



CE ISO9001

MA Series Stainless Steel Mini Cylinder



MA 25×50



MAJ 25×50-25

Ordering Code

MA

Type

MA:Double Action Type
MSA:Single Extrusion Type
MAD:Double Shaft Double Action Type
MACD:Double Shaft Double Action Damping Type
MAJ:Double-shaft And Adjust Able Stroke Type
MAC:With Cushion Type



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

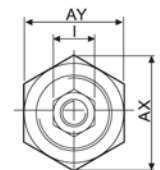
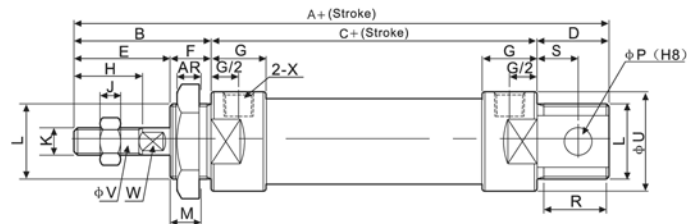


Fixed Type

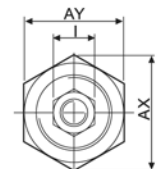
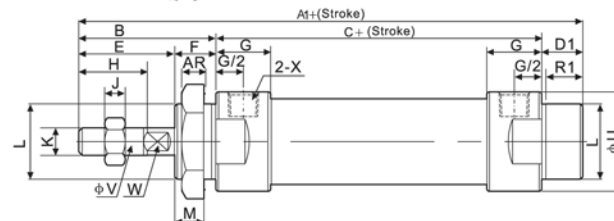
Blank:Normal type
LB:Front and back fixed type
FA:Front cover fixed type
SDB:Back cover swinging type
U:Back cover fixed type

Overall Dimensions

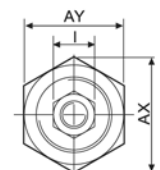
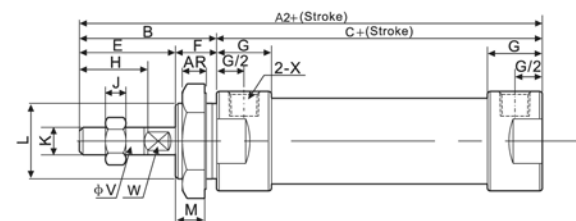
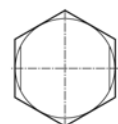
MA



