

**Available For
Quick Delivery**

Magnatrol
VALVE CORP.

**Bronze and
Stainless Steel
2-Way**

SOLENOID VALVES

For Control Of
**WATER • OIL • STEAM
AIR • GAS • CRYOGENICS
SOLVENTS • OXYGEN
CORROSIVE FLUIDS**





WELCOME TO MAGNATROL

Process Control Solenoid Valves For

Water • Oil • Air • Gas • Steam • Cryogenics • Vacuum • Solvents • Brine • Oxygen • Corrosive Fluids



Magnatrol Valve Corp.

- Established 1936
- Experienced Dedicated Sales Staff
- Application / Engineering Assistance
- Excellent Product Support
- Quick Delivery

Our continued success has come from manufacturing a top quality product, product support, commitment to service and on-time delivery assuring complete customer satisfaction.

Our Products

Every valve is manufactured and tested in-house following Quality Assurance Standards where production operations are under the control of our dedicated, experienced staff and workforce.

- High Quality Bronze and Stainless Steel Solenoid Valves*
- Pressures up to 500 PSI *
- Temperatures up to 400° F *
- Cryogenic and Oxygen Service Applications
- Normally Closed (Energize to Open)
- Normally Open (Energize to Close)
- Continuous Duty Coils for all AC & DC Voltages
- NO Differential Pressure Required to Open
- Full Port-Internal Pilot Operated or Direct Acting
- 2-Way Straight Thru Design
- Packless Construction

* **Custom Engineered Valves**, Special Alloys, Temperatures, Pressures and Applications as well as Modifications to Standard Magnatrol Valves are available through Magnatrol's **Clark-Cooper Division**. (See bottom of page 3)

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ADDITIONAL CATALOGS

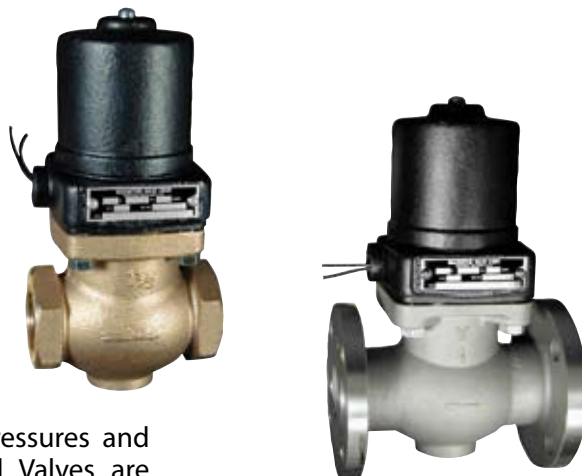
Technical/Engineering Catalog .. 3006-ENG

Technical & Engineering Data including:

- Sandy Well Water Valves
- Gritty Coolant Valves

Universal Mount Catalog3006-UM

Valves can be mounted in any position



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VALVE SELECTION CHART



Ordering Information - See Pages 26 & 27

For Optional Features - See Pages 24 & 25

VALVE SELECTION CHART

(For Fluids/Gases Not Listed And For Special Applications, Consult Factory)

Max. Temperature	Up To 212°F				Up To 400°F				
Construction	Bronze							Stainless Steel	
Valve Type	D	G/GR	N/NR	A/AR	M/MR	S/SR	L/LR	K/KR	W/WR
Page	18	16 & 17	6 & 7	8 & 9	10 & 11	12 & 13	14 & 15	20 & 21	22 & 23
Max. Diff. Pressure	30 PSI	50 PSI	300 PSI	500 PSI	150 PSI	180 PSI	500 PSI	500 PSI	180 PSI
Pipe Size Inches	3/8"-2"	1"-3"	1/2"-3/4"	1/2"-3"	3/8"-3/4"	1/2"-3"	1/2"-3"	1/2"-3"	1/2"-3"
Internal Port Size	Full	Full	Reduced	Full	Reduced	Full	Full	Full	Full
Air	◆	◆	◆	◆	◆		◆	◆	
Brine			◆	◆	◆		◆	◆	
Gas	◆	◆		◆	◆		◆	◆	
Oil	◆		◆	◆	◆		◆	◆	
Solvents	◆	◆	◆	◆	◆		◆	◆	
Water	◆	◆	◆	◆	◆		◆	◆	
Vacuum	◆	◆	◆	◆					
Steam					◆	◆			◆
Cryogenic					◆		◆	◆	
Oxygen, Liquid					◆		◆	◆	
Oxygen, Gaseous	◆	◆		◆			◆	◆	
Corrosive								◆	

Use the chart above to determine suitable types of Magnatrol valves for a given application.

Example: A normally closed 1/2" valve for use on 100 psi steam, there are three types suitable and the final selection can only be made after referring to Bulletins 3006-M, 3006-S and 3006-W on pages 10, 12 and 22 respectively.

Maximum Differential Pressure:

When specifying a valve, the Maximum Differential Pressure must be equal to or greater than the application. Care should be taken not to "over specify" the valve by choosing a valve with a Maximum Differential Pressure that is excessively beyond the application.

If you are unsure please consult the factory.

For Custom Engineered Valves,
modifications to standard Magnatrol valves and valves that fall outside standard valve capabilities,
contact Magnatrol's Clark Cooper Division

2-Way and 3-Way • 1/4" Thru 6"

- Pressures to 10,000
- Fluid Temperatures up to 550°F
- Dirty / Viscous & Corrosive Fluids
- Bronze, 316SS, Monel, Alloy 20 & Hastelloy
- End connections: NPT, Flange, Union, Socket Weld, Butt Weld, Pipe Nipples etc.
- Options: Remote Trip with Manual or Automatic Reset and many others
- Designs for Navy and Marine Service

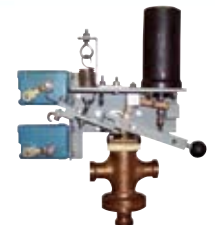
3-Valve
Manifold for
CNG Refueling



High Pressure
Cartridge Valve
10,000 PSI



3-Way Trip Valve with 2 Position
Indicating Switches
and Manual Reset



CLARK - COOPER DIV.
855 INDUSTRIAL HIGHWAY • #4
CINNAMINSON, NJ 08077

Phone: 856 - 829 - 4580 • Fax: 856 - 829 - 7303
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SOLENOID COILS CONTINUOUS DUTY COILS

ELECTRICAL CHARACTERISTICS

Coils are stocked for the following voltages:

Voltage	6	12	24	32	48	64	75	120	208	240	480	575
50,60 Hertz AC			•					•	•	•	•	•
DC	•	•	•	•	•	•	•	*		*		

75V DC for locomotive applications * Furnished with surge protecting capacitor

Reference should be made to the Bulletins to determine the availability of a required valve for a specific power supply.

Consult the factory for information regarding voltage and frequencies not listed.



ENCAPSULATED COIL

Valves for A.C. service can be converted for use on other A.C. voltages simply by changing the coil. Similarly D.C. valves can be converted for other D.C. voltages. Consult factory regarding conversion from A.C. to D.C. or D.C. to A.C.

CURRENT CONSUMPTION:

Current values shown in the bulletins are for 120 volts, 60 hertz. For other voltages the current is inversely proportional: For instance, if a given valve draws 0.5 amperes on 120 volts it would draw 0.25 amperes on 240 volts, or 0.125 amperes on 480 volts. Where power consumption is shown in D.C. watts, the values given should be divided by line voltage to obtain the current in amperes. Power consumption for all valves is shown in the individual bulletins.

CONSTRUCTION:

Continuous Duty Construction: Coils can be energized continuously without overheating or failure.

Wire Leads: 18" long 18 gauge wire standard (longer continuous leads available)

Encapsulated: Coils are encapsulated for temperature of intended service, providing excellent resistance to shock, moisture, oil and chemicals

COIL CLASS:

GENERAL SERVICE - CLASS "B"		HIGH TEMPERATURE - CLASS "H"	
Maximum Fluid Temperature	Maximum Ambient Temperature	Maximum Fluid Temperature	Maximum Ambient Temperature
212° F (413° C)	104° F (40° C)	400° F (206° C)	212° F (100° C)

INSTALLATION:

The coil is a two wire device which may be controlled by either a single or double pole switch. The switch should always be installed in the hot leg of 120 volt circuits. Where both legs are hot, such as 240 or 480 volt circuits, a double pole switch is preferable, however, if a single pole switch is used, then the wiring should have top quality insulation since even minute leakage currents may give rise to sticking problems. On motor hookup with step control starter, full voltage should be supplied to coil immediately.

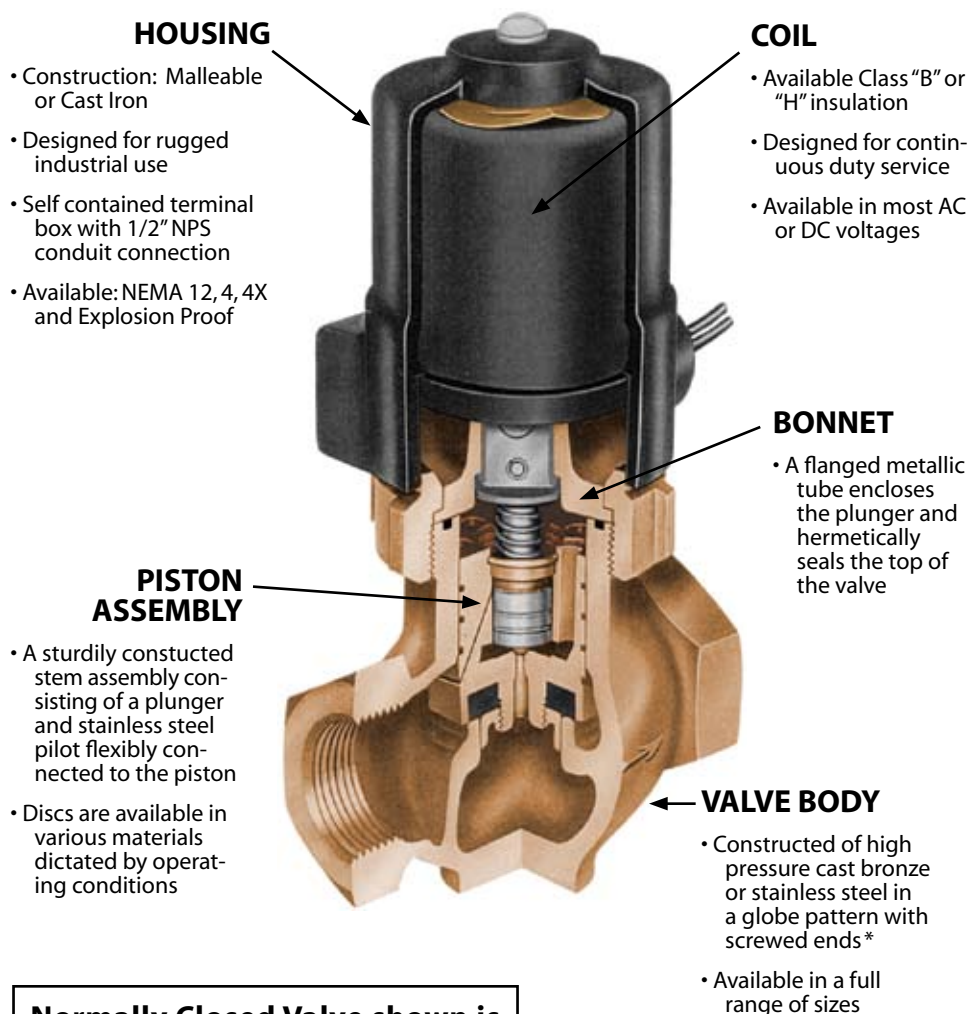
Note: Coil can be readily changed while valve is still under pressure.

