

MA Series Stainless Steel Mini Cylinder



Ordering code

MA	—	CA	50	X	50	—	25	—	S	—	LB
Type MA: Double acting MSA: Single acting MAD: Double-shaft double acting MAJ: Double-shaft and adjustable stroke		Back cover type CA: Fishtail type CM: Rounded type U: Horizontal type	Bore		Stroke		MAJ adjustable stroke type		Magnet Code S: With magnet Blank: Without magnet		Mounting Blank: Basic type LB: Front and back fixed type FA: Front flange type SDB: Back cover swinging type

Specifications

Bore (mm)	16	20	25	32	40
Operation	Double acting or single acting				
Fluid	Air				
Mounting	Basic FA LB SDB				
Operating pressure	1.0~9.0 Kg/cm ²				
Proof pressure	13.5 Kg/cm ²				
Operating temperature	0~70℃				
Operating piston speed	50~800 mm/s				
Cushioning	Rubber bumper				
Port size	M5×0.8		G1/8"		

Stainless Steel, Aluminum Alloy Mini Cylinder

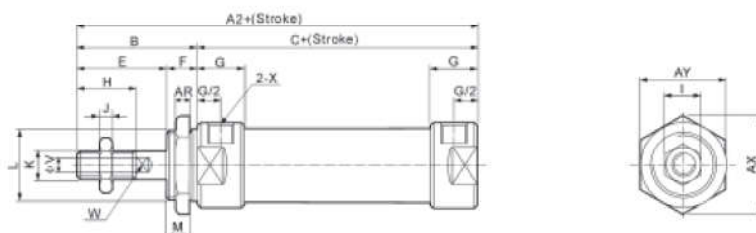
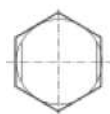
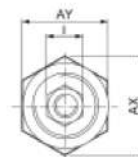
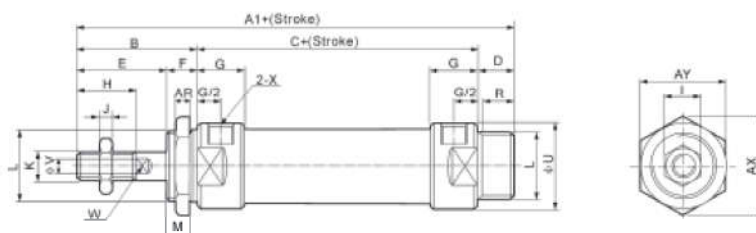
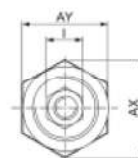
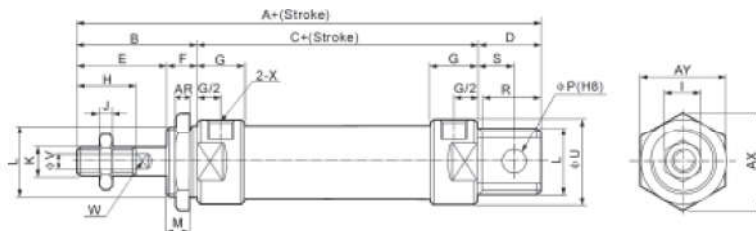
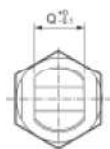
Stroke

Bore (mm)	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

Theoretical force

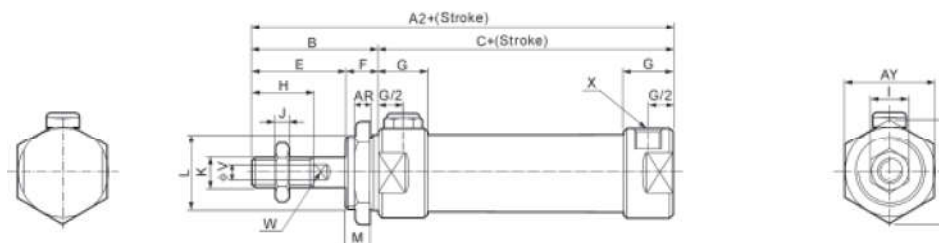
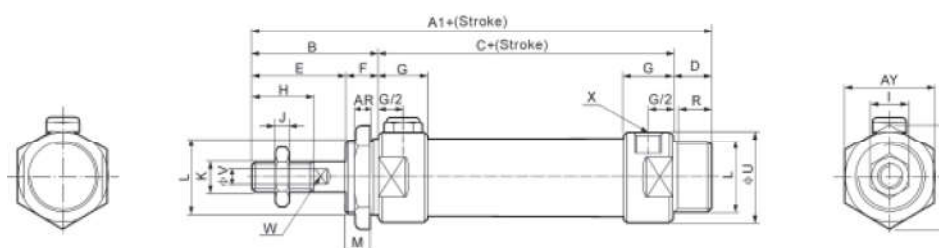
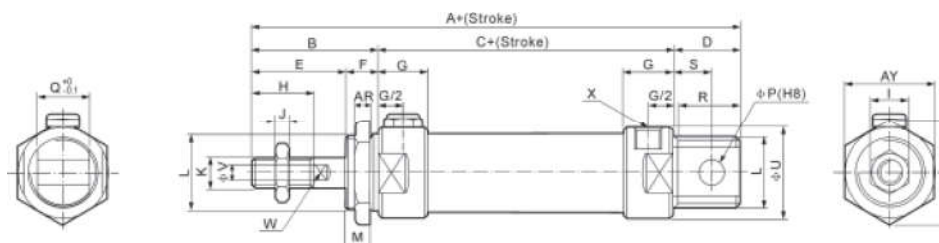
Bore size		16			20			25			32			40		
Rod diameter		6			8			10			12			16		
Operation		Single-acting	Double acting		Single-acting	Double acting		Single-action	Double acting		Single-acting	Double acting		Single-acting	Double acting	
			Extrusion side	Pull side		Extrusion side	Pull side		Extrusion side	Pull side		Extrusion Side	Pull side		Extrusion side	Pull side
Piston 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
Operating 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	16.48	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	12.67	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

