Automatic Air and Vacuum Valve for Waste Water

Model 989-02
Automatic air release and vacuum valve with pre filter unit, SS 316, for long-term functionality with greasy media, operating ranges: 0 – 150 PSI (10 Bar)

<table>
<thead>
<tr>
<th>Type</th>
<th>Size ANSI/FNPT</th>
<th>Range of Pressure PSI/Bar</th>
<th>Overall Height Inch/mm</th>
<th>Overall Width Inch/mm</th>
<th>Weight lbs./Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange</td>
<td>4”/2”FNPT</td>
<td>0 – 150 PSI 0 – 10 Bar</td>
<td>23” 585 mm</td>
<td>18.5” 471 mm</td>
<td>60.6 lbs. 27.5 Kg</td>
</tr>
</tbody>
</table>

Features:

Automatic and infinitely variable air valve for waste water applications.
Recommended for waste water collecting systems with a high content of grease within media.
Maximum Operating Pressure: 150 PSI (10 Bar)
Operating Range: 0 – 150 PSI (0 - 10 Bar)
Flexible Connection: either 4” Flange or 2” FNPT in one unit possible
Pre filter body and screen of stainless steel 316
Valve seat does not contact the medium (air cushion).
All mechanical parts are manufactured of corrosion-resistant materials.

Valve Maintenance:

Air valves must be tested for function and maintained at least once per year, or when the pre filter unit is intercepting large volumes of debris and the air flow can be hindered to reach the ARV mechanism.
Infinitely variable surge protection

In general understanding the surge protection of an ARV is a measure taken to protect the pipeline system. Filling of the pipeline should be within international standards to prevent water hammer (5ft/s) or (0,25m/s) and correct opening and closing of valves is fundamental.

The design of the H-TEC model 989 ARV allows for large volumes of air (in/out). The unique function for infinite air release/intake, due to the automatic movements of the diaphragm in operation modus, (e.g. fluid level rises, diameter of orifice is reducing infinitely variable) soft sealing and slowing the water column preventing water hammer.

Traditional ARV’s operate with two functions: open or closed. The rubber diaphragm of the H-TEC model 989 is infinitely variable operating. In case of increased velocity in the valve the float will lift slow and throttle down the air flow. This function slows the water column, water hammer from this ARV will not occur. The H-TEC model 989 ARV has an integrated pressure spring on the vertical shaft attached to the float. This mechanical feature protects from vibrations, smooth function, prevents amplified movements. No additional surge prevention unit necessary.