MA-CM



MA-U



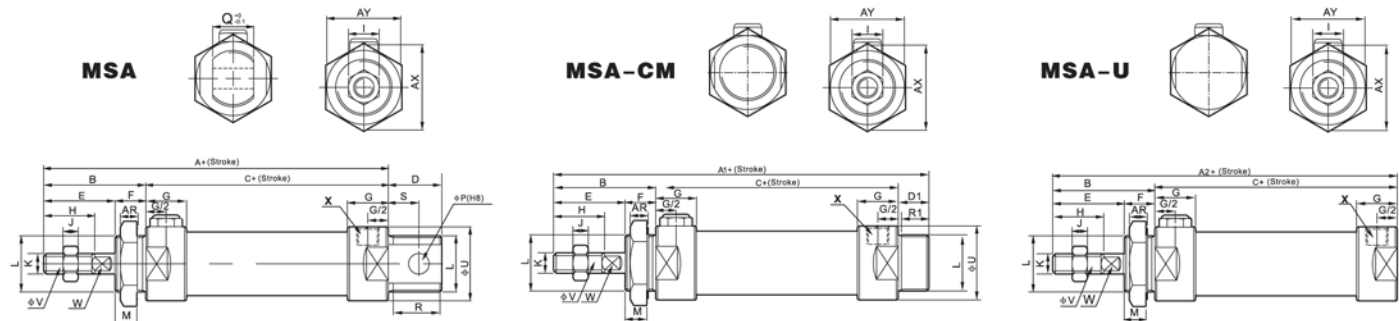
Dimension Sheet

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



MA Series Stainless Steel Mini Cylinder

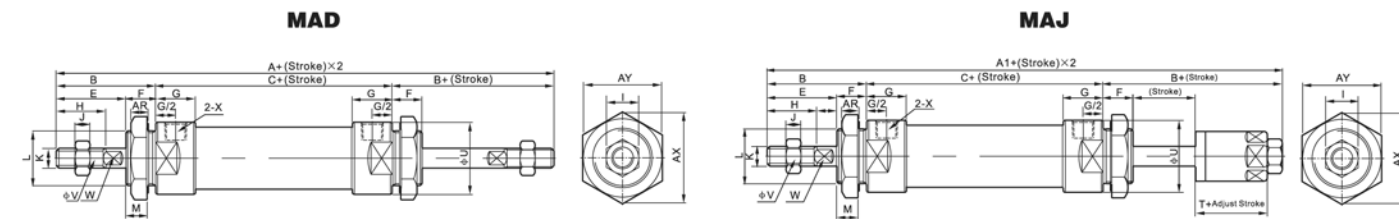
Overall Dimensions



Dimension Sheet

Symbol Bore/Stroke	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
	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	22	24	17	7
Inside Diameter/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	25	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

Inside Diameter/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	70	28	12	16	20	12	6	M8×1.25
25	164	161	44	70	30	14	16	22	17	6	M10×1.25
32	164	161	44	70	30	14	16	22	17	6	M10×1.25
40	168	164	46	92	32	14	22	14	17	7	M12×1.25
Inside Diameter/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	49.5	16	12	G1/8"	9	47	41	21	



CE ISO9001

MA Series Stainless Steel Mini Cylinder

Accessories

Ordering code

Accessory	Cylinder model	Bore size	Accessory type
			①
			LB LB Type
			FA FA Type
			SDB ② SDB Type
			TC TC Type

① Please see accessory list for detailed information of accessories.

② SDB is attached with relevant PIN.

Accessory selection

Accessories		Mounting accessory				Knuckle ①				Sensor switch 2
Cylinder model		LB	FA	SDB	TC	Y	I	F	U	CS1-M
	Standard	●	●	●	●	●	●	●	●	×
	With magnet	●	●	●	●	●	●	●	●	●
	Standard	●	●	●	●	●	●	●	●	×
	With magnet	●	●	●	●	●	●	●	●	●
	Standard	●	●	×	●	●	●	●	●	×
	With magnet	●	●	×	●	●	●	●	●	●
	Standard	●	●	×	●	●	●	●	●	×
	With magnet	●	●	×	●	●	●	●	●	●

①: Please refer to PVI-33-VI-38 for knuckle detail;

②: Please refer to PVI-39-VI-50 for detail of sensor switch.

Material of accessories

Accessories	Mounting accessories				Joint accessories			
Bore size	LB	FA	SDB	TC	I	Y	F	U
8-40	SPCC				SUS304			
					Carbon steel			

List for ordering code of accessories

Accessories	Mounting accessories				Sensor switch
Bore size	LB	FA	SDB	TC	
8	F-MI8LB	F-MI8FA	F-MI8SDB	F-MI8TC	
10					
12	F-MI12LB	F-MI12FA	F-MI12SDB	F-MI12TC	
16					
20	F-MI20LB	F-MI20FA	F-MI20SDB	F-MI20TC	
25					
32	F-MI32LB	-	F-MI32SDB	F-MI32TC	
40	F-MI40LB	-	F-MI40SDB	F-MI40TC	

Accessories	Knuckle				Sensor switch
Bore size	I:I Knuckle	Y:Y Knuckle	F:F Knuckle	U:U Knuckle	
8	F-M040070II	F-M04070YE	-	F-M04070U	
10			-	F-M06100U	
12	F-M06100II	F-M06100YIE	-		
16			-		
20	F-M08125II	F-M08125YE	F-M08125F	F-M08125U	
25					
32	F-M10125II	F-M10125YI	F-M10125F	F-M10125U	
40	F-M12125II	F-M12125YI	F-M12125F	F-M12125U	

FA

Technical drawing of the FA mounting accessory. The drawing shows two views: a side view and a front view. The side view shows a shaft with a pulley and a mounting bracket. Dimensions include shaft diameter (φ8-φ25), pulley diameter (BB), bracket width (B), and stroke (C+Stroke). The front view shows the mounting bracket with dimensions BF, BE, BC, and BP (2-φBP).

