BERMAD Irrigation



400 Series

On/Off Control

Solenoid Controlled Valve

IR-410-KX

The BERMAD Solenoid Controlled Valve is a hydraulically operated, diaphragm actuated control valve that opens and shuts in response to an electric signal.



Features and Benefits

- Hydraulic Control Valve with Solenoid Control
 - Line pressure driven
 - □ Electrically controlled On/Off
 - Suitable also for remote and/or elevated systems
- Advanced Globe Hydro-Efficient Design
 - Unobstructed flow path
 - Single moving part
 - High flow capacity
- Fully Supported & Balanced Diaphragm
 - Requires low opening and actuation pressure
 - Progressively restrains valve closing
 - Prevents diaphragm distortion
- User-Friendly Design
 - Simple in-line inspection
 - Easy addition of control features

[4]

Typical Applications

- Computerized Irrigation Systems
- Remote/Elevated Systems
- Distribution Centers
- Low Supplied Pressure Irrigation Systems
- [1] BERMAD Model IR-410-KX opens in response to electric signal.
- [2] BERMAD Relief Valve Model IR-43Q-K
- [3] BERMAD Air Valve Model ARA-A-P-P
- [4] BERMAD Vacuum Breaker Model 1/2"-ARV



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IR-410-KX

For full technical details, refer to Engineering Section.

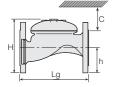
400 Series

On/Off Control

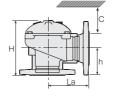
Technical Specifications

Dimensions and Weights

Pattern		Globe						Angle				
Connections		Threaded					Fl.	Threaded			Fl.	
Size	DN Inch	40 1½"	50 2"	65 2¹/₂"	80R 3"R	80 3"	100 4"	50 2"	65 2 ¹ / ₂ "	80R 3"R	80 3"	100 4"
Lg	mm inch	153 6	180 7.1	210 8.3	210 8.3	255 10.0	320 12.6	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.
La	mm inch	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	N.A. N.A.	86 3.4	110 4.3	110 4.3	110 4.3	160 6.3
Н	mm	87 3.4	114 4.5	132 5.2	140 5.5	165 6.5	242 9.5	136 5.4	180 7.1	178 7	184 7.2	223 8.8
С	mm	52 2	68 2.7	80 3.1	84 3.3	100 3.9	145 5.7	82 3.2	108 4.2	107 4.2	110 4.3	134 5.3
h	mm	29 1.1	39 1.5	45 1.8	53 2.1	55 2.2	112 4.4	61 2.4	93 3.7	91 3.6	80 3.1	112 4.4
A; B	mm	130 5	130 5	130 5	140 6	175 7	312 12.3	130 5.1	130 5.1	140 5.5	175 6.9	312 12.3
Weigh	t Kg	2 4.4	4 8.8	5.7 12.6	5.8 12.8	13 28.7	28 61.7	4.4 9.7	5.8 12.8	7 15.4	11 24.3	26 57.3







Technical Data

End connections:

Size		1½"	2"	2½"	3"R	3"	4"
		DN40	DN50	DN65	DN80R	DN80	DN100
Threaded	Globe	•	•	•	•		
	Angle		•	•			
Flanged	Globe		•	•	•	•	•
	Angle						
Grooved	Globe						
	Angle					-	

Pressure Rating: 16 bar; 232 psi

Operating Pressure Range: 0.5-16 bar; 7-232 psi For lower pressure requirements, consult factory

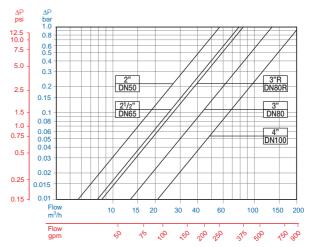
Solenoid Voltage Range: S-390 & S-400: 24 VAC, 24 VDC

S-392 & S-402: 9-20 VDC, Latch S-982 & S-985: 12-50 VDC, Latch

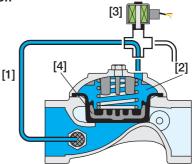
Other Voltages available

For full electric data, refer to Accessories Section.

Flow Chart



Operation



Line Pressure [1] is applied to the Control Chamber [2], through the opened 3-Way Solenoid [3]. This creates superior closing force that moves the Diaphragm Assembly [4] to a closed position. Closing the Solenoid causes it to switch, discharging pressure from the control chamber and thereby opening the main Valve.

Please consult full-stop

How to Order

Please specify the requested valve in the following sequence: (for more options, refer to Ordering Guide.)

