

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)



Type	Size ANSI/FNPT	Range of Pressure PSI/Bar	Overall Height Inch/mm	Overall Width Inch/mm	Weight lbs./Kg
Flange	4"/2"FNPT	0 – 150 PSI 0 – 10 Bar	23" 585 mm	18.5" 471 mm	60.6 lbs. 27.5 Kg

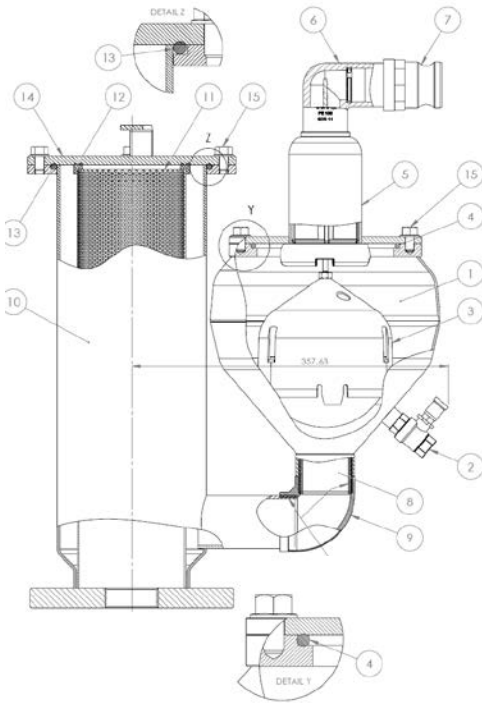
Features:

- 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.

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Materials:

No.	Component	Material
1	Body ARV #989	Stainless Steel, 316
2	Ball Valve	Stainless Steel, 316
3	Function Unit	See H-TEC #989
4	O-Ring 157 x 6	NBR 70Sh
5	Upper ARV Part	See H-TEC #989
6	Elbow with integrated Screen	See H-TEC #989
7	Camlock Coupling	PP
8	Threaded Nipple 2"	Stainless Steel, 316
9	Elbow 90°, 2"	Stainless Steel, 316
10	Filter Unit with Flange 4"/2" FNPT	Stainless Steel, 316
11	Filter Cartridge, sq. 123mm	316 (X6CrNiMoTi17-12-2)
12	Sealing Ring f. Filter Cartridge	NBR 70Sh
13	O-Ring 170 x 6	NBR 70Sh
14	Top Cover with Handle	Stainless Steel, 316
15	Hex Screw M10x16	Stainless Steel, 316

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.