Bore size Item	8	10	12	16	20	25
B	28	28	38	38	44	50
C	46	46	50	56	62	65
BB	3	3	4	4	5	5
BC	22	22	30	30	40	40
BE	40	40	52	52	66	66
BF	30	30	40	40	50	50
BP	4.5	4.5	5.5	5.5	6.6	6.6
F	12	12	17	17	20	22

Dimensions

TC

φ 8 - φ 25

φ Bφ

φ 32, φ 40

φ Bφ

Bore size Item	8	10	12	16
A	6	6	8	8
B	4	4	6	6
C	26	26	38	38
D	38	38	58	58
E	20	20	25	25
F	12	12	17	17
G	28	28	38	38
H	58	58	67	73

Bore size Item	20	25	32	40
A	8	8	11	12
B	6	6	9	10
C	46	46	54	64
D	66	66	74	84
E	32	32	45	55
F	20	22	30	35
G	44	50	58	69
H	82	87	82	101

SDB

$\phi 8 - \phi 25$

$\phi 32, \phi 40$

$\phi 32, \phi 40$

Item\Bore size	8	10	12	16
D	11	11	13	13
Q	8.1	8.1	12.1	12.1
CA	18.4	18.4	28	28
CB	76	76	91	98
CD	20	20	25	25
CE	-	-	-	-
CF	12.5	12.5	15	15
CH	24	24	27	27
CP	4.5	4.5	5.5	5.5
CQ	13.1	13.1	18.1	18.1
CT	2.5	2.5	3	3
CR	-	-	-	-

Item\Bore size	20	25	32	40
D	16	16	20	27
Q	16.1	16.1	34.6	42.6
CA	38	38	55.6	69.6
CB	115	126	117	146
CD	32	32	41	52
CE	-	-	20	28
CF	20	20	24	30
CH	30	30	35	40
CP	6.6	6.6	7	9
CQ	24.1	24.1	46.6	58.6
CT	4	4	4	5
CR	-	-	67	81

LB

Technical drawing of a mounting bracket (LB) showing side and front views. Dimensions include B, F, AT, AL, AQ, AC+Stroke, AA+Stroke, and 4-φAP.

Technical drawing of a mounting bracket (LB) showing a top view. Dimensions include φ8~φ25, AK, AH, AF, and AE.

Technical drawing of a mounting bracket (LB) showing side and front views. Dimensions include B, F, AT, AL, AQ, AC+Stroke, AA+Stroke, and 12-φAP.

Technical drawing of a mounting bracket (LB) showing a top view. Dimensions include φ32, φ40, AD, AB, AH, AF, and AE.

Bore size Item	8	10	12	16
B	28	28	38	38
F	12	12	17	17
AA	78	78	90	96
AC	68	68	78	84
AD	-	-	-	-
AE	35	35	42	42
AF	25	25	32	32
AH	16	16	20	20
AK	10	10	13	13
AL	11	11	14	14
AP	4.5	4.5	5.5	5.5
AQ	5	5	6	6
AT	3	3	4	4

Bore size Item	20	25	32	40
B	44	50	58	69
F	20	22	30	35
AA	112	115	110	149
AB	-	-	49	58
AC	96	99	96	129
AD	-	-	28	30
AE	54	54	66	80
AF	40	40	52	60
AH	25	25	28	33
AK	20	20	-	-
AL	17	17	14	20
AP	6.6	6.6	7	9
AQ	8	8	7	10
AT	5	5	4	5