MA Series Stainless Steel Cylinder

MA Stainless Steel Cylinder

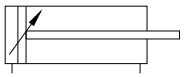
Ordering Code

MA - U - 20 X 50 - S - 25

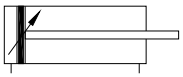
MA	-	Double Acting Cylinder
MAD	-	Double Acting Thru Rod Cylinder
MAJ	-	Double Acting with Adjustable Stroke Cylinder
MAS	-	Single Acting Cylinder Normally Retracted
MASE	-	Single Acting Cylinder Normally Extended
U	-	Flat End Mounting
CM	-	Round End Mounting
Blank	-	Standard Mounting
20	-	Bore Diameter (mm)
50	-	Stroke (mm)
S	-	Magnetic Piston
Blank	-	Non-Magnetic Piston
25	-	Stroke Adjustment for MAJ (mm)

MA Pneumatic Cylinder head, piston and barrel made of aluminum alloy; piston rod made of chromed plated high carbon steel; seals are made of NBR for standard working temperature; for higher working temperature seals are made of viton or teflon.

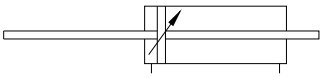
With Cushioning



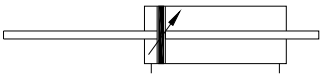
W/ Cushioning & Magnet



Thru Rod w/ Cushioning



Thru Rod w/ Cushioning & Magnet

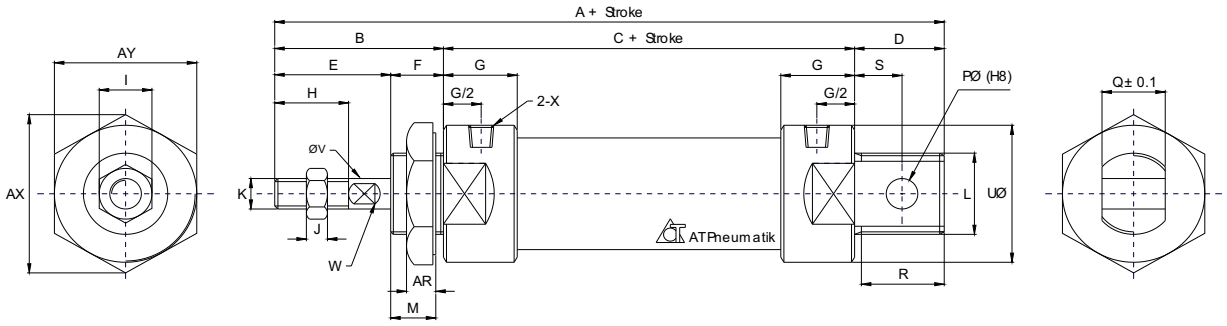


MA Pneumatic Cylinder Specification					
Bore Diameter (mm)	**16**	**20**	**25**	**32**	**40**
Type	Double Acting / Single Acting				
Working Medium	Air				
Working Pressure	10 kg/cm^2				
Test Pressure	13 Kg/cm²				
Working Temperature	0 - 70 ^{0}C				
Working Speed Range	50~800 mm/sec				
Cushioning	Rubber Bumper				
Port Size	M05	G 1/8"			G 1/4"

