

# BRONZE SOLENOID VALVES

Dependable • Packless



## TYPE "MR" - NORMALLY OPEN

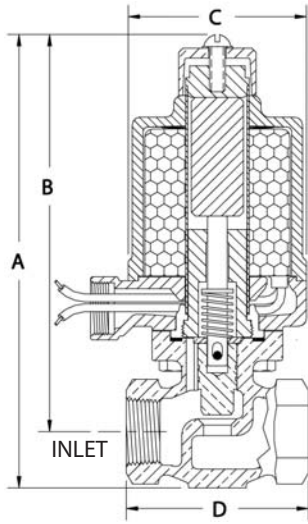
### 3/8" TO 3/4" PIPE SIZE

*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.



**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.

**\*\*Cleaning:**

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

MAX. FLUID TEMP.  
**400° F**  
MAX. STATIC PRESSURE  
**150 PSI**



**FOR OPTIONS & ACCESSORIES  
SEE PAGES 24 & 25**

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 24 & 25)

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									
1/2	45	3/8	25MR21	45	1.0	2.6	23	10	7-7/8	7-1/8	3-1/2	2-5/8
	70	5/16	25MR31									
	90	1/4	25MR41									
	135	3/16	25MR51									
	23	3/8	10MR22									
45	1/4	10MR42										
70	3/16	10MR52										
90	5/32	10MR82										
135	1/8	10MR62										
3/4	45	3/8	25MR22	45	1.0	2.7	23	10	7-7/8	7-1/8	3-1/2	2-3/4
	70	5/16	25MR32									
	90	1/4	25MR42									
	135	3/16	25MR52									
	13	1/2	10MR13									
32	5/16	10MR33										
27	1/2	25MR13	45	1.0	2.8	23	11	8-1/8	7-1/4	3-1/2	2-7/8	
70	5/16	25MR33										

† UL Listed Valves - Consult Factory

## MAGNATROL VALVE CORPORATION