BERMAD Irrigation



100 Series hYflow

Pressure Sustaining

Pressure Relief/Sustaining Valve

with Hydraulic Control

IR-130-50

The BERMAD Pressure Relief/Sustaining Valve with Hydraulic Control is a hydraulically operated, diaphragm actuated control valve that sustains minimum preset upstream (back) pressure. It either opens or shuts in response to a remote pressure command.

When installed offline, the BERMAD Model IR-130-50 relieves line pressure in excess of preset pressure.

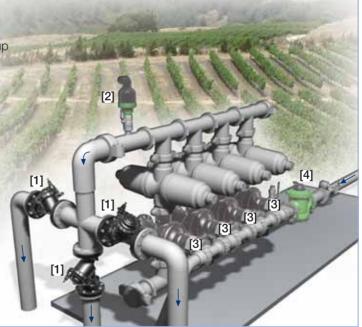


Features and Benefits

- Line Pressure Driven, Hydraulically Controlled On/Off
 - Sustains upstream line pressure controlling system fill-up
 - Relieves excess pressure protecting pump & system
- Engineered Plastic Valve with Industrial Grade Design
 - Adaptable on-site to a wide range of end connection sizes and types
 - Articulated flange connections eliminate mechanical and hydraulic stresses
 - Highly durable, chemical and cavitation resistant
- hYflow 'Y' Valve Body with "Look Through" Design
 - Ultra-high flow capacity Low pressure loss
- Unitized Flexible Super Travel (FST) Diaphragm and Guided Plug
 - Accurate and stable regulation with smooth closing
 - Requires low opening and actuation pressure
 - Prevents diaphragm erosion and distortion
- Simple In-Line Inspection and Service

Typical Applications

- Computerized Irrigation Systems
- Pressure Zone Prioritizing
- Line Fill-up Control
- Line Emptying Prevention
- Filter Stations
- Energy Saving Irrigation Systems



- [1] BERMAD Model IR-130-50 opens upon pressure drop command, sustains filters back flush pressure and controls system fill-up.
- [2] BERMAD Air Valve Model ARC-A-P-I
- [3] BERMAD Backwash Flushing Valve Model IR-3x3-350-S-P
- [4] BERMAD N.C. Hydrometer Model IR-900-M0-54-R



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IR-130-50

For full technical details, refer to Engineering Section.

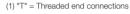
100 Series hyflow

Pressure Sustaining

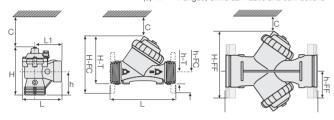
Technical Specifications

Dimensions and Weights

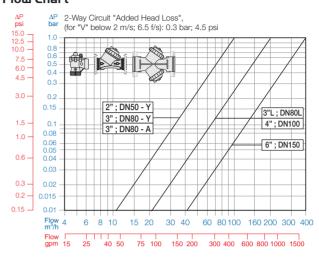
Pattern	rn Angle Y (Oblique)				Y "Boxer"		
Size	DN	80-T ⁽¹⁾	80-T ⁽¹⁾	80-FC ⁽²⁾	80L-FC ⁽²⁾	100-FC ⁽²⁾	150-FF ⁽³⁾
	Inch	3-T ⁽¹⁾	3-T ⁽¹⁾	3-FC ⁽²⁾	3L-FC ⁽²⁾	4-FC ⁽²⁾	6-FF ⁽³⁾
L (L1)	mm	187 (130)	298	308	310	350	480
	inch	7.4 (5.1)	11.7	12.1	12.2	13.8	18.9
H (Hf)	mm	235 (245)	180 (195)	240 (255)	280	294	285
	inch	9.3 (9.6)	7.1 (7.7)	9.4 (10)	11	11.6	11.2
С	mm	53	53	600	600	600	600
	inch	2.1	2.1	4	4	23.6	23.6
h	mm	117	50	100	100	112	145
	inch	4.6	2	3.9	3.9	4.4	5.7
Weight	Kg	1.6	1.6	4.4	5.9	7.6	12.5
	ib.	3.5	3.5	9.7	13	16.7	27.6



(2) "FC" = Flanged, Corona (Metal) end connections (3) "FF" = Flanged, Universal Plastic end connections



Flow Chart



Technical Data

Sizes: 3, 3L, 4 & 6"; DN80, 80L, 100 & 150

Patterns:

Oblique: 3, 3L, 4 & 6"; DN80, 80L, 100 & 150

Angle: 3"; DN80
End Connections:

Threaded: 3 & 3"L; DN80 & 80L

Flanged: 3, 3L, 4 & 6"; DN80, 80L, 100 & 150

Pressure Rating: 10 bar; 145 psi

Operating Pressure Range: 0.35-10 bar; 5-145 psi

Setting Range: 1-7 bar; 15-100 psi

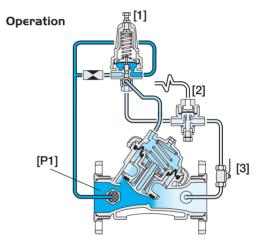
Setting ranges vary according to specific pilot spring. Please consult factory.

Materials:

Body, Cover and Plug: Glass-Filled Nylon **Diaphragm:** NR, Nylon fabric reinforced

Seals: NF

Spring: Stainless Steel
Control Accessories: Plastic
Tubing and Fittings: Plastic



The Pressure Sustaining Pilot [1] commands the Valve to throttle closed should Upstream Pressure [P1] drop below pilot setting, and to modulate open when it rises above pilot setting. The Hydraulic Relay Valve [2] closes upon pressure rise command, shutting the main Valve. The downstream Cock Valve [3] enables manual closing.

How to Order

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

