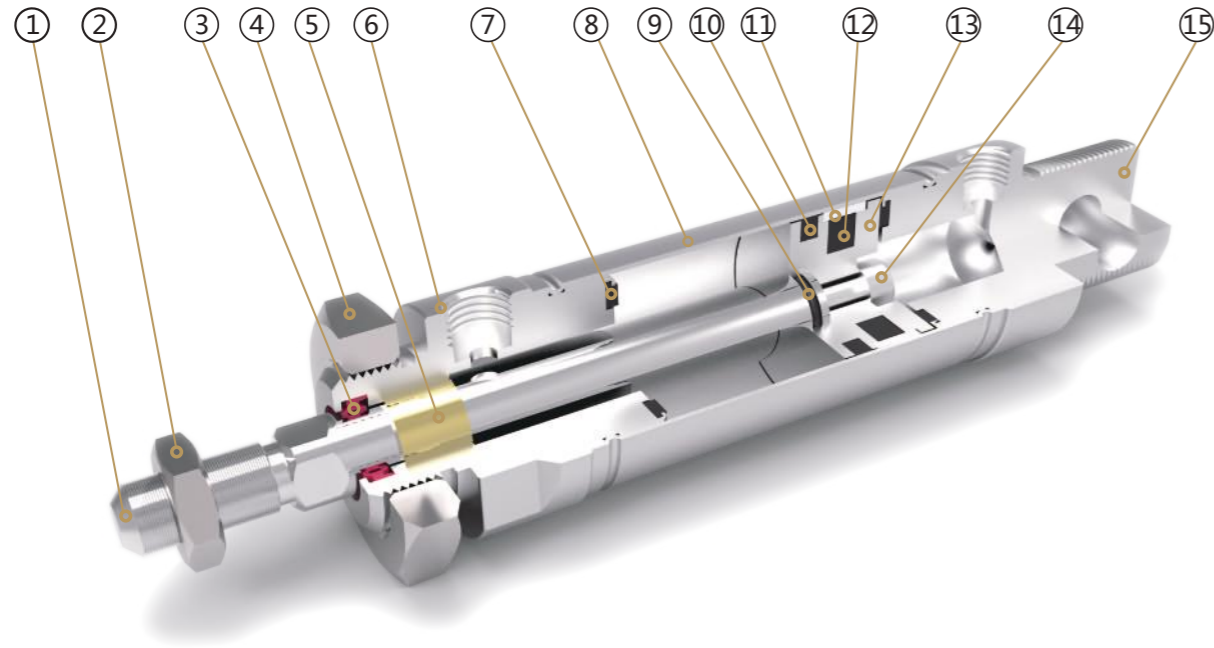
# MA Series

## Stainless Steel Mini Cylinder



- Cylinder
- Calculation
- SI
- SI A.
- SIB
- SQ
- DNT
- SC / SU
- SCT
- SC A.
- SL
- DN
- DSN
- DN/DSN A.
- MA**
- MAC
- MA/MAC A.
- MAL
- MALC
- MAL/MALC A.
- SDA
- CQ2
- TCQ2
- ADN
- TADN
- PPRM
- MHL2
- Pneumatic Fingers
- MXH/MXQ
- CJP
- CJ2
- CDU
- TN
- CXS
- MGP
- MSQ

