

Solenoid Valves - M4V Series

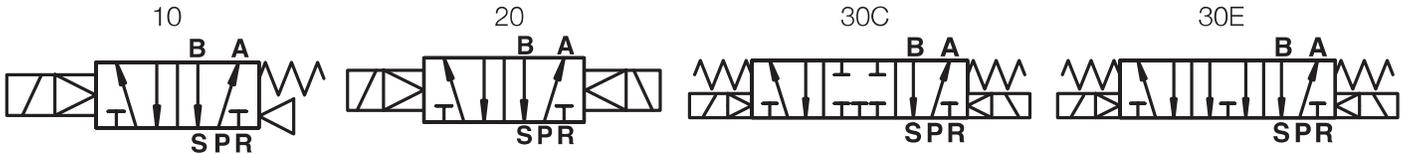
How to Order

M4V 2 10 - 08 - 24VDC - X



MODEL	TYPE	PORT SIZE	VOLTAGE	ELECTRICAL CONNECTION
1 - 100 Series	10 - Single Solenoid	06 - 1/8 NPT (100, 200 Series)	12VDC	Blank - DIN Connector
2 - 200 Series	20 - Double Solenoid	08 - 1/4 NPT (200, 300 Series)	24VDC	FL - Flying Leads ¹
3 - 300 Series	30C - 3 Position Double Solenoid Closed Center	10 - 3/8 NPT (300 Series)	24VAC 50/60 Hz	X - Explosion Proof ²
4 - 400 Series	30E - 3 Position Double Solenoid Exhaust Center	15 - 1/2 NPT (400 Series)	120VAC 50/60 Hz	

¹ Not available with 24VAC
² Not available with 100 series. See page 10 for specifications



Engineering Specifications

Model	M4V110-06 M4V120-06	M4V130C-06 M4V130E-06	M4V210-06 M4V220-06	M4V230C-06 M4V230E-06	M4V210-08 M4V220-08	M4V230C-08 M4V230E-08
Fluid	Air (Clean/Dry)					
Actuation	Internally Piloted					
Type	5 Port-2 Position	5 Port-3 Position	5 Port-2 Position	5 Port-3 Position	5 Port-2 Position	5 Port-3 Position
Flow	Cv 0.67	Cv 0.50	Cv 0.78	Cv 0.67	Cv 0.89	Cv 0.67
Port Size	1/8 NPT		1/8 NPT		Inlet/Outlet Ports 1/4 NPT Exhaust Ports 1/8 NPT	
Lubrication	Not Required					
Pressure Range	22 to 116 PSI (0.15 to 0.8 MPa)					
Proof Pressure	215 PSI (1.5 MPa)					
Temperature Range	-4 °F to 158 °F (-20 °C to 70 °C) (Explosion Proof -4 °F to 140 °F ([20 °C to 60 °C]))					
Max. Frequency	5 cycle/sec	3 cycle/sec	5 cycle/sec	3 cycle/sec	5 cycle/sec	3 cycle/sec
Electrical Connection	DIN / LED Connector or Flying Leads or Explosion Proof Coil Conduit Entry					
Voltage Range	AC: ±15% DC: ±10%					
Power Consumption ³	AC: 2.5VA / DC: 2.5W			AC: 3.5VA / DC: 3.0W		
Protection	IP65 (DIN40050)					
Insulation	Class B					
Max. Response Time	50ms					
Material	Aluminum Alloy Body					
Connector/Coil ³	9.4mm DIN, Industrial Form C			11mm DIN Connector, Industrial Form B		

