



BRONZE SOLENOID VALVES

Dependable • Packless

“GRITTY COOLANT” FULL PORT - NORMALLY CLOSED 1/2” TO 1-1/2” PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

MAX. FLUID TEMP.
212° F
MAX. STATIC PRESSURE
300 PSI
Except valves listed for 500 PSI



OPERATION:

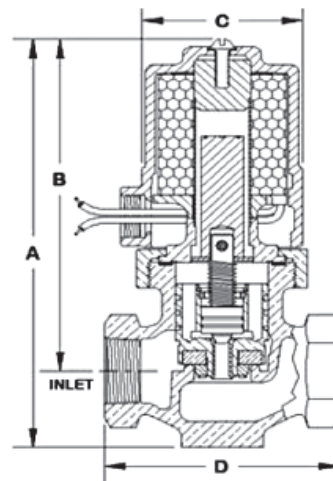
Valve opens when energized and closes when de-energized. When the coil is energized the pilot valve opens, relieving the pressure above the piston, which is then lifted from its seat by the plunger. Upon de-energizing the coil, a spring closes the pilot valve and opens a bleed passageway to permit pressure to build above the piston and seat it.

CONSTRUCTION: (* Wetted parts)

- *Valve Body - Cast Bronze, Globe Pattern - NPT ends
- *Piston - Bronze
- Coil Enclosure - Malleable or Cast Iron, 1/2” NPS conduit conn.
- *Plunger - 430 Stainless Steel
- *Pilot Valve - 303 Stainless Steel
- *Bonnet Tube - 304 Stainless Steel
- *Spring - 302 Stainless Steel
- *Body Seal - Buna N or Non Asbestos Gasket
- *Orifice Seal - Buna N (Viton or Glass Filled Teflon available)
- *AC Shading Coil - Copper
- *Stem Pin - Inconel
- Coil - Encapsulated Class B, 18” leads - (Class H available)

APPLICATION:

To control the flow of “Coolant”, the valve is designed with the piston “turned down” and a larger pilot port, offering additional clearance, allowing the valve to operate with fluids containing some grit/sediment typically found in coolant. 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**

Pipe Size Inches	Max Diff. PSI	Type No.	Watts AC	Watts AC	Ship Wt. Lbs.	Dimension In Inches			
						A	B	C	D
1/2	80	MS18A42-C	25	18	8	7	5-7/8	2-3/4	3-1/4
	200	MS33A22-C	40	23					
	300	MS233A42-C	80	40					
3/4	80	MS18A43-C	25	18	8	7-1/8	6	2-3/4	3-1/2
	125	MS33A23-C	45	23					
	200	MS133A23-C	65	33					
	300	MS233A43-C	80	40					
1	200	MS233A24-C	80	40	10	7-7/8	6-5/8	2-3/4	4-1/8
	300	MS233A44-C	80	40					
1-1/4	200	MS233A25-C	80	40	12	8-3/8	6-3/4	2-3/4	4-1/2
	300	MS233A45-C	80	40					
1-1/2	300	MS241A46-C	115	65	20	10	8-1/8	4	4-7/8

“A” Dimension does not include the “MS” Mounting Stud (Approx. 7/8”)

Note: The addition of any bottom mounted option would replace the “MS” Mounting Stud and change the prefix to reflect the appropriate option.

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)

†† Not available for DC operation