### Internal Structure



### Parts

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

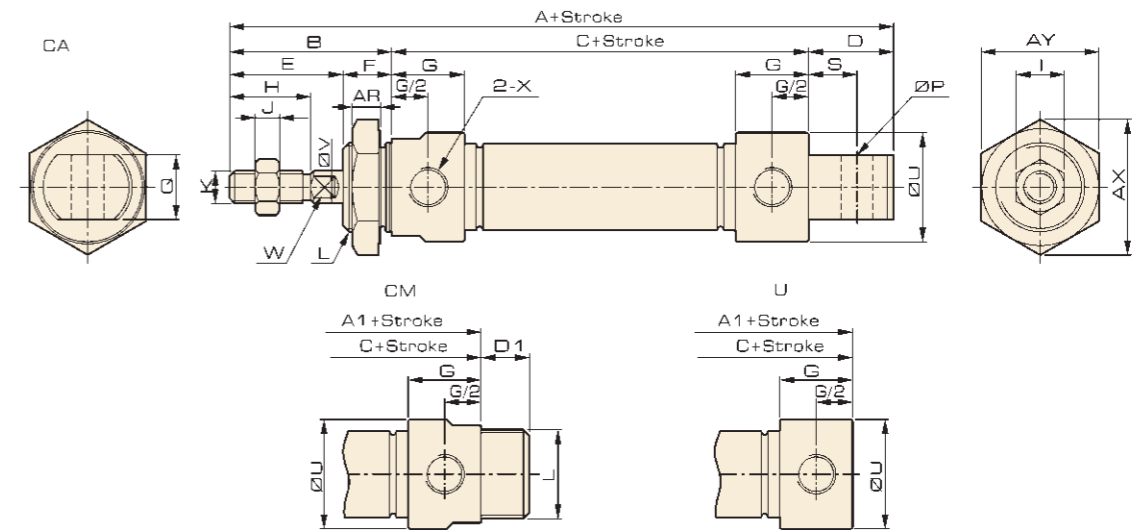
# MA Series

## Stainless Steel Mini Cylinder

ISO9001:2015 CE

### Overall Dimension

#### MA



Cylinder with or without magnet is the same size

### Dimension

Bore / Stroke	A	A1	B	C	D	D1	E	F	G	H	I	J	K
12	113	97	38	59	16	12	22	16	12	16	10	5	M6×1
16	114	98	38	60	16	12	22	16	12	16	10	5	M6×1
20	137	116	40	76	21	12	28	12	18	20	12	6	M8×1.25
25	141	120	44	76	21	14	30	14	16	22	17	6	M10×1.25
32	147	120	44	76	27	14	30	14	16	22	17	6	M10×1.25
40	150	123	46	77	27	14	32	14	16.7	24	19	7	M12×1.25

Bore / Stroke	L	P	Q	S	U	V	W	X	AR	AX	AY
12	M16×1.5	6	12	9.5	21	6	5	M5×0.8	6	27.8	24
16	M16×1.5	6	12	9	21	6	5	M5×0.8	6	27.8	24
20	M22×1.5	8	16	12	27	8	6	G1/8	7	33.5	29
25	M22×1.5	8	16	12	30	10	8	G1/8	7	33.5	29
32	M24×2	10	16	15	35	12	10	G1/8	9	37	32
40	M30×2	12	20	15	42	16	14	G1/8	9	46	40

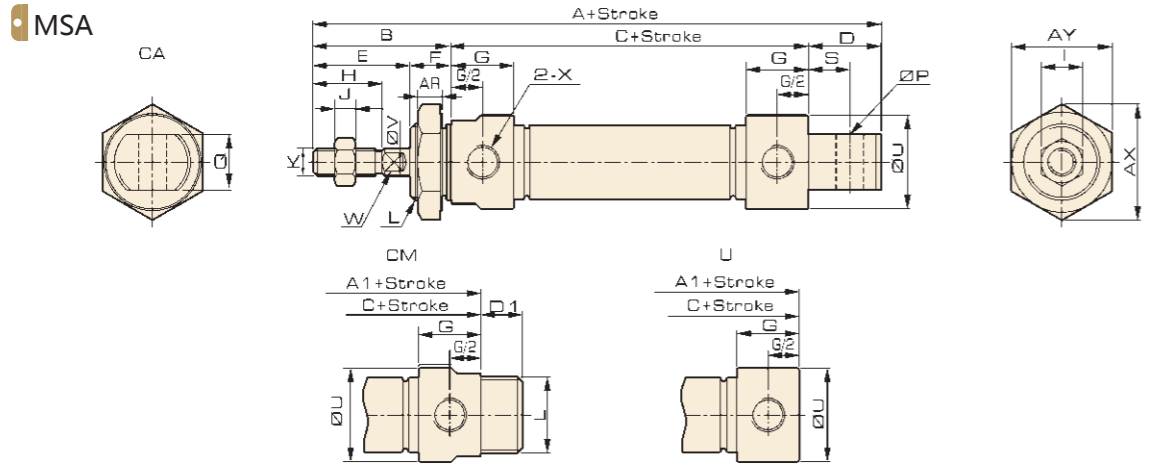
- Cylinder
- Calculation
- SI
- SI A.
- SIB
- SQ
- DNT
- SC / SU
- SCT
- SC A.
- SL
- DN
- DSN
- DN/DSN A.
- MA**
- MAC
- MA/MAC A.
- MAL
- MALC
- MAL/MALC A.
- SDA
- CQ2
- TCQ2
- ADN
- TADN
- PPRM
- MHL2
- Pneumatic Fingers
- MXH/MXQ
- CJP
- CJ2
- CDU
- TN
- CXS
- MGP
- MSQ

