

# Floating ball valve manufacturers in Mexico



South American Valve is a leading Floating ball valve manufacturers in Mexico .A floating ball valve is a type of quarter-turn valve that controls the flow through a hollow, perforated and pivoting ball. Floating: A term indicating the manner in which a ball is supported within a valve. Floating Ball Valves, unlike trunnion-mounted ball valves where the ball is fixed to a rotation bearing such that it rotates on its own axis in a floating-style valve, does not have any bearing housing. Floating ball valves are valued for their simplicity, reliability, and effectiveness in providing a secure shut-off in a wide range of fluid handling systems.

## Types:

Casting Floating Ball Valve

Forged Floating Ball Valve

## Parts:

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1. Body
2. Ball
3. Seat
4. Stem
5. Seal
6. Actuator

## Working Mechanism:

**Ball Movement:** The ball is free to "float" slightly within the valve body. When in a closed position, fluid pressure coming from the outside tries to push the ball into contact with the

downstream seat forcing them together so that they form an almost perfect seal, preventing flow.

**Quarter-Turn Handle Operation:** When the valve handle is turned 90 degrees (a quarter turn), the ball rotates, aligning the hole in the ball with the flow path in the valve body, allowing fluid to pass through. Turning the handle back 90 degrees returns the ball to the closed position, where the hole is perpendicular to the flow path, stopping the flow.

**Sealing:** The floating design attuned to the ball so that it can re-position slightly under downstream seat pressure and provide tight sealing (especially beneficial in low-pressure applications). This design works to provide a straightforward and reliable shut-off.

### **Applications:**

**General:** Floating ball valves are mainly used in different applications, such as oil and gas industry, chemical processing plants, water treatments etc., performing the function of on-off or shut off valve.

**Low to Medium Pressure Systems:** They are used generally in low and medium pressure systems as the floating design may not be suitable for high-pressure applications, unlike trunnion-mounted ball valves.

### **Advantages:**

**Easy to Operate:** The valve has a simple operational design, making it an easy construct for navigating and maintaining.

**Robust Sealing:** Particularly good for sealing with low pressure applications the floating ball provides a strong seal.

### **Floating ball valve manufacturers in Mexico. Ships across below Industries:**

1. Water and Waste Treatment
2. Chemical Processing Industry
3. Oil and gas production Industry
4. Power generation Plants
5. Pulp and paper Industry
6. Marine and shipping Industry
7. Mining and mineral processing Industry

### **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: Butt-weld, Flanged, Socketweld, Threaded

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

**Visit our website:**

<https://www.southamericanvalve.com/product-category/floating-ball-valve/>

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