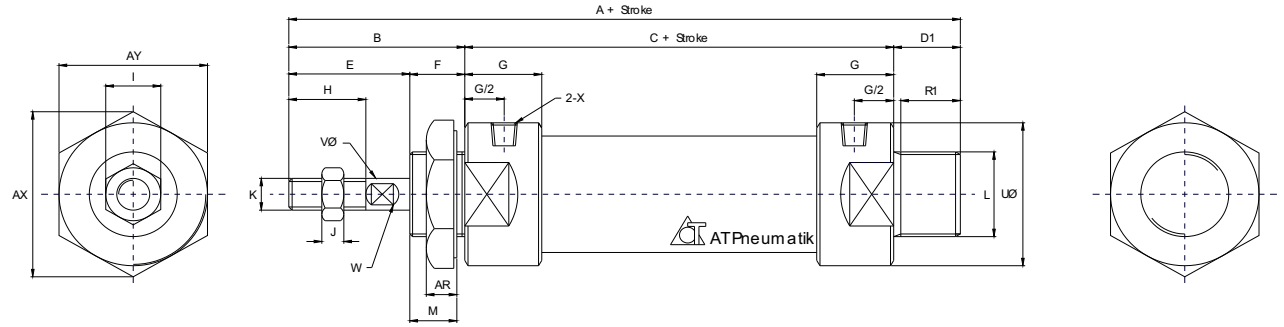
Theoretical Force Table Nm																	
Bore Diameter (mm)		16			20			25			32			40			
Piston Rod Diameter		6			8			10			12			16			
Motion Pattern		Single Acting	Double Acting Push Side	Double Acting Pull Side	Single Acting	Double Acting Push Side	Double Acting Pull Side	Single Acting	Double Acting Push Side	Double Acting Pull Side	Single Acting	Double Acting Push Side	Double Acting Pull Side	Single Acting	Double Acting Push Side	Double Acting Pull Side
Air Pressure (Kgf/cm²)	**1**	-	2	1.8	-	3.1	2.6	-	4.9	4.1	-	8	6.9	-	12.6	10.6
	2	-	4	3.6	1.6	6.3	5.3	2.5	9.8	8.2	4	16.1	13.8	6.3	25.1	21.1
	3	2	6	5.4	4.7	9.4	7.9	7.4	14.7	12.4	12.1	24.1	20.7	18.8	37.7	31.7
	4	4	8	7.2	7.9	12.6	10.6	12.3	19.6	16.5	20.1	32.2	27.6	31.4	50.2	42.2
	5	6	10.1	9.1	11	15.7	13.2	17.2	24.5	20.6	28.1	40.2	34.5	44	62.8	52.8
	6	8	12.1	10.9	14.1	18.8	15.8	22.1	29.4	24.7	36.2	48.2	41.4	56.5	75.4	63.3
	7	10	14.1	12.7	17.3	22	18.5	27	34.3	28.8	44.2	56.3	48.3	69.1	87.9	73.9
	8	-	-	-	20.4	25.1	21.1	31.9	39.2	33	52.3	64.3	55.2	81.6	100.5	84.4
	9	-	-	-	23.6	28.3	23.8	36.8	44.1	37.1	60.3	72.4	62.1	94.2	113	95

