A10
Air Valve
Pipeline Systems

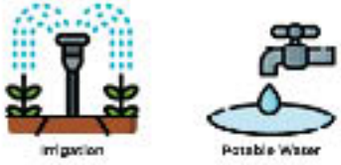
Product Description

DENZ-A10 Air Valve is one of the most essential components of the water supply systems. No matter whether it is a water distribution line or a sewage main, air valves play a critical role.
Two primary functions are performed by the DENZ A10 Air Valves in pipeline systems. One of the first things that can occur in a pressurized pipeline is to release the accumulated air that has accumulated within the solution. The air will form bubbles along the pipeline profile, which will gather at localized high points. Bubbles accumulate air when their buoyancy exceeds the energy required to transport them through liquid. Air release valves are manufactured by DENZ to release this free air.
An air valve also admits air into the system when the internal pressure of the pipeline drops below atmospheric pressure. By admitting air into the pipeline as the internal vacuum condition develops, the magnitude of the vacuum pressure can be reduced and as a result help prevent the pipeline from experiencing excessive deflection and/or collapse as well as help prevent the formation of a full vacuum condition in which vapor cavities may form from the fluid vaporizing.
DENZ Air Valves can contribute to the improvement of the efficiency of the water system.

Application Areas

- Water supply network
- Water lines
- Water transmission
- Water supply
- Pump suction lines

Production References	
Size Range	DN50 – DN500
Pressure Range	PN10/16/25/40
Temperature	-10°C to +80°C
Design	EN 1074-4
Connection	Flanged - EN1092-2
Coating	Electrostatic Powder Epoxy
Testing	EN 12266-1
Marking	EN 19
Operation	Automatic



Product Features

- Advanced design with simple mechanism, strong float to prevent cracking during sudden water hammer and quick closure.
- Aerokinetic mechanism to resist blow shut under higher air velocity even up to sonic velocity of air.
- No arms or levers to prevent vibrating, bending, direct closure of the float.
- Smooth cage outside of the float, keep float moving in specified guide rail.
- Bottom rubber buffer for collision prevention and drain easy with proper holes around the cage during vacuum.
- Outside screen will be an option for safety and prevent insects or birds in.
- Fully fusion epoxy coated inside and outside of valve body for long term services.
- Polyethylene floating parts increase corrosion resistance, which increases service life.
- Floats made of polyethylene are easier to replace.
- In order to maintain full flow of water, air release valves must be used at pipeline peak points.
- Completely coated body and bonnet meet the hygienic requirements for potable water networks.
- It is made from ductile iron, with a flanged connection in accordance with EN 1092-2. The floating part is made of polyethylene and is easily replaceablely.
- Working pressure range: 0.5 – 16 bar.