VALVE CONSTRUCTION FEATURES



Valve Construction Features:

- 2-way straight thru globe design
- Bronze or Stainless Steel body w/ female NPT threads standard
- Stainless Steel available with 150# and 300# flanged ends
- Full port-internal pilot operated or direct acting
- Packless construction
- Continuous duty coils for all voltages
- No differential pressure required to open

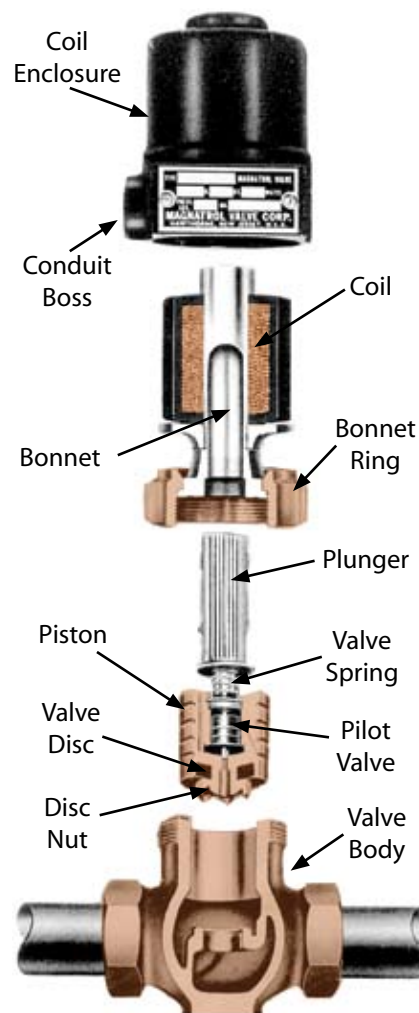


Normally Closed Valve shown is typical of Type A, 1/2" thru 1-1/4"

* Stainless Steel valves available with flanged ends. Flanged Bronze valves available through Magnetrol's **Clark-Cooper Division** (See bottom of page 3).

Easy In-Line Service

Inspect, clean or service all internal parts of full port-internal pilot operated or direct acting solenoid valves while the valve body remains in the pipeline shortening costly down time and increasing productivity.



MAGNATROL SOLENOID OPERATED VALVES are used to control the flow of liquids or gases, generally in conjunction with automatic control apparatus such as thermostat, float switch, time switch, or flow meter.

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BRONZE SOLENOID VALVES

Dependable • Packless

TYPE "N" - NORMALLY CLOSED

1/2" TO 3/4" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

MAX. FLUID TEMP.

212° F

MAX. STATIC PRESSURE

300 PSI

DIRECT ACTING - ORIFICE SIZES 3/32" TO 1/2"

OPERATION:

Valve opens when energized and closes when de-energized. In this direct acting valve, when the coil is energized, the stem is lifted from 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

*Valve Stem - 303 Stainless Steel

*Bonnet Tube - 304 Stainless Steel

*Spring - 302 Stainless Steel

*Body Seal - Buna N

*Orifice Seal - Metal to Metal

*AC Shading Coil - Copper

*Stem Pin - Inconel

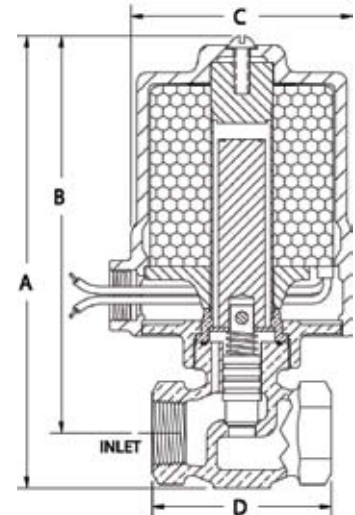
Coil - Encapsulated Class B, 18" leads - (Class H available)

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.



**FOR OPTIONS & ACCESSORIES
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												
	DISCONTINUED -- USE 1/2" VALVE WITH BUSHING											
1/2	25	3/8	18N22	25	0.4	1.2	18	6	6-1/4	5-3/8	2-3/4	2-3/4
	50	1/4	18N42									
	75	3/16	18N52									
	100	5/32	18N82									
	150	1/8	18N62									
	225	3/32	18N72									
	50	3/8	33N22	45	0.8	2.4	23	10	7-1/8	6-3/8	3-1/2	2-3/4
	75	5/16	33N32									
	100	1/4	33N42									
	150	3/16	33N52									
300	1/8	33N62										
3/4	15	1/2	18N13	25	0.4	1.3	18	7	6-1/2	5-5/8	2-3/4	2-7/8
	35	5/16	18N33									
	30	1/2	33N13	45	0.8	2.5	23	10	7-3/8	6-1/2	3-1/2	2-7/8
	75	5/16	33N33									

Strainers are recommended for use with solenoid valves (See page 19)

When you order please supply the following:

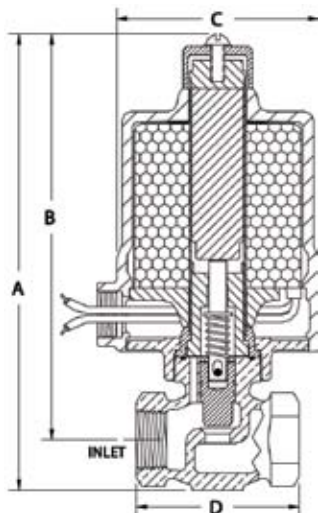
- Pipe Size
 - Valve Type
 - Voltage (AC or DC)
 - Hertz
 - Fluid
 - Fluid Temperature
 - Max. Diff. Pressure
 - Optional Features
- (See pages 24 & 25)

BRONZE SOLENOID VALVES

Dependable • Packless

**TYPE "NR" - NORMALLY OPEN****1/2" 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	DISCONTINUED -- USE 1/2" VALVE WITH BUSHING											
1/2	23	3/8	18NR22	25	0.5	1.5	18	7	7	6-1/8	2-3/4	2-3/4
	45	1/4	18NR42									
	70	3/16	18NR52									
	90	5/32	18NR82									
	135	1/8	18NR62									
	200	3/32	18NR72	45	1.0	2.7	23	10	7-7/8	7-1/8	3-1/2	2-3/4
	45	3/8	33NR22									
	70	5/16	33NR32									
	90	1/4	33NR42									
	135	3/16	33NR52									
270	1/8	33NR62										
3/4	13	1/2	18NR13	25	0.5	1.6	18	7	7-1/4	6-3/8	2-3/4	2-7/8
	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									

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BRONZE SOLENOID VALVES

Dependable • Packless

TYPE "A" FULL PORT - NORMALLY CLOSED

1/2" TO 3" 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:

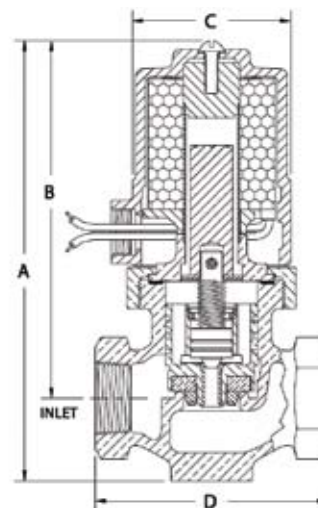
Valve opens when energized and closes when de-energized. When the coil is energized the pilot valve opens, relieving the pressure above the piston, which is then lifted from its seat by the plunger. Upon de-energizing the coil, a spring closes the pilot valve and opens a bleed passageway to permit pressure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



Pipe Size Inches	Max. Diff. PSI	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches			
								A	B	C	D
1/2	110	18A42	25	0.4	1.2	18	8	7	5-7/8	2-3/4	3-1/4
	200	18A32									
	300	18A52									
	500	E33A62	45	0.8	2.4	23	16	8	6-7/8	4-1/8	3-1/4
3/4	50	18A23	25	0.4	1.3	18	8	7-1/8	6	2-3/4	3-1/2
	110	18A43									
	160	118A43	40	0.6	2.0	28					
	200	33A33	45	0.8	2.6	23	12	8-1/8	7	3-1/2	3-1/2
	300	33A53									
	500	E133A63	65	1.2	3.9	33	17	8-1/8	7	4-1/8	3-1/2
1	50	18A24	25	0.4	1.5	18	10	7-7/8	6-5/8	2-3/4	4-1/8
	110	18A44									
	160	118A44	40	0.6	2.3	28					
	200	33A34	45	0.8	2.8	23	14	8-7/8	7-1/2	3-1/2	4-1/8
	300	33A54									
	500	E133A64	65	1.2	4.2	33	19	8-7/8	7-1/2	4-1/8	4-1/8
1-1/4	50	18A25	25	0.4	1.6	18	12	8-3/8	6-3/4	2-3/4	4-1/2
	90	18A45									
	150	118A45	40	0.6	2.4	28					
	200	33A35	45	0.8	3.0	23	16	9-3/8	7-3/4	3-1/2	4-1/2
	300	33A55									
	500	†† 40A65	60	1.2	6.2	N/A	20	10-3/8	8-3/4	4-1/2	4-1/2
1-1/2	50	35A26	45	0.8	3.2	23	20	10	8-1/8	4	4-7/8
	115	35A46									
	160	135A46	65	1.2	4.8	33					
	200	41A36	60	1.2	6.7	35	24	11	9-1/8	4-1/2	4-7/8
	300	41A56									
	500	141A66	85	2.0	10.0	45					
2	50	36A27	45	0.8	3.5	23	31	11	8-3/4	5-3/8	6
	100	36A47									
	150	136A47	65	1.2	5.0	33					
	200	42A37	60	1.2	7.4	35	36	12	9-3/4	5-3/8	6
	300	42A57									
	500	142A67	85	2.0	11.0	45					
2-1/2	50	43A28					43	12-7/8	10-1/8	5-7/8	7-1/4
	125	43A48	60	1.2	8.0	35					
	200	43A38									
	300	143A58	85	2.0	12.0	45					
3	50	44A29					56	13-3/4	10-1/2	6-5/8	8-3/8
	100	44A49	60	1.2	8.8	35					
	200	44A39									
	300	144A59	85	2.0	13.0	45					

**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)

†† Not available for DC operation

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Dependable • Packless

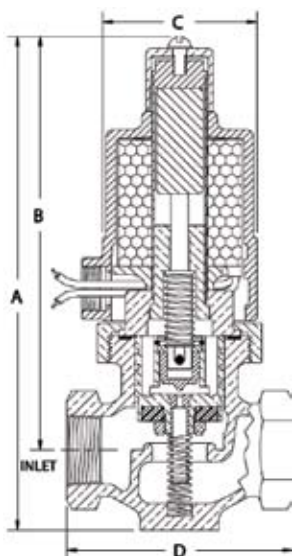


TYPE "AR" FULL PORT - NORMALLY OPEN 1/2" TO 3" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

OPERATION:

Valve closes when energized and opens when de-energized. When the coil is energized the plunger presses the poppet, closing the pilot orifice, and opens a bleed passageway to permit pressure to build above the piston and seat it. Upon de-energizing the coil, the pilot orifice is opened, relieving the pressure above the piston allowing it to leave its seat. The bottom spring allows the valve to operate at zero pressure drop.