MA Series Stainless Steel Double Acting Cylinder

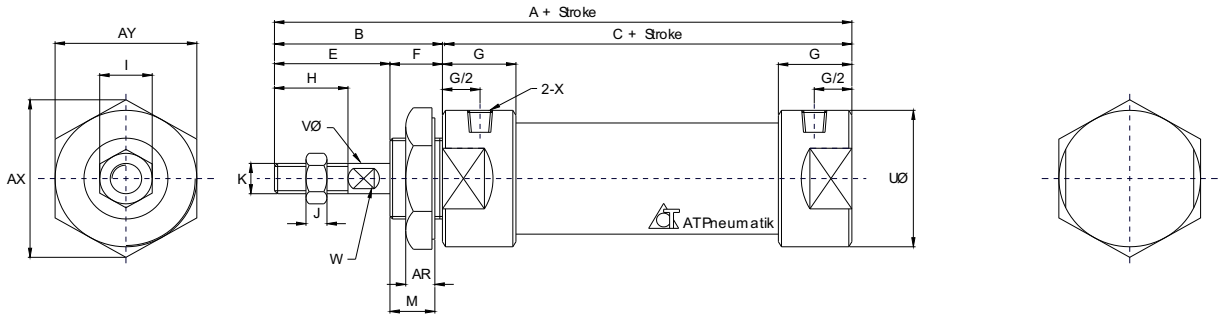
MA - CA *Double Acting Cylinder*



MA - CM *Double Acting Cylinder*



MA - U *Double Acting Cylinder*



MA Pneumatic Cylinder Dimension															
Bore Diameter	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K	L
16	114	114	98	38	60	15	15	22	16	10	16	10	5	M06 X 1.0	M16 X 1.5
20	137	128	116	40	76	21	12	28	12	16	20	12	6	M08 X 1.25	M22 X 1.5
25	141	134	120	44	76	21	14	30	14	16	22	17	6	M10 X 1.25	M22 X 1.5
32	147	134	120	44	76	27	14	30	14	16	22	17	6	M10 X 1.25	M24 X 2.0
40	149	136	122	46	76	27	14	32	14	16.7	24	17	7	M12 X 1.25	M30 X 2.0

MA Pneumatic Cylinder Dimension													
Bore Diameter	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	8	6	12	13	13	6	20	6	/	M05	7	24	27.5
20	10	8	16	19	12	12	29	8	6	G 1/8"	7	33	29
25	12	8	16	19	14	12	34	10	8	G 1/8"	7	33	29
32	12	10	16	25	14	15	39.5	12	10	G 1/8"	8	37	32
40	12	23	20	25	14	15	39.5	16	14	G 1/4"	9	47	41

Dimensions are in mm

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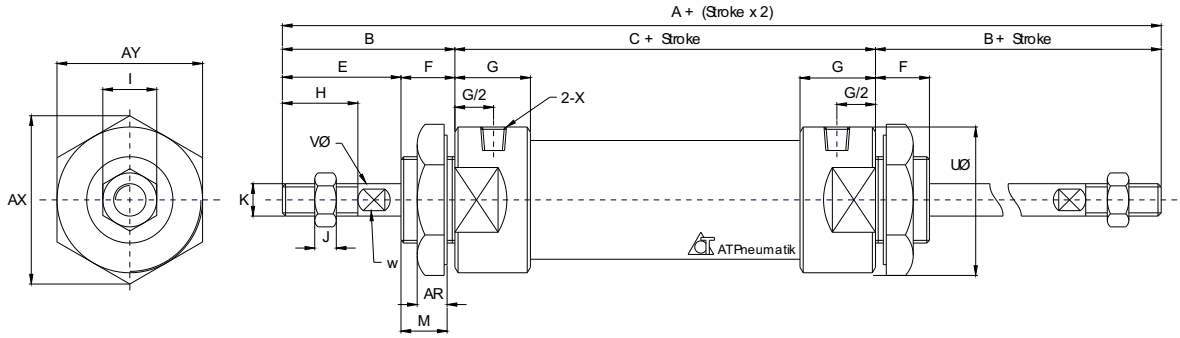
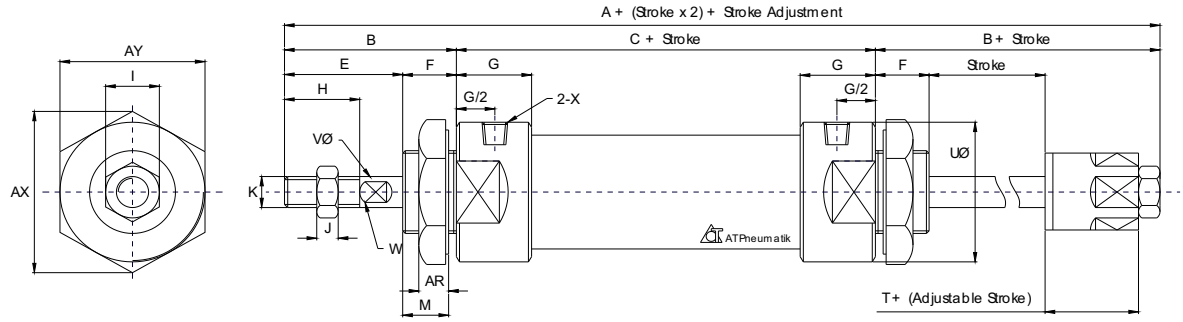
MA Series Stainless Steel Double Acting Cylinder

