

Next Generation Air Control



Air Valves Series

For nearly half a century BERMAD has been the recognized pioneer and world leading provider of high quality hydraulic control valves. Its close relationship with customers, together with its market-driven product development, allows BERMAD to deliver innovative solutions that have proven themselves in the Irrigation, Waterworks, and Fire Protection industries.

BERMAD's advanced line of air valves joins its extensive line of hydraulic control valves to create comprehensive control solutions for pressurized pipelines and networks. System engineers and end-users can design and install far more optimized solutions for their irrigation system requirements.





The critical importance of air in irrigation systems

Irrigation systems of all sizes are often associated with discontinuous water supply for a variety of reasons; from energy costs and water availability, to agro-mechanical calculations and cost-effective shift irrigation. The result is a significantly higher presence of air in the system at the Main Network and the Irrigation Control Head, as well as in the hydrant lines and the Infield System. If air is not properly controlled the irrigation system experiences lower flow efficiency and is vulnerable to excessive pressure and vacuum conditions causing serious mechanical damage to pipes, seals, gaskets or fittings.

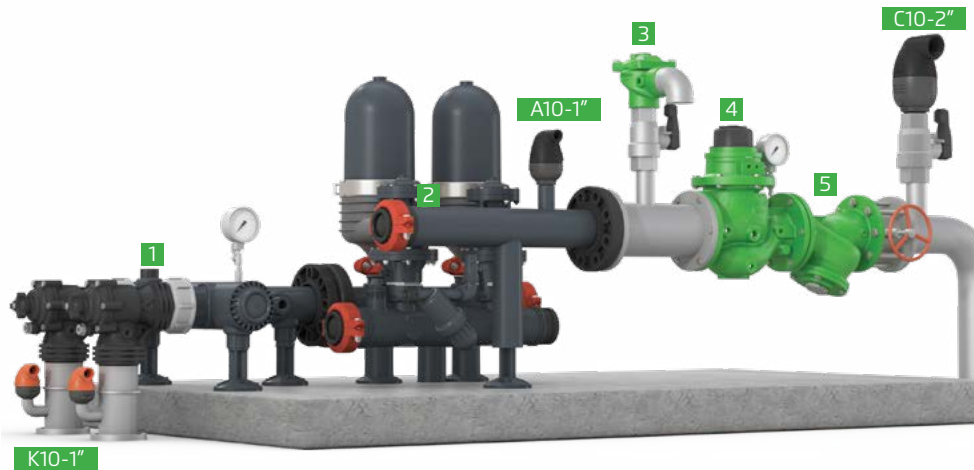
BERMAD Air Valves – Why they are better for your irrigation system

Control of air in irrigation systems is as essential as control of water. That's why BERMAD engineers have devoted years of extensive research to improve air control in water systems focusing on practical performance testing along with an in-depth evaluation of today's current range of air valve technologies. This extensive research has led to the development of an innovative new line of air valves based on the most advanced flow analysis and engineering tools available. It also led to the development of a unique modern test bench that serves both as a development tool and a quality assurance tool.

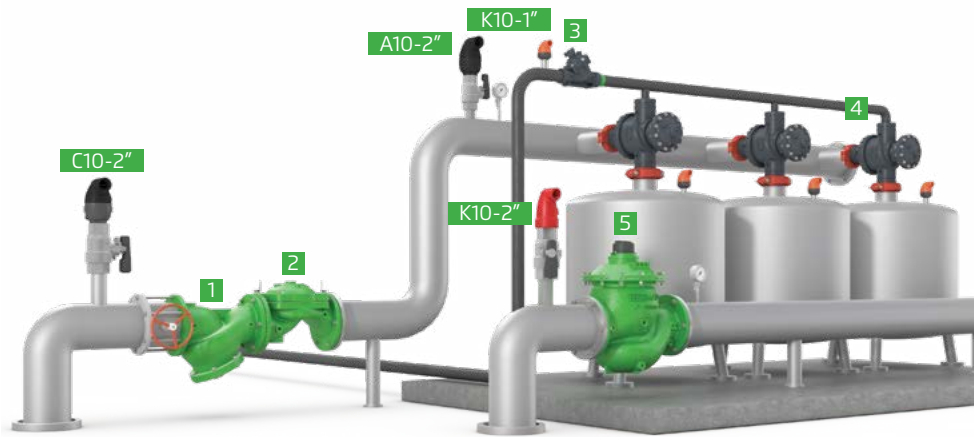
The new line of BERMAD Air Valves includes Plastic and Metal Air Valves ranging from 2" to 8" for Main Networks and Irrigation Heads, and Plastic Air Valves from ¾" to 2" for Infield Systems and Landscape irrigation offering:

- **Higher flow rates** - Advanced aerodynamic design with a straight-flow body allowing higher than ever before flow rates.
- **Low Pressure Sealing** - BERMAD Air Valves operate with a minimal operating pressure (0.1bar/1.5psi) based on dynamic sealing properties.
- **Minimal spray effect** - Minimizing the spray effect during automatic air release to negligible quantities.
- **Built-in surge protection (anti-slam feature)** - Responds to the approach of high velocity water column by slow air release, preventing damage to the valve and to the entire system.
- **Versatile design for easy installation** - Three types of outlets - downwards, sideways (that can swivel 360°) and circular.
- **Reliable Structure** - All parts are fully resistant to corrosion, chemicals and fertilizers, assuring lower maintenance and increased life span.





