

## Foot Valve suppliers in Sharjah

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A foot valve is a specialized type of check valve designed for vertical pump applications. It is installed at the lower end of a suction pipe, submerged in the fluid it is meant to transport. The primary purpose of a foot valve is to prevent the backflow of fluid into the suction line, maintaining prime in the pump and facilitating continuous pumping operations.

### Components and Construction:

Foot valves typically consist of a sturdy casing, a hinged flap or disc, and a strainer. The casing is usually made of durable materials like cast iron or stainless steel to withstand the rigors of various fluid applications. The hinged disc allows fluid to flow in one direction while preventing reverse flow. Additionally, the built-in strainer helps filter out debris and particles, protecting the pump from potential damage.

### Working Principle:

The working principle of a foot valve is straightforward yet crucial for efficient pump operation. When the pump is in operation, the foot valve opens, allowing the fluid to flow into the suction pipe and subsequently into the pump. Once the pump is turned off, the foot valve closes, preventing the fluid from flowing back into the suction line and maintaining the pump's prime.

### Significance in Pump Efficiency:

Foot valves play a pivotal role in ensuring the efficiency of pumps by preventing air from entering the suction line. Air ingress can disrupt the pump's prime, leading to cavitation, reduced efficiency, and potential damage. The presence of a foot valve maintains a continuous flow of fluid, promoting optimal pump performance.

### Preventing Pump Damage:

The strainer integrated into the foot valve acts as the first line of defense against debris and contaminants in the fluid. By filtering out solid particles, the foot valve helps prevent pump damage and wear, prolonging the lifespan of the entire fluid system.

### Installation and Maintenance:

Proper installation and regular maintenance are critical for ensuring the effective functioning of foot valves. Installing the foot valve in the correct orientation, keeping the strainer clean, and inspecting the valve regularly contribute to a trouble-free operation and extend the lifespan of the entire pumping system.

A supplier of Foot Valve in Sharjah guarantees the sustained priming and operational readiness of pumps. This is achieved by ensuring a consistent fluid flow from the fluid source, while simultaneously preventing the backward flow of fluid during pump downtime.

Description:

Available Materials: SS304, SS316, Cast Iron and Ductile Iron, WCB

Class: 150 to 300

Nominal Pressure: PN10 to PN63

Size: 1/2" to 24"

Ends: Flanged, Threaded

Parts of foot valve:-

- Body
- Valve Disc
- Fixing Bolts
- Fixing screws
- Strainer flanged
- Strainer

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Address: Building No-6515 Ameer Mohammad Bin Abdulaziz St., Ad Danah Dist., Ras Tannurah 3631-32817, Kingdom of Saudi Arabia.

