

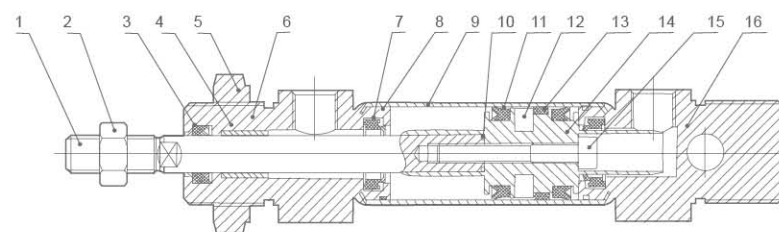
MA6432 Series Stainless Steel Mini Cylinder(ISO6432)



Ordering Code

MA6432		20	×	50	—	25	S	
Series Code		Cylinder Bore		Stroke		Adjustable Stroke Type		Fixed Type
MA:Double Action Type MSA:Single-Extrusion Type MTA:Single Drawing-in Type MAD:Double-shaft Double ActionType MACD:Double-shaft Double Action Damping Type(Above Φ16) MAJ:Double-shaft and adjustable stroke type MAC:With Cushion Type(Above Φ16)		8mm-25mm		0~100mm		Blank:Without Magnet S:With Magnet		Blank:Normal type LB:Front and back fixed type FA:Front cover fixed type SDB:Back cover swinging type U:Back cover fixed type
Back Cover Type								
Blank:Fishtail Type CM:Rounded Type U:Horizontal Type F: Copper Bush Type								

Internal structure



NO	Designation	NO	Designation
1	Piston Rod	9	Barrel
2	Piston Rod Nut	10	Piston rod O-ring
3	Front Cover Seal	11	Piston O-ring
4	Bearing	12	Magnet(Optional)
5	Hexagon Screw	13	Wear Ring
6	Front Cover	14	Piston
7	Cushion Ring	15	Hex Socket Screw
8	O-ring	16	Back Cover

Specification

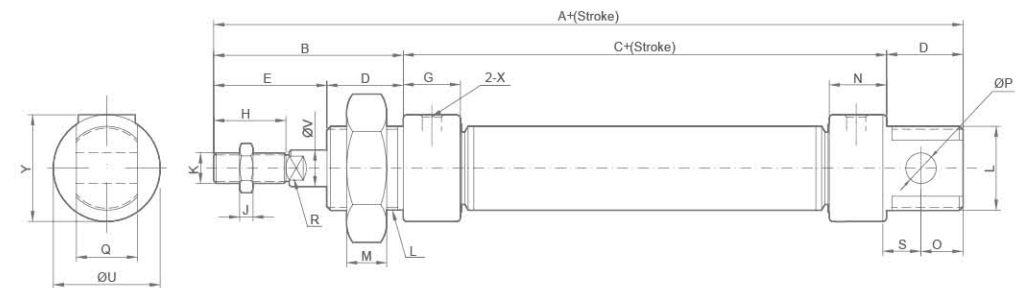
Bore(mm)	8	10	12	16	20	25
Fluid	Air					
Motion pattern	Double Action or single Action					
Ensured Pressure Resistance	15.3kgf/cm ² (1.5Mpa)					
Max.pressure	10.2kgf/cm ² (1.0Mpa)					
Min.pressure	0.5kgf/cm ² (0.05Mpa) 1kgf/cm ² (0.1Mpa)					
Environment and fluid temp	-10~+80°C (Internal Magnetic Install by Tach strap:Type Max:60°C)					
Piston velocity	Rubber Buffer(Standard),Air Buffer(Optional)					
Buffering	50~750mm/s					
Kinetic energy Tolerance(kgf/cm)	0.2	0.3	0.4	0.9	2.7	4
Port Size	M5×0.8			G1/8"		

