M Series – Subminiature

- MOPD: 100 PSI (6.9 Bar)
- C_v Range: 0.018 to 0.070 (K_v Range: 0.017 to 0.032)
- As Low as 0.5 Watts

The M Series implements efficient power conservation in a solenoid valve that is specifically designed for sub-miniature two- and three-way pneumatic and select liquid applications. Field proven to exceed performance requirements in battery-powered applications, the M Series can be designed for extreme low wattage conditions. With a compact size, consistent high-speed response time, and reliable operation over 200 million cycles, the M Series delivers extended performance and precision flow control in a small lightweight environment.

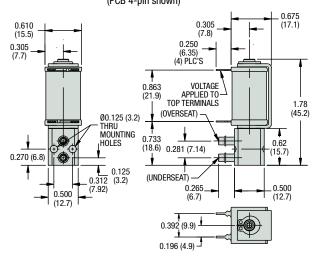
Typical Applications

Ideal for inline PC interfacing and manifold assemblies:

- Medical and Therapeutic Healthcare
- Clinical Chemistry and Analysis Equipment
- Drop-on-Demand Printing
- Environmental Instrumentation

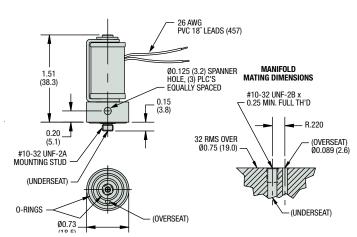
Dimensions

Barbed Port Body (PCB 4-pin shown)





Manifold Mount Body
(Lead wires shown)



How To Order

Valve Part Numbers are built from a series product codes. Use the **Bold** product codes from the choices listed on the following page to construct a complete Part Number.

M	В	20	29	_	03	8B	_	V	_	P1	_	204
Series	1 Power Rating	2 Function	3 MOPD	-	4 Body Material	5 Body Port	_	6 Seal Material	-	7 Coil Construction	_	8 Supply Voltage

Product Description from Example Shown Above:

MB2029-038B-V-P1-204

MB2029 = M Series with 1 Watt Power Rating, 2-Way Normally Closed Valve Function; 50 MOPD

-038B = Brass Body Material; 1/8" Barb Body Port

-V = Viton® Seal Material

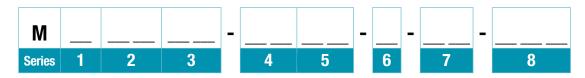
-P1 = Tape-Wrapped (Class B) PCB 4-pin Coil Construction

-204 = 24 VDC Supply Voltage



M Series – Part Number Build

Build a Valve Part Number by filling in the boxes below using the related code numbers on this page.



1+2+3 Power Rating, Valve Function, & Maximum Operating Pressure Differential

Valve	Code	Power Rating	МС)PD	C _v	K _v	Orifice	
Function			psig	bar	P.o	dy	Body	
			poly		В	uy	inches	mm
	A2034	0.5W	25	1.7	0.018	0.015	1/32	0.787
	A2037	0.500	10	0.7	0.037	0.032	0.052	1.321
2-WAY Normally	B2029	1W	50	3.4	0.018	0.015	0.031	0.787
Closed	B2034	I VV	25	1.7	0.037	0.032	0.052	1.321
0.0000	H2022	2W	100	6.9	0.018	0.015	0.031	0.787
	H2029	ZVV	50	3.4	0.037	0.032	0.052	1.321

4 Body Material

03 Brass 18 Aluminum **Seal Material**

В Nitrile EPR Viton® **Supply Voltages**

5 VDC 201 12 VDC 203 204 **24 VDC**

5 Body Port

FΜ Face Mount 5/64" (2.0mm) barb 6B 8B 1/8" (3.2mm) barb Manifold Mount

(#10-32 Threaded Stud)

Coil Construction

Tape-Wrapped (Class B) Lead Wires **Y1 P1** Tape-Wrapped (Class B) PCB 4-pin

M Series - Additional Component Details & Dimensions