● Dimensions



Bore size / 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 size / 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	12	12	27	8	6	G1/8	7	33	29
25	M22×1.5		12	8	16	19	14	12	30	10	8	G1/8	7	33	29
32	M24×2.0		12	10	16	25	14	15	35	12	10	G1/8	8	37	32
40	M30×2.0		12	12	20	25	14	15	41.6	16	14	G1/8	9	47	41

● Dimensions

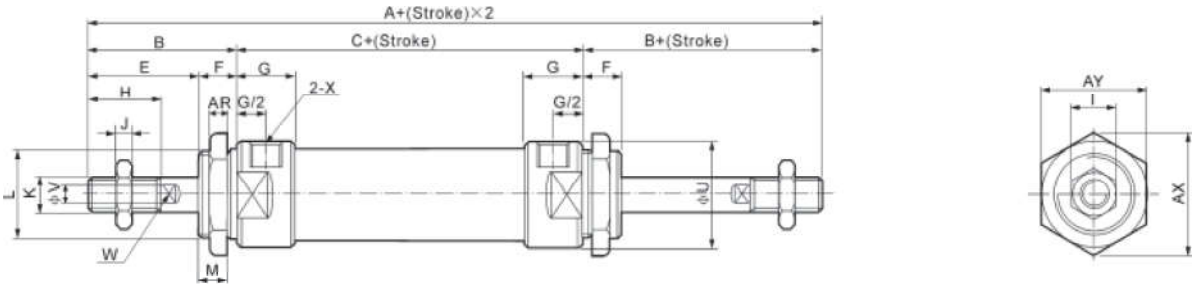


Symbol	A		A1		A2		B	C		D	D1	E	F	G	H	I	J
Bore / Stroke	0~50	51~100	0~50	51~100	0~50	51~100		0~50	51~100								
20	137	162	128	153	116	141	40	76	101	21	12	28	12	16	20	12	6
25	141	166	134	159	120	145	44	76	101	21	14	30	14	16	22	17	6
32	147	172	134	159	120	145	44	76	101	27	14	30	14	16	22	17	6
40	149	174	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		M22×1.5		10	8	16	19	12	12	27	8	6	G1/8	7	33	29
25	M10×1.25		M22×1.5		12	8	16	19	14	12	30	10	8	G1/8	7	33	29
32	M10×1.25		M24×2.0		12	10	16	25	14	15	35	12	10	G1/8	8	37	32
40	M12×1.25		M30×2.0		12	12	20	25	14	15	41.6	16	14	G1/8	9	47	41

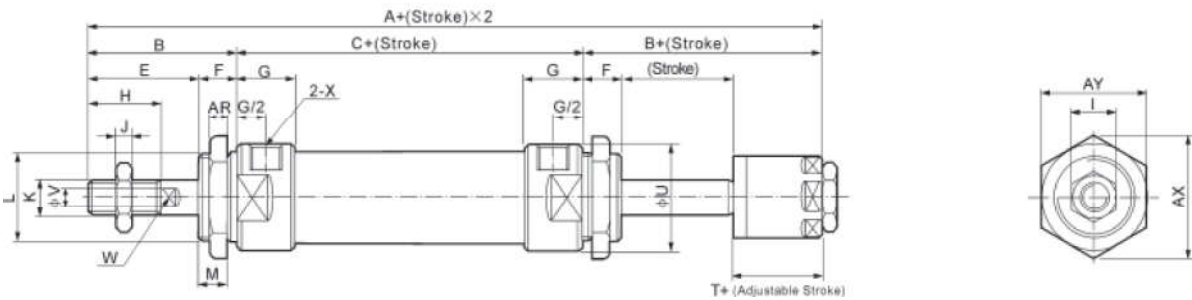
MA Series Stainless Steel Mini Cylinder

● Dimensions

MAD



MAJ



Bore/Symbol	A	A1	B	C	E	F	G	H	I	I	K
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	24	17	7	M12×1.25
Bore/Symbol	L		M	U	V	W	X	AR	AX	AY	T
20	M22×1.5		10	29	8	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	14	G1/4	9	47	41	21