MAD *Thru Rod Cylinder*



MAJ *Adjustable Stroke Cylinder*

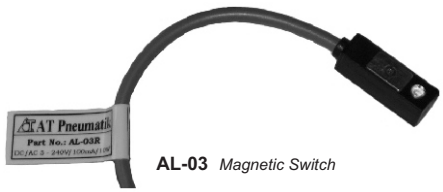


MA Pneumatic Cylinder Dimension												
Bore Diameter	A	A1	B	C	E	F	G	H	I	J	K	L
20	156	153	40	70	28	12	16	20	12	6	M08 X 1.25	M22 X 1.5
25	164	161	44	70	30	14	16	22	17	6	M10 X 1.25	M22 X 1.5
32	164	161	44	70	30	14	16	22	17	6	M10 X 1.25	M24 X 1.5
40	168	164	46	92	32	14	22	24	17	7	M12 X 1.25	M30 X 2.0

MA Pneumatic Cylinder Dimension									
Bore Diameter	M	U	V	W	X	AR	AX	AY	T
20	10	29	8	6	G 1/8"	7	33	29	19
25	12	34	10	8	G 1/8"	7	33	29	21
32	12	39.5	12	10	G 1/8"	8	37	32	21
40	12	49.5	16	14	G 1/4"	9	47	41	21

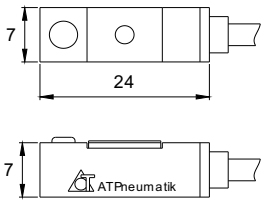
MA/MAL *Magnetic Switch and Holder*

BK ***Magnetic Switch Holder***
20 to 40mm bore diameter cylinder



AL-03 *Magnetic Switch*

Dimension

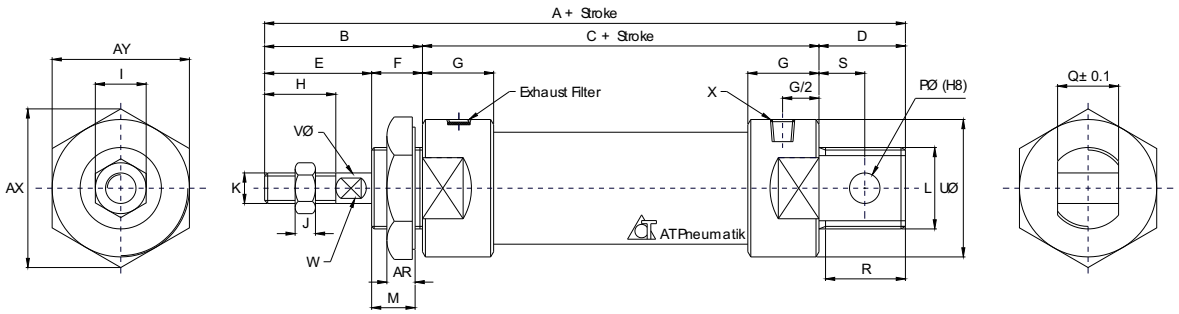


Reed Switch Specification						
Model	**Output**		**Current**	**Response**	**Indicator**	**Wire**
AL-03-R	Contact	5-240Vac	5-60mA	1msec max.	LED	2M
		5-110Vdc				
AL-03-NPN	NPN	5-30Vdc				
AL-03-PNP	PNP					

