

Pilot Operated Solenoid Valve

Brass Body | 2-Way Configuration | 1/2" to 2"



Features

- Provides reliable on/off control for low viscosity and non-corrosive liquids and gases
- Fast response time for precise and efficient fluid control
- Pilot-operated design enables reliable performance in applications with higher flow demand and adequate system pressure
- Can be mounted in vertical or horizontal orientation
- Durable brass construction suited for a wide range of compatible media including water, air, and light oil
- Engineered for durability and long service life under frequent switching conditions
- Ideal for water and utility systems requiring continuous flow during power loss
- UL Recognized coil system designed to meet established electrical safety standards for industrial control components
- Suitable for integration into UL-compliant control panels, automation systems, and equipment assemblies.
- Ideal for industrial automation systems, skid-mounted equipment, OEM machinery, utility services, and general fluid control applications

Materials of Construction

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

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

Industrial Applications

- Compressed Air Distribution System
- Boiler Feedwater and Auxilliary Water Isolation
- Recirculation Loops for Process Fluids
- Water Treatment and Filtration Equipment
- Cooling Tower Water Control
- Process Water Distribution
- Fluid Handling Systems in OEM Machinery
- Skid-Mounted Process Equipment and Control Systems
- Industrial Water Supply and Utility Water Lines
- Industrial Water Recirculation Systems
- Process Utility Control in Automated Production Lines

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

Approvals

- CE EMC Certified (EN 61000-6-3:2007+A1:2011 and EN 61000-6-1:2007)
- UL Recognized Component (UR) – Electrically Operated Valve Parts, evaluated to UL 429 (Certificate No. MH66864)

Electrical Data

Pipe Size (in)	Power Rating (Holding)				Coil Connection		Protection Class	
	AC, 60 Hz VA			DC Watts	NC	NO	NC	NO
	24V	110V	220V	12V				
1/2	21	22	23	18	DIN 43650A ²		IP 65	
3/4	21	22	23	18				
1	21	22	23	18				
1 1/2	21	22	23	18				
2	21	22	23	18				

(1) NC - Normally Closed; NO - Normally Open

(2) Coil Class: H (356 °F)

(3) Valves are suitable for continuous energization (100% duty cycle) within rated voltage and ambient temperature limits

(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	Min	Operating Pressure (psi)					Operating Temperature (°F)	
Size (in)	Thread Connection					Max					Min	Max
						AC			DC			
		24V	110V	220V	12V	24V						
NORMALLY CLOSED (NC)												
1/2	NPT - Female	13	13.0	100.0	4.5	230		230	15	175		
3/4	NPT - Female	20	20.0	150.0	4.5	230		230	15	175		
1	NPT - Female	25	25.0	190.0	4.5	230		230	15	175		
1 1/2	NPT - Female	40	40.0	310.0	4.5	230		230	15	175		
2	NPT - Female	50	50.0	380.0	4.5	230		230	15	175		
NORMALLY OPEN (NO)												
1/2	NPT - Female	13	13.0	100.0	4.5	115		85	15	175		
3/4	NPT - Female	20	20.0	150.0	4.5	115		85	15	175		
1	NPT - Female	25	25.0	190.0	4.5	115		85	15	175		
1 1/2	NPT - Female	40	40.0	310.0	4.5	115		85	15	175		
2	NPT - Female	50	50.0	380.0	4.5	115		85	15	175		

