# **BERMAD** Irrigation

# Pressure Reducing Valve

For Drip-Tape Applications

### GR-420-bKZ

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



[1]

[3]

400 Series Pressure Reducing

#### Features and Benefits

- Line Pressure Driven
- Pressure Reducing Servo Pilot Controlled
  - Progressive needle valve
  - Settable to 0.5 bar; 7 psi
  - Very low hysteresis
- Advanced Globe Hydro-Efficient Design
  Unobstructed flow path
  - Single moving part
  - High flow capacity
- Fully Supported & Balanced Diaphragm
  - Requires low opening and actuation pressure
  - Excellent low flow regulation performances
  - Progressively restrains valve closing
  - Prevents diaphragm distortion
- User-Friendly Design
  - Easy pressure setting
  - Simple in-line inspection and service



- Drip-Tape Systems
- Low Set Pressure Applications
- Pressure Reducing Stations
- Low Supplied Pressure Irrigation Systems
- [1] BERMAD Model GR-420-bKZ establishes a reduced pressure zone, protecting laterals and distribution line.
- [2] BERMAD Solenoid Controlled Valve Model IR-410-K
- [3] BERMAD Vacuum Breaker Model 1/2"-ARV



[3]

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#### GR-420-bKZ

For full technical details, refer to Engineering Section.

### **Technical Specifications**

#### **Dimensions and Weights**

Size	DN	40	50
	inch	1½	2
L	mm	150	180
	inch	5.9	7.1
н	mm	83	110
	inch	3.3	4.3
h	mm	28	38
	inch	1.1	1.5
w	mm	90	120
	inch	3.5	4.7
Weight	Kg.	1.5	4
	lb.	3.3	8.8



**Technical Data** 

Materials:

Body and Cover: Brass Spring: Stainless Steel Diaphragm: NR

Control Accessories: Plastic Tubing and Fittings: Plastic

Pressure Rating: 10 bar; 145 psi

Valve Available Sizes: 1½ & 2"; DN40 & 50 End Connections: Threaded 1½ & 2"; DN40 & 50

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

Bolts, Studs and Nuts: Zinc-Cobalt Plated Steel

Setting Range: 0.5-1.7 bar; 7-25 psi Setting ranges vary according to specific pilot spring. Please consult factory

### Flow Chart



Operation



The Pressure Reducing Servo Pilot **[1]** commands the main Valve to throttle closed preventing downstream pressure **[P2]** from rising above pilot setting, and to modulate open when it 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.)





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