1498 East 359th St., Eastlake, OH 44095 Ph (440) 975-1601 Fax: (440) 975-1689

Stainless Steel Sluice Gates Suggested Specifications

The sluice gates were shown in the plans and specifications shall be as manufactured by **Northcoast Valve & Gate, Inc.**

Materials of Construction

Frame, Slide and Reinforcing Members - Stainless Steel ASTM A276, Type 304 or 316

Stems - Stainless Steel, ASTM A276 Type 304 or 316

Fasteners - Stainless Steel, ASTM F593, Type 304 or 316

Rubber Seals - Neoprene, ASTM D2000

Guide Bars - Ultra High Molecular Weight Polyethylene, ASTM D4020

Guides

Guides shall be of stainless steel type 304 or 316 with formed channel member for maximum rigidity and shall be either face mounted or embedded design as shown on the plans.

Disc

Disc shall be constructed of stainless steel type 304 or 316 with 1/4" minimum thickness and reinforced with structural members to limit gate deflection to 1/360 of span under full head conditions.

Seals

Slide gates shall contain a flush-bottom seal attached to the frame invert member. The seal shall extend into the guide frames and provide complete sealing for the entire width of the disc. J-bulb type seals shall be mounted inside of the gate frame and be secured with stainless steel flat head screws and UHMW poly cover bars. J-bulb seals shall have mitered and epoxy sealed cornes.

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Stainless Steel Sluice Gate Specifications

Stem Guides

Guides shall be constructed of stainless steel, bronze bushed, adjustable and spaced to provide and l/r ratio of 200 or less.

Manual Lifts

Gates shall be provided with either a handwheel or gear operated with cast bronze drive nuts threaded to engage the operating stem. Gear operators shall have bearings to support the opening and closing thrusts. Handwheel operators shall have cast aluminum handwheels and bearing housings. Gear operators shall have cast iron housings with positive mechanical seals. Dual interconnected gear operators shall be provided for all gates where the gate width is 5 ft. and larger and is double the gate height.

Stem Covers

Operators shall be provided with clear butyrate stem covers with vent holes and rain caps. Travel shall be indicated on mylar scales designed for outside conditions and marked to properly indicate open and closed positions in 1" increments.

Identification

All gates shall be provided with nameplates permanently fastened to gate and provided with manufacturer's information.

Shop Tests

All gates shall be subjected to welding and assembly criteria as outlined in Northcoast Valve & Gate, Inc. "Quality Control Manual" and submitted with detailed shop drawings during review process.

Installation

All gates shall be installed as detailed in manufacturer's installation guide.

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Stainless Steel Sluice Gate Specifications

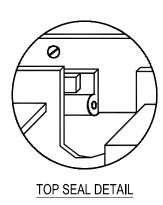
Start-Up and Testing

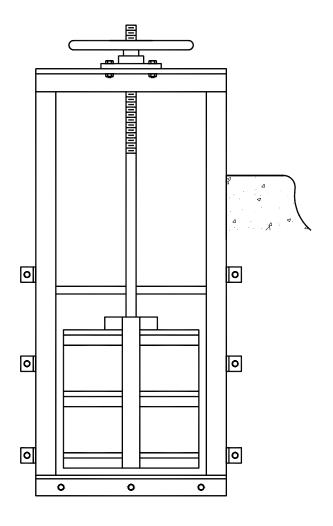
Contractor shall make all installations and provide for adjustments as necessary to place system in proper operating order. Contractor shall conduct field check in presence of owner or agent to demonstrate operation of product.

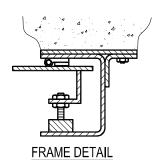


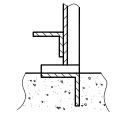
STAINLESS STEEL SLUICE GATES SERIES SSL-100

- * WALL MOUNTED FRAMES
- * SELF CONTAINED
- * J-BULB SEALS
- * FLUSH BOTTOM SEAL
- * LOW LEAKAGE RATES
- * 25' SEATING/UNSEATING HEADS







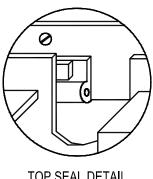


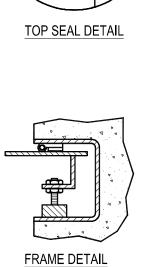
BOTTOM CLOSURE DETAIL

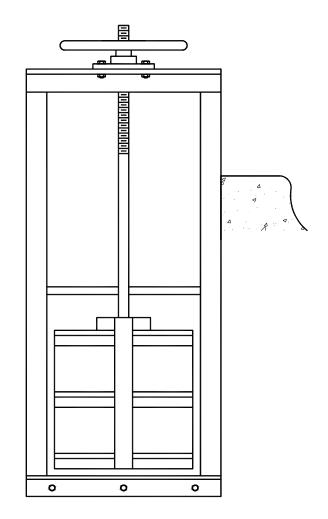


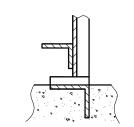
STAINLESS STEEL SLUICE GATES SERIES SSL-200

- * EMBEDDED FRAMES
- * SELF CONTAINED
- * J-BULB SEALS
- * FLUSH BOTTOM SEAL
- * LOW LEAKAGE RATES
- * 25' SEATING/UNSEATING HEADS







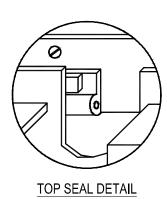


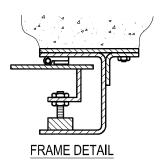
BOTTOM CLOSURE DETAIL

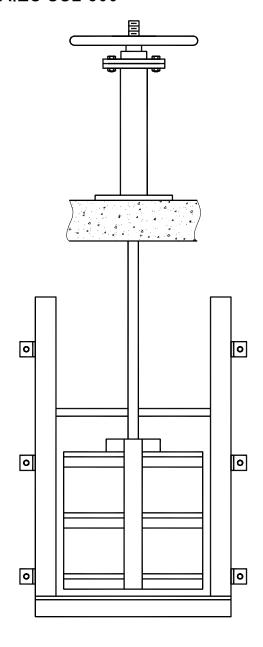


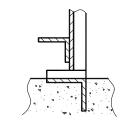
STAINLESS STEEL SLUICE GATES SERIES SSL-300

- * WALL MOUNTED FRAMES
- * NON-SELF CONTAINED
- * J-BULB SEALS
- * FLUSH BOTTOM SEAL
- * LOW LEAKAGE RATES
- * 25' SEATING/UNSEATING HEADS









BOTTOM CLOSURE DETAIL