



# PRESSURE REDUCING TOP PILOT VALVE

## With Solenoid Control Model IR-12T-55-3W-X

The BERMAD Top Pilot valves are Pilot Integrated pressure reducing valves equipped with adjustment knob and scale for easy calibration. Saving accessories, assembly labor & fittings, Top Pilot valves introduce compact "Box-Size", with high regulation performances.

Model IR-12T-55-3W-X reduces higher upstream pressure to lower constant downstream pressure, opens fully upon line pressure drop and either open or shuts in response to an electric signal.



- [1] BERMAD Model IR-12T-55-X establishes reduced pressure zone, protecting laterals and distribution line.
- [2] Kinetic Air Valve
- [3] Combination Air Valve
- [4] Remote Terminal Unit

### Features and Benefits

- Line pressure driven Hydraulic Level Control
  - Protects downstream systems
  - Opens fully upon line pressure drop
- 3-Way Integrated pilot - user friendly design
  - Adjustment knob and scale for easy calibration without gauge
  - Compact "Box-Size", saving labor & fittings
  - Easy add & remove of solenoid
  - Uniquely suitable to all size range up to 3"
- Engineered Plastic Valve with Industrial Grade Design
  - Adaptable on-site to a wide range of end connection sizes and types
  - Highly durable, chemical & cavitation resistant
- hYflow 'Y' Valve Body with "Look Through" Design
  - Ultra-high flow capacity at Low pressure loss
- Unitized Flexible Super Travel Diaphragm with a Guided Plug
  - Accurate and stable regulation with smooth closing
  - Requires low actuation pressure
  - Prevents diaphragm erosion and distortion

### Typical Applications

- Computerized Irrigation Systems
- Systems Subject to Varying Supply Pressure
- Plot valves in Drip & Sprinklers irrigation systems
- Energy Saving Irrigation Systems

### Operation:

The Pressure Reducing Pilot **1** commands the main Valve to throttle closed should Downstream Pressure **P2** rise above pilot setting, and to open fully when it drops below pilot setting. The Integrated Trio Selector **3** enables local manual closing and opening. In response to an electric signal, the solenoid **2** switches, directing line pressure into the control chamber **4**, shutting the Valve.