Stroke

Bore(mm)	Standard Stroke	Max.Stroke(mm)
8	10,25,40,50,80,100,125,160,200	400
10	10,25,40,50,80,100,125,160,200	400
12	10,25,40,50,80,100,125,160,200	400
16	10,25,40,50,80,100,125,160,200	400
20	25,40,50,80,100,125,150,160,175,200,250,300	1000
25	25,40,50,80,100,125,150,160,175,200,250,300	1000

MA6432 Series Stainless Steel Mini Cylinder(ISO 6432)

Overall Dimensions



Dimension Sheet

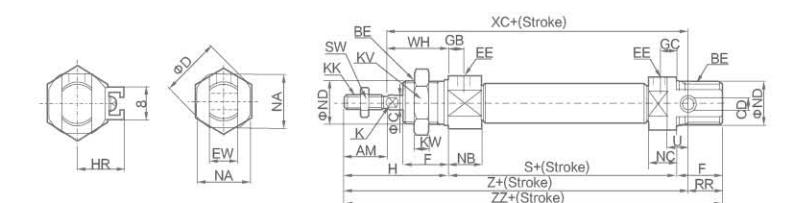
Bore/Symbol	A	B	C	D	E	G	H	M	J	O	K	N	P	S	R	U	V	Q	Y	L	X
8	86	28	46	12	16	9	12	7	3	10	M4×0.7	9	4	6	-	15	4	8	15	M12×1.5	M5
10	86	27	47	12	15	9	12	7	3	10	M4×0.7	9	4	6	-	15	4	8	15	M12×1.5	M5
12	105	37	51	17	20	9	16	6	4.5	14	M6×1	9	6	9	5	20	6	12	20	M16×1.5	M5
16	111	38	56	17	21	12.5	16	6	4.5	13	M6×1	10.5	6	9	5	20	6	12	20	M16×1.5	M5
20	128	45	63	20	25	15	20	8	6	11	M8×1.25	15	8	12	6	27	8	16	27	M22×1.5	G1/8"
25	137	50	65	22	28	15	22	8	6	11	M10×1.25	15	8	12	8	27	10	16	27	M22×1.5	G1/8"

MA6432-N Series Stainless Steel Mini Cylinder (ISO 6432)

Overall Dimensions



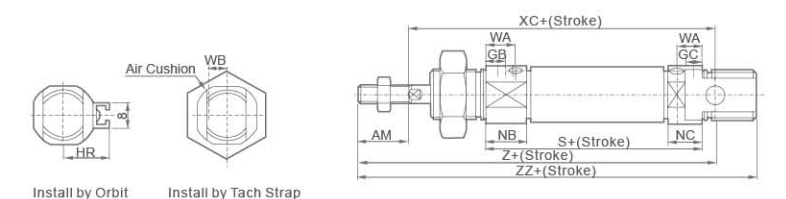
Non Magnet Inside Magnet Rubber Buffer



Dimension Sheet

Bore	AM	BE	ΦC	ΦCD	ΦD	EE	EW	F
8	12	M12×1.25	4	4	17	M5×0.8	8	12
10	12	M16×1.25	4	4	17	M5×0.8	8	12
12	16	M16×1.5	6	6	20	M5×0.8	12	17
16	16	M16×1.5	6	6	20	M5×0.8	12	17
20	20	M22×1.5	8	8	28	G1/8"	16	20
25	22	M22×1.5	10	8	33.5	G1/8"	16	22

