# **BERMAD** Irrigation

# Solenoid Controlled Valve

### IR-410-KX

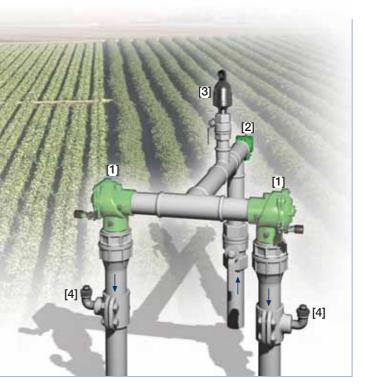
The BERMAD Solenoid Controlled Valve is a hydraulically operated, diaphragm actuated control valve that opens and shuts in response to an electric signal.



400 Series

## 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



## **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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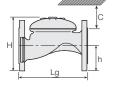
#### **IR-4IO-KX**

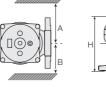
For full technical details, refer to Engineering Section.

## **Technical Specifications**

#### **Dimensions and Weights**

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







# **Technical Data**

#### End connections:

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

### How to Order

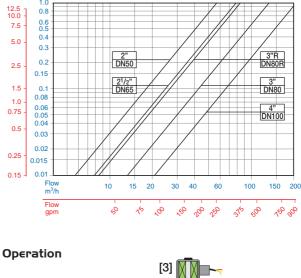
Please specify the requested valve in the following sequence: (for more options, refer to Ordering Guide.)

Sector	Size	Primary Feature		Additional Feature	Pattern	Construction Materials	End Connections	Coating	Voltage -Main Valve Position	Tubing & Fittings	Additonal Attributes	
IR	1½-4" Other sizes available on request.	410	00	-	G		BP	PG	4AC	PP		
Globe Angle		G A	ISO-16 ISO-10 IS 14 (ISO 10/4 H ANSI-125	oles)	16 9VDC - 10 12VDC - 14 24VDC - A1 24VDC -	Latch Latch N.C. N.O.		stic Tubing & Fitting stic Tubing & Brass		PP PB		
			JIS-10 BST-D Grooved		J1 BD VI	24VAC – 24VAC – 24VAC, Lightning 24VAC, Lightning	N.C. N.O. 9 Proof – N.C.	4AC Pla 4AO 3-V 4RC Val	stic Control Accesso Vay Control ve Position Indicator w Stem <sup>(1)</sup>		н >   N	
			For available end co see End Connection			Other electrical rat	,	. (1) S	<ul> <li>(1) Standard Irrigation Cover &amp; Diaphragm are unfitted to Attributes I, M.</li> <li>Other additional attributes are optional.</li> </ul>			

Please consult full-stop

# 400 Series

#### On/Off Control



Flow Chart

1.0

∆P psi

[4] [1]

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.

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