**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)

†† Not available for DC operation

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 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

Except valves listed for 500 PSI

Pipe Size Inches	Max. Diff. PSI	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches			
								A	B	C	D
1/2	110	18AR42	25	0.5	1.5	18	8	8-1/8	7	2-3/4	3-1/4
	200	18AR32									
	300	18AR52									
3/4	500	E33AR62	45	1.0	2.7	23	16	9-3/8	8-1/4	4-1/8	3-1/4
	50	18AR23	25	0.5	1.6	18	9	8-1/4	7-1/8	2-3/4	3-1/2
	110	18AR43									
	200	33AR33									
	300	33AR53	45	1.0	2.9	23	13	9-1/4	8-1/8	3-1/2	3-1/2
1	500	E133AR63	65	1.5	4.3	33	18	9-1/2	8-3/8	4-1/8	3-1/2
	50	18AR24	25	0.5	1.8	18	11	9	7-3/4	2-3/4	4-1/8
	110	18AR44									
	200	33AR34									
	300	33AR54	45	1.0	3.0	23	14	10	8-5/8	3-1/2	4-1/8
1-1/4	500	E133AR64	65	1.5	4.5	33	19	10-1/4	8-7/8	4-1/8	4-1/8
	50	18AR25	25	0.5	1.9	18	13	9-3/4	8-1/8	2-3/4	4-1/2
	90	18AR45									
	200	33AR35									
	300	33AR55	45	1.0	3.2	23	17	10-3/4	9-1/8	3-1/2	4-1/2
1-1/2	500	†† 40AR65	60	1.7	6.2	N/A	21	11	9-3/8	4-1/2	4-1/2
	50	35AR26	45	1.0	3.8	23	21	11-3/8	9-1/2	4	4-7/8
	115	35AR46									
	200	41AR36									
	300	41AR56	60	1.7	6.5	35	25	11-5/8	9-3/4	4-1/2	4-7/8
2	500	141AR66	85	3.5	9.7	45					
	50	36AR27	45	1.0	4.2	23	31	12-3/8	10-1/8	5-3/8	6
	100	36AR47									
	200	42AR37									
	300	42AR57	60	1.7	7.3	35	36	12-5/8	10-3/8	5-3/8	6
2-1/2	500	142AR67	85	3.5	11.0	45					
	50	43AR28	60	1.7	8.0	35	45	13-1/2	10-3/4	5-7/8	7-1/4
	125	43AR48									
	200	43AR38									
	300	143AR58	85	3.5	13.0	45					
3	50	44AR29	60	1.7	8.8	35	57	14-3/8	11-1/8	6-5/8	8-3/8
	100	44AR49									
	200	44AR39									
	300	144AR59	85	3.5	13.0	45					

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BRONZE SOLENOID VALVES

Dependable • Packless

TYPE "M" - NORMALLY CLOSED 3/8" TO 3/4" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

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

OPERATION:

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

CONSTRUCTION: (* Wetted parts)

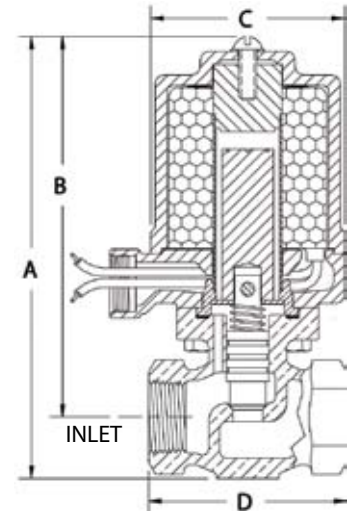
- *Valve Body - Cast Bronze, Globe Pattern - NPT ends
- Coil Enclosure - Malleable Iron, 1/2" NPS conduit conn.
- *Plunger - 430 Stainless Steel
- *Valve Stem - 303 Stainless Steel
- *Bonnet Tube - 304 Stainless Steel
- *Spring - Inconel
- *Body Seal - Non Asbestos Gasket
- *Orifice Seal - Metal to Metal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



**FOR OPTIONS & ACCESSORIES
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	25	3/8	10M21	25	0.4	1.1	18	6	6-1/4	5-1/2	2-7/8	2-5/8
	50	1/4	10M41									
	75	3/16	10M51									
	100	5/32	10M81									
	150	1/8	10M61									
	50	3/8	25M21	45	0.8	2.3	23	10	7-1/8	6-3/8	3-1/2	2-5/8
1/2	75	5/16	25M31									
	100	1/4	25M41									
	150	3/16	25M51									
	25	3/8	10M22	25	0.4	1.2	18	6	6-1/4	5-1/2	2-7/8	2-3/4
	50	1/4	10M42									
	75	3/16	10M52									
	100	5/32	10M82									
	150	1/8	10M62									
3/4	50	3/8	25M22	45	0.8	2.4	23	10	7-1/8	6-3/8	3-1/2	2-3/4
	75	5/16	25M32									
	100	1/4	25M42									
	150	3/16	25M52									
	15	1/2	10M13	25	0.4	1.3	18	7	6-1/2	5-5/8	2-7/8	2-7/8
	35	5/16	10M33									
	30	1/2	25M13	45	0.8	2.5	23	10	7-3/8	6-1/2	3-1/2	2-7/8
	75	5/16	25M33									

Strainers are recommended for use with solenoid valves
(See page 19)

When you order please supply the following:

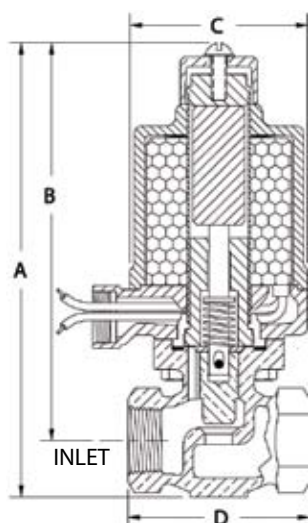
- Pipe Size
 - Valve Type
 - Voltage (AC or DC)
 - Hertz
 - Fluid
 - Fluid Temperature
 - Max. Diff. Pressure
 - Optional Features
- (See pages 24 & 25)

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.



**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	25	0.5	1.5	18	7	7	6-1/4	2-7/8	2-3/4
3/4	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	25	0.5	1.6	18	7	7-1/4	6-3/8	2-7/8	2-7/8
3/4	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

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BRONZE SOLENOID VALVES

Dependable • Packless

TYPE "S" FULL PORT - NORMALLY CLOSED 1/2" TO 3" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

MAX. FLUID TEMP.

400° F

MAX. STATIC PRESSURE

200 PSI



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

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 - Inconel

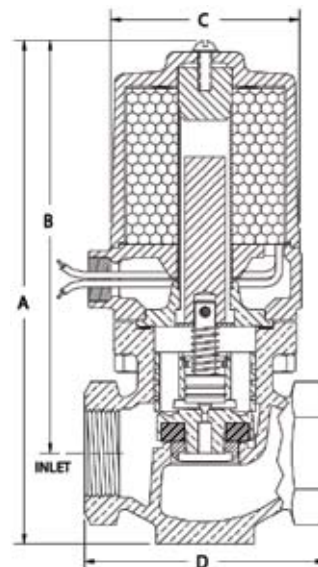
*Body Seal - Non Asbestos Gasket

*Orifice Seal - Glass Filled Teflon

*AC Shading Coil - Copper

*Stem Pin - Inconel

Coil - Encapsulated Class H, 18" leads



APPLICATION:

TO CONTROL THE FLOW OF STEAM. Steam must be 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.

Pipe Size Inches	Max. Diff. PSI	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches			
								A	B	C	D
1/2	90	† 14S22	25	0.4	1.2	18	8	7	5-7/8	2-7/8	3-1/4
	140	† 114S42	40	0.6	1.8	28					
	180	129S42	65	1.2	3.6	33	11	8	6-7/8	3-1/2	3-1/4
3/4	50	† 14S23	25	0.4	1.3	18	9	7-1/8	6	2-7/8	3-1/2
	110	† 114S43	40	0.6	2.0	28					
	180	129S43	65	1.2	3.9	33	12	8-1/8	7	3-1/2	3-1/2
1	25	† 16S14	25	0.4	1.5	18					
	50	† 116S24	40	0.6	2.3	28	11	8	6-5/8	3-1/4	4-1/8
	90	† 116S44									
	180	131S44	65	1.2	4.2	33	14	8-7/8	7-1/2	3-1/2	4-1/8
1-1/4	25	† 17S15	25	0.4	1.6	18	12	8-3/8	6-3/4	3-1/2	4-1/2
	50	† 117S25	40	0.6	2.4	28					
	140	132S45	65	1.2	4.5	33	16	9-3/8	7-3/4	3-5/8	4-1/2
	180	†† 140S45	85	2.0	9.2	N/A	20	10-3/8	8-3/4	4-1/2	4-1/2
1-1/2	25	35S16	45	0.8	3.2	23					
	50	35S26					20	10	8-1/8	4	4-7/8
	90	135S46	65	1.2	4.8	33					
	180	141S46	85	2.0	10.0	45	24	11	9-1/8	4-1/2	4-7/8
2	25	36S17	45	0.8	3.5	23	31	11	8-3/4	5-3/8	6
	50	36S27									
	115	42S47	60	1.2	7.4	35					
	180	142S47	85	2.0	11.0	45	36	12	9-3/4	5-3/8	6
2-1/2	25	43S18									
	50	43S28	60	1.2	8.0	35					
	115	43S48					43	12-7/8	10-1/8	5-7/8	7-1/4
	175	143S48	85	2.0	12.0	45					
3	25	44S19									
	50	44S29	60	1.2	8.8	35					
	100	44S49					56	13-3/4	10-1/2	6-5/8	8-3/8
	150	144S49	85	2.0	13.0	45					

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)

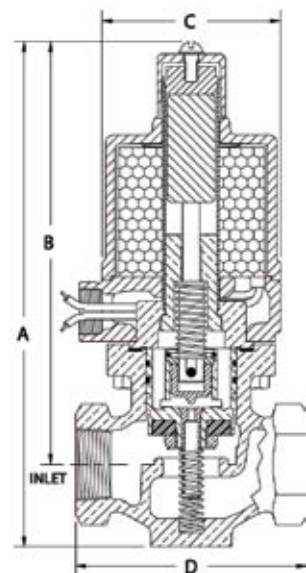
† UL Listed Valves - Consult Factory †† Not available for DC operation

BRONZE SOLENOID VALVES

Dependable • Packless

**TYPE "SR" FULL PORT - NORMALLY OPEN****1/2" TO 3" PIPE SIZE****NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN****OPERATION:**

Valve closes when energized and opens when de-energized. When the coil is energized the plunger presses the poppet, closing the pilot orifice, and opens a bleed passageway to permit pressure to build above the piston and seat it. Upon de-energizing the coil, the pilot orifice is opened, relieving the pressure above the piston allowing it to leave its seat. The bottom spring allows the valve to operate at zero pressure drop.