# MA Series

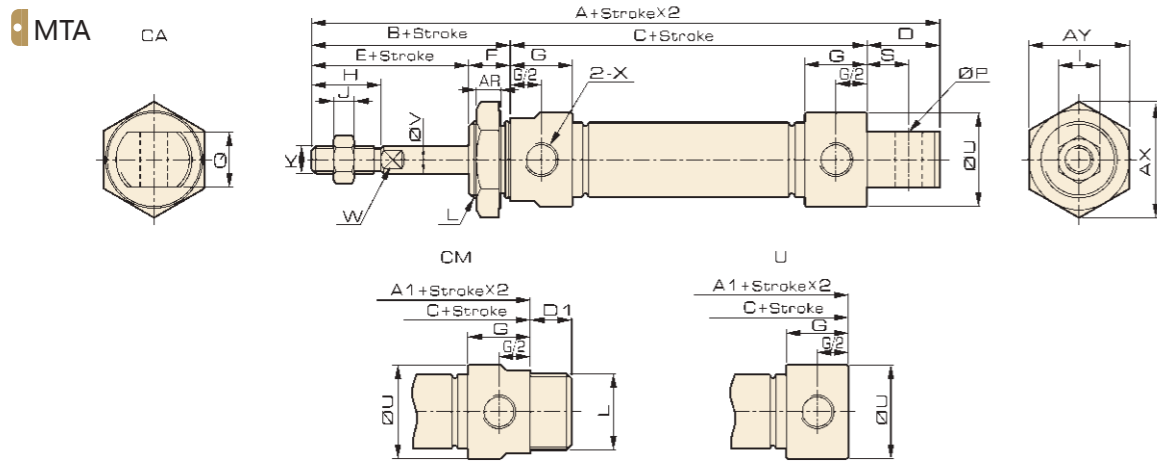
## Stainless Steel Mini Cylinder



### Overall Dimension



Cylinder with or without magnet is the same size



Cylinder with or without magnet is the same size

### Dimension

Symbol	A			A1			B	C			D	D1	E	F	G
	Bore/Stroke	0-50	50-100	100-150	0-50	50-100		100-150	0-50	50-100					
12	138	-	-	122	-	-	38	84	-	-	16	12	22	16	12
16	139	164	-	123	148	-	38	85	110	-	16	12	22	16	12
20	162	187	212	141	166	191	40	101	126	151	21	12	28	12	18
25	166	191	216	145	170	195	44	101	126	151	21	14	30	14	16
32	172	197	222	145	170	195	44	101	126	151	27	14	30	14	16
40	175	200	225	148	173	198	46	102	127	152	27	14	32	14	16.7

