

A.R.I. D-070

Unique Dynamic Combination Air Valve
For Mainstream and Extreme Conditions **PATENTED**



A.R.I. D-070 is a multi-purpose/multi-function air valve, based on patented technology unique to Aquestia. Combining innovative design with functionality, it optimally meets the everyday needs of water transmission systems, as well as treating occasional surges.

Typical Installations: Pumping Stations · Downstream and Upstream of Shut-Off Valves · Liquid Transmission Lines · Deep Wells · Long Constant-Sloped Pipeline Segments · Pipeline Peaks · Peaks Relative to Hydraulic Gradient · End Lines · Water Meters · Strainers and Filters · Systems Prone to High Velocity Air Discharge

The only valve to use a rolling diaphragm principle without a float, the D-070 achieves complete discharge of the air in the pipeline, in a controlled and gradual way, preventing slam and local up surges. The valve's compact size makes it particularly suited to sites requiring a low-profile air valve due to lack of space.

When the water column arrives in the water transmission system, air is discharged through a large opening. The air valve closes slowly enough to prevent an abrupt change of velocity, thereby preventing surge and water hammer. In the event of a vacuum (down-surge), the valve reacts quickly to admit large volumes of air into the water system, preventing down-surges and consequent pipeline failures.

Technical Specifications

Size range: 2"-8", 12"

Sealing pressure range: D-070 P (R.N.) 0.2-10 bar (PN 10) / 0.2-16 bar (PN 16), D-070 (Metal) 0.2-16 bar (PN 16)

Testing pressure: 1.5 times maximum working pressure

Maximum working temperature: 60° C

Maximum intermittent temperature: 90° C

Valve coating: fusion bonded epoxy coating in compliance with standard DIN 30677-2

Features

Multi-purpose design	combination and surge reduction air valve in one
Rolling Diaphragm operation	for smooth controlled discharge of air, preventing slam and reducing local surges
Compact size	easily installed in low-compact spaces
Specially selected materials	all internal operating parts are non-corrosive and durable
Large automatic air release opening	reduces obstruction by debris
Upper drain elbow	removes accumulated impure water from above the seal
Threaded outlet	insect-proof, for vent pipe connection
Flanged ends	to meet any required standard
Normally closed design	prevents intrusion of debris and contaminants.



D-070 Models



D-070 VB Easily transformed into a vacuum breaker valve



D-070-V One-way, out-only attachment. Enables air discharge only, preventing air intake



D-070 Flushing Tap Flushes out the system from debris and contaminants; reducing maintenance downtime



Bug Screen Add-on prevents the intrusion of debris or insects into the air valve (3" – 4")



D-070 Q A Dynamic Combination Air and Quick Pressure Relief Valve, combining a two-stage pressure relief compo