

BRONZE SOLENOID VALVES

Dependable • Packless



TYPE "MR" - NORMALLY OPEN

3/8" TO 3/4" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

DIRECT ACTING - ORIFICE SIZES 1/8" TO 1/2"

OPERATION:

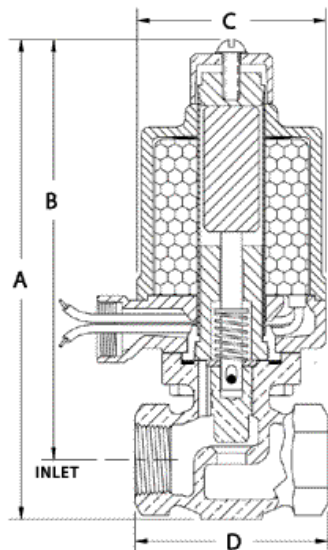
Valve closes when energized and opens when de-energized. In this direct acting valve, when the coil is energized, the stem is pressed into its conical seat by the plunger.

MAX. FLUID TEMP.

400° F

MAX. STATIC PRESSURE

150 PSI



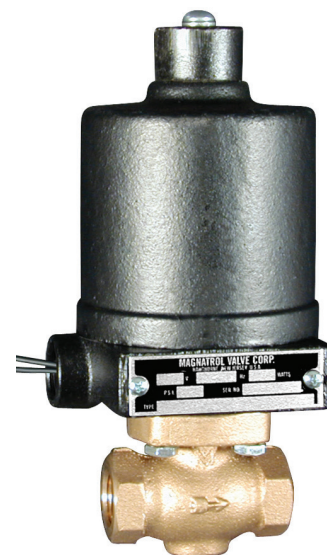
CONSTRUCTION: (* Wetted parts)

- *Valve Body - Cast Bronze, Globe Pattern - NPT ends
- Coil Enclosure - Malleable Iron, 1/2" NPS conduit conn.
- *Plunger - 430 Stainless Steel
- *Poppet - 304 Stainless Steel
- *Stem - 303 Stainless Steel
- *Bonnet Tube - 304 Stainless Steel
- *Spring - Inconel
- *Body Seal - Non Asbestos Gasket
- *Orifice Seal - Metal to Metal
- *AC Shading Coil - Copper
- *Stem Pin - Inconel
- Coil - Encapsulated Class H, 18" leads



APPLICATION:

To control the flow of Steam, Hot Liquids, Hot Gases, Cryogenics** and any other fluids not reactive with construction materials and free of sediment. Cryogenic fluids include Liquid Oxygen (-297°F), Liquid Argon (-303°F) and Liquid Nitrogen (-320°F). Valve operates from zero to maximum differential pressure indicated in table. Valve must be mounted in horizontal pipe with solenoid enclosure vertical and on top.



**FOR OPTIONS & ACCESSORIES
SEE PAGES 26 & 27**

**Cleaning:

- Cryogenic valves are degreased and cleaned to keep them free of moisture.
- Oxygen valves are also "black light" tested.

Strainers are recommended for use with solenoid valves

(See page 19)

When you order please supply the following:

- Pipe Size
- Valve Type
- Voltage (AC or DC)
- Hertz
- Fluid
- Fluid Temperature
- Max. Diff. Pressure
- Optional Features

(See pages 26& 27)

Pipe Size Inches	Max. Diff. PSI	Valve Port Size	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches												
									A	B	C	D									
3/8	23	3/8	† 10MR21	25	0.5	1.4	18	7	7	6-1/4	2-7/8	2-5/8									
	45	1/4	† 10MR41																		
	70	3/16	† 10MR51																		
	90	5/32	† 10MR81																		
	135	1/8	† 10MR61																		
	45	3/8	25MR21																		
1/2	70	5/16	25MR31	45	1.0	2.6	23	10	7-7/8	7-1/8	3-1/2	2-5/8									
	90	1/4	25MR41																		
	135	3/16	25MR51																		
	23	3/8	10MR22										25	0.5	1.5	18	7	7	6-1/4	2-7/8	2-3/4
	45	1/4	10MR42																		
	70	3/16	10MR52																		
90	5/32	10MR82																			
135	1/8	10MR62																			
45	3/8	25MR22																			
3/4	70	5/16	25MR32	45	1.0	2.7	23	10	7-7/8	7-1/8	3-1/2	2-3/4									
	90	1/4	25MR42																		
	135	3/16	25MR52																		
	13	1/2	10MR13										25	0.5	1.6	18	7	7-1/4	6-3/8	2-7/8	2-7/8
	32	5/16	10MR33																		
	27	1/2	25MR13																		
70	5/16	25MR33																			

Optional "Soft Seat" Orifice Seal (for applications requiring tight seating)

Viton - Suitable for Fuel Oils, Gaseous Oxygen and other compatible fluids

† UL Listed Valves - Consult Factory

MAGNATROL VALVE CORPORATION