

Universal Sewer Valves



US
SERIES

Valve Function

- Exhausts air as a pipeline fills, and allows air in as pipeline drains
- Allows accumulating air to escape while line is in operation

Features Include

- Standard and short body series available
- Available in sizes 2" thru 6"



The Universal Sewer Air Release Valve is designed to permit the automatic escape of large quantities of air from a pipeline when the line is being filled, and to permit air to enter the pipeline when the line is being emptied.

It will also allow accumulating air to escape while the line is in operation and under pressure. This is accomplished with a compound lever system that functions in conjunction with a large and small orifice in one integral body casting.

As the liquid rises into the valve, air escapes through the large orifice to the atmosphere. Liquid entering the valve raises the float and lever system, carrying with it the pressure plunger and the pressure seat. When the liquid has raised the float to its limit, the stainless steel pressure seat rests against the air and vacuum seat, and the pressure plunger rests against the pressure seat. In this position, the valve is closed and no liquid can escape.

The valve body is elongated, as are other Sewage Air Valves. This helps to keep solids and debris away from the valve seating mechanism.

If accumulating air rises into the valve while the line is in operation and under pressure, it will displace the liquid at the top of the valve body, and the float will drop as the liquid level recedes.

As this occurs, the pressure air release valve will open, permitting the escape of the accumulated air, after which the liquid level will rise and the valve will close.

Should the pipeline be drained through natural processes, or if a large break develops, the float will drop all the way down as the liquid level drains from the valve body. The valve will then stay in the full open position, permitting the entrance of air, and eliminating the danger of pipeline collapse due to vacuum.

These cycles will repeat automatically as each condition presents itself, and the valve will function satisfactorily with hot or cold water, and in the presence of many chemicals and oil base liquids.