

# BRONZE Solenoid Valves



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

## TYPE MR NORMALLY OPEN - 3/8" to 3/4" PIPE SIZE ( NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN )

**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.  
**Direct Acting Orifice Sizes** – 1/8" to 1/2"

### 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 (Teflon® available)
- Orifice Seal\* – Metal to Metal (Soft Seat available)
- AC Shading Coil\* – Copper
- Stem Pin\* – Inconel
- Coil – Encapsulated Class H, 18" leads

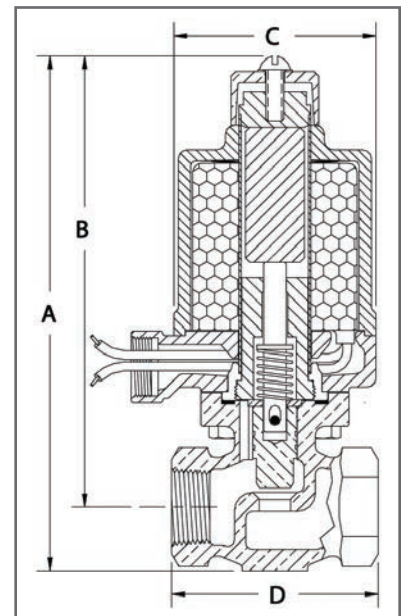
**APPLICATION:** To control the flow of **Steam, Hot Liquids, Hot Gases, Cryogenics\*\*** and any other fluids not reactive with construction materials and free of sediment. Cryogenic fluids include Liquid Oxygen (-297°F), Liquid Argon (-303°F) and Liquid Nitrogen (-320°F). Valve operates from zero to 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.

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										



**For Options and Accessories see pages 26 & 27.** Strainers are recommended for use with solenoid valves (see page 19).



- When ordering please supply:**
- Pipe Size
  - Valve Type
  - Voltage (AC or DC)
  - Hertz
  - Fluid
  - Fluid Temperature
  - Max. Diff. Pressure
  - Optional Features (See pages 26 & 27)

**Optional Viton® "Soft Seat" Orifice Seal**

- For applications requiring tight seating
- Suitable for Fuel Oils, Gaseous Oxygen and other compatible fluids