

NAV - NETAFIM AIR VALVE SERIES FOR IRRIGATION SYSTEMS

COMPREHENSIVE LINE OF HIGH-QUALITY VALVES
FOR DIVERSE APPLICATIONS



GROW MORE WITH LESS
WWW.NETAFIM.COM

 **NETAFIM**™
GROW MORE WITH LESS

THE IMPORTANCE OF AIR CONTROL

Irrigation systems often suffer from an irregular water supply. As a result, air bubbles and air pockets form throughout the irrigation system, including at the control head and within the main network and in-field system. Ineffective air control not only lowers flow efficiency and uniformity of the system, but also makes it vulnerable to excessive pressure and vacuum conditions. This can lead to serious mechanical damage of system parts including pipes, seals, gaskets and fittings. Given that air control is as important as water control, irrigation systems require quality air valves to ensure the highest levels of operational efficiency and effectiveness.

THE VALUE OF ADVANCED AIR VALVES

Renowned for supplying the industry’s highest quality and most comprehensive drip irrigation systems, Netafim offers the Netafim Air Valve (NAV) series. Leveraging decades of research in improving air control in water systems, Netafim’s innovative air valves are based on cutting-edge flow-analysis technology and engineering tools. Available in several sizes and configurations, the NAV series of kinetic and combination air valves is suitable for diverse irrigation applications and operating conditions.

Netafim’s standard-compliant air valves offer outstanding protection against air accumulation and vacuum formation, while preventing leakage in low-pressure conditions. Based on an advanced aerodynamic design and equipped with a large-diameter orifice for handling high flow rates, the reliable air valves are easy to install, require little maintenance, and have a long lifespan. Subject to the highest level of testing and quality control, the NAV series ensures a controlled flow of water and nutrients into crops, while increasing energy efficiency.



BENEFITS

- High reliability
- Easy installation
- Low maintenance
- Wide application range
- Long lifespan

NAVc 16

Combination Air Valves

Combination air valves for diverse irrigation applications

Highlights

- Large-diameter automatic orifice
- All-in-one product for safe pipeline filling/ draining and dissolved air pocket release
- Applications: main irrigation networks, irrigation control heads, in-field systems, landscape irrigation, pipelines
- Sizes: 3/4", 1", 2"

Operating data

- Pressure rating: 16 bar
- Operating pressure range: 0.1-16 bar
- Operating temperature: water up to 60°C

NAVc 10

Combination Air Valves

Combination air valves for diverse irrigation applications

Highlights

- Large-diameter automatic orifice
- All-in-one product for safe pipeline filling/ draining and dissolved air pocket release
- Applications: main irrigation networks, irrigation control heads, in-field systems, landscape irrigation, pipelines
- Sizes: 3/4", 1", 2"

Operating data

- Pressure rating: 10 bar
- Operating pressure range: 0.1-10 bar
- Operating temperature: water up to 60°C

NAVk 10

Kinetic Air Valves

Kinetic air valves for diverse irrigation applications

Highlights

- Large-diameter kinetic orifice
- Applications: main irrigation networks, irrigation control heads, in-field systems, landscape irrigation, pipelines
- Sizes: 3/4", 1", 2"

Operating data

- Pressure rating: 10 bar
- Operating pressure range: 0.1-10 bar
- Operating temperature: water up to 60°C



ADVANTAGES

- **High air flow rates:** generate unprecedented high air flow rates
- **Low leakage:** reduce leakage at low operating pressures (e.g. 0.1 bar/1.5 psi)
- **High durability:** withstand corrosion, chemicals and fertilizers
- **Versatile compact design:** equipped with downward, sideways (swivel) and circular outlets

KEY FEATURES

- **Aerodynamic full-body kinetic shield** – for preventing premature closure without disturbing air intake or discharge
- **Dynamic sealing** – for preventing leakage under low-pressure conditions
- **Corrosion, chemical and fertilizer-resistant materials** – for ensuring low maintenance and an extended lifespan

OPTIONAL FEATURES

- **Threaded outlet on valve base** – for connecting a pressure test point
- **Built-in surge protection/anti-slam** – for preventing damage to valve and system (only NAVc models)
- **Inflow prevention of atmospheric air intake** – for preventing damaged pumps, re-priming, siphon disruption, and flood or contaminated water intake (only 2" NAVc models)

PORTFOLIO HIGHLIGHTS

Quality

Netafim is dedicated to delivering the industry's highest quality products. Our air valves have undergone strict testing and quality assurance processes to ensure outstanding performance.

Support

Committed to customer success, Netafim fully supports all irrigation system products and solutions before, during and after implementation. Accompanying customers from start to finish, Netafim finish, we offer design and implementation consulting and support services to best meet their air valve needs.

Reliability

Netafim is renowned for drip irrigation solutions that are highly innovative yet simple and reliable. Designed with state-of-the-art technology and built with durable materials, Netafim's materials, our NAV series of compact air valves is easy to install, use and maintain.



ABOUT NETAFIM

Netafim is the global leader in drip and micro-irrigation solutions for sustainable productivity. With 27 subsidiaries, 16 manufacturing plants and over 3,000 employees worldwide, Netafim delivers innovative solutions in over 110 countries across the globe. Founded in 1965, Netafim pioneered the drip irrigation revolution, creating a paradigm shift toward low-flow agricultural irrigation. Today, Netafim offers a wide range of state-of-the-art irrigation and complementary solutions for agriculture, landscaping and mining. From drippers and dripperlines, through sprinklers and micro-emitters, to crop management technology (CMT) and greenhouse systems, Netafim's market-leading products and services enable cost-effective irrigation for optimal and sustainable results.

