

VALVES

A J.D. Gould Company

OLENOID

High Temp Type M-1 Series

2-Way • Cast Bronze Bodies • Packless Velvetrol® Internal Piston Pilot Operated High Temp Solenoid Valves Normally Closed when De-Energized

For High Temp Applications: Steam | Hot Water | Hot Air | Hot Light Oils

Pressures: 5psi minimum to 125psi maximum **Temperature:** -40°F to 365°F | Class H Coils

Mounting: Install in horizontal line with coil upright and on top (unless or-

dered with -76 vertical mounting option) **Pipe Sizes:** 1/8" – 2" NPT • Full Port

Normally Closed Only

Service Ratings	Complete pricing, service & electrical ratings are shown on the List Price Schedule. Valves will be furnished for 5-125 PSI and 120 VAC unless otherwise specified.			
M-1-3T & M-1-3EP 🖖	Steam 5-125psi (-3EP 5-50psi) 356°F Max. Fluid Temp, Class H Coils (-3EP 298°) 12, 120, 240, 480, 120/240 VAC (50/60 Hz), 26 Watts Max.			
M4-1-3T & M4-1-3EP	Steam, Hot Air, Hot Water, Hot Light Oils (225SSU or 15SAE) 5-125psi (-3EP 5-50psi) 365°F Max. Fluid Temp, Class H Coils (-3EP 298°) 12, 24, 120, 240, 480, 120/40 VAC (50/60 Hz), 26 Watts Max. 12, 24, 48, 115, 230 VDC, 24 Watts Max.			
Add: -81, -84	-81 Factory Slow Close Option (reduces water hammer) -84 Factory Quick Close Option			
Add: -76	Spring Loaded Pilot for vertical mounting. Limitations apply. Consult factory.			

Construction:

- Class H Coils are NEMA 4X, watertight/corrosive resistant, molded of filled polyester with 18" leads and ½" conduit connector.
- Bodies are rated to 400 PSI and cast in bronze.
- **Plunger Tubes** are Stainless Steel silver soldered to the brass bonnet.
- Piston Assemblies are brass with filled Teflon™ seat discs.
- **Seat Screw** seats are Teflon™ (-3T) or Ethylene Propylene (-3EP).
- Pilot Valves are 430FR Stainless Steel. Piston springs are Stainless Steel.

Specials:

- Slow Close (-81) or Quick Close (-84) factory settings available at no charge.
- Spring-loaded pilot (-76) for vertical mounting available. Limitations apply. Consult factory.
- Teflon™ coated pistons & other special assemblies available.
- Non-standard coils available with voltage, wattage, and lead wire length to your specifications.

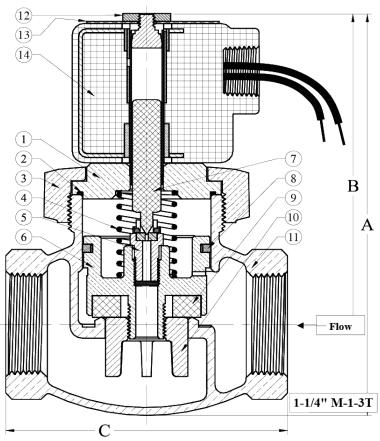
Teflon™ is a DuPont Company trademark. Viton® is a registered trademark of DuPont Dow Elastomers. See Price Schedule for "Terms and Conditions of Sale".

High Temp Type M-1 Series

Performance, Ordering, and Installation Guide

<u>Ordering Data:</u> Specify the pipe size, type, fluid, operating pressure, temperature range, electrical specifications, and backpressure (if any).

Flow Characteristics: See flow curves in Bulletin 5-FL, or Cv Factors listed below and in Bulletin CP-1



<u>Operation:</u> Piston pilot operated, minimum pressure drop of 5psi or 10psi (ΔP), depending on pressure rating, is required across valve for operation.

Mounting: Mount in horizontal line with coil vertical $(\pm 7^{\circ})$ and on top (unless ordered with -76 spring loaded pilot for vertical mounting). Install 40 mesh strainer (not larger) ahead of the valve. Check for proper coil voltage. Make sure that the flow arrow on the valve body is pointing in the direction of flow.

<u>Servicing:</u> Solenoid valves should be frequently checked for operation, cleanliness, and internal wear. Repair Kits are factory available – be sure to specify size, type, serial number or operating data, voltage, pressure, etc.)

Parts Details						
1	Bonnet Assembly					
2	Bonnet O'ring (NA on 1"-1 1/2")					
3	Bonnet Ring (NA on 1/8"-3/4")					
4	Piston Spring					
5	Seat Screw					
6	Piston					
7	Pilot Valve					
8	Piston Rings & Expanders					
9	Seat Disc					
10	Guide Nut					
11	Body					
12	Coil Nut					
13	Nameplate					
14	Coil					

Physical Dimensions							
Size	Cv	Weight	Α	В	С		
1/8"	1.3	3 lbs.	5.13	4.25	2.75		
1/4"	2.1	3 lbs.	5.13	4.25	2.75		
3/8"	2.3	3 lbs.	5.13	4.25	2.75		
1/2"	3.9	3 lbs.	5.13	4.25	2.75		
3/4"	5.1	4 lbs.	5.50	4.50	3.25		
1"	11.6	5 lbs.	5.75	4.56	3.81		
1-1/4"	12.1	7 lbs.	6.50	5.06	4.25		
1-1/2"	26	9 lbs.	7.06	5.38	4.88		
2"	48	14 lbs.	8.00	5.88	5.88		