



MAL Series Aluminum alloy Mini Cylinder



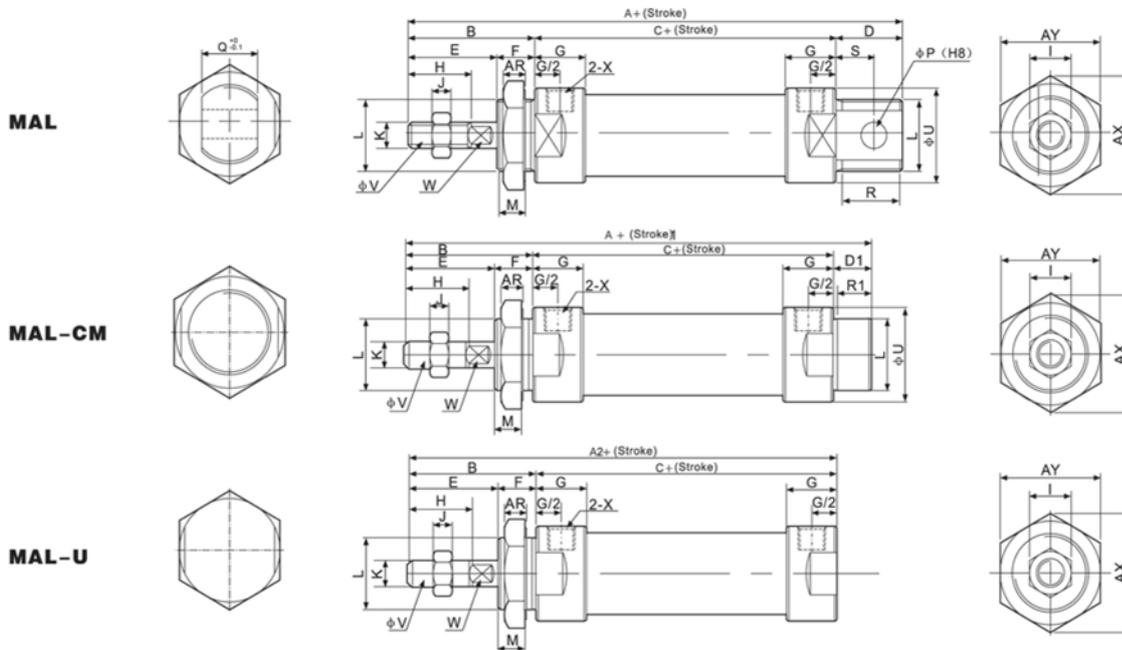
MAL 25×50

MALJ 25×50-25

Ordering Code

MAL	—	<input type="checkbox"/>	20 × 50	—	25	S	—	<input type="checkbox"/>
Type		Back Cover Type	Cylinder Bore	Stroke	Adjustable Stroke Type	Magnet Code		Fixed Type
MAL: Double Action type MALC: With cushion type MSAL: Single Extrusion Type MALD: Dual Double Action Type MALCD: Dual Shaft Action Damping Type MALJ: Double-shaft And Adjust Able Stroke Type MALC: With Cushion Type		Blank: Fishtail type CM: Rounded type U: Horizontal type	16mm~40mm		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

Overall Dimensions



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	131	122	110	40	70	21	12	28	16	16	20	12	6	M8×1.25
25	135	128	114	44	70	21	14	30	16	16	22	17	6	M10×1.25
32	141	128	114	44	70	27	14	30	16	16	22	17	6	M10×1.25
40	165	152	138	45	92	27	14	32	22	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	14	6	12	14	14	9	21	6	5	M5	6	25	22
20	M22×1.5	10	8	16	19	10	12	29	8	6	G1/8"	7	33	29
25	M22×1.5	1	8	16	19	12	12	34	10	8	G1/8"	7	33	29
32	M24×2.0	12	10	16	25	12	15	39.5	12	10	G1/8"	8	37	32
40	M30×2.0	12	12	20	25	12	15	49.5	16	14	G1/4"	9	37	41

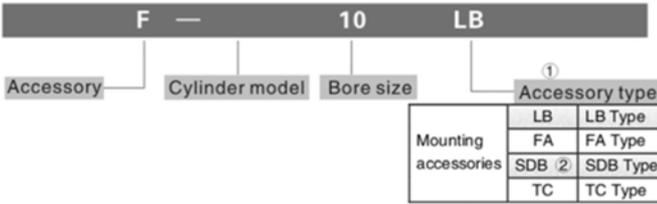


CE ISO9001

MAL Series Aluminum alloy Mini Cylinder

Accessories

Ordering code



Accessory selection

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

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

List for ordering code of accessories

Bore size	Accessories				Mounting accessories				Sensor switch
	LB	FA	SDB	TC					
8	F-MI8LB	F-MI8FA	F-MI8SDB	F-MI8TC	CS1-M				
10	F-MI10LB	F-MI10FA	F-MI10SDB	F-MI10TC					
12	F-MI12LB	F-MI12FA	F-MI12SDB	F-MI12TC					
16	F-MI16LB	F-MI16FA	F-MI16SDB	F-MI16TC					
20	F-MI20LB	F-MI20FA	F-MI20SDB	F-MI20TC					
25	F-MI25LB	F-MI25FA	F-MI25SDB	F-MI25TC					
32	F-MI32LB	F-MI32FA	F-MI32SDB	F-MI32TC					
40	F-MI40LB	F-MI40FA	F-MI40SDB	F-MI40TC					

Bore size	Accessories				Knuckle				Sensor switch
	I:I Knuckle	Y:Y Knuckle	F:F Knuckle	U:U Knuckle					
8	F-M040070II	F-M04070YE	-	F-M04070U	CS1-M				
10	F-M06100II	F-M06100YE	-	F-M06100U					
12	F-M08125II	F-M08125YE	F-M08125F	F-M08125U					
16	F-M10125II	F-M10125YE	F-M10125F	F-M10125U					
20	F-M12125II	F-M12125YE	F-M12125F	F-M12125U					
25	F-M16125II	F-M16125YE	F-M16125F	F-M16125U					
32	F-M20125II	F-M20125YE	F-M20125F	F-M20125U					
40	F-M25125II	F-M25125YE	F-M25125F	F-M25125U					

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

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

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

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