

Duplex Stainless Steel Ball Valve Manufacturers in USA



ValvesOnly is a leading [Duplex Stainless Steel Ball Valve Manufacturers in USA](#). Duplex steel ball valves are high-tech industrial parts used in pipelines for controlling and regulating fluid flow. They are distinguished by the use of duplex stainless steel in their manufacturing.

Duplex stainless steel is a corrosion-resistant alloy that combines the beneficial properties of austenitic and ferritic stainless steels. The duplex structure provides enhanced strength, durability, and resistance to corrosion, making it particularly well-suited for challenging environments such as corrosive chemical processes, offshore oil and gas platforms, and seawater applications. The duplex steel ball valve features a spherical closure element, commonly made of stainless steel, which is rotated to control the flow of fluids through the valve. This design allows for efficient and precise regulation of fluid flow, making duplex steel ball valves a critical component in various industries where reliability and resistance to harsh conditions are paramount.

The resilience of duplex steel ball valves to high temperatures, pressure changes, and corrosive media is one of their main advantages. The

remarkable corrosion resistance provided by the duplex steel construction prevents degradation and preserves the valve's integrity even in harsh conditions. The rigorous operating circumstances of the oil and gas, chemical processing, petrochemical, and marine industries need the use of materials with exceptional mechanical and corrosion-resistant qualities, which is why these valves are widely used in these fields. Duplex steel ball valves are also highly praised for their extended lifespan and low maintenance needs, which ultimately add to their cost-effectiveness. To sum up, duplex steel ball valves are essential parts of fluid control systems, providing a strong and dependable answer for sectors requiring high-performance materials in difficult operating conditions.

Industries:

1. Oil and Gas
2. Petrochemical
3. Chemical Processing
4. Marine and Offshore
5. Power Generation
6. Pulp and Paper
7. Water Treatment
8. Aerospace and Defense

As a [Duplex Stainless Steel Ball Valve Manufacturers in USA](#), our valves provide these benefits:

1. Duplex steel possesses excellent corrosion resistance, making duplex steel ball valves highly resistant to corrosion in aggressive and corrosive environments.
2. They can withstand high-pressure and demanding operating conditions.
3. Their ability to perform in diverse and challenging environments makes them valuable components in various fluid control systems.
4. They are well-suited for applications involving extreme temperatures, ensuring reliable performance in both high-temperature and cryogenic conditions.
5. The corrosion-resistant nature of duplex steel reduces the need for frequent inspections and replacements, contributing to cost savings over the valve's lifecycle.

6. The combination of corrosion resistance and high strength results in a longer service life for duplex steel ball valves.
7. The ball valve design allows for precise control of fluid flow.
8. The tight sealing provided by the ball valve design minimizes the risk of leaks, contributing to enhanced safety and environmental protection, especially in industries dealing with hazardous or volatile substances.

Description:

1. Body Material: Duplex Steel (F51, F53, 4A. 5A), ASTM A995, A890
2. Class: 150 to 2500.
3. Pressure: PN25 to PN450.
4. Size: ½" to 72".
5. Operations: Lever operated, Handwheel operated, Pneumatic actuated, Electric actuated
6. Ends: Flanged, Threaded, Socket Weld, Butt Weld

Visit us: <https://valvesonly.com/product-category/duplex-ball-valve/>

Our Address: 80, Broad Street, Manhattan, New York, 10004