

UL Series Universal Air Release Valve, AWWA C512, NPT or ANSI, Sizes 1-4"

UL SERIES ADVANTAGES

- ✓ AWWA C512 Compliant
- ✓ Single Body Unit Performs the Functions of Both Air & Vacuum and Pressure Air Valves
- ✓ Unique Compound Lever System Seals Both the Pressure Orifice and the Air & Vacuum Orifice Simultaneously
- ✓ Multiple Orifice Sizes Available for Different Maximum Pressure and Flow Rate Needs
- ✓ Protectop Prevents Debris From Entering Valve Outlet
- ✓ Meets All NSF 61 and NSF 372 Certifications



The Universal Air 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 also allows accumulating air to escape while the line is in operation and under pressure. This is accomplished with a compound lever system functioning 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 main valve. When the liquid has raised the float to its limit, the stainless steel main valve rests against the seat. The pressure plunger also rests against its seat, which is the main valve. In this position, the valve is closed and no liquid can escape.

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 recedes. As this occurs, the pressure 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 should a large break develop, 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-based liquids.

UL SERIES OPTIONS

- ✓ Both NPT Screwed and ANSI Class Flanges Are Available
- ✓ Available with Stainless Steel Trim or Bronze and Stainless Steel Trim
- ✓ Fusion Bonded Epoxy
- ✓ Available with Screwed, 125lb and 250lb Flanged Inlets
- ✓ Available in Configurations to Comply with AIS, BA, BAN and BB Certifications



PRODUCT LINE	DATE	REVISION
UL Series Universal Air Release Valve, 1"-4"	10/3/2023	1
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UL Series Design Features	D-AV-UL-DF-r1	