Non Magnet Inside Magnet Rubber Buffer



Bore	GB	GC	WA	WB	H	HR	K	KK	KV	KW	NB	NC	NA	ΦND	RR	S	SW	U	WH	XC	Z	ZZ
8	7	5	-	-	28	10	-	M4×0.7	19	6	11.5	9.5	15	12	10	46	7	6	16	64	76	86
10	7(5.5)	7(5.5)	10.5	4.5	28	10.5	-	M4×0.7	19	6	11.5(13.5)	9.5(13.5)	15	12	10	46(53)	7	6	16	64(71)	76(83)	86(93)
12	8(5.5)	6(5.5)	9.5	5.5	38	14	5	M6×0.8	24	8	12.5(12.5)	10.5(12.5)	18	16	14	50(54)	10	9	22	75(79)	91(95)	105(109)
16	8(5.5)	6(5.5)	9.5	5.5	38	14	5	M6×0.8	24	8	12.5	10.5(12.5)	18	16	13	56	10	9	22	82	98	111
20	8	8	17	8.5	44	17	6	M8×1.25	32	11	15	15	24	22	11	62	13	12	24	95	95	126
25	8	8	20	10	50	20	8	M10×1.25	32	11	15	15	30	22	11	65	17	12	28	104	126	137

Our company can also provide SMC Type ISO6432 standard stainless steel mini cylinder, if you need this, pls add-N after normal ordering code.

MA6432 Series Stainless Steel Mini Cylinder(ISO 6432 Big Bore)



MAC6432 50 × 50-S



MAC6432 63 × 50-S

Ordering Code

MA6432



Back Cover Type

Blank:Fishtail type
CM:Rounded type
U:Horizontal type

50 × 50

Cylinder Bore

32mm-63mm

25

Stroke

Adjustable
Stroke Type

0~100mm

S

Magnet Code

Blank:Without
Magnet
S:With Magnet

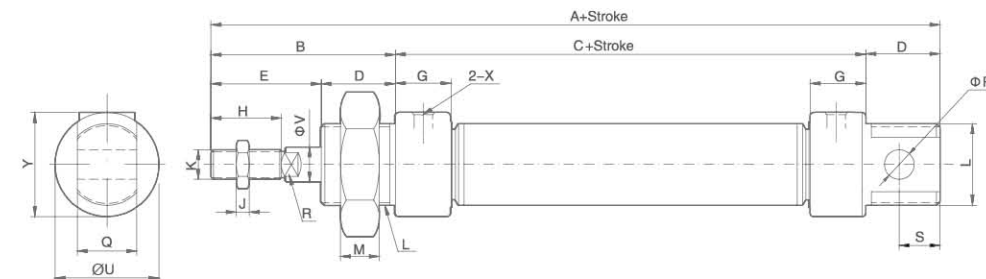
Fixed Type

Blank:Normal type
LB:Front and back fixed type
FA:Front cover fixed type
SDB:Back cover swinging type

Series Code

MA:Double Action Type
MSA:Single-Extrusion Type
MTA:Single Drawing-in Type
MAD:Double-shaft Double Action Type
MACD:Double-shaft Double Action Damping Type
MAJ:Double-shaft and Adjustable Stroke Type
MAC:With Cushion Type

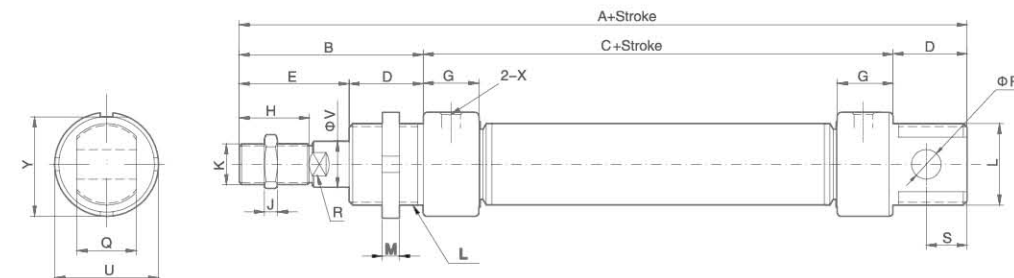
Overall Dimensions



Dimension Sheet

Bore/Symbol	A	B	C	D	E	G	H	M	J	K	P	S	R	U	V	Q	Y	L	X
32	160	57	76	27	30	16	22	8	6	M10×1.25	10	12	10	35	12	16	35	M24×2	G1/8
40	162	57	76	27	32	16.7	24	8	7	M12×1.25	12	12	14	41.6	16	16	41.6	M30×2	G1/8

Overall Dimensions



Dimension Sheet

Bore/Symbol	A	B	C	D	E	G	H	M	J	K	P	S	R	U	V	Q	Y	L	X
50	200	73	94	33	40	22	32	8	8	M16×1.5	16	15	17	57	20	21	55	M45×1.5	G1/4
63	203	73	97	33	40	22	32	8	8	M16×1.5	16	15	17	70	20	21	68	M45×1.5	G1/4

Our Company can also make FST type (ISO 6432) 32-63 bore cylinder . If you require this, it should be specified.

