350 Series

Filter Backwash Hydraulic Valve 4x4 Plastic

IR-4x4-350-P

The BERMAD Model IR-4x4-350-P is a compact 3-port valve, in a "T" configuration. It is double chambered, hydraulically operated, and diaphragm actuated.

Designed for automatic backwashing of filtration systems, the BERMAD Model IR-4x4-350-P is available in Angle flow (A) and Straight flow (S) configurations.



Straight Flow

[3]

[4]

Features and Benefits

- Line Pressure Driven
- Double Chambered Design
 - Quick and smooth mode changeWide application range
 - Requires low actuation pressure
 - Protected diaphragm
- Dynamic Sealing
 Seals at very low pressure
 - Prevents seal friction and erosion
- Engineered Plastic Valve Design
 Highly durable, chemical and cavitation resistant
- Long Valve Travel
 Higher flow and lower head loss
 - Smooth changes of flow direction
- Eliminates mixing of supply and waste water
- User- Friendly
 Can be installed in various orientations
 Simple in-line inspection and service
- **Typical Applications**
- Automatic Backwash of Filter Batteries
 - Gravel Filters
 - Sand Filters
 - Disk Filters
 - Screen Filters
- Single Filter Autonomic Backwash System
- Angled or Straight Installations

 BERMAD Model IR-4x4-350-S-P allows flow into the filter, switches close upon pressure rise command blocking inlet to filter and enables backwash flow from the filter.
 BERMAD Stations Model IP 705

[5]

[2] BERMAD Strainer Model IR-70F.

[6]

[3]

- [3] BERMAD Combination Air Valve Model C10.
- [4] BERMAD Pressure Reducing Valve Model IR-420.
- [5] BERMAD Quick Pressure Relief Valve Model IR-43Q.
- [6] BERMAD Pressure Sustaining Hydrometer Model IR-930-MO-X.

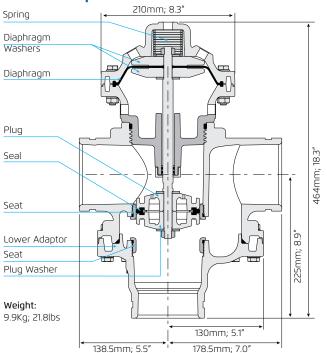


BERMAD Irrigation

IR-4x4-350-P

For full technical details, refer to Engineering Section.

Technical Specifications



Technical Data

Control Chamber Displacment Volume: 0.55 liter; 0.15 galon Operating Pressure: 0.7-10 bar; 10-145 psi External Operating Pressure: 85%-100% of operating pressure

Maximum Temperature: 65°C;150°F End Connections: Ports C & 2: Grooved 4" Port 1: Grooved 4"; Union Connector (Havazelet) 75mm or Grooved 4" x Int. Thread 3" Flow Patterns: Angled Flow, Reverse Angled Flow,

Straight Flow, Reverse Straight Flow

Materials

Valve Body, Separating Partition & Lower Adaptor:

Polvamide 6 – 30GF Black **Cover:** Polyamide 6 – 30GF, Angle Flow – Black, Straight Flow – Gray Diaphragm: NR-AL52 Nylon Fabric Reinforced Seats, Diaphragm Washers: Stainless Steel 304 Plug, Plug Washer: Acetal Copolymer Black Stopper Disk: PVC-U Seal, O-Rings: NBR Spring: Stainless Steel AISI 302 Shaft: Stainless Steel AISI 303

External Bolts, Studs, Nuts & Disks: Stainless Steel

How to Order

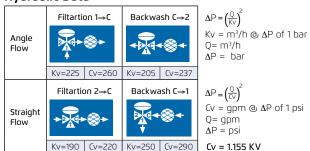
Please specify the requested valve in the following sequence: (for more options, refer to Ordering Guide.) Pattern / Construction Flow Option Materials Additional Drain Additonal Primary End Voltage & Position Tubing Sector Size Coating Materials Connections Feature Feature Connections Attributes & Fitting 00 IR 4x4 350 00 S Ρ VI UC PΡ Angle Flow Grooved 4" Union Connector Grooved ANCI C606-81 VI Uncoated UC Plastic Tubing & Fillings PP Straight Flow (Havazelet) 75mm Grooved 4" x Int. H Straigh & Reverse Flow S-0 Thread 3" VT Angle & Reverse Flow A-0

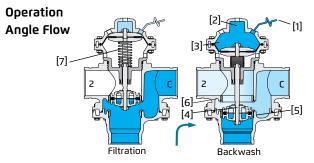


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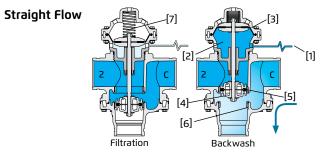
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Hydraulic Data





A Hydraulic Command [1], which pressurizes the Upper Control Chamber [2], forces the Diaphragm [3] actuated Plug Assembly [4] to move towards the Supply Port Seat [5], eventually sealing it drip tight. This allows flow from the filter through the Drain Port Seat [6]. Venting the upper control chamber causes the line pressure, together with the Spring [7] force, to move the Valve back to filtration mode.



A Hydraulic Command [1], which pressurizes the Lower Control Chamber [2], forces the Diaphragm [3] actuated Plug Assembly [4] to move towards the Supply Port Seat [5], eventually sealing it drip tight. This allows flow from the filter through the Drain Port Seat [6]. Venting the upper control chamber causes the line pressure, together with the Spring [7] force, to move the Valve back to filtration mode.

350 Series

Filter Stations