BERMAD Irrigation



400 Series

On/Off Control

Hydraulic Control Valve

Normally Closed with Hydraulic Control

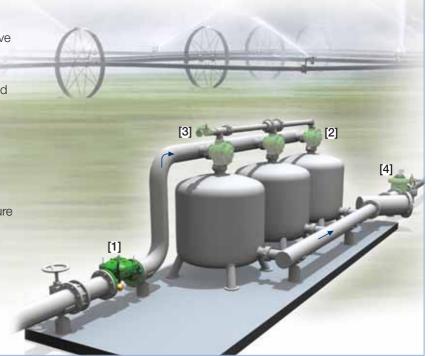
IR-405-54-RXZ

The BERMAD Normally Closed, Hydraulic Control Valve with Hydraulic Control is a hydraulically operated, diaphragm actuated control valve, which opens in response to a remote pressure rise command and shuts in the absence of that command.



Features and Benefits

- Hydraulically Controlled, Normally Closed Valve
 - Line pressure driven
 - Closes upon control failure
 - Amplifies and relays weak remote command
 - Hydraulically controlled On/Off
- 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 and/or Elevated Systems
- Large Diameter Distribution Centers
- Irrigation Machines
- Low Supplied Pressure Irrigation Systems

- [1] BERMAD Model IR-405-54-RXZ opens upon command pressure rise.
- [2] BERMAD Backwash Valve Model IR-3x2-350-A-I
- [3] BERMAD Backwash Flow Control Valve Model IR-470-bKU
- [4] BERMAD Pressure Reducing Hydrometer Model IR-920-M0-R



BERMAD Irrigation



IR-405-54-RXZ

For full technical details, refer to Engineering Section.

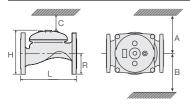
400 Series

On/Off Control

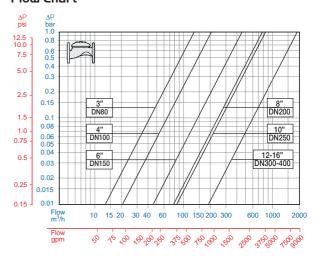
Technical Specifications

Dimensions and Weights

Size	DN Inch	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16
L	mm	250	320	415	500	605	725	742	742
	inch	9.8	12.6	16.3	19.8	23.8	28.5	29.2	29.2
н	mm	210	242	345	430	460	635	655	965
	inch	8.3	9.5	13.6	16.9	18.1	25	25.8	38
С	mm	125	145	207	258	276	381	393	579
	inch	5	5.7	8.2	10.2	10.9	15	15.5	22.8
R	mm	100	112	140	170	202	242	260	300
	inch	3.9	4.4	5.5	6.7	8	9.5	10.2	11.8
A; B	mm	300	312	353	383	403	490	494	500
	inch	11.8	12.3	13.9	15.1	15.9	19.3	19.4	19.7
Weight	Kg	19	28	68	125	140	290	358	377
	lb.	41.9	61.7	149.9	275.6	308.6	639.3	789.2	831.1



Flow Chart



Technical Data

Patterns and Sizes: Globe: 3-16"; DN80-400 Angle: 3-4"; DN80-100 End Connections:

Size		3"	4"	6"	8-16"
Size		DN80	DN100	DN150	DN200-400
Threaded	Globe	-			
	Angle	-			
Florand	Globe	-	•	•	
Flanged	Angle	-	-		
Grooved	Globe	-	•	•	
Grooved	Angle	-	•		

Pressure Rating: 16 bar; 232 psi

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

Materials:

Body and Cover:

Polyester Coated Cast or (10"; DN250 and larger) Ductile Iron

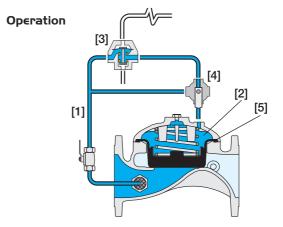
Spring: Stainless Steel

Diaphragm: Nylon fabric Reinforced NR with rugged insert

Bolts, Studs and Nuts: Zinc-Cobalt plated Steel

Control Accessories: Brass

Tubing and Fittings: Reinforced Plastic and Brass



Line Pressure [1] is applied to the Control Chamber [2] through the held open, 3-Way Hydraulic Relay Valve (3W-HRV) [3] and the Manual Selector [4]. This creates superior closing force that moves the Diaphragm Assembly [5] toward a closed position. Upon receiving a pressure rise command, the 3W-HRV releases pressure from the control chamber, thereby opening Valve.

How to Order

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

