

MA STAINLESS STEEL MINI CYLINDER



MA25x100



MA32x100

Ordering Code

MA

Model
MA: Double Action
MSA: Single Action
MAD: Double-shaft Double Action
MAJ: Double-shaft and Adjustable Stroke Type

CA

Back Cover Type
CA: Fishtail Type
CM: Rounded Type
U: Horizontal Type

50

Bore

X 50

Stroke

- 25

MAJ
Adjustable Stroke Type

S

Magnet Code
S: With Magnet
Blank: Without Magnet

LB

Fixed Type
Blank: Basic Type
LB: Axial Foot
FA: Front Flange
SDB: Back Cover Swinging Type

Specification

Bore(mm)	16	20	25	32	40	50	63
Motion Pattern	Double Acting or Single Action						
Working Medium	Air						
Fixed Type	Basic type, FA type, LB type, SDB type						
Operating Pressure Range	1.0~9.0 Kg/cm ²						
Ensured Pressure Resistance	13.5 Kg/cm ²						
Operating Temperature Range	-5~70℃						
Operating Speed Range	50~800 mm/s						
Buffer Type	Buffer Spacer						
Port Size	M5x0.8	G1/8"					

MA STAINLESS STEEL MINI CYLINDER

Stroke

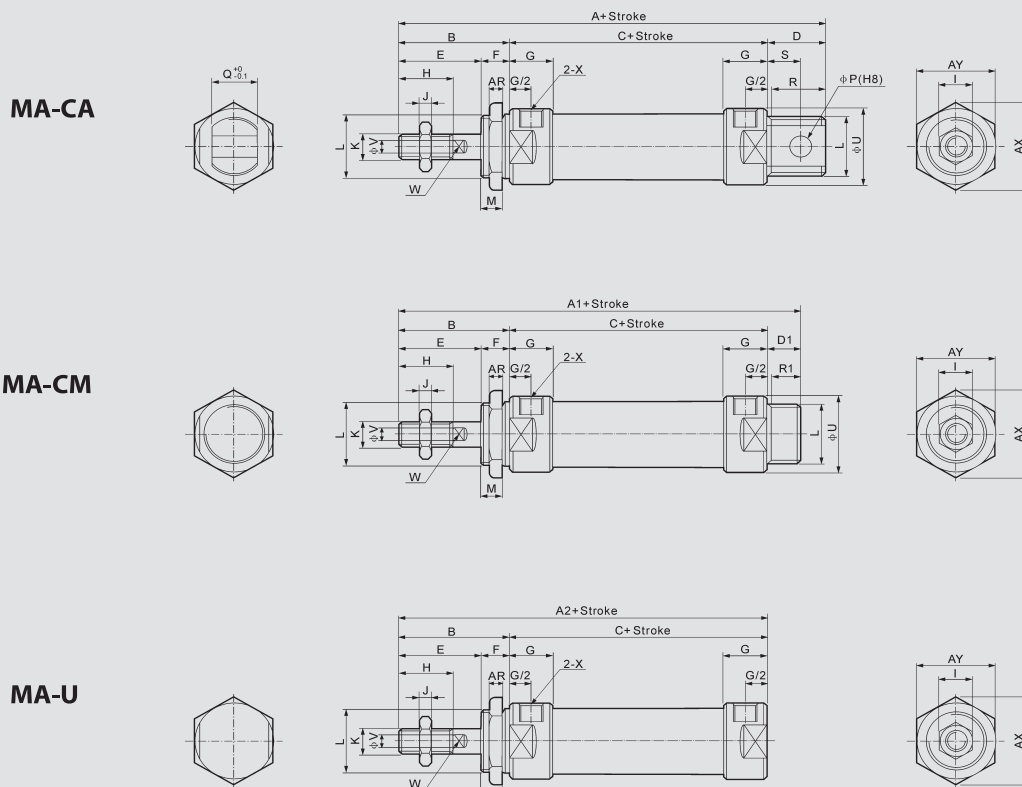
Bore	Standard Stroke	Max. Stroke	Allowable Stroke
16	25 50 75 80 100 125 150 160 175 200	300	500
20	25 50 75 80 100 125 150 160 175 200 250 300	500	650
25	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	500	650
32	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	500	650
40	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	500	650

