Flomatic Corporation

Written Specification:

The Comboair® valves allow the automatic release of air from the line when it is being filled and permits air to enter when being emptied. Air is allowed to escaped when the system is in full operation and under pressure, due to the compound lever in conjunction with a large and small orifice in one body casting.

Liquid rising in the valve will allow air to escape through the large orifice. When liquid enters the valve raises the float and lever system, along with the pressure plunger and the main valve. As the liquid reaches its limit the main valve rest against the seat and so does the pressure plunger. The valve is now closed and no liquid can escape.

Accumulating air may rise into the valve while in operation and under pressure displacing the liquid at the top of the valve body, the float will then drop as the liquid recedes. As this happens the pressure valve will open allowing the accumulating air to escape, then the liquid level will rise and the valve will again close.

If the line should break or drain the float will drop all the way down as the liquid drains from the body. The valve then stays in the open position allowing the entrance of air and eliminating the danger of vacuum, thus the elimination of pipeline collapse.

As each condition presents itself the valve will repeat these cycles automatically. This valve can function with hot or cold water, and with many chemicals and oil base liquids present.

The valve body, top and flange are ductile iron. Stainless steel fulcrums, Buna-n seat and Armstrong gaskets are all standard equipment.

The valves shall be equal to Flomatic models 6540, 6541, 6542, 6543 and 6546.

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