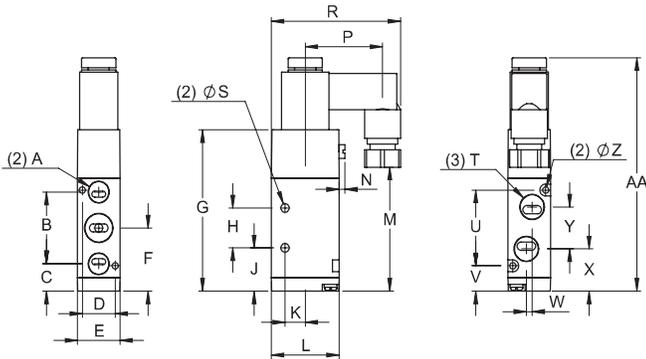
Model	M4V310-08 M4V320-08	M4V330C-08 M4V330E-08	M4V310-10 M4V320-10	M4V330C-10 M4V330E-10	M4V410-15 M4V420-15	M4V430C-15 M4V430E-15
Fluid	Air (Clean/Dry)					
Actuation	Internally Piloted					
Type	5 Port-2 Position	5 Port-3 Position	5 Port-2 Position	5 Port-3 Position	5 Port-2 Position	5 Port-3 Position
Flow	Cv 1.40	Cv 1.00	Cv 1.68	Cv 1.00	Cv 2.79	Cv 1.68
Port Size	1/4 NPT		Inlet/Outlet Ports 3/8 NPT Exhaust Ports 1/4 NPT		1/2 NPT	
Lubrication	Not Required					
Pressure Range	22 to 116 PSI (0.15 to 0.8 MPa)					
Proof Pressure	215 PSI (1.5 MPa)					
Temperature Range	-4 °F to 158 °F (-20 °C to 70 °C) (Explosion Proof -4 °F to 140 °F (-20 °C to 60 °C))					
Max. Frequency	4 cycle/sec	3 cycle/sec	4 cycle/sec	3 cycle/sec	3 cycle/sec	
Electrical Connection	DIN / LED Connector or Flying Leads or Explosion Proof Coil Conduit Entry					
Voltage Range	AC: ±15% DC: ±10%					
Power Consumption ³	AC: 3.5VA / DC: 3.0W					
Protection	IP65 (DIN40050)					
Insulation	Class B					
Max. Response Time	50ms					
Material	Aluminum Alloy Body					
Connector/Coil ³	11mm DIN Connector, Industrial Form B					

³ See page 10 for explosion proof specifications

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Dimensions (mm)

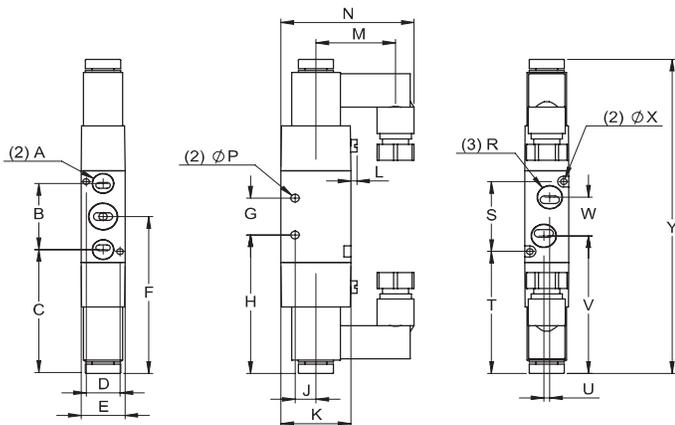
Single Solenoid



MODEL	A	B	C	D	E	F	G	H	J	K	L
M4V110-06	1/8 NPT	28	14.2	13	18	28.2	70.4	14	21.2	9.5	27
M4V210-06	1/8 NPT	36	13.7	17	22	31.7	81	20	21.7	10.5	35
M4V210-08	1/8 NPT	36	13.7	17	22	31.7	81	20	21.7	10.5	35
M4V310-08	1/4 NPT	45	17.5	20	27	40	98.7	24	28	13.5	40
M4V310-10	1/4 NPT	45	17.5	20	27	40	98.7	24	28	13.5	40
M4V410-15	1/2 NPT	63	25.5	27	34	57	132.3	28	43	17.5	50

MODEL	M	N	P	R	S	T	U	V	W	Y	Z	AA
M4V110-06	59.4	2.5	34	55	3.3	1/8 NPT	30	13.2	3	16	3.3	99.4
M4V210-06	62	3	40	67	4.3	1/8 NPT	38	12.7	0	18	3.3	117
M4V210-08	62	3	40	67	4.3	1/4 NPT	38	12.7	3	21	3.3	117
M4V310-08	80	2.4	40	69	4.3	1/4 NPT	50	15	0	22	4.3	135
M4V310-10	80	2.4	40	69	4.3	3/8 NPT	50	15	4	24	4.3	135
M4V410-15	114	2.8	40	74	5.5	1/2 NPT	72	21	4	36	4.3	168.4