**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

*Poppet - 303 Stainless Steel

*Stem - 303 Stainless Steel

*Bonnet Tube - 304 Stainless Steel

*Springs - Inconel and 302 Stainless Steel

*Body Seal - Non Asbestos Gasket

*Orifice Seal - Glass Filled Teflon

*AC Shading Coil - Copper

*Stem Pin - 304 Stainless Steel

Coil - Encapsulated Class H, 18" leads

**MAX. FLUID TEMP.****400° F****MAX. STATIC PRESSURE****200 PSI****APPLICATION:**

TO CONTROL THE FLOW OF STEAM. Steam must be 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.

**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	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches			
								A	B	C	D
1/2	90	† 14SR22	25	0.5	1.5	18	8	8-1/8	7	2-7/8	3-1/4
	140	† 114SR42	40	0.8	2.4	28					
	180	† 129SR42	65	1.5	4.2	33	11	9-1/8	8	3-1/2	3-1/4
3/4	50	† 14SR23	25	0.5	1.6	18	9	8-1/4	7-1/8	2-7/8	3-1/2
	110	† 114SR43	40	0.8	2.6	28					
	180	† 129SR43	65	1.5	4.3	33	13	9-1/4	8-1/8	3-1/2	3-1/2
1	25	† 16SR14	25	0.5	1.8	18					
	50	† 116SR24	40	0.8	2.9	28	11	9-1/8	7-3/4	3-1/4	4-1/8
	90	† 116SR44									
1-1/4	180	† 131SR44	65	1.5	4.5	33	15	10	8-5/8	3-1/2	4-1/8
	25	† 17SR15	25	0.5	1.9	18					
	50	† 117SR25	40	0.8	3.0	28	13	9-3/4	8-1/8	3-1/2	4-1/2
	140	† 132SR45	65	1.5	4.8	33	17	10-3/4	9-1/8	3-5/8	4-1/2
1-1/2	180	†† 140SR45	85	3.5	9.0	N/A	20	11	9-3/8	4-1/2	4-1/2
	25	35SR16	45	1.0	3.8	23					
	50	35SR26					21	11-3/8	9-1/2	4	4-7/8
	90	135SR46	65	1.5	5.7	33					
2	180	141SR46	85	3.5	9.7	45	25	11-5/8	9-3/4	4-1/2	4-7/8
	25	36SR17	45	1.0	4.2	23	31	12-3/8	10-1/8	5-3/8	6
	50	36SR27									
	115	42SR47	60	1.7	7.3	35					
2-1/2	180	142SR47	85	3.5	11.0	45	36	12-5/8	10-3/8	5-3/8	6
	25	43SR18	60	1.7	8.0	35					
	50	43SR28					45	13-1/2	10-3/4	5-7/8	7-1/4
	115	43SR48									
3	175	143SR48	85	3.5	12.0	45					
	25	44SR19									
	50	44SR29	60	1.7	8.8	35					
	100	44SR49					57	14-3/8	11-1/8	6-5/8	8-3/8
	150	144SR49	85	3.5	13.0	45					

† UL Listed Valves - Consult Factory †† Not available for DC operation

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BRONZE SOLENOID VALVES

Dependable • Packless

TYPE "L" FULL PORT - NORMALLY CLOSED

1/2" TO 3" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

MAX. FLUID TEMP.

400° 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)

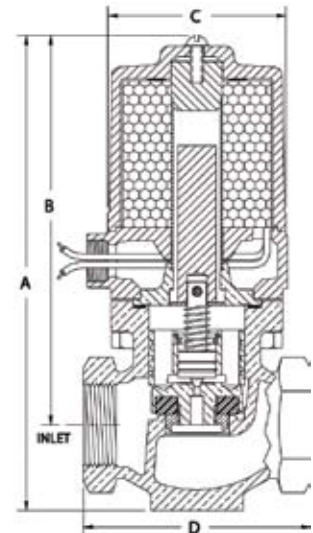
- *Valve Body - Cast Bronze, Globe Pattern - NPT ends
- *Piston - Bronze
- Coil Enclosure - Malleable or Cast Iron, 1/2" NPT conduit conn.
- *Plunger - 430 Stainless Steel
- *Pilot Valve - 303 Stainless Steel
- *Bonnet Tube - 304 Stainless Steel
- *Spring - Inconel
- *Body Seal - Non Asbestos Gasket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

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

**FOR
STEAM APPLICATIONS
SEE BULLETIN 3006-S
Page 12**

APPLICATION:

To control the flow of 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.



Pipe Size Inches	Max. Diff. PSI	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches			
								A	B	C	D
1/2	110	14L42	25	0.4	1.2	18	8	7	5-7/8	2-7/8	3-1/4
	200	14L32	45	0.8	2.4	23	11	8	6-7/8	3-1/2	3-1/4
	300	29L52	45	0.8	2.4	23	16	8	6-7/8	4	3-1/4
3/4	50	14L23	25	0.4	1.3	18	9	7-1/8	6	2-7/8	3-1/2
	110	14L43	45	0.8	2.6	23	12	8-1/8	7	3-1/2	3-1/2
	200	29L33	65	1.2	3.9	33	17	8-1/8	7	4	3-1/2
	300	129L53	65	1.2	3.9	33	17	8-1/8	7	4	3-1/2
	500	E129L63	65	1.2	3.9	33	17	8-1/8	7	4	3-1/2
1	50	16L24	25	0.4	1.5	18	11	8	6-5/8	3-1/4	4-1/8
	110	16L44	45	0.8	2.8	23	14	8-7/8	7-1/2	3-1/2	4-1/8
	200	31L34	65	1.2	4.2	33	19	8-7/8	7-1/2	4	4-1/8
	300	131L54	65	1.2	4.2	33	19	8-7/8	7-1/2	4	4-1/8
1-1/4	50	17L25	25	0.4	1.6	18	12	8-3/8	6-3/4	3-1/2	4-1/2
	90	17L45	45	0.8	3.0	23	16	9-3/8	7-3/4	3-5/8	4-1/2
	200	32L35	65	1.2	4.5	33	20	10-3/8	8-3/4	4-1/2	4-1/2
	300	132L55	85	2.0	9.2	N/A	20	10-3/8	8-3/4	4-1/2	4-1/2
1-1/2	50	35L26	45	0.8	3.2	23	20	10	8-1/8	4	4-7/8
	115	35L46	60	1.2	6.7	35	24	11	9-1/8	4-1/2	4-7/8
	200	41L36	85	2.0	10.0	45	24	11	9-1/8	4-1/2	4-7/8
	300	141L56	85	2.0	10.0	45	24	11	9-1/8	4-1/2	4-7/8
	500	141L66	85	2.0	10.0	45	24	11	9-1/8	4-1/2	4-7/8
2	50	36L27	45	0.8	3.5	23	31	11	8-3/4	5-3/8	6
	100	36L47	60	1.2	7.4	35	36	12	9-3/4	5-3/8	6
	200	42L37	85	2.0	11.0	45	36	12	9-3/4	5-3/8	6
	300	42L57	85	2.0	11.0	45	36	12	9-3/4	5-3/8	6
2-1/2	50	43L28	60	1.2	8.0	35	43	12-7/8	10-1/8	5-7/8	7-1/4
	125	43L48	85	2.0	12.0	45	43	12-7/8	10-1/8	5-7/8	7-1/4
	200	43L38	85	2.0	12.0	45	43	12-7/8	10-1/8	5-7/8	7-1/4
	300	143L58	85	2.0	12.0	45	43	12-7/8	10-1/8	5-7/8	7-1/4
3	50	44L29	60	1.2	8.8	35	56	13-3/4	10-1/2	6-5/8	8-3/8
	100	44L49	85	2.0	13.0	45	56	13-3/4	10-1/2	6-5/8	8-3/8
	200	44L39	85	2.0	13.0	45	56	13-3/4	10-1/2	6-5/8	8-3/8
	300	144L59	85	2.0	13.0	45	56	13-3/4	10-1/2	6-5/8	8-3/8

†† Not available for DC operation

** CLEANING

- Cryogenic valves are degreased & 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

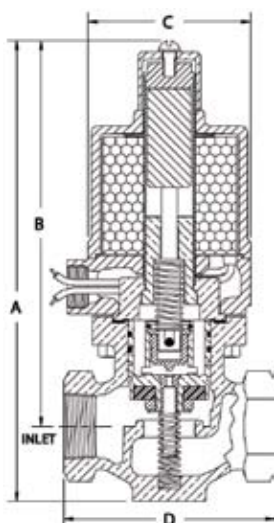
(See pages 24 & 25)

BRONZE SOLENOID VALVES

Dependable • Packless

**TYPE "LR" FULL PORT - NORMALLY OPEN****1/2" TO 3" PIPE SIZE****NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN****OPERATION:**

Valve closes when energized and opens when de-energized. When the coil is energized the plunger presses the poppet, closing the pilot orifice, and opens a bleed passageway to permit pressure to build above the piston and seal it. Upon de-energizing the coil, the pilot orifice is opened, relieving the pressure above the piston allowing it to leave its seat. The bottom spring allows the valve to operate at zero pressure drop.

**CONSTRUCTION:** (* Wetted parts)

- *Valve Body - Cast Bronze, Globe Pattern - NPT ends
- *Piston - Bronze
- Coil Enclosure - Malleable or Cast Iron, 1/2" NPT conduit conn.
- *Plunger - 430 Stainless Steel
- *Poppet - 303 Stainless Steel
- *Stem - 303 Stainless Steel
- *Bonnet Tube - 304 Stainless Steel
- *Springs - Inconel and 302 Stainless Steel
- *Body Seal - Non Asbestos Gasket
- *Orifice Seal - Glass Filled Teflon
- *AC Shading Coil - Copper
- *Stem Pin - 304 Stainless Steel
- Coil - Encapsulated Class H, 18" leads

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

**FOR
STEAM APPLICATIONS
SEE BULLETIN 3006-SR
Page 13**

**MAX. FLUID TEMP.****400° F****MAX. STATIC PRESSURE****300 PSI**

Except valves listed for 500 PSI

APPLICATION:

To control the flow of 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 & 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 24 & 25)