MA Series Stainless Steel Mini Cylinder



MA 25 × 50



MAJ 25 × 50-25

Ordering Code

MA



Back Cover Type

Blank:Fishtail type
CM:Rounded type
U:Horizontal type

20 × 50

Cylinder Bore

16mm~40mm

25

Stroke

Adjustable
Stroke Type

0~100mm

S

Magnet Code

Blank:Without
Magnet
S:With Magnet

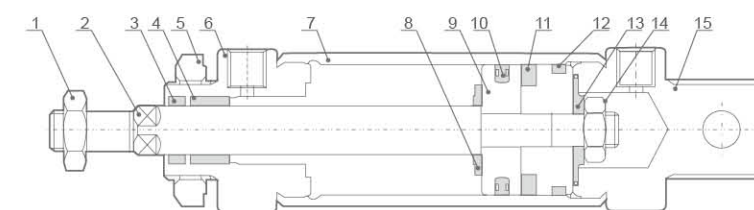
Fixed Type

Blank:Normal type
LB:Front and back fixed type
FA:Front cover fixed type
SDB:Back cover swinging type
U:Back cover fixed type

Series Code

MA:Double Action Type
MSA:Single Extrusion Type
MTA:Single Drawing-in Type
MAD:Double-shaft Double Action Type
MACD:Double-shaft Double Action Damping Type
MAJ:Double-shaft and Adjustable Stroke Type
MAC:With Cushion Type

Internal structure



NO	Designation	NO	Designation
1	Piston Rod Nut	9	Piston
2	Piston Rod	10	Piston O-Ring
3	Front Cover Seal Ring	11	Magnet(Optional)
4	Oiled Bearing	12	Wear ring
5	Front Cover Nut	13	Back cushion
6	Front Cover	14	Hex socket screw
7	Stainless steel tube	15	Back Cover
8	Anti-crash cushion		

Specification

Bore(mm)	16	20	25	32	40
Motion Pattern	Double Action or Single Action				
Working Medium	Air				
Fixed Type	Normal Type LB Type FA Type SDB Type U Type				
Operating Pressure Range	0.1~0.9MPa				
Ensured Pressure Resistance	1.35MPa				
Operating Temperature Range	-5~70℃				
Operating Speed Range	50~800mm/s				
Buffer Type	Standard Type	Anti-crash cushion			
	Damping Type	Adjustable cushion			
Port Size	M5×0.8	G1/8"	G1/8"	G1/8"	G1/8"

Our Company can also make flat for cylinder covers inlet and outlet position. If you require this, it should be specified.

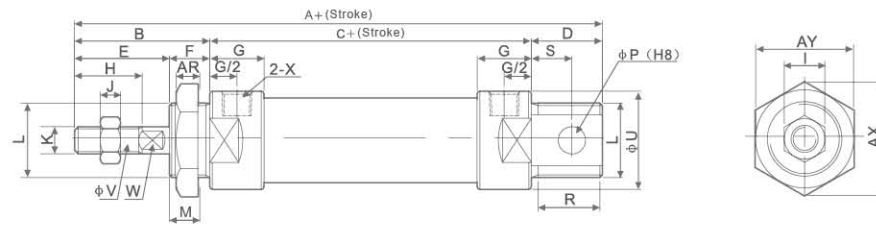
Stroke

Bore(mm)	Standard Stroke															Max.Stroke(mm)	Permissible Stroke
16	25	50	75	80	100	125	160	175	200							300	500
20	25	50	75	80	100	125	160	175	200	250	300					500	650
25	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	500	650
32	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	500	650
40	25	50	75	80	100	125	160	175	200	250	300	350	400	450	500	500	650