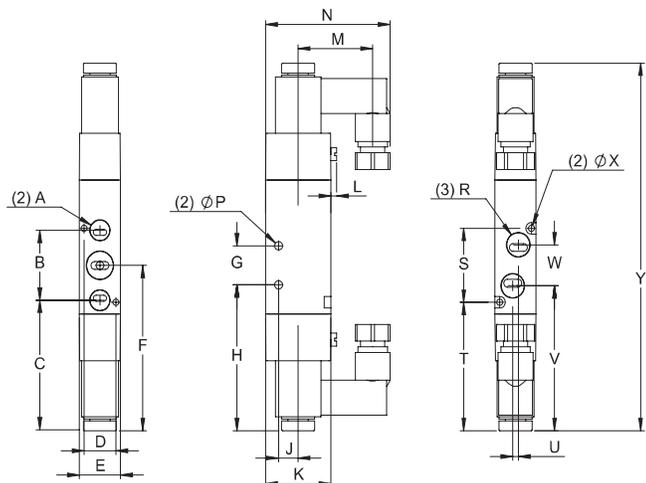
Double Solenoid



MODEL	A	B	C	D	E	F	G	H	J	K	L
M4V120-06	1/8 NPT	28	57.2	13	18	71.2	14	64.2	9.5	27	2.5
M4V220-06	1/8 NPT	36	67.4	17	22	85.4	20	75.4	10.5	35	3
M4V220-08	1/8 NPT	36	67.4	17	22	85.4	20	75.4	10.5	35	3
M4V320-08	1/4 NPT	45	72.4	20	27	94.9	24	83	13.5	40	2.4
M4V320-10	1/4 NPT	45	72.4	20	27	94.9	24	83	13.5	40	2.4
M4V420-15	1/2 NPT	63	80	27	34	111.4	28	97.4	17.5	50	2.8

MODEL	M	N	P	R	S	T	U	V	W	X	Y
M4V120-06	34	55	3.3	1/8 NPT	30	56.2	3	63.2	16	3.3	142.4
M4V220-06	40	67	4.3	1/8 NPT	38	66.4	0	76.4	18	3.3	171
M4V220-08	40	67	4.3	1/4 NPT	38	66.4	3	74.9	21	3.3	171
M4V320-08	40	69	4.3	1/4 NPT	50	70	0	83.9	22	4.3	190
M4V320-10	40	69	4.3	3/8 NPT	50	70	4	82.9	24	4.3	190
M4V420-15	40	74	5.5	1/2 NPT	72	75.4	4	93.4	36	4.3	223

Double Solenoid - Three Position



MODEL	A	B	C	D	E	F	G	H	J	K	L
M4V130_-06	1/8 NPT	28	57.2	13	18	71.2	14	64.2	9.5	27	2.5
M4V230_-06	1/8 NPT	36	67.4	17	22	85.4	20	75.4	10.5	35	3
M4V230_-08	1/8 NPT	36	67.4	17	22	85.4	20	75.4	10.5	35	3
M4V330_-08	1/4 NPT	45	72.4	20	27	94.9	24	83	13.5	40	2.4
M4V330_-10	1/4 NPT	45	72.4	20	27	94.9	24	83	13.5	40	2.4
M4V430_-15	1/2 NPT	63	80	27	34	111.4	28	97.4	17.5	50	2.8

MODEL	M	N	P	R	S	T	U	V	W	X	Y
M4V130_-06	34	55	3.3	1/8 NPT	30	56.2	3	63.2	16	3.3	157.4
M4V230_-06	40	67	4.3	1/8 NPT	38	66.4	0	76.4	18	3.3	190
M4V230_-08	40	67	4.3	1/4 NPT	38	66.4	3	74.9	21	3.3	190
M4V330_-08	40	69	4.3	1/4 NPT	50	70	0	83.9	22	4.3	209
M4V330_-10	40	69	4.3	3/8 NPT	50	70	4	82.9	24	4.3	209
M4V430_-15	40	74	5.5	1/2 NPT	72	75.4	4	93.4	36	4.3	243.8