Pipe Size Inches	Max. Diff. PSI	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches			
								A	B	C	D
1/2	110	14LR42	25	0.5	1.5	18	8	8-1/8	7	2-7/8	3-1/4
	200	14LR32									
	300	29LR52	45	1.0	2.7	23	11	9-1/8	8	3-1/2	3-1/4
3/4	500	E29LR62	45	1.0	2.7	23	16	9-1/8	8	4	3-1/4
	50	14LR23	25	0.5	1.6	18	9	8-1/4	7-1/8	2-7/8	3-1/2
	110	14LR43									
	200	29LR33	45	1.0	2.9	23	13	9-1/4	8-1/8	3-1/2	3-1/2
	300	129LR53	65	1.5	4.3	33	18	9-1/4	8-1/8	4	3-1/2
1	500	E129LR63	65	1.5	4.3	33	18	9-1/4	8-1/8	4	3-1/2
	50	16LR24	25	0.5	1.8	18	11	9-1/8	7-3/4	3-1/4	4-1/8
	110	16LR44									
	200	31LR34	45	1.0	3.0	23	15	10	8-5/8	3-1/2	4-1/8
	300	131LR54	65	1.5	4.5	33	20	10	8-5/8	4	4-1/8
1-1/4	500	E131LR64	65	1.5	4.5	33	20	10	8-5/8	4	4-1/8
	50	17LR25	25	0.5	1.9	18	13	9-3/4	8-1/8	3-1/2	4-1/2
	90	17LR45									
	200	32LR35	45	1.0	3.2	23	17	10-3/4	9-1/8	3-5/8	4-1/2
	300	132LR55	65	1.5	4.8	33	20	11	9-3/8	4-1/2	4-1/2
1-1/2	500	††140LR65	85	3.5	9.0	N/A	20	11	9-3/8	4-1/2	4-1/2
	50	35LR26	45	1.0	3.8	23	21	11-3/8	9-3/8	4	4-7/8
	115	35LR46									
	200	41LR36	60	1.7	6.5	35	25	11-5/8	9-3/4	4-1/2	4-7/8
	300	141LR56	85	3.5	9.7	45	25	11-5/8	9-3/4	4-1/2	4-7/8
2	500	141LR66									
	50	36LR27	45	1.0	4.2	23	31	12-3/8	10-1/8	5-3/8	6
	100	36LR47									
	200	42LR37	60	1.7	7.3	35	36	12-5/8	10-3/8	5-3/8	6
	300	42LR57	85	3.5	11.0	45	36	12-5/8	10-3/8	5-3/8	6
2-1/2	500	142LR67									
	50	43LR28	60	1.7	8.0	35	45	13-1/2	10-3/4	5-7/8	7-1/4
	125	43LR48									
	200	43LR38									
	300	143LR58	85	3.5	12.0	45	45	13-1/2	10-3/4	5-7/8	7-1/4
3	50	44LR29	60	1.7	8.8	35	57	14-3/8	11-1/8	6-5/8	8-3/8
	100	44LR49									
	200	44LR39									
	300	144LR59	85	3.5	13.0	45	57	14-3/8	11-1/8	6-5/8	8-3/8

†† Not available for DC operation

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BRONZE SOLENOID VALVES

Dependable • Packless

MAX. FLUID TEMP.
212° F
MAX. STATIC PRESSURE
150 PSI

TYPE "G" FULL PORT - NORMALLY CLOSED

1" TO 3" PIPE SIZE

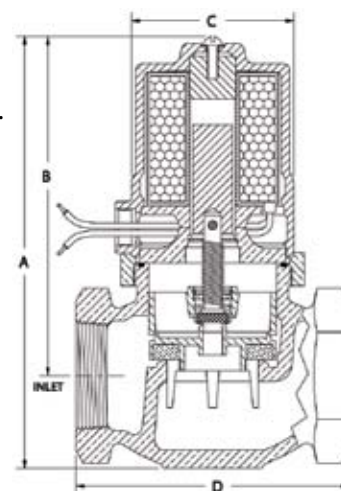
NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

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 Stem - 303 Stainless Steel
- *Pilot Valve Disc Holder - Brass
- *Pilot Valve Seal - Buna N (Viton available)
- *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)



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

APPLICATION:

To control the flow of Water, Air, Gas, Solvents, Vacuum and any other fluids not reactive with construction materials and free of sediment. Buna N seating of the pilot and main orifices make the valves ideal for TIGHT SEATING, LOW PRESSURE and LOW FLOW conditions. 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.

Strainers are recommended for use with solenoid valves
(See page 19)

Pipe Size Inches	Max. Diff. PSI	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches			
								A	B	C	D
1	20	† 18G24	25	0.4	1.4	18	9	7-1/2	6-1/8	2-3/4	4-1/8
	30	118G24	40	0.6	2.3	28	9	7-1/2	6-1/8	2-3/4	4-1/8
	50	133G24	65	1.2	4.0	33	13	8-1/2	7-1/8	3-1/2	4-1/8
1-1/4	20	† 18G25	25	0.4	1.5	18	10	8	6-3/8	2-7/8	4-3/8
	30	118G25	40	0.6	2.4	28	10	8	6-3/8	2-7/8	4-3/8
	50	133G25	65	1.2	4.1	33	14	8-7/8	7-3/8	3-1/2	4-3/8
1-1/2	15	† 18G26	25	0.4	1.7	18	12	8-1/8	6-1/2	3-1/8	4-3/4
	25	118G26	40	0.6	2.5	28	12	8-1/8	6-1/2	3-1/8	4-3/4
	35	133G26	65	1.2	4.2	33	16	9-1/8	7-1/2	3-1/2	4-3/4
2	18	33G27	45	0.8	3.4	23	20	9-7/8	7-7/8	3-3/4	5-3/4
	30	133G27	65	1.2	4.2	33	20	9-7/8	7-7/8	3-3/4	5-3/4
	50	233G27	80	1.8	9.0	40	20	9-7/8	7-7/8	3-3/4	5-3/4
2-1/2	13	37G28	40	0.8	3.6	23	33	11-1/8	8-5/8	5-7/8	7-1/8
	25	43G28	60	1.2	7.8	35	38	12-1/8	9-5/8	5-7/8	7-1/8
	35	143G28	85	2.0	12.0	45	38	12-1/8	9-5/8	5-7/8	7-1/8
3	25	44G29	60	1.2	8.6	35	46	13	10	6-5/8	8
	35	144G29	85	2.0	13.0	45	46	13	10	6-5/8	8

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)

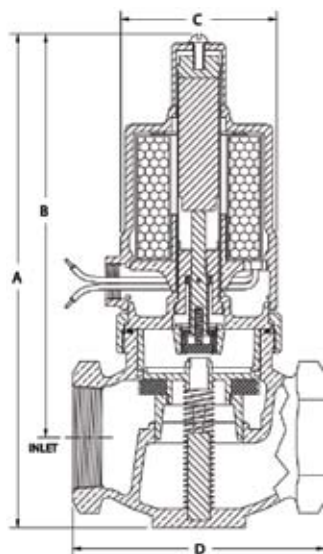
† UL Listed Valves - Consult Factory

BRONZE SOLENOID VALVES

Dependable • Packless


TYPE "GR" FULL PORT - NORMALLY OPEN
1" TO 3" PIPE SIZE
NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN
OPERATION:

Valve closes when energized and opens when de-energized. When the coil is energized the plunger presses the poppet, closing the pilot orifice, and opens a bleed passageway to permit pressure to build above the piston and seat it. Upon de-energizing the coil, the pilot orifice is opened, relieving the pressure above the piston allowing it to leave its seat. The bottom spring allows the valve to operate at zero pressure drop.



Strainers are recommended for use with solenoid valves
(See page 19)

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 Stem - 303 Stainless Steel
- *Pilot Valve Disc Holder - Brass
- *Pilot Valve Seal - Buna N (Viton available)
- *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 Water, Air, Gas, Solvents, Vacuum and any other fluids not reactive with construction materials and free of sediment. Buna N seating of the pilot and main orifices make the valves ideal for TIGHT SEATING, LOW PRESSURE and LOW FLOW conditions. 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 24 & 25**

**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	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches			
								A	B	C	D
1	20	† 18GR24	25	0.5	1.5	18	9	8-5/8	7-1/4	2-3/4	4-1/8
	35	33GR24	45	1.0	3.0	23	13	9-5/8	8-1/4	3-1/2	4-1/8
1-1/4	20	† 18GR25	25	0.5	1.9	18	10	9-3/8	7-3/4	2-7/8	4-3/8
	35	33GR25	45	1.0	3.2	23	14	10-1/4	8-3/4	3-1/2	4-3/8
1-1/2	15	† 18GR26	25	0.5	2.0	18	12	9-1/2	7-7/8	3-1/8	4-3/4
	25	33GR26	45	1.0	3.8	23	16	10-1/2	8-7/8	3-1/2	4-3/4
2	18	33GR27	45	1.0	4.2	23	21	11-1/4	9-1/4	3-3/4	5-3/4
	30	133GR27	65	1.5	4.5	33	21	11-1/4	9-1/4	3-3/4	5-3/4
2-1/2	13	37GR28	45	1.0	4.4	23	34	12-1/2	10	5-7/8	7-1/8
	25	43GR28	60	1.7	8.0	35	39	12-3/4	10-1/4	5-7/8	7-1/8
3	25	44GR29	60	1.7	8.8	35	47	13-5/8	10-5/8	6-5/8	8

† UL Listed Valves - Consult Factory

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BRONZE SOLENOID VALVES

Dependable • Packless

TYPE "D" FULL PORT - NORMALLY CLOSED

3/8" TO 2" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

MAX. FLUID TEMP.

212° F

MAX. STATIC PRESSURE

150 PSI

OPERATION:

Valve opens when energized and closes when de-energized. In this direct acting valve the disc holder assembly is lifted from its seat by the plunger.

CONSTRUCTION: (* Wetted parts)

*Valve Body - Cast Bronze, Globe Pattern - NPT ends

*Disc Holder - Brass

Coil Enclosure - Malleable or Cast Iron, 1/2" NPS conduit conn.

*Plunger - 430 Stainless Steel

*Stem - 303 Stainless Steel

*Bonnet Tube - 304 Stainless Steel

*Spring - 302 Stainless Steel

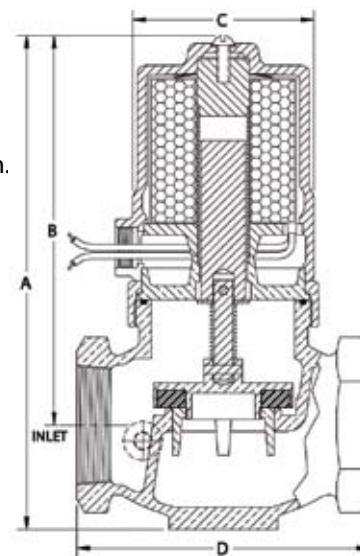
*Body Seal - Buna N

*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 Water, Air, Gas, Solvents, Vacuum

and any other fluids not reactive with construction materials and free of sediment. Buna N seating of the main orifice make the valves ideal for TIGHT SEATING, LOW PRESSURE and LOW FLOW conditions. 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.

Strainers are recommended for use with solenoid valves

(See page 19)

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



Pipe Size Inches	Max. Diff. PSI	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	15	18D11	25	0.4	1.0	18	7	6-1/4	5-3/8	2-3/4	2-7/8
	30	33D11	45	0.8	2.3	23	10	7-1/8	6-3/8	3-1/2	2-7/8
1/2	10	18D12	25	0.4	1.1	18	7	6-1/4	5-1/2	2-3/4	3-1/8
	20	33D12	45	0.8	2.4	23	10	7-1/4	6-3/8	3-1/2	3-1/8
3/4	4	18D13	25	0.4	1.2	18	8	6-7/8	5-3/4	2-3/4	3-1/2
	7.5	33D13	45	0.8	2.5	23	12	7-3/4	6-3/4	3-1/2	3-1/2
1	2	18D14	25	0.4	1.4	18	9	7-1/2	6-1/8	2-3/4	4-1/8
	3.5	33D14	45	0.8	2.7	23	13	8-1/2	7-1/8	3-1/2	4-1/8
1-1/4	1.3	18D15	25	0.4	1.5	18	10	8	6-3/8	2-7/8	4-3/8
	2.3	33D15	45	0.8	2.8	23	14	8-7/8	7-3/8	3-1/2	4-3/8
1-1/2	0.8	18D16	25	0.4	1.7	18	12	8-1/8	6-1/2	3-1/8	4-3/4
	1.5	† 33D16	45	0.8	3.0	23	15	9-1/8	7-1/2	3-1/2	4-3/4
2	0.8	33D17	45	0.8	3.4	23	19	9-7/8	7-7/8	3-3/4	5-3/4
	1.2	† 133D17	65	1.2	4.2	33	19	9-7/8	7-7/8	3-3/4	5-3/4

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)

† UL Listed Valves - Consult Factory

STRAINERS

Bronze • Stainless Steel



APPLICATION:

The presence of foreign particles in an automatic valve may seriously affect its dependability. The installation of a strainer close to the inlet side of the valve is the best means of preventing the entrance of pipe chips, scale, rust, pipe dope, welding slag or sediment into the valve, provided the screen is periodically removed for cleaning.

