BERMAD Irrigation



200 Series

Pressure Reducing

Pressure Reducing Valve

For Drip-Tap∈ Applications

IR-220-bZ

The BERMAD Pressure Reducing Valve is a hydraulically operated, diaphragm actuated control valve that accurately reduces higher upstream pressure to very low and stable preset downstream pressure regardless of fluctuating demand or varying upstream pressure.



Features and Benefits

- Line Pressure Driven, Hydraulically Controlled
 - Protects downstream systems
- Pressure Reducing Servo Pilot Controlled
 - Dynamic integrated needle valve
 - □ Easily settable to 0.5 bar; 7 psi
 - Very low hysteresis
- Plastic Globe Hydro-Efficient Valve
 - Unobstructed flow path
 - Single moving part
 - High flow capacity
 - Highly durable, chemical and cavitation resistant
- Unitized Flexible Diaphragm and Guided Plug
 - Excellent low flow regulation performance
 - Prevents diaphragm erosion and distortion
- Fully Supported & Balanced Diaphragm
 - Requires low actuation pressure
- User-Friendly Design
 - Simple in-line inspection and service

Typical Applications

- Drip-Tape Systems
- Low Set Pressure Applications
- Low Supplied Pressure Irrigation Systems
- Energy Saving Irrigation Systems

- [1] BERMAD Model IR-220-bZ establishes a reduced pressure zone, protecting laterals and distribution line.
- [2] BERMAD Solenoid Controlled Valve Model IR-110-N1
- [3] BERMAD Vacuum Breaker Model 1/2"-ARV



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IR-220-bZ

For full technical details, refer to Engineering Section.

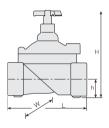
200 Series

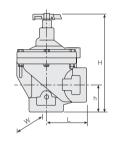
Pressure Reducing

Technical Specifications

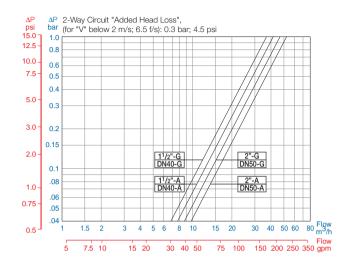
Dimensions and Weights

Pattern		Globe		Angle	
Size	DN	40	50	40	50
	inch	1½	2	1½	2
L	mm	160	170	80	85
	inch	6.3	6.7	6.1	3.3
Н	mm	180	190	190	210
	inch	7.1	7.5	7.5	8.3
h	mm	35	38	40	60
	inch	1.4	1.5	1.6	2.4
W	mm	125	125	125	125
	inch	4.9	4.9	4.9	4.9
Weight	Kg.	1	1.1	0.95	0.91
	lb.	2.2	2.4	2.1	2.0





Flow Chart



Technical Data

Sizes: 1½-2"; DN40-50

Patterns:

Globe: 1½ & 2"; DN40 & 50 Angle: 1½ & 2"; DN40 & 50

End Connections: Female Threads BSP; NPT

Pressure Rating: 10 bar; 145 psi

Operating Pressure Range: 0.5-10 bar; 7-145 psi

Setting Range: 0.5-1.7 bar; 7-25 psi

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

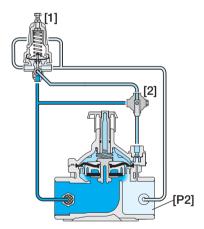
Materials:

Body, Cover and Plug: Reinforced Nylon

Diaphragm: NR

Seals: NBR [Buna-N] and NR Spring: Stainless Steel Cover Bolts: Stainless Steel Control Accessories: Plastic Tubing and Fittings: Plastic

Operation



The Pressure Reducing Servo Pilot [1] commands the Valve to throttle closed, preventing Downstream Pressure [P2] from rising above pilot setting, and to modulate open when [P2] drops below pilot setting. The Manual Selector [2] enables local manual closing.

How to Order

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

