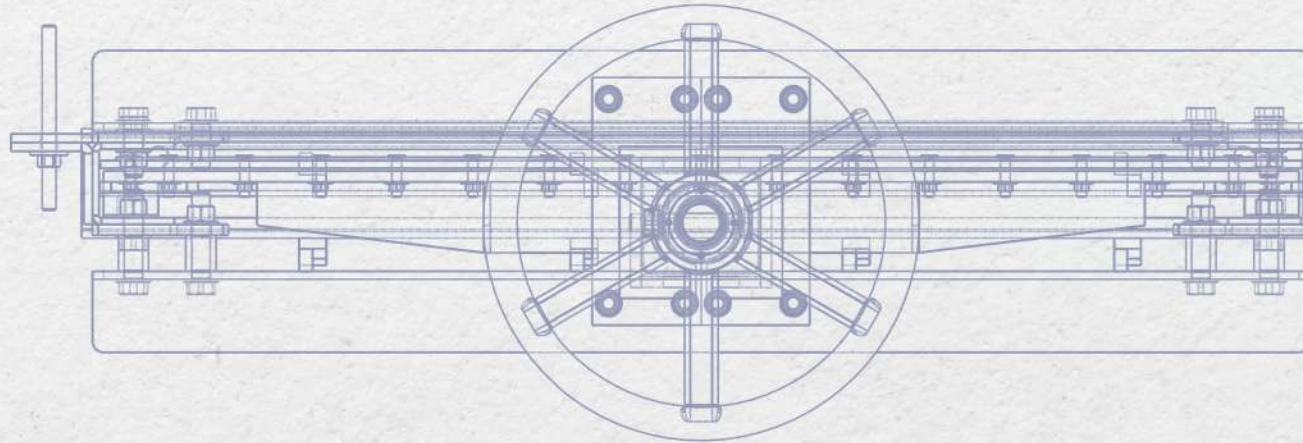
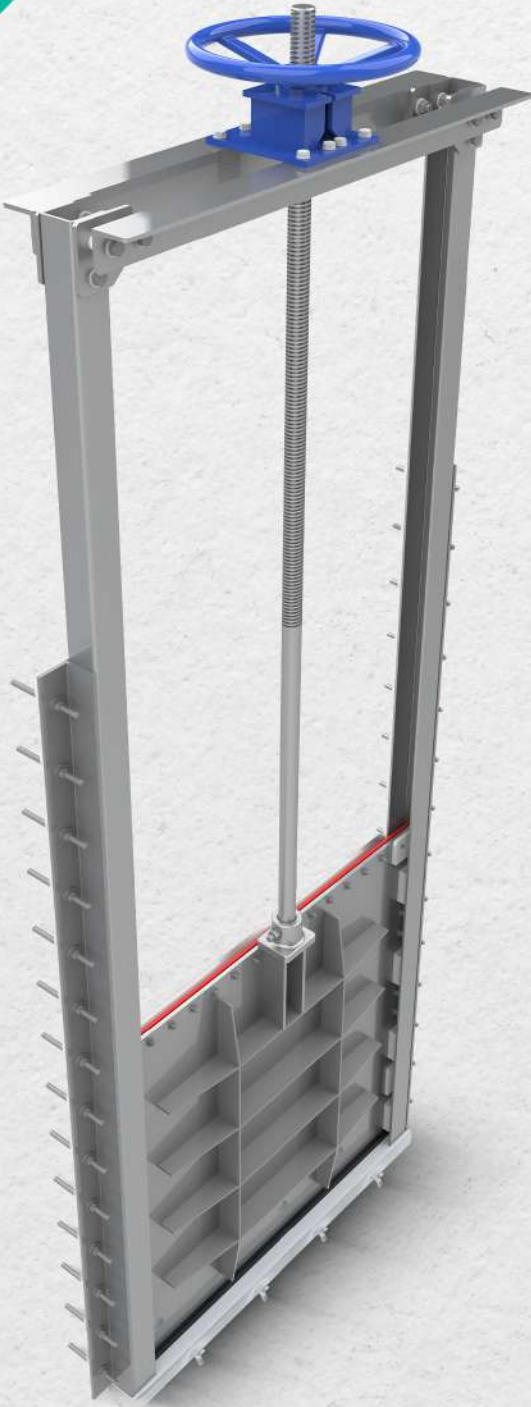