CONSTRUCTION:

Strainer bodies have screwed ends. Screens are stainless steel with opening sizes as listed in tables below. Other sizes can be furnished upon request. Liberal straining area provides for fluid passage at minimum pressure drop. Screens are easily removed for cleaning. Strainers are furnished with NPT blow-off connections unplugged. See charts below for blow-off sizes (C Dim.)

CLEANING FOR CRYOGENIC & OXYGEN SERVICE:

- Strainers for Cryogenic applications are degreased and cleaned to keep them free of moisture.
- Strainers for Oxygen service are degreased and cleaned then "black light" tested.



BRONZE 1/4" TO 3" PIPE SIZE

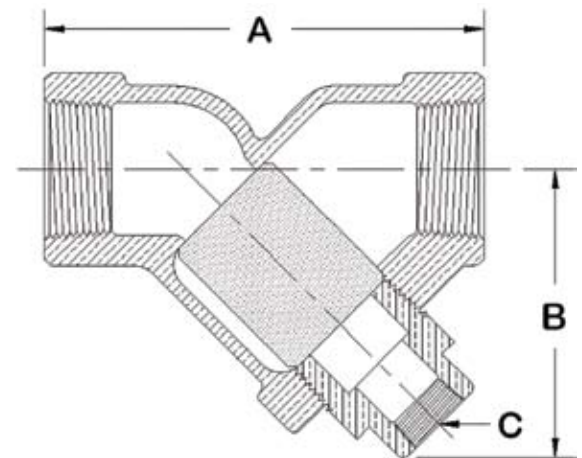
Pipe Size Inches	Screen Size	Type No.	Ship Wt. Lbs.	Dimensions In Inches		
				A	B	C
1/4	60 Mesh 0.009 Openings	ST 0	3/4	2-3/4	2-1/4	1/4
3/8		ST 1	3/4	2-3/4	2-1/4	1/4
1/2		ST 2	3/4	2-3/4	2-1/4	1/4
3/4		ST 3	1-1/2	3	2-9/16	3/8
1		ST 4	2-1/4	3-3/4	2-3/4	3/8
1-1/4	0.16 Diameter Perforations Lined With 30 Mesh	ST 5	3-1/4	4-7/16	3-5/8	3/4
1-1/2		ST 6	4-1/2	4-15/16	3-7/8	3/4
2		ST 7	7	6-1/8	5-1/16	1
2-1/2		ST 8	12-1/2	8-1/4	6	1-1/4
3		ST 9	18	9	6-3/4	1-1/2

STAINLESS STEEL 1/2" TO 2" PIPE SIZE

Pipe Size Inches	Screen Size	Type No.	Ship Wt. Lbs.	Dimensions In Inches		
				A	B	C
1/2	60 Mesh 0.009 Openings	ST 2SS	1-1/2	3	2-3/8	1/4
3/4		ST 3SS	2-1/4	3-3/4	2-13/16	3/8
1		ST 4SS	3-1/4	4-5/8	3-1/8	3/8
1-1/2	0.16 Diameter Perforations Lined w/30 Mesh	ST 6SS	6-3/4	5-5/8	4-3/4	3/4
2		ST 7SS	11-1/2	7	6	1

PRESSURE TEMPERATURE RATINGS

MATERIAL	STEAM	LIQUIDS
BRONZE	300 PSI @ 400°F	600 PSI @ 100°F
STAINLESS STEEL	845 PSI @ 750°F	1,440 PSI @ 100°F





STAINLESS STEEL SOLENOID VALVES

Dependable • Packless

TYPE "K" FULL PORT - NORMALLY CLOSED 1/2" TO 3" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

MAX. FLUID TEMP.

400° 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 - No Copper Bearing Alloys in contact with fluid)

*Valve Body - 304 Stainless Steel Globe Pattern - NPT ends

(For Flanged Ends see Options page 24)

*Piston - 303 Stainless Steel

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 - Inconel

*Body Seal - Non Asbestos Gasket

*Orifice Seal - Glass Filled Teflon

*AC Shading Coil - Silver

*Stem Pin - Inconel

Coil - Encapsulated Class H, 18" leads

**FOR
STEAM APPLICATIONS
SEE BULLETIN 3006-W
Page 22**

APPLICATION:

To control the flow of Corrosive Fluids, Deionized Water, Condensate, Ammonias, Vegetable Oils, Fuel Oils, Cryogenics, Flammable Liquids.** 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 24 & 25

Pipe Size Inches	Max. Diff. PSI	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches					
								A	B	C	D NPT	D (Flanged)	
												150#	300#
1/2	110	14K42	25	0.4	1.2	18	7	7	5-7/8	2-7/8	3-1/4	6	6-1/2
	200	14K32											
	300	29K52	45	0.8	2.4	23	10	8	6-7/8	3-1/2			
	500	E29K62					15			4			
3/4	110	14K43	25	0.4	1.3	18	8	7-1/8	6	2-7/8	3-1/2	6	6-1/2
	200	29K33	45	0.8	2.6	23	11	8-1/8	7	3-1/2			
	300	129K53								4			
	500	E129K63	65	1.2	3.9	33	16						
1	110	16K44	25	0.4	1.5	18	10	8	6-5/8	3-1/4	4-1/8	6-1/2	7-1/2
	200	31K34	45	0.8	2.8	23	13	8-7/8	7-1/2	3-1/2			
	300	131K54								4			
	500	E131K64	65	1.2	4.2	33	18						
1-1/2	115	35K46	45	0.8	3.2	23	17	10	8-1/8	4	4-7/8	6-1/2	7-1/2
	200	41K36	60	1.2	6.7	35		11	9-1/8	4-1/2			
	300	141K56											
	500	141K66	85	2.0	10.0	45	21						
2	100	36K47	45	0.8	3.5	23	27	11	8-3/4		6	8	9
	200	42K37	60	1.2	7.4	35		12	9-3/4	5-3/8			
	300	42K57											
	500	142K67	85	2.0	11.0	45							
3	100	44K49F1	60	1.2	8.8	35	68	13-3/4	10-1/2	6-5/8	N/A	9-1/2	N/A
	200	44K39F1										N/A	12-1/2
	300	144K59F3	85	2.0	13.0	45	81						

Shipping Weights above apply to Threaded Ends Only (except 3" which are Flanged Only)

For Flanged Ends contact factory for complete weight and dimensions

3" STAINLESS STEEL VALVES ARE SUPPLIED WITH FLANGED ENDS ONLY

** CLEANING

- Cryogenic valves are degreased & 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 24 & 25)



TYPE "KR" FULL PORT - NORMALLY OPEN
1/2" TO 3" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

OPERATION:

Valve closes when energized and opens when de-energized. When the coil is energized the plunger presses the poppet, closing the pilot orifice, and opens a bleed passageway to permit pressure to build above the piston and seat it. Upon de-energizing the coil, the pilot orifice is opened, relieving the pressure above the piston allowing it to leave its seat. The bottom spring allows the valve to operate at zero pressure drop.

CONSTRUCTION:

(*Wetted parts - No Copper Bearing Alloys in contact with fluid)

*Valve Body - 304 Stainless Steel Globe Pattern - NPT ends

(For Flanged Ends see Options page 24)

*Piston - 303 Stainless Steel

Coil Enclosure - Malleable or Cast Iron, 1/2 "NPS conduit conn.

*Plunger - 430 Stainless Steel

*Poppet - 303 Stainless Steel

*Stem - 303 Stainless Steel

*Bonnet Tube - 304 Stainless Steel

*Spring - Inconel

*Body Seal - Non Asbestos Gasket

*Orifice Seal - Glass Filled Teflon

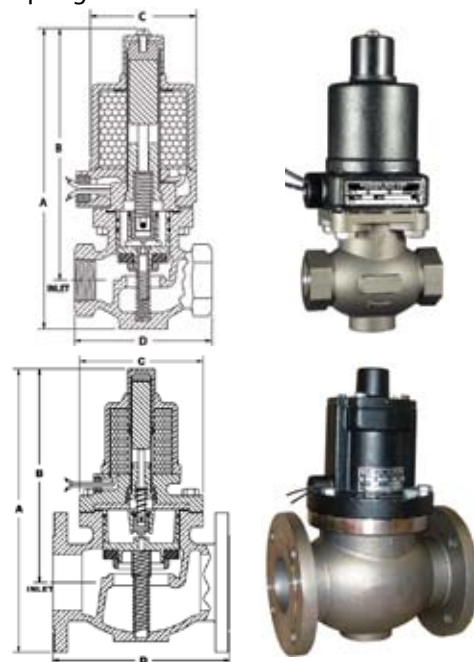
*AC Shading Coil - Silver

*Stem Pin - 304 Stainless Steel

Coil - Encapsulated Class H, 18" leads

APPLICATION:

To control the flow of Corrosive Fluids, Deionized Water, Condensate, Ammonias, Vegetable Oils, Fuel Oils, Cryogenics, Flammable Liquids.** 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
STEAM APPLICATIONS
SEE BULLETIN 3006-WR
Page 23**

**** CLEANING**

- Cryogenic valves are degreased & 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 24 & 25)

FOR OPTIONS & ACCESSORIES SEE PAGES 24 & 25

Pipe Size Inches	Max. Diff. PSI	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches							
								A	B	C	D	D (Flanged)			
												150#	300#		
1/2	110 200	14KR42 14KR32	25	0.5	1.5	18	7	8-1/8	7	2-7/8	3-1/4	6	6-1/2		
	300 500	29KR52 E29KR62	45	1.0	2.7	23	10 15	9-1/8	8	3-1/2 4					
	110 200	14KR43 29KR33	25 45	0.5 1.0	1.6 2.9	18 23	8 12	8-1/4	7-1/8	2-7/8 3-1/2					
3/4	300 500	129KR53 E129KR63	65	1.5	4.3	33	17	9-1/4	8-1/8	4	3-1/2	6	6-1/2		
	110 200	16KR44 31KR34	25 45	0.5 1.0	1.8 3.0	18 23	10 14	9-1/8	7-3/4	3-1/4 3-1/2					
	300 500	131KR54 E131KR64	65	1.5	4.5	33	20	10	8-5/8	4					
1	115 200	35KR46 41KR36	45 60	1.0 1.7	3.8 6.5	23 35	18 22	11-3/8	9-1/2	4	4-1/8	6-1/2	7-1/2		
	300 500	141KR56 141KR66	85	3.5	9.7	45	22	11-5/8	9-3/4	4-1/2					
	110 200	36KR47 42KR37	45 60	1.0 1.7	4.2 7.3	23 35	27 32	12-3/8	10-1/8	5-3/8					
2	300 500	42KR57 142KR67	85	3.5	11.0	45	32	12-5/8	10-3/8	6	8	9			
	100 200	44KR49F1 44KR39F1	60	1.7	8.8	35	69	14-3/8	11-1/8	6-5/8			N/A	9-1/2	N/A
	300	144KR59F3	85	3.5	13.0	45	82								

Shipping Weights above apply to Threaded Ends Only (except 3" which are Flanged Only)

For Flanged Ends contact factory for complete weight and dimensions

3" STAINLESS STEEL VALVES ARE SUPPLIED WITH FLANGED ENDS ONLY

MAGNATROL VALVE CORPORATION

Magnatrol Valve Corporation • P.O. Box 17 • 67 Fifth Avenue • Hawthorne • New Jersey • 07507
info@magnatrol.com • Phone: 973-427-4341 • Fax: 973-427-7611 • www.magnatrol.com



STAINLESS STEEL SOLENOID VALVES

Dependable • Packless

TYPE "W" FULL PORT - NORMALLY CLOSED

1/2" TO 3" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

MAX. FLUID TEMP.

