Flow Control and Pressure Reducing Valve
with Solenoid Control

IR-472-55-bKU

The BERMAD Model IR-472-55-bKU is a hydraulically operated, diaphragm actuated control valve that limits demand and reduces downstream pressure to constant preset maximum values. It either opens or shuts in response to an electric signal.

Features and Benefits

- Line Pressure Driven, Electrically Controlled On/Off
  - Limits fill-up rate and consumer over-demand
  - Protects downstream system
- Advanced Globe Hydro-Efficient Design
  - Unobstructed flow path
  - Single moving part
  - High flow capacity
- Fully Supported & Balanced Diaphragm
  - Requires low actuation pressure
  - Excellent low flow regulation performance
  - Progressively restrains valve closing
  - Prevents diaphragm distortion
- Hydraulic Flow Sensor (upstream installation)
  - No moving parts
  - No need for flow straightening
- User-Friendly Design
  - Easy pressure setting
  - Simple in-line inspection and service

Typical Applications

- Computerized Irrigation Systems
- Remote and/or Elevated Plots
- Multiple Independent Consumer Systems
- Line Fill-Up Control Solutions
- Pressure Reducing Systems
- Distribution Centers

[1] BERMAD Model IR-472-55-bKU opens in response to electric signal, limits over-demand, and controls laterals and distribution line fill-up, while reducing operating pressure.

[2] BERMAD Vacuum Breaker Model ½"-ARV
**Technical Specifications**

**Dimensions and Weights**

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**Technical Data**

**End connections:**

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**Pressure Rating:** 10 bar, 145 psi

**Operating Pressure Range:** 0.5-10 bar, 7-145 psi

For lower pressure requirements, consult factory.

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

**Flow Setting Range:** ±20% from valve predetermined flow

Please consult factory.

**Setting ranges vary according to specific pilot spring.**

**Flow Setting Range:** ±20% from valve predetermined flow

Orifice diameter is calculated in accordance with desired ΔP at predetermined flow. Although the standard calculated ΔP is 0.4 bar, 5.5 psi, the actual head loss is 0.2 bar; 2.8 psi.

**How to Order**

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

**Operation**


**Solenoid Voltage Range:**

- 24VAC, Lightning Proof – N.O. 4RO
- 24VAC, Lightning Proof – N.C. 4RC
- 24VAC – N.O. 4AO
- 24VAC – N.C. 4AC
- 24VDC – N.O. 4DC
- 24VDC – N.C. 4DC
- 12VDC – Latch 1DS
- 9VDC – Latch 9DS

Other voltages available.

For full electric data, refer to Accessories Section.