

SOLENOID VALVES

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1/8"-2" NPT TYPE M & M-1 Series

2-WAY - CAST BRONZE BODIES - PACKLESS
VELVETROL® INTERNAL PISTON PILOT OPERATED
GENERAL PURPOSE SOLENOID VALVES
NORMALLY CLOSED WHEN DE-ENERGIZED



- ★ FOR: GENERAL SERVICE-AIR-WATER-LIGHT OIL-STEAM (M-3V* LEAKPROOF)
- ★ PRESSURES: 5 PSI MINIMUM TO 250 (130 FOR STEAM) PSI MAXIMUM • FULL PORT
- ★ TEMPERATURE: -420°F TO 356°F. CLASS N COILS
- ★ MOUNTING: INSTALL IN HORIZONTAL LINE WITH COIL UPRIGHT AND ON TOP

SIZES 1/8" - 2" NPT FULL PORT

- ★ **SERVICE RATINGS** Complete Pricing, Service & Electrical Ratings shown on page 3 of the List Price Schedule. Valves will be furnished for 5-125 PSI and 120 VAC Unless Otherwise Specified.

--- NORMALLY CLOSED ONLY ---

M-3B, M-3EP, M-3V



GENERAL PURPOSE - AIR - WATER
5-125, 10-250 PSI; 250°F. Max. Fluid, Class N
120, 240, 480, 120/240 VAC (50/60 Hz), 26 Watts Max.

M4-3B M4-3EP M4-3V

GENERAL PURPOSE - AIR - WATER - INERT GASES
SELECTED LIQUIDS (Consult Factory)
5-125, 10-250 PSI; 250°F. Max. Fluid, Class N
120, 240, 480, 120/240 VAC (50/60 Hz), 26 Watts Max.
6, 12, 24, 48, 115, 230 VDC, 24 Watts Max.

M-1-3T, M-1-3EP



STEAM - HOT FLUIDS
5-130 PSI (-3EP is 5-50PSI); 356°F (-3EP is 300°F) Max. Fluid, Class N
120, 240, 480 VAC (50/60 Hz), 26 Watts Max.

TYPE M-1-3EP



LOW PRESSURE STEAM (to 50 PSI)
SELECTED LIQUIDS (Consult Factory)
5-125, 10-250 PSI; 300°F. Max. Fluid, Class N
120, 240, 480, 120/240 VAC (50/60 Hz), 26 Watts Max.
6, 12, 24, 48, 115, 230 VDC, 24 Watts Max.

★ CONSTRUCTION:

CLASS N COILS are **NEMA 4X**, Fungus proof, Molded of Filled Polyester with 18" Leads and 1/2" 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® PISTON RINGS, Stainless Steel EXPANDERS, and Buna, EP, and Fluorocarbon SEAT DISCS.

PILOT VALVES & SPRINGS are Stainless Steel.

★ SPECIALS:

Teflon® Leak Proof Seat Screws, Teflon® Discs (Standard on all Steam Valves), Teflon® Coated Pistons & other Special Assemblies Available. Non-Standard Coils Available with Voltage, Wattage, and Lead Wire Length to your specifications.

See Price Schedule for "Terms and Conditions of Sale" (Back Cover)

See Page 3 of List Price Schedule for UL and CSA Listings.

PERFORMANCE, ORDERING AND INSTALLATION GUIDE

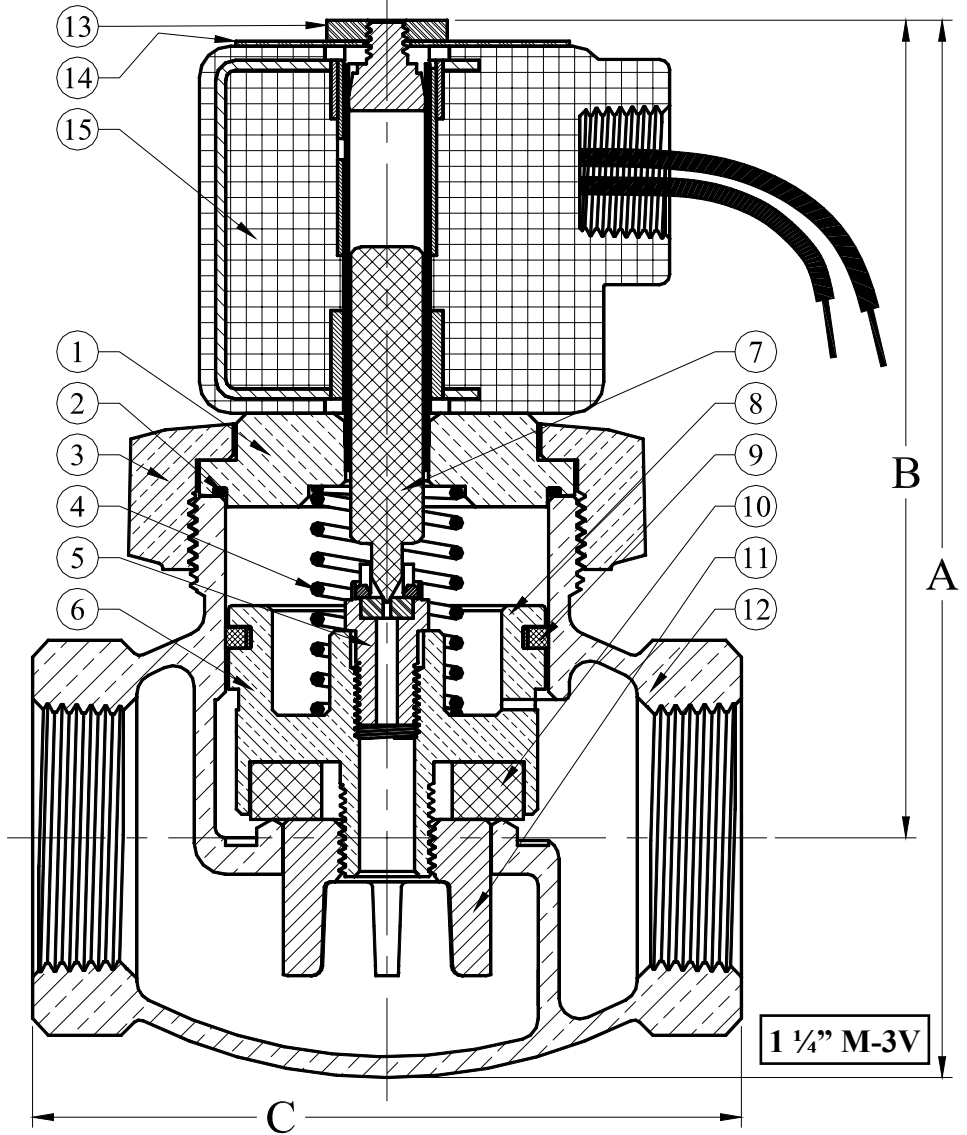
ORDERING DATA--SPECIFY PIPE SIZE, TYPE, FLUID, OPERATING PRESSURE, TEMPERATURE RANGE, ELECTRICAL SPECIFICATIONS, BACKPRESSURE, (IF ANY).

