

Floating Ball Valve Supplier in UAE



UAE valve is the top-most [Floating Ball valve supplier in UAE](#) . A floating ball valve is an important part of many fluid control systems. In this post, we examine what they are, how they function, and their attributes as well as the benefits of each type — to know which one is best suited for your application. Floating ball valves are quarter-turn valves used in industrial scenarios to control the flow of gasses or liquids through a pipe. The pneumatic actuation due to the ball float can easily and quickly open or close.

Floating Ball Valve Working Process

Construction: A floating ball valve consists of a hollowed-out valve body, having the inlet and outlet ports in it alongside spherical-shaped metallic or plastic-covered balls. Fluid flows through this chamber by passing over the ball. It typically consists of a stem to a cage-guided setup configuration. The ball in a full-bore valve has a central hole (or bore) that, when open, allows fluid to flow. It can be a stainless steel or other material ball to match the type of fluid being controlled.

How They Work: Pressure from fluid forces the ball against the valve seat, sealing it and blocking pressure. To divert the valve, a 90-degree rotation is necessary, which implies a quarter-turn ball. It consequently aligns the hole in the ball with the flow path, allowing the passage of fluid.

Ball Valve Types Floating Design: In the case of a floating ball valve, it is designed rather than being held by any trunnion, so that otherwise comprises most top bottom ends available for this type, which means they have the connection between only two tips . This design ensures total rotated rotation across either end, with another side joined from below the base level, allowing screw-type rotation among the highest rotating participants.

Components of Floating Ball valve supplier in UAE

Valve Body: The valve body is typically made from carbon steel, stainless and alloy steel, or cast iron. Material selection depends on the chemical compatibility of a fluid, operating temperature range, and pressure rating.

Ball: A ball-type component that restricts the flow of fluids being controlled. It is normally made from robust, rust-resistant metals such as bronze or brass — sometimes stainless steel. On the surface, wear resistance and sealing performance can be improved by coatings or specific treatments.

Seats: The valve seats form the sealing surfaces for the ball when the valve is closed. Most often, they are built from Viton or EPDM resilient high-performance polymers, semi-rigid elastomers, and rigid resins like Polytetrafluoroethylene.

Actuator: The actuator handles the opening and closing of the valve. It can be automatic. The desired amount of control and the particular application determine the type of actuator.

Industries Using Floating Ball Valves

Oil and Gas
Petrochemical
Chemical Processing
Power Generation
Water and Wastewater

Description:

1. Body Material: Stainless steel, brass, or other metals, Cast Steel (WCB, WCC, WC6, WC9), Cast Iron, SS316, SS304, Forged Steel (F22, F51, LF2, F304, F304L, F316, F316L)
2. Size: 1/4" to 48"
3. Class: 150-2500; PN 10-PN 450
4. Ends: Buttweld, Flanged, Socketweld, Threaded
5. Operation: Gear operated, Electric actuated, Lever-operated, Pneumatic actuated.

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