1. Hydraulic Control Valve Model 105 Angle
2. Filter Backwash Hydraulic Valve Model 350-P
3. Quick Pressure Relief Valve Model 43Q
4. Pressure Reducing Hydrometer Model 420
5. Strainer Model 70F



1. Strainer Model 70F
2. Pressure Reducing Valve Model 420
3. Flow Control Valve 170 – beu
4. Filter Backwash Hydraulic Valve Model 350 P
5. Pressure Sustaining Valve Model 930

The BERMAD advantage:

A history of unmatched quality, technical support and reliability:

Quality

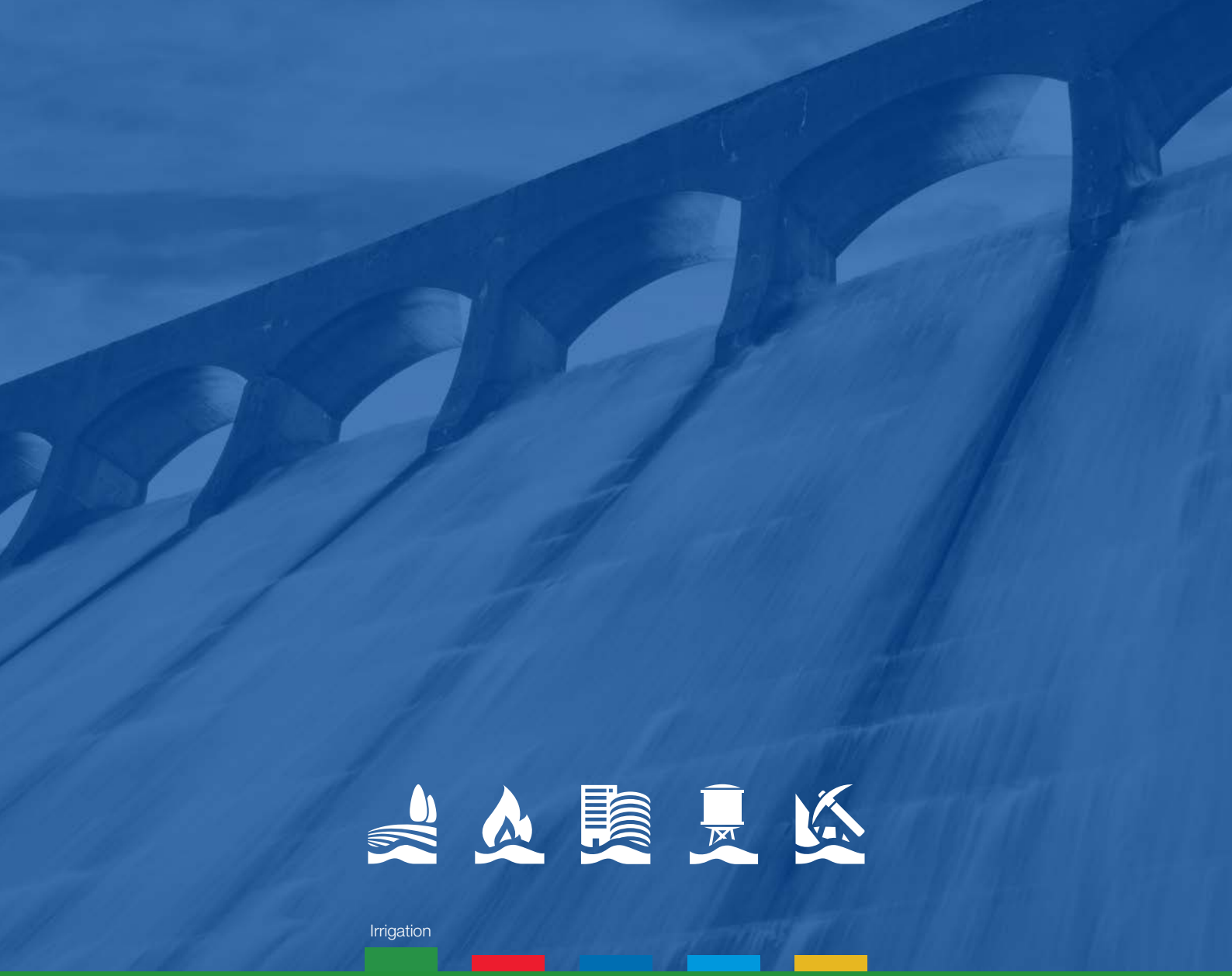
All BERMAD products comply with strict international standards. The new line of BERMAD Air Valves has been designed in compliance with AWWA-C512 and EN-1074/4 as well as other international industry standards. Based on the ability of the innovative BERMAD air flow test bench, which creates real operating conditions, customers receive highest quality air valves with proven performance.

Technical Support

Serving customers worldwide for more than 45 years, BERMAD is known for its advanced engineering, Quality Assurance, and for its high quality technical support reflecting the highest industry standards. The new BERMAD Air Valve product line is backed by application engineers and customer support teams offering design and implementation consulting, surge analysis, and online sizing for system optimization.

Reliability

BERMAD continues its long history of meeting customer needs with efficient, convenient and cost-effective solutions, now bringing to market today's most advanced air valves for irrigation systems.



Irrigation



www.bermad.com

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