400° F

MAX. STATIC PRESSURE

200 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 - No Copper Bearing Alloys in contact with fluid)

*Valve Body - 304 Stainless Steel Globe Pattern - NPT ends

(For Flanged Ends see Options page 24)

*Piston - 303 Stainless Steel

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 - Inconel

*Body Seal - Non Asbestos Gasket

*Orifice Seal - Glass Filled Teflon

*AC Shading Coil - Silver

*Stem Pin - Inconel

Coil - Encapsulated Class H, 18" leads

APPLICATION:

To control the flow of STEAM. Steam must be 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.

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

Pipe Size Inches	Max. Diff. PSI	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches										
								A	B	C	D	D (Flanged)						
												150#						
1/2	90	14W22	25	0.4	1.2	18	7	7	5-7/8	2-7/8	3-1/4	6						
	140	114W42	40	0.6	1.8	28	10	8	6-7/8	3-1/2								
	180	129W42	65	1.2	3.6	33												
3/4	50	14W23	25	0.4	1.3	18	8	7-1/8	6	2-7/8	3-1/2	6						
	110	114W43	40	0.6	2.0	28	11	8-1/8	7	3-1/2								
	180	129W43	65	1.2	3.9	33												
1	25	16W14	25	0.4	1.5	18	10	8	6-5/8	3-1/4	4-1/8	6-1/2						
	50	116W24	40	0.6	2.3	28												
	90	116W44																
	180	131W44	65	1.2	4.2	33	13	8-7/8	7-1/2	3-1/2								
1-1/2	25	35W16	45	0.8	3.2	23	17	10	8-1/8	4	4-7/8	6-1/2						
	50	35W26																
	90	135W46	65	1.2	4.8	33	21	11	9-1/8	4-1/2								
	180	141W46	85	2.0	10.0	45												
2	25	36W17	45	0.8	3.5	23	27	11	8-3/4	5-3/8	6	8						
	50	36W27																
	115	42W47	60	1.2	7.4	35	32	12	9-3/4									
	180	142W47	85	2.0	11.0	45												
3	25	44W19F1	60	1.2	8.8	35	68	13-3/4	10-1/2	6-5/8	N/A	9-1/2						
	50	44W29F1																
	100	44W49F1																
	150	144W49F1											85	2.0	13.0	45		

Shipping Weights above apply to Threaded Ends Only (except 3" which are Flanged Only)

For Flanged Ends contact factory for complete weight and dimensions

3" STAINLESS STEEL VALVES ARE SUPPLIED WITH FLANGED ENDS ONLY

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)

STAINLESS STEEL SOLENOID VALVES

Dependable • Packless



TYPE "WR" FULL PORT - NORMALLY OPEN

1/2" TO 3" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

OPERATION:

Valve closes when energized and opens when de-energized. When the coil is energized the plunger presses the poppet, closing the pilot orifice, and opens a bleed passageway to permit pressure to build above the piston and seat it. Upon de-energizing the coil, the pilot orifice is opened, relieving the pressure above the piston allowing it to leave its seat. The bottom spring allows the valve to operate at zero pressure drop.

CONSTRUCTION:

(*Wetted parts - No Copper Bearing Alloys in contact with fluid)

*Valve Body - 304 Stainless Steel Globe Pattern - NPT ends

(For Flanged Ends see Options page 24)

*Piston - 303 Stainless Steel

Coil Enclosure - Malleable or Cast Iron, 1/2" NPS conduit conn.

*Plunger - 430 Stainless Steel

*Poppet - 303 Stainless Steel

*Stem - 303 Stainless Steel

*Bonnet Tube - 304 Stainless Steel

*Spring - Inconel

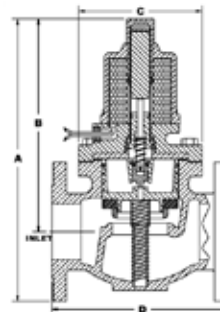
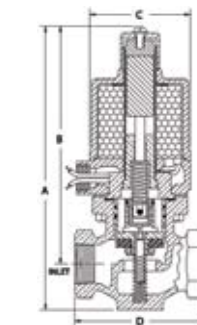
*Body Seal - Non Asbestos Gasket

*Orifice Seal - Glass Filled Teflon

*AC Shading Coil - Silver

*Stem Pin - 304 Stainless Steel

Coil - Encapsulated Class H, 18" leads



FOR OPTIONS & ACCESSORIES

SEE PAGES 24 & 25

APPLICATION:

To control the flow of STEAM. Steam must be 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.

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	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches				
								A	B	C	D	D (Flanged 150#
1/2	90	14WR22	25	0.5	1.5	18	7	8-1/8	7	2-7/8	3-1/4	6
	140	114WR42	40	0.8	2.4	28	10	9-1/8	8	3-1/2		
	180	129WR42	65	1.5	4.2	33						
3/4	50	14WR23	25	0.5	1.6	18	8	8-1/4	7-1/8	2-7/8	3-1/2	6
	110	114WR43	40	0.8	2.6	28	12	9-1/4	8-1/8	3-1/2		
	180	129WR43	65	1.5	4.3	33						
1	25	16WR14	25	0.5	1.8	18	10	9-1/8	7-3/4	3-1/4	4-1/8	6-1/2
	50	116WR24	40	0.8	2.9	28						
	90	116WR44	40	0.8	2.9	28						
1-1/2	180	131WR44	65	1.5	4.5	33	14	10	8-5/8	3-1/2	4-7/8	6-1/2
	25	35WR16	45	1.0	3.8	23	18	11-3/8	9-1/2	4		
	50	35WR26	45	1.0	3.8	23						
	90	135WR46	65	1.5	5.7	33						
2	180	141WR46	85	3.5	9.7	45	22	11-5/8	9-3/4	4-1/2	6	8
	25	36WR17	45	1.0	4.2	23	27	12-3/8	10-1/8	5-3/8		
	50	36WR27	45	1.0	4.2	23						
	115	42WR47	60	1.7	7.3	35						
3	180	142WR47	85	3.5	11.0	45	32	12-5/8	10-3/8	N/A	9-1/2	
	25	44WR19F1	60	1.7	8.8	35	69	14-3/8	11-1/8			6-5/8
	50	44WR29F1										
	100	44WR49F1										
150	144WR49F1	85	3.5	13.0	45							

Shipping Weights above apply to Threaded Ends Only (except 3" which are Flanged Only)

For Flanged Ends contact factory for complete weight and dimensions

3" STAINLESS STEEL VALVES ARE SUPPLIED WITH FLANGED ENDS ONLY

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OPTIONAL FEATURES

For Dependable • Packless Solenoid Valves

See Individual Options For Availability For Use With Specific Valve Types

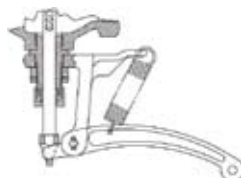
BOTTOM MOUNTED OPTIONS Note: Only One Bottom Mount Option Can Be Installed On Each Valve

MANUAL OVERRIDE



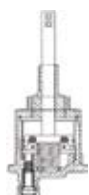
(Normally Closed valves only)
(Designated by Prefix "MO")
Enables manual opening of solenoid valve during power failure or to override automatic controls.

LEVER



(Normally Closed valves only)
(Designated by Prefix "LV")
Enables rapid opening of solenoid valve. Can be chain operated for use at inaccessible locations.

DASHPOT



(Designated by Prefix "DP")
Furnished for clean liquids to reduce water hammer effect sometimes encountered in long pipe runs by slowing valve closing.

FLOW CONTROL



(Normally Closed, NR & MR valves, only)
(Designated by Prefix "FC")
Provides a manual method of reducing or throttling the flow.

MOUNTING STUD



(Designated by Prefix "MS")
3/8"-16 thread can be furnished in bottom of body to facilitate mounting on bracket. (Not available on 2", 2-1/2" and 3")

DRAIN



(Normally Closed, NR & MR valves, only)
(Designated by Prefix "DR") - 1/4" NPT plug supplied in bottom of valve to facilitate draining of liquid from valve body.

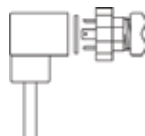
OTHER OPTIONS

PILOT TAP



(Designated by Prefix "PT")
Type D, G & GR Valves can be furnished with 1/8" tapped hole for pilot connection or pressure gauge.

DIN CONNECTOR



(Designated by Suffix "DN")
Provides 3 prong connector for easy power connect / disconnect.
Not available for Explosion-Proof.

"HUM FREE": (No AC Hum/Buzz)

(Designated by Suffix "HF") - The "HUM FREE" option eliminates the "AC hum" associated with AC operated solenoid valves. Enables valves to be used where an AC hum would not be acceptable and AC is the only power source available. IE: Hospitals, labs, schools (class rooms), homes, office environments etc. & when 24 vac is required for 40 series valves.

Leak / Dead Tight:

(Normally Closed valves only)
(Designated by Suffix "LT") - The Leak / Dead Tight Option offers 'soft' resilient seating or 'gapless' seal for low pressure applications 50 PSI or less. Consult Factory for Max. Diff. Pressure and Valve Type availability.

Flanged Ends for SS Valves:

(Designated by Suffix "F1" for 150 lb or "F3" for 300 lb Flanges) Available on stainless steel valves. (Flanged ends for bronze valves available through our Clark-Cooper Division, see bottom of page 3).

Explosion-Proof and Watertight Solenoids:

(Designated by Prefix "F") - are Explosion-proof and NEMA 4, 7C & D, 9E, F & G suitable for use in hazardous locations requiring Class I, Groups C & D & Class II Groups E, F, and G equipment.

NEMA 4X:

(Designated by Prefix "F" AND Suffix "ZP") - are suitable for use in locations requiring a NEMA 4X designation. "ZP" (Zinc Plating) replaces the standard paint used on the Coil housing (cup and base). The additional corrosion protection satisfies NEMA 4X requirements. Internal construction, pressure ratings, power consumption, and external dimensions are the same as for standard valves.

