

# BRONZE SOLENOID VALVES

Dependable • Packless



## TYPE "NR" - NORMALLY OPEN

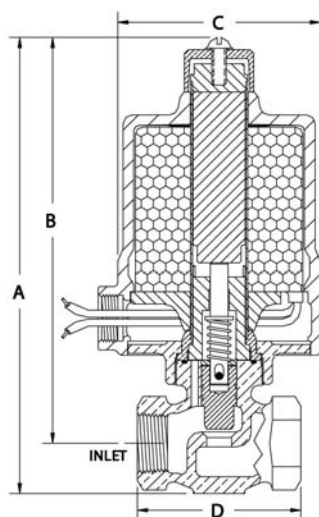
### 3/8" TO 3/4" PIPE SIZE

*NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN*

### DIRECT ACTING - ORIFICE SIZES 3/32" 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 - Buna N
- \*Orifice Seal - Metal to Metal
- \*AC Shading Coil - Copper
- \*Stem Pin - 304 Stainless Steel
- Coil - Encapsulated Class B, 18" leads - (Class H available)

**APPLICATION:**

To control the flow of **Water, Oil, Air, Gas, Solvents, Brine, Vacuum** and any other fluids not reactive with construction materials and free of sediment. 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.



MAX. FLUID TEMP.

**212° F**

MAX. STATIC PRESSURE

**300 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	18NR21	25	0.5	1.4	18	7	6-7/8	6-1/8	2-3/4	2-1/2
	45	1/4	18NR41									
	70	3/16	18NR51									
	90	5/32	18NR81									
	135	1/8	18NR61									
	200	3/32	18NR71									
1/2	45	3/8	33NR21	45	1.0	2.6	23	10	7-3/4	7	3-1/2	2-1/2
	70	5/16	33NR31									
	90	1/4	33NR41									
	135	3/16	33NR51									
	270	1/8	33NR61									
	3/4	23	3/8									
45		1/4	18NR42									
70		3/16	18NR52									
90		5/32	18NR82									
135		1/8	18NR62									
200		3/32	18NR72									
3/4	45	3/8	33NR22	45	1.0	2.7	23	10	7-7/8	7-1/8	3-1/2	2-3/4
	70	5/16	33NR32									
	90	1/4	33NR42									
	135	3/16	33NR52									
	270	1/8	33NR62									
	3/4	13	1/2									
32		5/16	18NR33									
27		1/2	33NR13	45	1.0	2.8	23	10	8-1/8	7-1/4	3-1/2	2-7/8
70	5/16	33NR33										