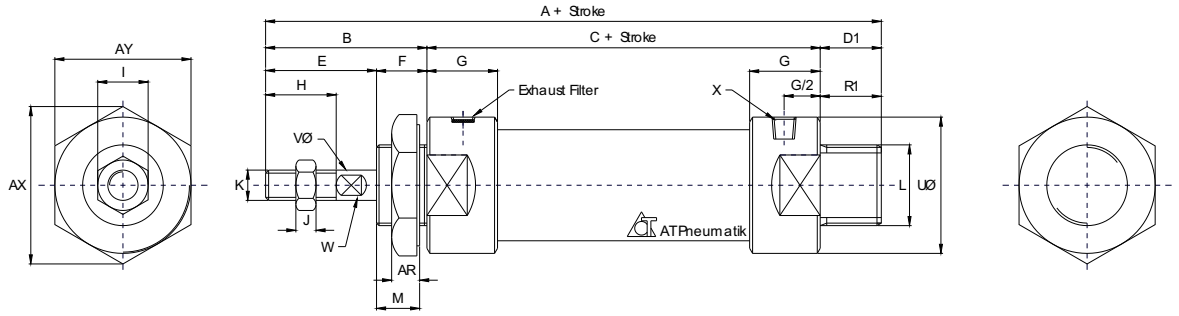
Dimensions are in mm

MAS Series Stainless Steel Single Acting Cylinder

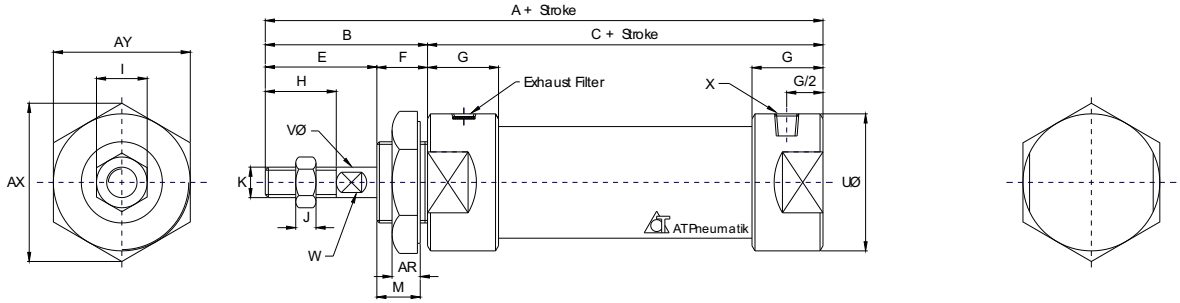
MAS - CA *Single Acting Cylinder Normally Retracted*



MAS - CM *Single Acting Cylinder Normally Retracted*



MAS - U *Single Acting Cylinder Normally Retracted*



MAS Pneumatic Cylinder Dimension																	
Bore Diameter	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								
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	1611	122	147	46	76	101	27	14	32	14	22	24	17	7

MAS Pneumatic Cylinder Dimension															
Bore Diameter	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M08 X 1.25	M22 X 1.5	10	8	16	19	12	12	27	8	6	G 1/8"	7	33	29
25	M10 X 1.25	M22 X 1.5	12	8	16	19	14	12	30	10	8	G 1/8"	7	33	29
32	M10 X 1.25	M24 X 2.0	12	10	16	25	14	15	35	12	10	G 1/8"	8	37	32
40	M12 X 1.25	M30 X 2.0	12	12	20	25	14	15	41.6	16	14	G 1/8"	9	47	41

