

Hydraulic Control Valve

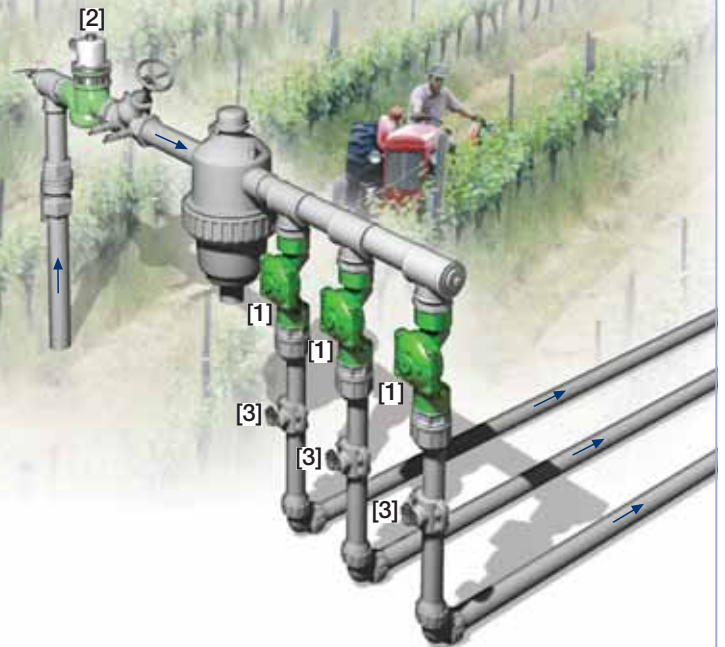
IR-405-Z

The BERMAD Hydraulic Control Valve is a hydraulically operated, diaphragm actuated control valve that opens and shuts off in response to a local or remote pressure command.



Features and Benefits

- Hydraulic Control Valve
 - Line pressure driven
 - 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

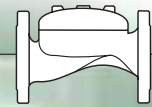


Typical Applications

- Computerized Irrigation Systems
- Distribution Centers
- Low Supplied Pressure Irrigation Systems

- [1] BERMAD Models IR-405-Z open upon local manual command.
- [2] BERMAD Automatic Metering Valve Model IR-900-D0
- [3] BERMAD Vacuum Breaker Model ½"-ARV

BERMAD Irrigation



400 Series

On/Off Control

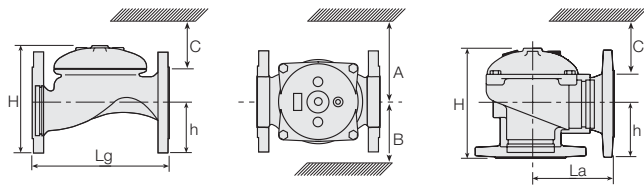
IR-405-Z

For full technical details, refer to Engineering Section.

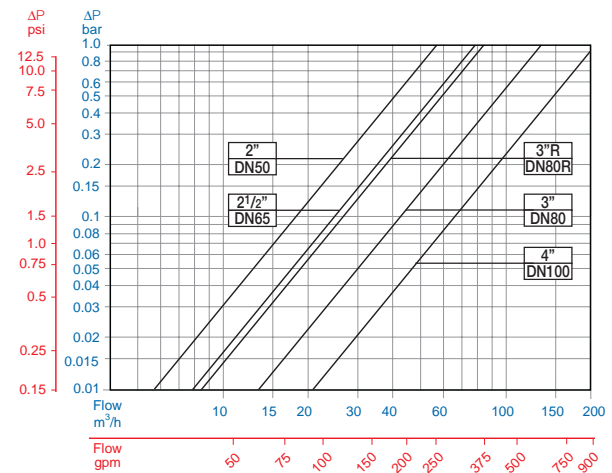
Technical Specifications

Dimensions and Weights

Pattern		Globe					
Connections		Threaded					Fl.
Size	DN Inch	40 1½"	50 2"	65 2½"	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
La	mm inch	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
H	mm inch	87 3.4	114 4.5	132 5.2	140 5.5	165 6.5	242 9.5
C	mm inch	52 2	68 2.7	80 3.1	84 3.3	100 3.9	145 5.7
h	mm inch	29 1.1	39 1.5	45 1.8	53 2.1	55 2.2	112 4.4
A; B	mm inch	130 5	130 5	130 5	140 6	175 7	312 12.3
Weight	Kg lb.	2 4.4	4 8.8	5.7 12.6	5.8 12.8	13 28.7	28 61.7



Flow Chart



Technical Data

End connections:

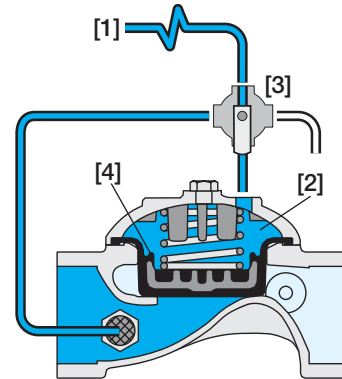
Size	End Connections						
	1½" DN40	2" DN50	2½" DN65	3"R DN80R	3" DN80	4" DN100	
Threaded	Globe	■	■	■	■	■	
	Angle	■	■	■	■	■	
Flanged	Globe	■	■	■	■	■	
	Angle	■	■	■	■	■	
Grooved	Globe	■	■	■	■	■	
	Angle	■	■	■	■	■	

Pressure Rating: 16 bar; 232 psi

Operating Pressure Range: 0.5-16 bar; 7-232 psi

For lower pressure requirements, consult factory

Operation



Hydraulic Command [1] is applied to the Control Chamber [2] through the Manual Selector [3]. This creates superior closing force that moves the Diaphragm Assembly [4] to a closed position. Discharging pressure from the control chamber, by turning the manual selector, causes the line pressure acting on the lower side of the diaphragm assembly to move the Valve to an open position.

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	Additional Feature	Pattern	Construction Materials	End Connections	Coating	Voltage -Main Valve Position	Tubing & Fittings	Additional Attributes
IR	1½"-4" <small>Other sizes available on request.</small>	405	00	-	G	I	BP	PG	-	PP	Z
		G A	ISO-16 ISO-10 IS 14 (ISO 10/4 Holes) ANSI-125 JIS-10 BST-D Grooved		16 10 14 A1 J1 BD VI	Plastic Tubing & Fittings Plastic Tubing & Brass Fittings		PP PB		Manual Selector Valve Position Indicator(1) Flow Stem(1)	Z I M

For available end connections/sizes, see End Connections Table above.

(1) Standard Irrigation Cover & Diaphragm are unfitted to Attributes I, M. Other additional attributes are optional. Please consult full-stop



Trädgårdsteknik AB
Helsingborgsvägen 578
262 96 ÄNGELHOLM
Telefon: 0431-222 90
Telefax: 0431-222 70
info@tradgardsteknik.se
www.tradgardsteknik.se