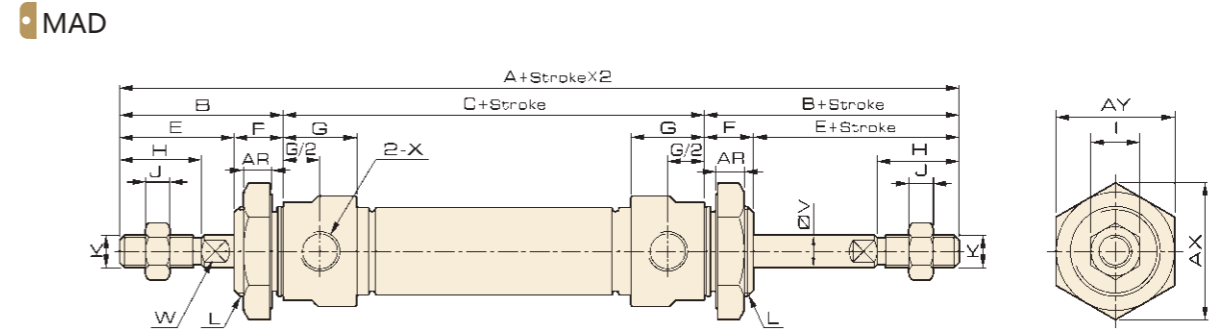
Bore/Symbol	H	I	J	K	L	P	Q	S	U	V	W	X	AR	AX	AY
12	16	10	5	M6×1	M16×1.5	6	12	9.5	21	6	5	M5×0.8	6	27.8	24
16	16	10	5	M6×1	M16×1.5	6	12	9	21	6	5	M5×0.8	6	27.8	24
20	20	12	6	M8×1.25	M22×1.5	8	16	12	27	8	6	G1/8	7	33.5	29
25	22	17	6	M10×1.25	M22×1.5	8	16	12	30	10	8	G1/8	7	33.5	29
32	22	17	6	M10×1.25	M24×2	10	16	15	35	12	10	G1/8	9	37	32
40	24	19	7	M12×1.25	M30×2	12	20	15	42	16	14	G1/8	9	46	40

ISO9001:2015 CE

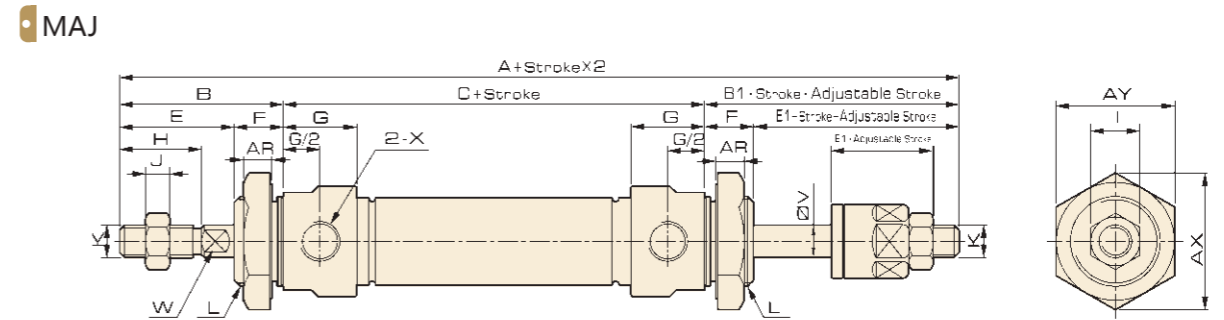
# MA Series

## Stainless Steel Mini Cylinder

### Overall Dimension



Cylinder with or without magnet is the same size



Cylinder with or without magnet is the same size

### Dimension

Bore Symbol	A	A1	B	B1	C	E	E1	F	G	H	I	J	K	L	U	V	W	X	AR	AX	AY	Y
12	135	135	38	38	59	22	21	16	12	16	10	5	M6×1	M16×1.5	21	6	5	M5×0.8	6	27.8	24	6
16	136	135	38	37	60	22	21	16	12	16	10	5	M6×1	M16×1.5	21	6	5	M5×0.8	6	27.8	24	6
20	156	153	40	37	76	28	25	12	18	20	12	6	M8×1.25	M22×1.5	27	8	6	G1/8	7	33.5	29	8.5
25	164	161	44	41	76	30	27	14	16	22	17	6	M10×1.25	M22×1.5	30	10	8	G1/8	7	33.5	29	9.5
32	164	161	44	41	76	30	27	14	16	22	17	6	M10×1.25	M24×2	35	12	10	G1/8	9	37	32	11.5
40	169	166	46	42	77	32	28	14	16.7	24	19	7	M12×1.25	M30×2	42	16	14	G1/8	9	46	40	14