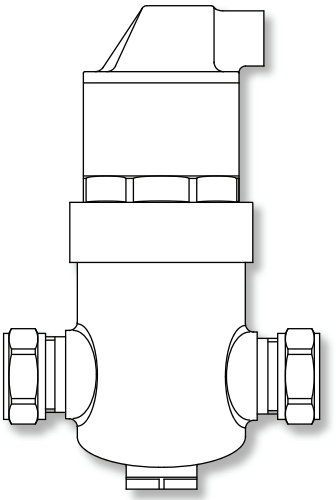
inta-Vent®

Intavent Automatic Air Vent

IV22.1 & IV28.1

Installation and Maintenance Instructions



inta

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Introduction

The Intavent automatic air vent (de-aerator) contains an innovative cartridge that separates the air bubbles generated inside the system from the flowing medium.

The flowing medium entering the de-aerator meets the resistance of the cartridge which captures the air bubbles and once they have merged and reached an adequate size they are released and rise upwards and are expelled by the automatic air vent valve.

These instructions cover the installation, operation and maintenance of the Intavent, please read the enclosed instructions before commencing the installation of this product, please note;

We recommend that the installation of any Inta product is carried out by an approved installer.

It is recommended, especially in hard water areas, that a water softener such as the ActivFlo or ActivFlo lite be fitted to reduce the risk of calcium deposits forming.

Products

Intavent 22mm automatic air vent	IV22.1
Intavent 28mm automatic air vent	IV28.1

Technical Specification

Maximum working pressure:	10 bar
Maximum discharge pressure:	10 bar
Min./max system temperature:	-10 (with glycol) to 110˚C
Maximum glycol percentage:	30%
Threaded connections:	BS EN ISO 228
Compression connections:	BS EN 1254-2
Flow co-efficients:	
In-line model: DN 20 - Kv	12.66 m^3/hr
Adjustable model: DN28 - Kv	10.3 m^3/hr

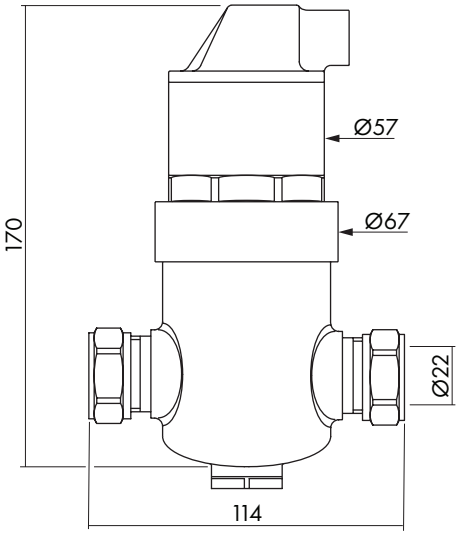
Check Components

Before commencing remove all components from packaging and check each component with the contents list.

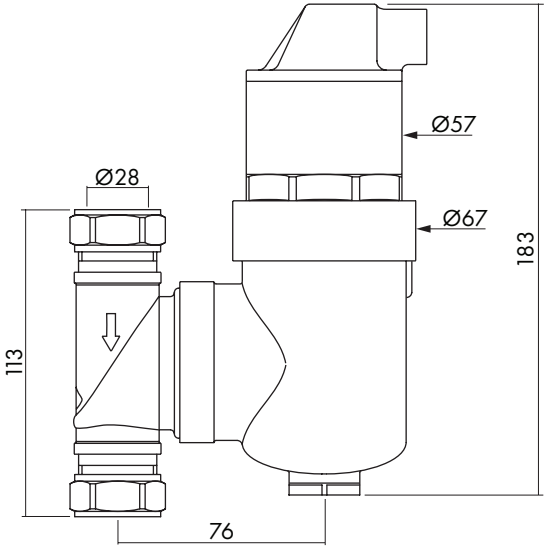
Ensure all parts are present, before discarding any packaging. If any parts are missing, do not attempt to install your Intavent automatic de-aerator until the missing parts have been obtained.

