

Low Pressure Gas Solenoid Valve

Brass Body | 2-Way Semi-Direct Acting | 3/8" to 1"



Features

- Provides on/off control of gaseous media
- Fast-acting response time
- Designed for operation under low differential pressure conditions
- Can be mounted vertically or horizontally
- Durable brass construction suitable for natural gas, propane, air and inert gases within specified operating limits
- Suitable for low-pressure commercial, residential, and light industrial applications

*This valve is primarily designed for gas service. Used with liquids should be evaluated separately and may result in reduced flow performance.

Materials of Construction

Valve Parts	Material
Body	Brass
Components	Stainless Steel
Seal	NBR Diaphragm
Shading Ring	Copper

*Consult a chemical compatibility expert for correct seal and valve body material choice.

Industrial Applications

- Low-pressure Gas Heaters
- Appliance Gas Train Assemblies
- Gas Grills and Outdoor Kitchen Systems
- Decorative Flame and Fire Feature Systems
- Gas Fireplaces
- Burner Control Systems
- Low-pressure Air or Inert Gases Distribution
- Gas Analyzers and Sampling Equipment
- Test Benches and Calibration Rigs
- Packaging Machines Using Air or Gas Assist

*These are not intended for use in medical life support, combustion, aviation, aerospace, automotive or similar applications

Approvals

- CE certified for EMC Compliance. Meets EN 61000-6-3:2007 + A1:2011 and EN 61000-6-1:2007
- RoHS compliant in accordance with Directive 2011/65/EU

Electrical Data

Pipe Size (in)	Power Rating (Holding)					Coil Connection	Protection Class
	AC, 60 Hz VA			DC Watts			
	24V	110V	220V	12V	24V		
3/8	20			20		DIN 43650A	NEMA 4 / IP 65
1/2	20			20			
3/4	20			20			
1	40			32			

- (1) Valves are designed to be normally closed (NC)
- (2) Valves are suitable for continuous energization (100% duty cycle) within rated voltage and ambient temperature limits
- (3) It is recommended to factor in a 30 minute off cycle for every 8 hours energized to allow the coil to cool. This coil should be installed where there is airflow available to reduce the ambient temperature around the coil
- (4) AC power ratings shown represent steady state (Holding) VA at rated voltage, 50/60 Hz, and 40 °C (104 °F) ambient temperature
- (5) Electrical values are nominal with a tolerance of ±10 % unless otherwise specified

Specifications

Pipe Connection		Orifice (mm)	Flow Coefficient Value Cv	Flow Rate GPM @60 PSI	Operating Pressure (psi)					Operating Temperature (°F)		
Size (in)	Thread Connection				Min	Max					Min	Max
						AC			DC			
			24V	110V	220V	12V	24V					
3/8	NPT - Female	16	2.1	16	60			60		15	250	
1/2	NPT - Female	16	4.5	34	60			60		15	250	
3/4	NPT - Female	20	7.5	58	60			60		15	250	
1	NPT - Female	25	12.0	92	60			60		15	250	

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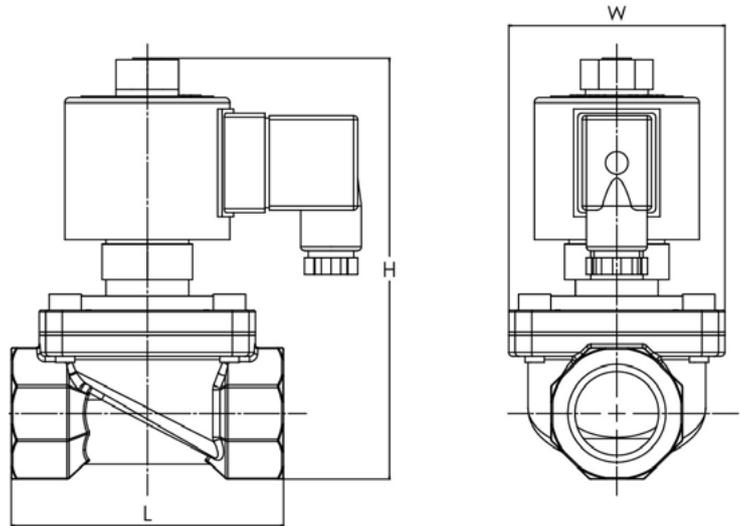
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Dimension

Pipe Size (in)	Dimension (in)			Weight (lb)
	H	L	W	
NORMALLY CLOSED (NC)				
3/8	4.61	2.68	2.20	2.06
1/2	4.61	2.68	2.20	2.06
3/4	4.84	2.87	2.20	2.31
1	5.31	3.94	2.91	3.69

- (1) Weight and dimension may vary slightly from production
- (2) Dimension shown are nominal and provided for reference only
- (3) Dimension tolerance: ± 5% unless otherwise specified
- (4) H = Overall Height, L = Port to Port Length, W = Overall Width



Product Ordering Code

B	CM	-	15		-	110V	AC																														
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EXAMPLE:

BCM-15-110VAC indicates a brass body CM series valve, 1/2" NPT-Female, normally closed configuration with 110V AC coil