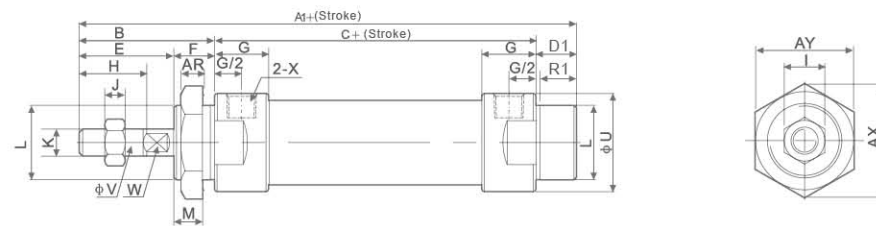
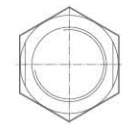
MA Series Stainless Steel Mini Cylinder

Overall Dimensions

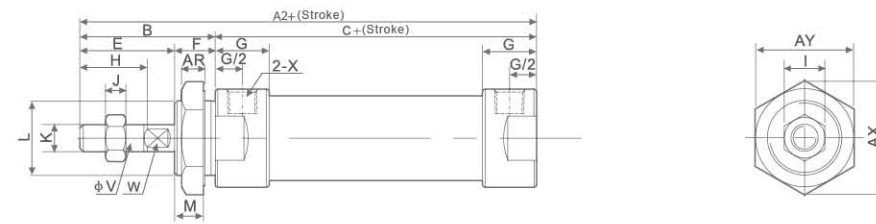
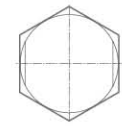
MA



MA-CM



MA-U



Dimension Sheet

Bore/Symbol	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	114	114	98	38	60	16	16	22	16	10	16	10	5	M6×1
20	137	128	116	40	76	21	12	28	12	16	20	12	6	M8×1.25
25	141	134	120	44	76	21	14	30	14	16	22	17	6	M10×1.25
32	147	134	120	44	76	27	14	30	14	16	22	17	6	M10×1.25
40	149	136	122	46	76	27	14	32	14	16.7	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	14	6	12	14	14	9	21	6	5	M5	6	24	27.5
20	M22×1.5	10	8	16	19	10	12	27	8	6	G1/8"	7	33	29
25	M22×1.5	12	8	16	19	12	12	30	10	8	G1/8"	7	33	29
32	M24×2.0	12	10	16	25	12	15	35	12	10	G1/8"	8	37	32
40	M30×2.0	12	12	20	25	12	15	41.6	16	14	G1/8"	9	47	41

MAL6432 Series Aluminum alloy Mini Cylinder(ISO 6432)



MAL6432 20 × 75

Specification

Motion Pattern	Double Action or Single Action
Operating Pressure Range	0.1~0.9MPa
Ensured Pressure Resistance	1.35MPa
Operating Temperature Range	-5~70℃
Operating Speed Range	30~800mm/s

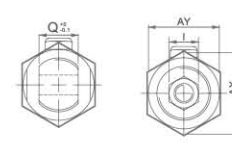
Product instruction

Our company can also provide MAL series ISO6432 standard aluminum alloy mini cylinder,if you need this,pls change ordering code MAL into MAL6432.

