BERMAD Irrigation

Solenoid Controlled Valve

IR-410-KX

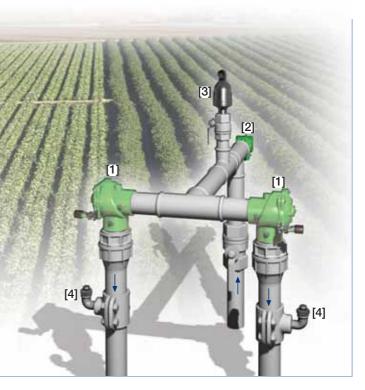
The BERMAD Solenoid Controlled Valve is a hydraulically operated, diaphragm actuated control valve that opens and shuts in response to an electric signal.



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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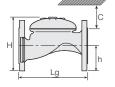
IR-4IO-KX

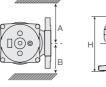
For full technical details, refer to Engineering Section.

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 ¹ /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

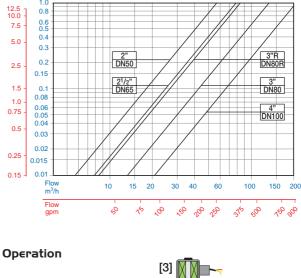
Please specify the requested valve in the following sequence: (for more options, refer to Ordering Guide.)

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 ⁽¹⁾		н > N	
			For available end co see End Connection			Other electrical rat	,	. (1) S	 (1) Standard Irrigation Cover & Diaphragm are unfitted to Attributes I, M. Other additional attributes are optional. 			

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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