



Vent-A-Riser

“Surge Arrestor” and Air Release Valve

- > Dampens The Effect of Water-Hammer At Pump Startup
- > Vacuum Protection During Pump Trip
- > Low Sealing Pressure (0.3 bar)
- > Stainless Steel Construction
- > 3 Year Warranty



Automatic Surge Protection Overview

The “always on” controlled air release function of the Vent-A-Riser dampens the impact of potentially destructive water hammer in the event of uncontrolled pump start-up and prevents vacuum forming in the riser when the pump stops and the riser drains.

Operation

At pump start, air is forced through an “Anti-Shock” orifice resulting in the deceleration of the approaching water column due to the resistance of rising air pressure in the valve. This dampens a potential pressure transient when the valve closes.

Vacuum Protection

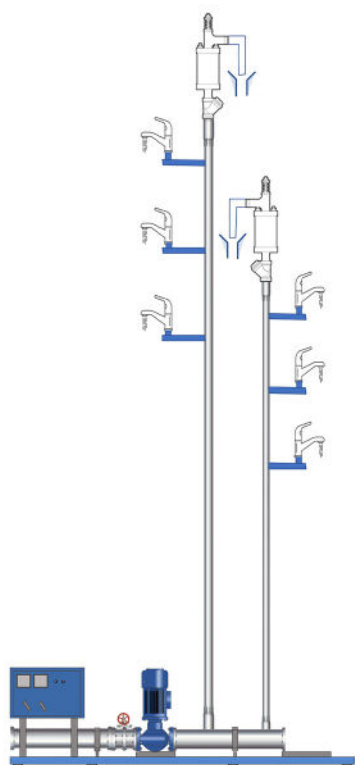
The large orifice admits air into the riser to prevent vacuum and damage to pipes and fittings from occurring when the booster set is down (powered off).

Effective Air Release

The small orifice functionality allows air to be removed from the system while the system is pressurized, preventing the formation of air pockets allowing the pipe system to operate efficiently.

Guaranteed performance

Every valve is pressure tested to ensure trouble free operation.



TYPICAL ARRANGEMENT

The valve must be installed at the top of each riser to ensure adequate Water-Hammer protection. A suitable isolating valve should also be installed to facilitate maintenance.

To ensure proper operation the pipeline must be adequately flushed prior to installation.

Valve must be mounted directly to ‘T’ connection supplying the final branch of the riser.

A 1” male outlet connection allows any released water to be discharged externally to the building or to drain with a suitable air gap via a tundish.

Refer to WRAS IRN R535 note for installation guidance.

TECHNICAL DATA

Materials of Construction: Body: Grade 304 Stainless Steel; Floats: HDPE; Rubber parts: EPDM - Suitable for potable water use	
Minimum operating pressure	0.3 Bar g
Maximum operating pressure	10 Bar g
Maximum surge pressure	40 Bar g
Operating temperatures	2°C - 60°C
Air intake capacity at -0.1 bar g / -10kPa	49 Normal l/sec 176 m ³ /h
End connection	1" BSP Female
Weight (including 'Y' Strainer)	3.5 Kg

IRN R535 - The length of connecting pipework to this fitting should be kept to a minimum to prevent stagnation