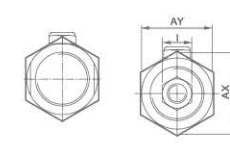
MA Series Stainless Steel Mini Cylinder

Overall Dimensions

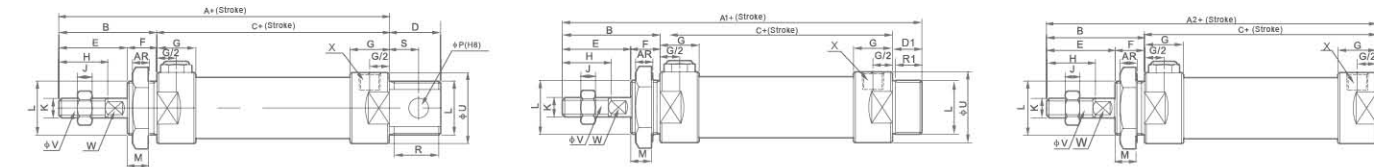
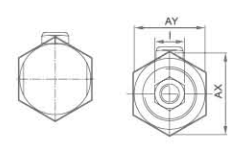
MSA



MSA-CM



MSA-U

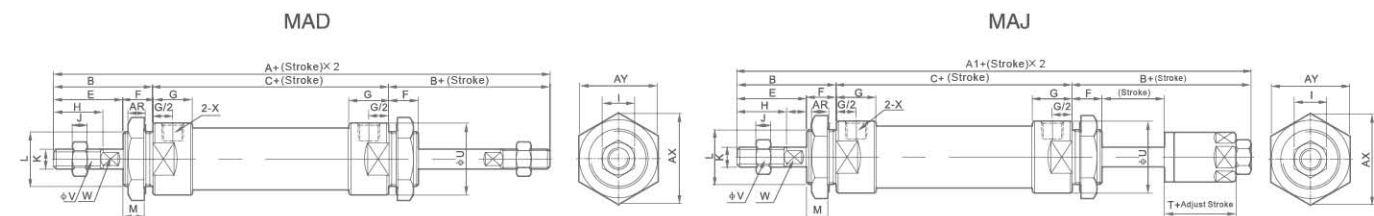


Dimension Sheet

Symbol	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
Bore/Stroke	0-50	51-100	0-50	51-100	0-50	51-100		0-50	51-100								
16	114	139	128	153	98	123	38	60	85	16	16	22	16	10	16	10	5
20	137	162	134	159	116	141	40	76	101	21	12	28	12	16	20	12	6
25	141	166	134	159	120	145	44	76	101	21	14	30	14	16	22	17	6
32	147	172	136	161	120	145	44	76	101	27	14	30	14	16	22	17	6
40	149	174	122	144	122	147	46	76	101	27	14	32	14	16.7	24	17	7

Bore/Symbol	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M6×1	M16×1.5	14	6	12	14	14	9	21	6	5	M5	6	24	22
20	M8×1.25	M22×1.5	10	8	16	19	10	12	27	8	6	G1/8"	7	33	29
25	M10×1.25	M22×1.5	12	8	16	19	12	12	30	10	8	G1/8"	7	33	29
32	M10×1.25	M24×2.0	12	10	16	25	12	15	35	12	10	G1/8"	8	37	32
40	M12×1.25	M30×2.0	12	12	20	25	12	15	41.6	16	14	G1/8"	9	47	41

Overall Dimensions



Dimension Sheet

Bore/Symbol	A	A1	B	C	E	F	G	H	I	J	K
16	136	135	38	60	22	16	10	16	10	5	M6×1
20	156	153	40	76	28	12	16	20	12	6	M8×1.25
25	164	161	44	76	30	14	16	22	17	6	M10×1.25
32	164	161	44	76	30	14	16	22	17	6	M10×1.25
40	168	164	46	76	32	14	16.7	24	17	7	M12×1.25

Bore/Symbol	L	M	U	V	W	X	AR	AX	AY	T
16	M16×1.5	14	21	6	5	M5	6	25	22	16
20	M22×1.5	10	29	9	6	G1/8"	7	33	29	19
25	M22×1.5	12	34	10	8	G1/8"	7	33	29	21
32	M24×1.5	12	39.5	12	10	G1/8"	8	37	32	21
40	M30×2.0	12	41.6	16	12	G1/8"	9	47	41	21