FLOW CHARACTERISTICS--SEE FLOW CURVES IN BULLETIN 5-FL, OR Cv FACTORS LISTED BELOW AND IN BULLETIN CP-1.

OPERATION--PISTON PILOT OPERATED. MINIMUM PRESSURE DROP OF 5 PSI (ΔP) IS REQUIRED ACROSS VALVE FOR OPERATION.

MOUNTING--MOUNT IN HORIZONTAL LINE WITH COIL VERTICAL AND ON TOP. INSTALL 40 MESH STRAINER (NOT LARGER) AHEAD OF VALVE. CHECK FOR PROPER COIL VOLTAGE. MAKE SURE THAT THE FLOW ARROW ON VALVE BODY IS POINTING IN THE DIRECTION OF FLOW.

SERVICING--SOLENOID VALVES SHOULD BE FREQUENTLY CHECKED FOR OPERATION, CLEANLINESS, & INTERNAL WEAR - REPAIR KITS ARE FACTORY AVAILABLE --GIVE SIZE, TYPE, SERIAL NUMBER OR OPERATING DATA VOLTAGE, PRESSURE, ETC.)



* Also -3B, and -3EP

Physical Dimensions					
Size	Cv	Weight	A	B	C
1/8"	2.9	3 lbs	5.13	4.25	2.75
1/4"	2.9	3 lbs	5.13	4.25	2.75
3/8"	3.6	3 lbs	5.13	4.25	2.75
1/2"	3.6	3 lbs	5.13	4.25	2.75
3/4"	6.8	4 lbs	5.50	4.50	3.25
1"	11.5	5 lbs	5.75	4.56	3.81
1 1/4"	18	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

Size	1	2	2	3	4	5	5	6	6	7	7	8	9	10	10	11	12	13	14	15
	Bonnet Assembly	M-3V Bonn O-Ring	M-3V* Bonn O-Ring	Bonnet Ring	Piston Spring	M-3V* SeatScrew	M-1-3T SeatScrew	M-3V* Pist Assm.	M-1-3T Pist. Assm	M-3V* Pilot Valve	M-1-3T Pilot Valve	Piston Only	Piston Ring Expander	M-3V* Seat Disc	M-1-3T Seat Disc	Guide Nut	Body	Coil Nut	Name Plate	Coil
1/8"	403-1	2-121	2-121	N/A	37-14	415-31	415-31T	407-3	407-T-3T	486NP	486	402	57	36-012	36-012T	406	400-8	6-15	44-1	Consult Factory
1/4"	403-1	2-121	2-121	N/A	37-14	415-31	415-31T	407-3	407-T-3T	486NP	486	402	57	36-012	36-012T	406	400-8	6-15	44-1	
3/8"	403-1	2-121	2-121	N/A	37-14	415-31	415-31T	407-3	407-T-3T	486NP	486	402	57	36-012	36-012T	406	400-8	6-15	44-1	
1/2"	403-1	2-121	2-121	N/A	37-14	415-31	415-31T	407-3	407-T-3T	486NP	486	402	57	36-012	36-012T	406	400-8	6-15	44-1	OR List Price Schedule
3/4"	413-1	2-125	2-125	N/A	37-3	415-3	415-3T	417-3	417-T-3T	486NP	486	412	159	36-034	36-034T	416	410	6-15	44-1	
1"	423-1	N/A	N/A	428	37-3	415-31	415-31T	427-3	427-T-3T	486NP	486	422	58	36-100	36-100T	429	420	6-15	44-1	
1 1/4"	433-1	N/A	N/A	438	37-2	415-31	415-31T	437-3	437-T-3T	486NP	486	432	434	36-114	36-114T	439	430	6-15	44-1	
1 1/2"	443-1	N/A	N/A	448	37-2	415-31	415-31T	447-3	447-T-3T	486NP	486	442	93	36-112	36-112T	449	440	6-15	44-1	
2"	453-1	2-40	2-40	458	37-2	415-31	415-31T	457-3	457-T-3T	486NP	486	452	176	36-200	36-200T	459	450	6-15	44-1	