

## Double orifice air release valve supplier in Saudi Arabia

Middleeast Valve is the greatest [Double Orifice Air Release Valve Supplier in Saudi Arabia](#). We supply to cities like Kalba, Ajman, Al Ain, and Umm Al Quwain. A double orifice air release valve is a specialized type of valve used in fluid systems to automatically release air or gas that accumulates within the system while preventing the entry of air back into the system. It is designed to maintain the system's efficiency and prevent potential damage caused by air pockets.

The main function of a double orifice air release valve is to eliminate air or gas that may collect in a pipeline or system during operation or when it is initially filled with fluid. Air pockets in the system can cause numerous issues, including reduced flow efficiency, pressure fluctuations, and potential damage to the system. The DOARV ensures that these air pockets are continuously released to maintain optimal system performance.

Middleeast Valve is the foremost [Double Orifice Air Release Valve Supplier in Saudi Arabia](#) and valve operates based on the principle of buoyancy. When air or gas accumulates in the system, it tends to rise toward the highest points in the pipeline. The DOARV is usually installed at these high points or locations prone to air accumulation. The valve consists of two orifices: a large one and a small one.

1. **Air Release:** When air accumulates in the system, it rises towards the top and reaches the large orifice. The buoyant force on the air exceeds the closing force of the valve, and the air is released to the atmosphere through the large orifice.
2. **Air Intake Prevention:** Once the air is released, fluid from the system fills the void left by the released air. When the fluid level rises, it covers the small orifice. The small orifice is designed to have a higher closing force, preventing air from re-entering the system.

### Advantages:

1. **Improved System Efficiency:** By continuously removing air pockets, the DOARV ensures that the fluid system operates with optimal efficiency, reducing pressure drops and energy losses.
2. **Protection Against Damage:** Eliminating air pockets help prevent water hammer, pipe corrosion, and cavitation, which can damage the system over time.
3. **Low Maintenance:** Double orifice air release valves are typically low-maintenance devices, requiring minimal attention once correctly installed.

### Industries:

- Water supply and distribution
- Wastewater Management
- Oil and Gas

- Power Generation
- Chemical Processing
- Irrigation

Description:

Body Material- ductile iron, cast iron, WCB,WCC, WC6, LCB, LCC

Size- 1/2" to 8"

Pressure No- PN6 to PN25

Class- 150 to 300

<https://www.middleeastvalve.com/product-category/double-orifice-air-release-valve/>

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