

Floating ball valve suppliers in UAE

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A floating ball valve is a type of quarter-turn valve used to control the flow of a fluid (liquid or gas) through a pipeline. The "floating" design refers to the ball inside the valve, which is not fixed in position and is free to move within the valve body. This design allows the ball to float or move slightly to maintain contact with the sealing surfaces, ensuring a tight seal.

Here's how a floating ball valve typically works:

Valve Structure:

- A floating ball valve consists of a hollow valve body with a circular opening (bore) through which the fluid flows.
- Inside the valve body, there is a movable ball with a hole (port) through its center.

Ball Movement:

- The ball is connected to the valve stem, allowing it to rotate within the valve body.
- The ball is not fixed to the valve body; it's free to move within the valve chamber.

Sealing Mechanism:

- The ball has a sealing surface (often made of soft materials like PTFE or other polymers) that mates with matching sealing surfaces within the valve body when the valve is closed.
- When the valve is closed, the ball rotates to align the hole in the ball (port) with the pipeline, allowing fluid to flow.

Suppliers of Floating Ball Valve in the UAE are favored across a range of applications for their straightforwardness, dependability, and success in managing fluid flow.

Description:

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)

Size: 1/4" to 48"

Class: 150-2500; PN 10-PN 450

Ends: Butt weld, Flanged, Socket weld, Threaded

Operation: Gear operated, Electric actuated, Lever-operated, Pneumatic actuated.

Advantages of floating ball valve:

- Simple design and construction
- Low friction
- Quick on/off operation
- Good flow control
- Minimal maintenance

Industries of ball valve:

1. Oil and gas
1. Power generation
2. Chemical processing
3. Water treatment
4. Industrial piping

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