

# Pressure Reducing Valve

Normally Closed with Hydraulic Control

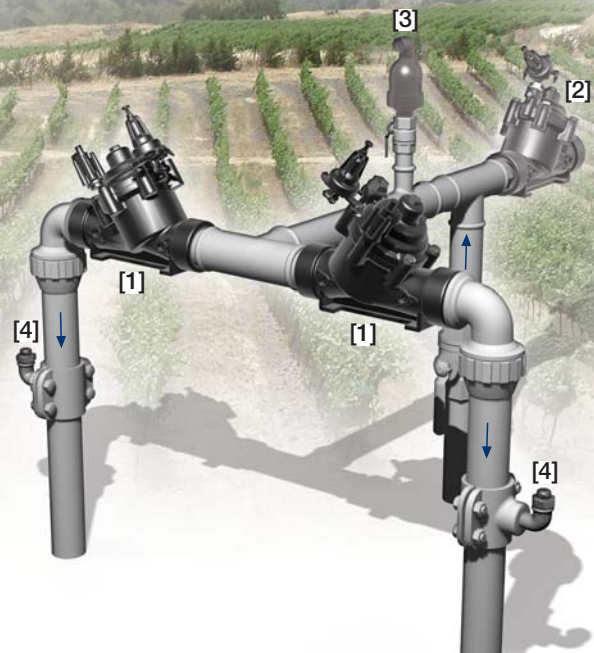
**IR-120-54-X**

The BERMAD Normally Closed, Pressure Reducing Valve with Hydraulic Control, is a hydraulically operated, diaphragm actuated control valve that reduces higher upstream pressure to lower constant downstream pressure regardless of fluctuating demand, and opens fully upon line pressure drop. It is a Normally Closed valve, which opens in response to a remote pressure command and shuts in the absence of that command.



## Features and Benefits

- Hydraulic Pressure Control, Normally Closed
  - Closes upon control failure
  - Protects downstream systems
  - Opens fully upon line pressure drop
  - Amplifies and relays weak remote command
- Engineered Plastic Valve with Industrial Grade Design
  - Highly durable, chemical and cavitation resistant
  - No internal bolts and nuts
- 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 Reducing Stations
- Systems Subject to Varying Supply Pressure
- Remote and/or Elevated Plots
- Distribution Centers
- Energy Saving Irrigation Systems

- [1] BERMAD Model IR-120-54-X opens upon pressure rise command, and establishes reduced pressure zone protecting laterals and distribution line.
- [2] BERMAD Relief Valve Model IR-13Q
- [3] BERMAD Air Valve Model ARA-A-P-P
- [4] BERMAD Vacuum Breaker Model 1/2"-ARV



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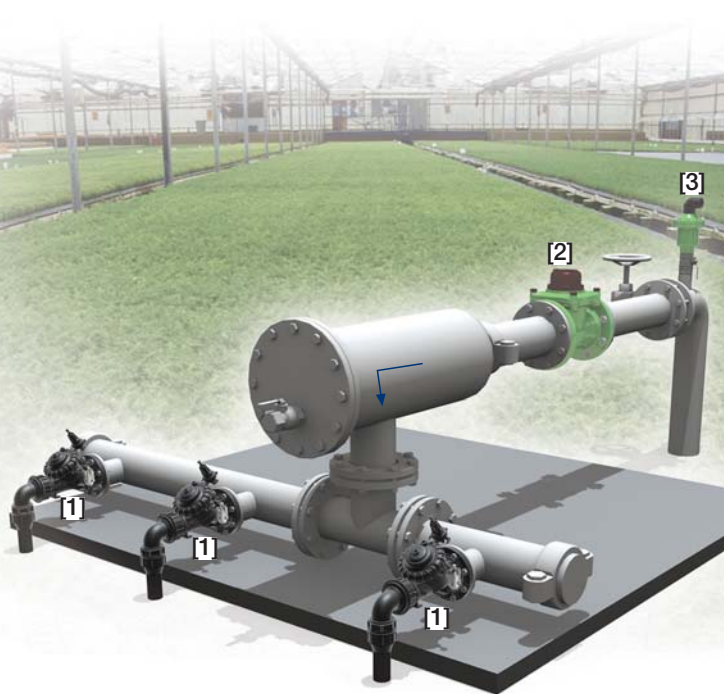
IR-120-54

The BERMAD Model IR-120-54 is a hydraulically operated, diaphragm actuated control valve that reduces higher upstream pressure to lower constant downstream pressure regardless of fluctuating demand or varying upstream pressure. It is a Normally Closed valve, which opens in response to a pressure rise command and shuts in the absence of that command.



## Features and Benefits

- Line Pressure Driven, Normally Closed
  - Closes upon control failure
  - Protects downstream systems
  - Amplifies and relays weak remote command
- 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
- Unitized Flexible Super Travel (FST) Diaphragm and a Guided Plug
  - Accurate and stable regulation with smooth closing
  - Requires low actuation pressure
  - Prevents diaphragm erosion and distortion
- Simple in-line inspection and service



## Typical Applications

- Computerized Irrigation Systems
- Pressure Reducing Stations
- Remote and/or Elevated Plots
- Distribution Centers
- Low Supplied Pressure Irrigation Systems
- Energy Saving Irrigation Systems

[1] BERMAD Model IR-120-54 opens upon pressure rise, command establishing reduced pressure zone.

[2] BERMAD Water Meter Model WPH

[3] BERMAD Air Valve Model ARC-A-I-I



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