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M Series – Subminiature

MOPD: 100 PSI

C_v Range: 0.018 to 0.070
As Low As 0.5 Watts

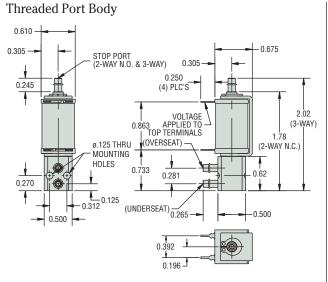
The M Series implements efficient power conservation in a solenoid valve that is specifically designed for sub-miniature two- and three-way pneumatic and select liquid applications. Field proven to exceed performance requirements in battery-powered applications, the M Series can be designed for extreme 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

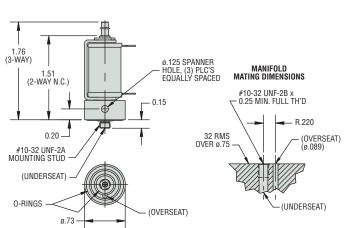
Ideal for inline PC interfacing and manifold assemblies:

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

Dimensions

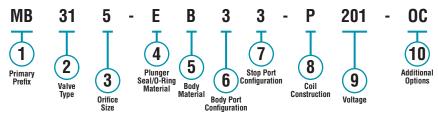


Manifold Mount Body



How To Order

Use the **Bold** characters from the choices listed on the following page to construct a product code.



Note: After the Primary Prefix, any "-Code" may be blank when standard (blank) selections are specified.

Example:

MB315-EB33-P-201

1 Watt 3-Way N.C. solenoid valve with a 0.052% orifice, EPDM plunger seal/o-ring, brass body, 1/8% barb body and stop port, P.C. board mount (4-pin), operating at 5 VDC, and is cleaned for oxygen use.



Part Prefix Table 1

	Power Rating	Orifice	MOPD (psig)	C _v	1 Primary Prefix
				Body	
	0.5 Watt	0.031	25	0.020	MA
		0.052	10	0.038	MA
	1 Watt	0.031	50	0.020	MB
		0.052	25	0.038	MB
	2 Watts	0.031	100	0.020	MC
		0.052	50	0.038	MC

2 Valve Type

20 = 2-Way normally closed

22 = 2-Way normally open

30 = 3-Way normally closed (free vent)

31 = 3-Way normally closed (line connection)

32 = 3-Way normally open

33 = 3-Way multi-purpose

34 = 3-Way directional control

(3) Orifice Size

2 = 0.031"

5 = 0.052"

4 Plunger Seal / O-Ring Material

V = Viton®

N = Nitrile

 $\mathbf{E} = \mathsf{EPDM}$

5 Body Material

 $\mathbf{B} = \text{Brass}$

A = Aluminum

(6) Body Port Configuration

0 = Face mount

1 = 1/16" barb

2 = 5/64" or 3/32" barb

3 = 1/8" barb

4 = Manifold mount, #10-32 UNF-2A stud†

5 = #10-32 UNF-2B female thread (180° apart only)

6 = 1/8"-27 NPT ports (180° apart only)

7 Stop Port Configuration

0 = No barb (Standard for 2-way NC & 3-way free vent)

1 = 1/16" barb (.031" orifice only)

2 = 5/64" or 3/32" barb

3 = 1/8" barb

(8) Coil Construction

U = P.C. board solderable (2-pin)

 $\mathbf{P} = P.C.$ board mount (4-pin)

Q = Quick connect 0.110 spade

L = Lead-wires, #26 AWG, 18" long

W__ = Lead-wires (Specify length in inches)

9 Voltage

200 = 3 VDC

201 = 5 VDC

203 = 12 VDC

204 = 24 VDC

____**VDC** = DC (specify voltage)

VAC = AC Rectified 2-watt coil only (specify voltage, lead-wires only)

(10) Additional Options

OC = Cleaned for oxygen use

VAC = Vacuum application (0 to 27" Hg)

† Teflon® o-ring not suitable for manifold mount.

Gems specializes in the design and manufacturing of custom solenoid valves and fluidic systems. If you don't see what you're looking for, or have a question, contact us at 800-378-1600 or info@gemssensors.com.