Nickel Plating:

(Designated by Suffix "NP") - Plating is 0.0005" Thick Meets Mil Spec. C26074

Universal Mount Valves For Mounting In Vertical Pipe Runs
(See Magnetrol Universal Mount Catalog 3006-UM)

POSITION INDICATORS

For Normally Closed Solenoid Valves



Position Switches

CONSTRUCTION:

Housing - 316 Stainless Steel with 1/2" NPT Conduit Connection

Contact - SPDT (Single Pole/Double Throw)

Lead Wires - 36 inches long, 18 gauge standard leads potted-in PVC

OPERATION:

Switch is activated by a ferromagnetic "target" attached to the valve's piston



PS shown with valve body adaptor

"PS" - General Purpose/NEMA 4, 4X
"PSF" - Explosion Proof

SPDT Contact

Electrical Rating:

4A @ 120 VAC / 3A @ 24 VDC

2A @ 240 VAC / 1.25A @ 48 VDC

0.5A @ 125 VDC & 250 VDC

The PS and PSF can be wired AC or DC, N/O or N/C, consume no power to operate, and leave no current leakage or voltage drop



PS General Purpose & Water Tight (SPDT Switch) shown on 3" Stainless Steel Valve

Position Switches With LED Visual Indication



Position Switch on right shown energizing Red LED

"PL" - General Purpose/NEMA 4, 4X
"PLF" - Explosion Proof

SPDT Contact

Electrical Rating:

0.25A @ 120 VAC / 3A @ 24 VDC

(3A @ 120 VAC / 2A @ 24 VDC without the LEDs)

The PL and PLF can be wired AC or DC, N/O or N/C

Ambiant Temperature: -40°F to 221°F (106°C)

NOTE: ONLY ONE BOTTOM MOUNTED OPTION CAN BE INSTALLED ON EACH VALVE

For multiple switches and where a switch and a bottom mounted option are required, contact our Clark Cooper Division.

(See bottom of Page 3)

Position Display - Visual Indication ONLY

"PD" - General Purpose / NEMA 4, 4X / Explosion Proof

CONSTRUCTION:

Housing - Clear High-Strength Polycarbonate

APPLICATION:

Visual indication that valve is Open / Closed

OPERATION:

When the valve is in the closed position, a ferromagnetic "target" attached to the valve's piston, lifts a green colored magnet into the adapter hiding it from view. When the valve is energized, (open position), the magnet drops down to a visible position.

Position Indicators for Normally Closed Valve Only
Available on Type A, S, L, K, W & G Valves



HOW TO ORDER:

Indicate Option when Ordering:

Use the appropriate Prefix:
 PS, PSF, PL, PLF, or PD

Example:

PS18A44 indicates a Position Switch mounted on a Type 18A44 valve.

**REQUEST A QUOTE****Fill In The Information Below**

If you have any questions or wish to request a quote:

Phone: 973-427-4341 • Fax: 973-427-7611**E-Mail: info@magnetrol.com****We appreciate the opportunity to quote on your requirements.****For immediate quote** – Fill in the information below and CALL: 973-427-4341**For same day quote** – Fill in the information below and FAX: 973-427-7611**For quote within 24 hrs** – Go online to www.magnetrol.com, and go to Quick Quote**YOUR COMPANY DATA****Company Name:** _____ **Phone:** _____**Contact (Your Name):** _____ **Fax:** _____**Your RFQ Reference (If Any):** _____**Type of Business:** ☐ OEM ☐ Re-Seller ☐ Consumer/End User**E-Mail:** _____**VALVE DATA****Desired Delivery:** _____**Your Reference (Optional):** _____**Quantity:** _____**Valve Construction Material:** ☐ Bronze or ☐ Stainless Steel**Pipe Size:** (1/4" thru 3"): _____**Normally:** ☐ **Closed** (Energize To Open) or ☐ **Open** (Energize To Close)**Voltage:** ☐ **AC:** _____ Volts/_____ Hz or ☐ **DC:** _____ Volts**Maximum Differential Pressure:** _____ PSI**Fluid:** _____**Maximum Fluid Temperature:** _____ °F**Optional Feature:** (See Optional Feature Details On Pages 24 & 25)Choose One (1) Of The Following Per Valve: ☐ MO ☐ LV ☐ DP ☐ FC ☐ MS ☐ DR ☐ PD ☐ PS ☐ PLAdditional Options: ☐ HF ☐ LT ☐ NP ☐ PT ☐ DN ☐ ZP (Can be combined with one (1) of the above Optional Features)**Enclosure Options:** ☐ General Purpose ☐ Explosion Proof ☐ NEMA 4 ☐ NEMA 4X
(For Solenoid Housing) (Standard - NEMA 12) (Prefix "F") (Prefix "F") (Prefix "F" & Suffix "ZP")**Comments:** _____**Quantity Discounts: Consult Factory****Delivery: Most orders ship in 7-10 days. Small emergency orders can be shipped in 1-2 days.**

ORDERING GUIDELINES

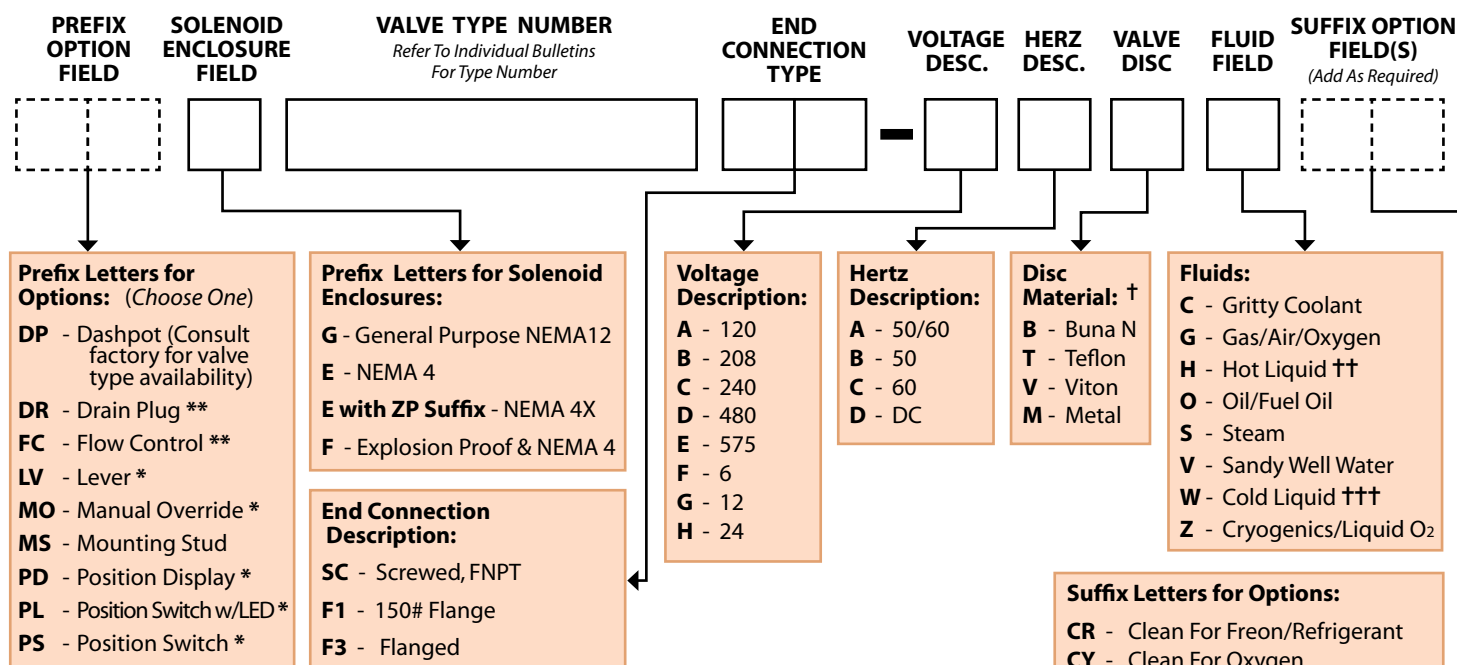
Magnatrol Solenoid Valves



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E-Mail: info@magnatrol.com

MAGNATROL VALVE TYPE NUMBER DETAIL

For Additional Information On Options See Optional Features Pages 24 & 25



† Refer to Individual Bulletins for Standard Orifice Seal/Disc Material.

†† Use fluid designation "H" for hot liquids up to 400° F. and brine applications.

††† Use fluid designation "W" for all light liquids under 212° F. (i.e. Water, Jet Fuel, Kerosene, Gasoline, Naptha, Alcohol, Soluable Oil, Coolant, Freon and Refrigerant).

* Normally Closed Valves Only

** Normally Closed and NR & MR Valves/FC not available on G valve type

*** Pilot Tap: Can be used along with any other option.
Available On Type D, G and GR only.

Consult Factory for Assistance with:

- Additional voltages
- End Connections not shown
- Fluid Field designations



Check individual bulletins for listed valves

MAGNATROL VALVE CORPORATION

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TERMS & CONDITIONS OF SALE

CONTACT INFORMATION

Solenoid valve questions can be answered quickly and accurately over the phone:

Phone: 973-427-4341 • Fax: 973-427-7611

TERMS & CONDITIONS OF SALE

- 1. Catalog:** This catalog supersedes all previous issues.
 - 2. Quotations:** Quotations are made for acceptance within 60 days and are subject to change or withdrawal without notice.
 - 3. Prices and Discounts:** All prices and discounts are in accordance with the prices and discounts established by Magnatrol and are subject to change without notice.
 - 4. Terms:** Net 30 days, subject to establishment of credit.
 - 5. Shipments:** All shipments are F.O.B. factory, Hawthorne, New Jersey. Our responsibility ends with delivery of merchandise to the transportation company and issuance to us of formal shipping receipt.
 - 6. Minimum Billing:** Minimum billing charge is \$50.00 net.
 - 7. Cancellations:** Orders are subject to cancellation only with our consent.
 - 8. Shipping Date:** There shall be no liability for default or delay in shipping. All orders, contracts, and agreements are made subject to delays contingent upon accidents, strikes, embargoes or other causes beyond our control.
 - 9. Design and Materials:** All materials and designs are subject to change without notice.
 - 10. Weights and Dimensions:** Weights and dimensions listed in this catalog are as close to actual as is practicable but are not guaranteed and are subject to change without notice.
 - 11. Errors:** All clerical errors are subject to correction.
 - 12. Returns for Repair:** Valves retuned for repair must be shipped prepaid and accompanied by a detailed report regarding service application, installation and nature of trouble or malfunction.
 - 13. Returns for Credit:** Returns for credit will be accepted only with our consent. Credit will be subject to restocking charge and any additional expenses incurred in restoring valves to salable condition. Credit will be issued only to original purchaser.
 - 14. Taxes:** Any manufacturer's excise tax, use tax, sales tax or tax or duty of any nature shall be paid by the buyer. In the event that the seller is required to pay any such taxes or duties, the buyer shall reimburse seller therefore. The buyer may provide seller with an exemption certificate or other documents acceptable to taxing or customs authorities at the time an order is placed.
 - 15. Guarantee:** MAGNATROL valves are guaranteed to be free from any defects in material and workmanship for one year or 500,000 cycles, whichever comes first. Our guarantee solely conveys the right to repair or replace free of charge, any defective valves, or parts, thereof, returned to us transportation charges prepaid, within one year after date of original shipment from factory.
- This guarantee shall not apply if the valve has been:**
- Improperly Installed
 - Used for other than intended service
 - Repaired without authorization



Check individual
bulletins for
listed valves

MAGNATROL CONTACT INFORMATION

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