Cylinder Theory Output Sheet

Cylinder Inside Diameter		16			20			25			32			40		
External Diameter of Piston Rod		6			8			10			12			16		
Motion Pattern		Single Action	Double Action		Single Action	Double Action		Single Action	Double Action		Single Action	Double Action		Single Action	Double Action	
			Extrusion Side	Pull Side		Extrusion Side	Pull Side		Extrusion Side	Pull Side		Extrusion Side	Pull Side			
Compression Area (cm ²)		2.01	2.01	1.81	3.14	3.14	2.64	4.90	4.90	4.12	8.04	8.04	6.90	12.56	12.56	10.55
Air Pressure (Kg/cm ²)	1	-	2.01	1.81	-	3.14	2.64	-	4.90	4.12	-	8.04	6.90	-	12.56	10.55
	2	-	4.02	3.62	1.57	6.28	5.28	2.45	9.80	8.24	4.02	16.08	13.80	6.28	25.12	21.10
	3	2.01	6.03	5.43	4.71	9.42	7.92	7.35	14.70	12.36	12.06	24.12	20.70	18.84	37.68	31.65
	4	4.02	8.04	7.24	7.85	12.56	10.56	12.25	19.60	16.84	20.10	32.16	27.60	31.40	50.24	42.20
	5	6.03	10.05	9.05	10.99	15.70	13.20	17.15	24.50	20.60	28.14	40.20	34.50	43.96	62.80	52.75
	6	8.04	12.06	10.86	14.13	18.84	25.84	22.05	29.40	24.72	36.18	48.24	41.40	56.52	75.36	63.30
	7	10.04	14.07	13.67	17.27	21.98	18.48	26.95	34.30	28.84	44.22	56.28	48.30	69.08	87.92	73.85
	8	-	-	-	20.41	25.12	21.12	31.85	39.20	32.96	52.26	64.32	55.20	81.64	100.48	84.40
	9	-	-	-	23.55	28.26	23.76	36.75	44.10	37.08	60.30	72.36	62.10	94.20	113.04	94.95

MA STAINLESS STEEL MINI CYLINDER

Overall Dimension



Dimension Sheet

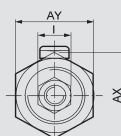
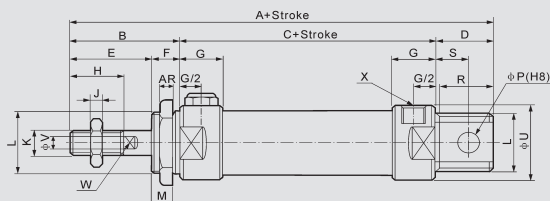
Bore/Symbol	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	114	114	98	38	60	15	15	22	16	10	16	10	5	M6×1
20	137	128	116	40	76	21	12	28	12	16	20	12	6	M8×1.25
25	141	134	120	44	76	21	14	30	14	16	22	17	6	M10×1.25
32	147	134	120	44	76	27	14	30	14	16	22	17	6	M10×1.25
40	149	136	122	46	76	27	14	32	14	16.7	24	17	7	M12×1.25

Bore/Symbol	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16x1.5	14	6	12	14	14	9	21	6	5	M5	6	24	27.5
20	M22x1.5	10	8	16	19	12	12	27	8	6	G1/8"	7	33	29
25	M22x1.5	12	8	16	19	14	12	30	10	8	G1/8"	7	33	29
32	M24x2.0	12	10	16	25	14	15	35	12	10	G1/8"	8	37	32
40	M30x2.0	12	12	20	25	14	15	41.6	16	14	G1/8"	9	47	41

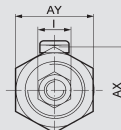
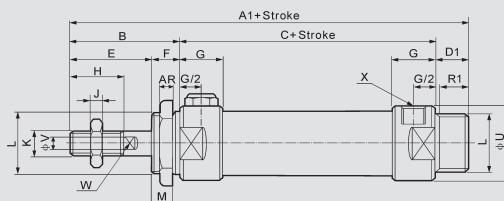
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Overall Dimension

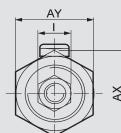
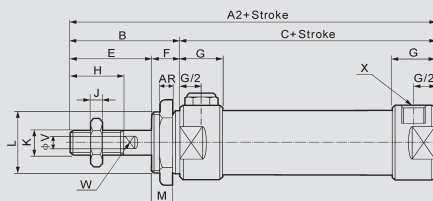
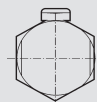
MSA-CA



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								
20	137	162	128	153	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	134	159	120	145	44	76	101	27	14	30	14	16	22	17	6
40	149	174	136	161	122	147	46	76	101	27	14	32	14	22	24	17	7

Bore/Symbol	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M8 × 1.25	M22x1.5	10	8	16	19	12	12	27	8	6	G1/8"	7	33	29
25	M10 × 1.25	M22x1.5	12	8	16	19	14	12	30	10	8	G1/8"	7	33	29
32	M10 × 1.25	M24x2.0	12	10	16	25	14	15	35	12	10	G1/8"	8	37	32
40	M12 × 1.25	M30x2.0	12	12	20	25	14	15	41.6	16	14	G1/8"	9	47	41