

SS-250 STAINLESS STEEL SLIDE GATES



- SIZES 6" TO 168"
- STAINLESS STEEL SLIDE AND FRAME WITH SELF-ADJUSTING SEAL SYSTEM
- RATED FOR LOW, MEDIUM, AND HIGH-PRESSURE APPLICATIONS

MARKETS



SPECIFICATIONS

Head Pressures	Low, medium, and high-pressure applications
Size Range	Width: 6"-168", Height: 6"-168"
Frame, Yoke, & Slide Material	Stainless steel ASTM A-240 Type 304 or 316
Mounting	Direct wall mounted, wall thimble mounted, embedded channel mounted, surface channel mounted and pipe flange mounted
Stem Material	Stainless steel ASTM A-276 Type 304 or 316
Mounting Orientation	Vertical or at an incline with oil seal assembly
Seat Material	Ultra-High Molecular Weight Polyethylene (UHMW) ASTM D-4020
Actuation	Non-gearred manual, geared manual, electric motor, 2" nut
Sealing Material	Neoprene ASTM D-2000, EPDM ASTM D-2000, or Viton ASTM D-1418
Design/Test Standard	AWWA C-561, NSF 61 & NSF 372 certified
Assembly and Mounting Hardware	Stainless steel ASTM F-593 & F-594 Type 304 or 316



1. High-Strength Stainless Steel Construction

The SS-250 Series features a fabricated stainless steel frame and slide assembly designed to withstand demanding service conditions. Gates are available in SS-304 and SS-316 stainless steel based on corrosion-resistance requirements. This high-strength construction provides excellent resistance to fatigue and structural deformation. The frame and slide are available in a wide range of standard and custom sizes to meet specific project requirements.

2. Advanced Self-Adjusting Seal System

The SS-250 Series uses the self-adjusting seal system with UHMW guides, which provides a smooth sliding surface for low-friction operation. The UHMW surfaces also prevent metal-to-metal contact, preventing galling and supporting dependable long-term sealing performance and operation even after extended periods of inactivity.

The Seal System limits leakage to less than 0.05 gallons per minute per foot of sealing perimeter under both seating and unseating head conditions. This is half of the allowable leakage requirements per AWWA C561. The Seal System has been tested for over 100,000 operating cycles with negligible wear, demonstrating reliable sealing performance in demanding water and wastewater applications.

3. Highly Configurable Design for Flexible Mounting and Operation

The SS-250 Series is available in a wide range of configurations. Gates can be used in 4-sided or 3-sided sealing applications with upward-opening or downward-opening (weir) operations. Available mounting configurations include direct wall, wall thimble, embedded channel, surface channel, and pipe flange mounting, with custom mounting options offered to suit specific civil structures. This customization ability makes SS-250 a perfect choice for both new construction and retrofit water control projects.

The gate frame can be configured as self-contained or non-self-contained, based on the distance from invert of gate opening to operating structure and the where the operating thrust will need to be absorbed by the integrated yoke or the civil structure.

Additional options include bottom seals, stem configurations, operator types, operator mounting type, and material selections for gate, accessories and hardware. All these options make the SS-250 Slide Gate versatile and highly configurable to meet any operating and installation requirements.

4. Designed for Ease of Maintenance

The SS-250 Series is engineered with ease of maintenance in mind. The self-adjustable seal system is designed to allow sealing components to be inspected and replaced without removing the gate frame from the wall, significantly reducing maintenance time and eliminating the need for costly structural disassembly.

5. NSF Certified for Potable Drinking Water

The SS-250 Series complies with NSF/ANSI 61 and NSF/ANSI 372 making it suitable for potable drinking water system components. Its corrosion-resistant stainless steel construction makes it ideal for a wide range of applications, including wastewater treatment plants, irrigation systems, potable water facilities, and demanding industrial environments.



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