Dimensions

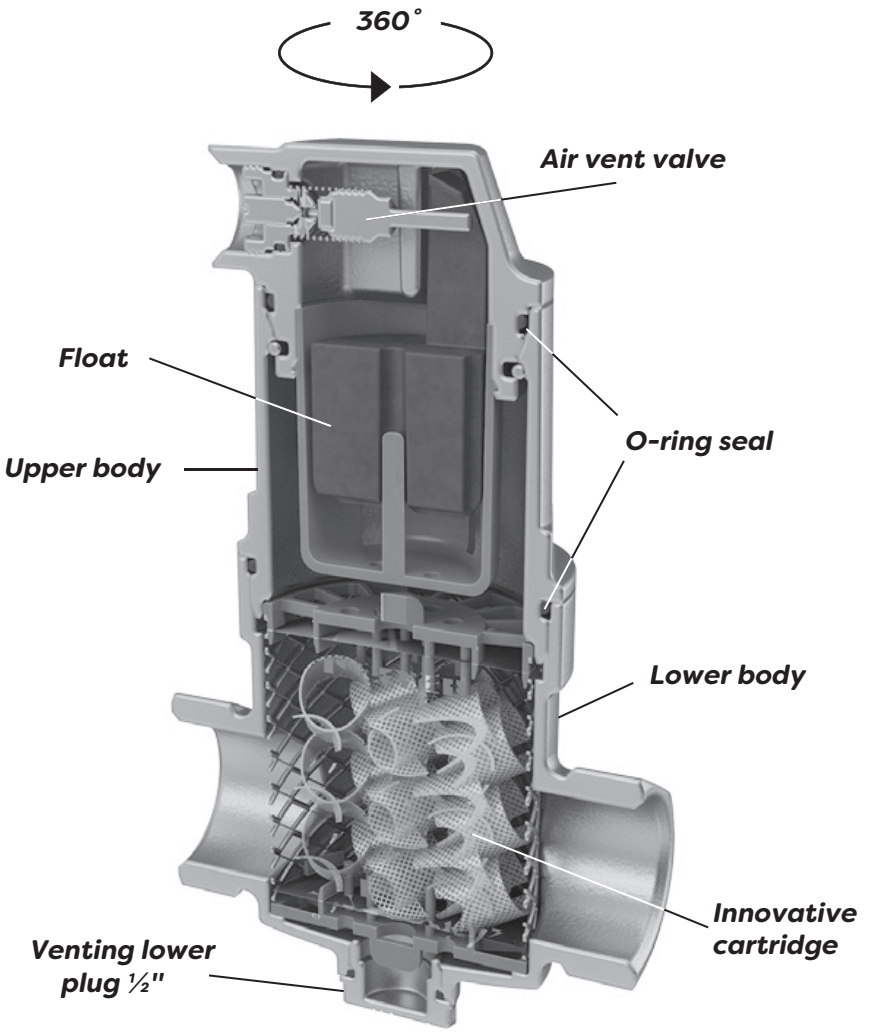
IV22.1



IV28.1



Components



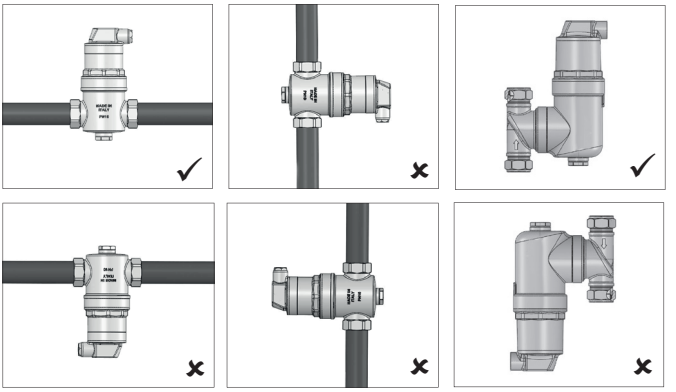
Warnings

- Carefully read the instructions in this manual before installing or performing maintenance on the components. Keep the manual in a safe place for future reference.
- Improper use of the product invalidates the warranty.
- If used with high temperature fluid care must be taken to avoid getting scolded. Before any installation or maintenance is undertaken check that the system water is at ambient temperature.
- Thoroughly flush the system before installing the de-aerator.

Introduction

The de-aerator contains an innovative cartridge that separates the air bubbles generated inside the system from the water.

The flow of water entering the de-aerator meets the resistance of the cartridge which captures the air bubbles and once they have reached an adequate size they rise upwards and are expelled by the automatic air vent valve.



Installation Continued

The de-aerator should be installed on the warmest part of the system as this is the area in which micro-bubbles will form more readily.

In the case of heating systems, install at the boiler outlet. In the case of cooling systems, they should be installed on the return piping, at the cooling unit (Chiller) inlet.

It is recommended that shut-off valves are installed upstream and downstream of the de-aerator in order to allow cleaning and maintenance to be carried out.

The de-aerator should be installed vertically with the automatic air vent upper most as shown.

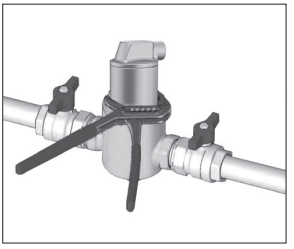
The IV22.1 straight de-aerator is bi-directional.

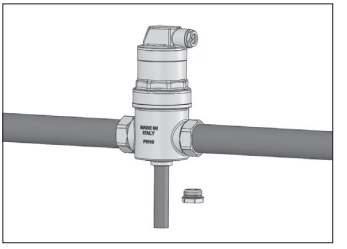
The IV28.1 adjustable de-aerator is suitable for installation in vertical and horizontal pipes as the swivel connection can rotate 360° around its axis.

The IV28.1 must be installed with the flow following the direction arrow shown on the connection tee.

The air vent valve can be rotated through 360° and thus direct the discharge where it is most suitable, without having to stop or drain the system.

Maintenance





Before carrying out maintenance, close the isolation valves upstream and downstream of the de-aerator and then use a pipe wrench to unscrew the upper part of the body.

Once the cartridge has been removed and cleaned, refit it into the body.

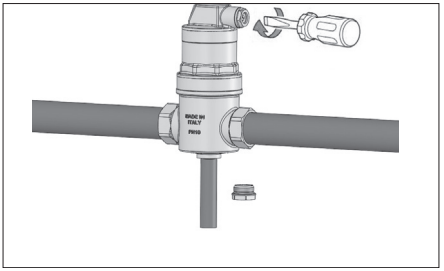
If the air vent valve leaks, it should be removed or replaced.

To remove the cap use a wrench to unscrew and extract the vent valve and then clean it by flushing with clean water.

To locate and refit the float turn the upper part of the de-aerator upside-down and then refit the upper part of the de-aerator onto the lower body.

A ½" threaded plug is located at the bottom of the de-aerator so that a drain valve can be installed.

Maintenance



It is important to make sure that the air vent screw is always unscrewed to vent the air automatically.

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Please leave this Manual for the User

To activate your product warranty please visit
www.intatec.co.uk
and click on Product Registration

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