Dimensions are in mm

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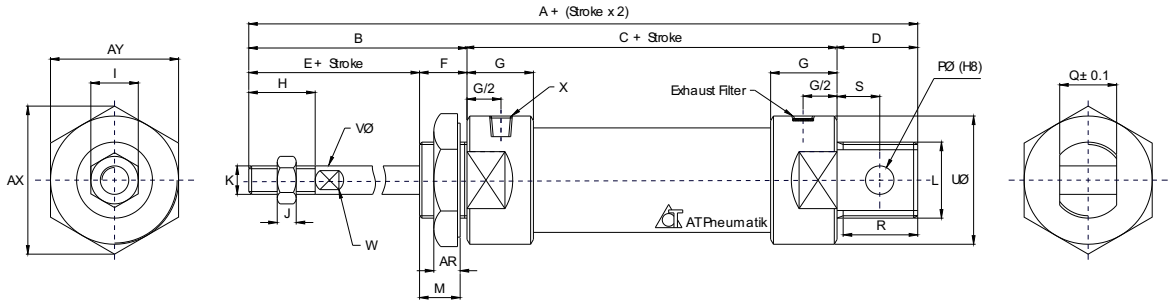
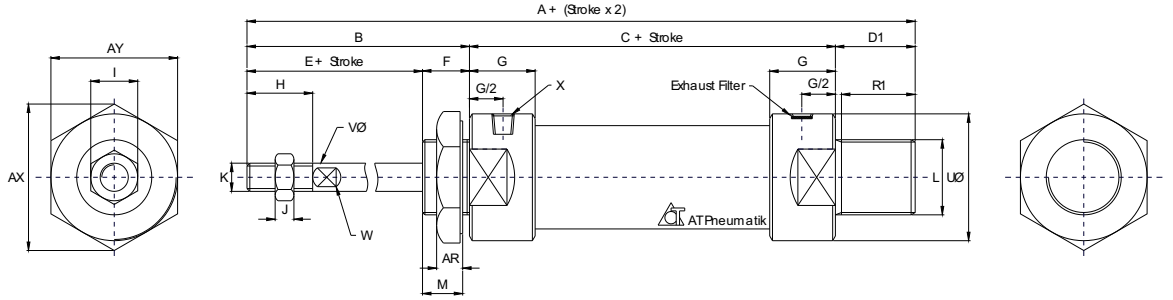
MAS Series Stainless Steel Single Acting Cylinder

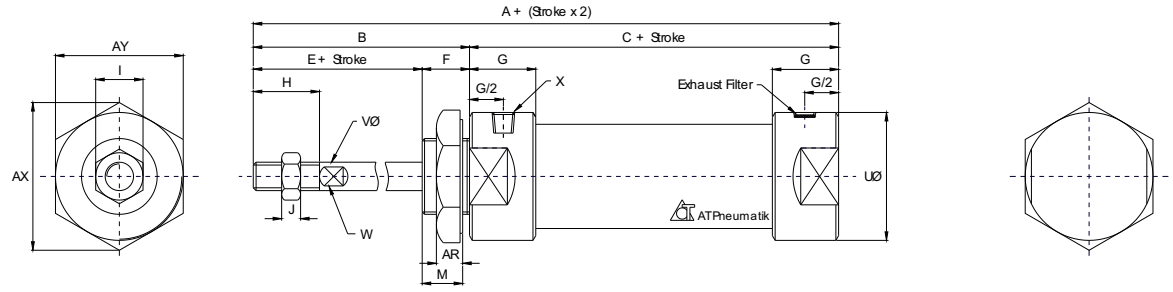
MASE - CA *Single Acting Cylinder Normally Extended*



MASE - CM *Single Acting Cylinder Normally Extended*



MASE - U *Single Acting Cylinder Normally Extended*



MASE Pneumatic Cylinder Dimension																	
Bore Diameter	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								
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	1611	122	147	46	76	101	27	14	32	14	22	24	17	7

MASE Pneumatic Cylinder Dimension															
Bore Diameter	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	M08 X 1.25	M22 X 1.5	10	8	16	19	12	12	27	8	6	G 1/8"	7	33	29
25	M10 X 1.25	M22 X 1.5	12	8	16	19	14	12	30	10	8	G 1/8"	7	33	29
32	M10 X 1.25	M24 X 2.0	12	10	16	25	14	15	35	12	10	G 1/8"	8	37	32
40	M12 X 1.25	M30 X 2.0	12	12	20	25	14	15	41.6	16	14	G 1/8"	9	47	41

Dimensions are in mm