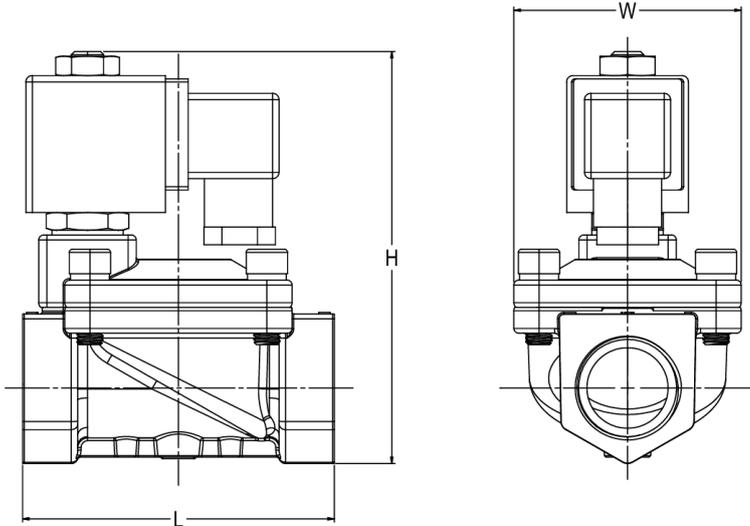
*Valve requires a minimum differential pressure of 4.5 psi for reliable operation

**Maintain consistent system pressure in high-elevation or low-head installations; not suitable for gravity-fed systems

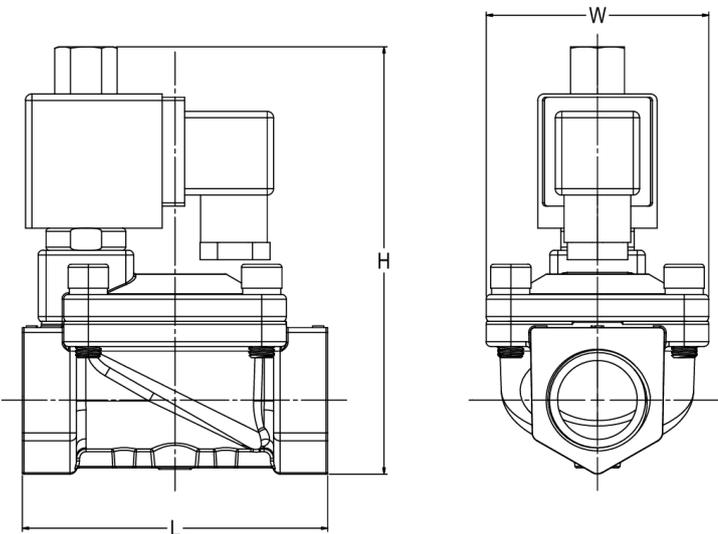
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Normally Closed (NC) Configuration



Normally Open (NO) Configuration



Dimension

Pipe Size (in)	Dimension (in)			Weight (lb)
	H	L	W	
NORMALLY CLOSED (NC)				
1/2	4.80	2.60	1.89	1.63
3/4	4.65	2.95	2.28	1.94
1	4.92	3.75	2.72	3.04
1 1/2	5.91	5.16	3.78	5.84
2	6.50	6.50	4.72	8.61
NORMALLY OPEN (NO)				
1/2	4.80	2.60	1.89	1.76
3/4	5.04	2.95	2.28	2.65
1	5.31	3.78	2.72	3.31
1 1/2	6.30	5.16	3.78	6.61
2	6.89	6.50	4.72	8.82

- (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

UBP
-
X
X
-
X
X

VALVE SERIES

CODE	DESCRIPTION
UBP	UL RECOGNIZED, BRASS BODY, PILOT OPERATED SOLENOID VALVE

PIPE SIZE

CODE	DESCRIPTION
15	1/2" (DN15)
20	3/4" (DN20)
25	1" (DN25)
40	1 1/2" (DN40)
50	2" (DN50)

VOLTAGE USED

CODE	DESCRIPTION
12V	12V
24V	24V
110V	110V
220V	220V

VALVE TYPE

CODE	DESCRIPTION
K	NORMALLY OPEN (NO)
(BLANK)	NORMALLY CLOSED (NC)

TYPE OF CURRENT

CODE	DESCRIPTION
AC	ALTERNATING CURRENT
DC	DIRECT CURRENT

EXAMPLE:
UBP-15K-110VAC indicates a UL Recognized, brass body, pilot operated solenoid valve, 1/2" NPT-Female, normally open configuration with 110V AC coil