

Pressure Relief/ Sustaining Valve

with Solenoid Control

IR-130-55

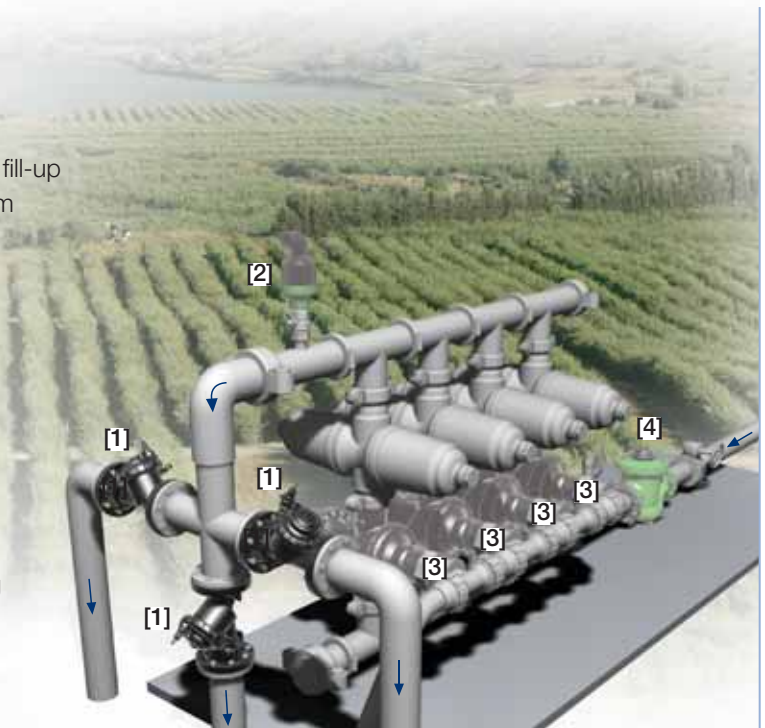
The BERMAD Pressure Relief/Sustaining Valve with Solenoid Control is a hydraulically operated, diaphragm actuated control valve that sustains minimum preset upstream (back) pressure regardless of fluctuating flow or varying downstream pressure. It either opens or shuts in response to an electric signal.

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



Features and Benefits

- Line Pressure Driven, Electrically Controlled On/Off
 - Line pressure driven
 - 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

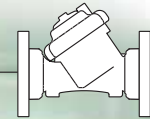


Typical Applications

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

- [1] BERMAD Model IR-130-55 opens in response to an electric signal, sustains filter back flush pressure and controls system fill-up.
- [2] BERMAD Air Valve Model ARC-A-P-I
- [3] BERMAD Backwash Valve Model IR-3x3-350-S-P
- [4] BERMAD N.C. Hydrometer Model IR-900-M0-54-R

BERMAD Irrigation



IR-130-55

For full technical details, refer to Engineering Section.

100 Series hYflow

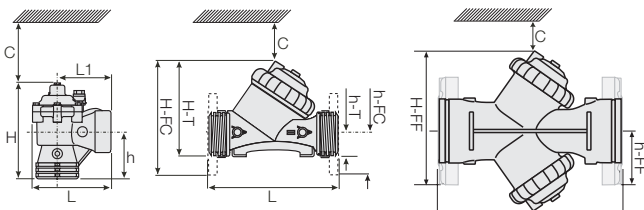
Pressure Sustaining

Technical Specifications

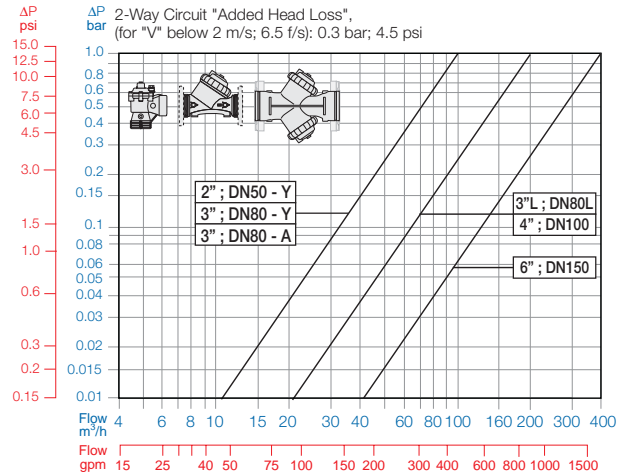
Dimensions and Weights

Pattern	Size DN Inch	Angle	Y (Oblique)				Y "Boxer"	
			80-T ⁽¹⁾ 3-T ⁽¹⁾	80-FC ⁽²⁾ 3-FC ⁽²⁾	80L-FC ⁽²⁾ 3L-FC ⁽²⁾	100-FC ⁽²⁾ 4-FC ⁽²⁾	150-FF ⁽³⁾ 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	
C	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	
	lb.	3.5	3.5	9.7	13	16.7	27.6	

(1) "T" = Threaded end connections (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: NR

Spring: Stainless Steel

Control Accessories: Plastic

Tubing and Fittings: Reinforced Plastic

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

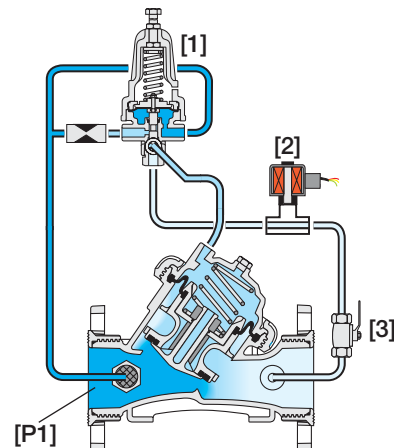
Other voltages available

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	Control Type	Voltage - Main Valve Position	Additional Attributes
IR	3-6"	130	55	Y	P	FF	2W	4AC	-
Other sizes available on request.									
Oblique	Angle (3"; DN80 Only)	Y A	Threaded BSP (Female) Threaded NPT (Female) Plastic Flanges* Metal Flanges* ("Corona") Grooved (6"; DN150 Only)	BP NP FF CC VI	9VDC - 12VDC - 24VDC - 24VDC - 24VAC - 24VAC - 24VAC, Lightning Proof - 24VAC, Lightning Proof -	Latch Latch N.C. N.O. N.C. N.O. N.C. N.O.	9DS 1DS 4DC 4DC 4AC 4AO 4RC 4RO	Low Preset Pressure (below 2 bar) Plastic Pressure Test Point Other attributes available on request	2 5
* Comply to: ISO PN10, ANSI #125/150, Jis K-10, BS-D									
Other electrical ratings available on request.									

Operation



The Pressure Sustaining Pilot [1] commands the Valve to throttle closed should Upstream Pressure [P1] drop below pilot setting, and modulate open when it rises above pilot setting. Closing the Solenoid [2] causes the main Valve to shut. The downstream Cock Valve [3] enables manual closing.



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