

Steam Trap supplier in UAE

Middleeast valve is the biggest [Steam trap supplier in UAE](#). We supply to cities like Masafi, Fujairah, and Ajman.

A steam trap is a device used in steam systems to discharge condensate (the liquid formed when steam condenses back into water) while preventing the escape of live steam. It serves an essential role in maintaining the efficiency and functionality of steam distribution systems by removing unwanted condensate and preventing steam wastage.

The primary function of a steam trap is to allow condensate to be removed from the steam system while blocking the passage of steam. Condensate can accumulate in steam distribution lines due to the cooling of steam as it travels through pipes. Accumulated condensate can hinder the proper functioning of steam-operated equipment, reduce energy efficiency, and even cause damage to the system. Steam traps help maintain proper steam pressure and prevent condensate buildup, ensuring the system operates optimally.

The working of a steam trap depends on its type. However, in general, a steam trap operates as follows:

- **Opening Phase:** As condensate accumulates in the system, the trap's mechanism is triggered to open the valve. This allows the denser condensate to pass through while preventing the lighter steam from escaping.
- **Discharge Phase:** Once the condensate has been discharged, the trap's mechanism closes the valve to prevent steam from escaping. The trap remains closed until the next cycle of condensate buildup occurs.
- **Cycle Repeats:** The trap cycles between opening and closing based on the presence of condensate. Different types of traps have specific mechanisms that enable this cycling process.

Middleeast valve is one of the best [Steam trap supplier in UAE](#) and are essential components in steam systems that play a crucial role in maintaining efficient and effective steam distribution. They come in various types, each with its unique mechanism for ensuring proper condensate removal while preventing steam loss.

Description

Body Material: Carbon steel, Ductile iron, Stainless steel (SS304, SS316), Cast iron, Forged steel (A105, F11, F22)

Size: 1/2" to 2"

Nominal Pressure: PN10 to PN250

Class: 150 to 300

Types of steam trap:

- Thermostatic steam trap
- Thermodynamic steam trap
- Inverted bucket steam trap
- Bimetallic steam trap
- Ball float steam trap

Advantages of steam traps:

- Improved system efficiency
- Prevention of water hammer
- Reduced maintenance
- Increased system lifespan
- Improved product quality

Parts

- Valve Body
- Valve Mechanism
- Thermostatic Element
- Cover
- Disc
- Strainer Plug
- Insulation Cap

·Industries which use them

- Power Generation Plants
- Oil and Gas Industry
- Pulp and Paper Industry
- Textile Industry
- Chemical Industry

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