SLUICE GATES

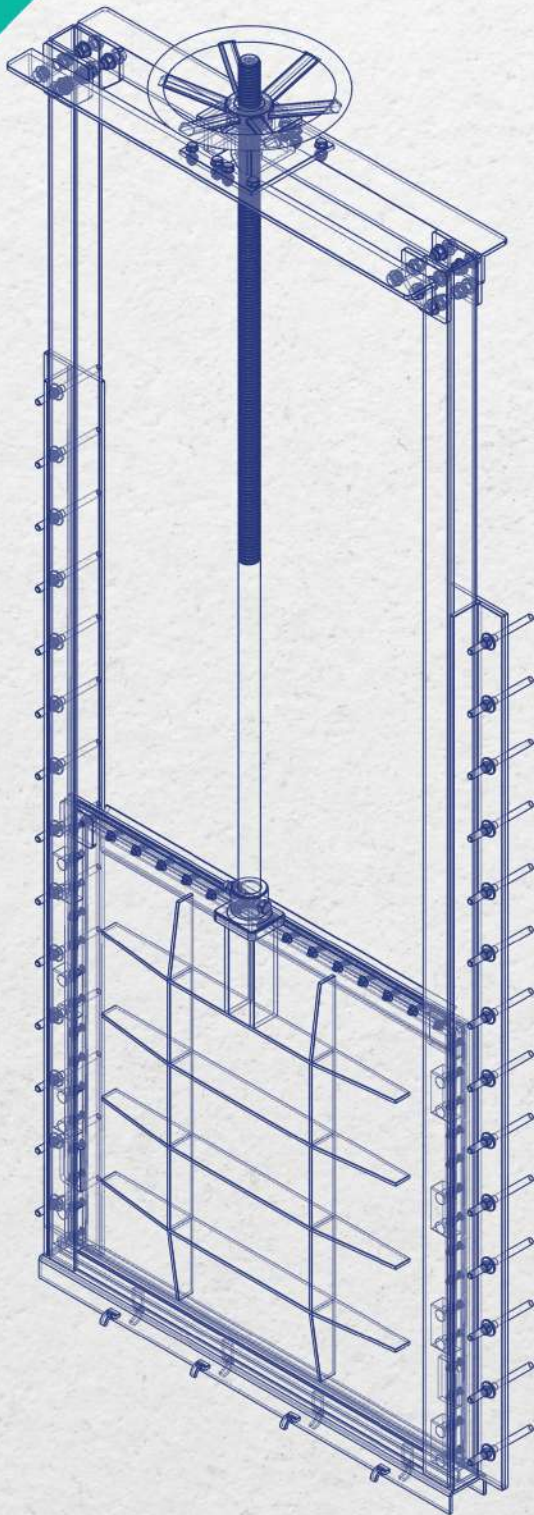
A Water Control Gate Product





SLUICE GATES

A Sluice Gate is a vertical opening gate that is used to isolate fluid flow and control fluids flow rate. Our Sluice Gates is designed to cater On-setting as well as Off-setting water heads, with 4 sides as well as 3 sides sealing options. The selection of the Sluice gate in accordance with its duty, is important to satisfy the design criteria and to provide the most cost-effective solution. A modern Sluice gate is designed to cater to a wide variety of duties from low seang to high off-seating heads.



ABOUT PROBLEM



High Leakage

Leakage in the Sluice Gate is acceptable upto a limit above that its a problem. Leakage commonly happens through improper sealed surface



Wear & Tear at Bottom

Generally flowing fluid carrying debris causes erosion of the parts obstructing in flow stream which leads to cut-out and debris collection



More Frictional Losses

Since Sluice Gates have many rubbing components there are high friction forces in addition to the the barrier weight



Difficulty in Installation

Due to its large sizes and proper placement requirement, installation of the gates can sometimes be difficult and time consuming



Varying Channel Dimensions

Non-Standardized and Non-Modular design restricts the interchangeability of parts between different gates of same opening size

OUR SOLUTION

Frame

Frame is the bordering structure containing the system. Constructed in consideration of ease of assembly.

Seal

Special Musical Note type Seal is meticulously selected as they are known for their High-Quality Sealing and Durability.

Bottom Sealing

Bottom Sealing flushed with bottom arrangement attached to the frame and invert of the opening.

Lifting Mechanism



Manual



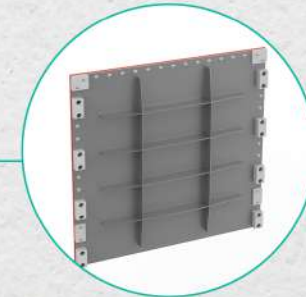
Electric-Motor
Gearbox



Electric-Actuator

Stem

Stem's main function is to move the Barrier plate vertically up and down while maintaining its structural integrity.



Barrier

Barrier's main function to effectively hold still and flowing water at a particular head while maintaining its structural integrity.

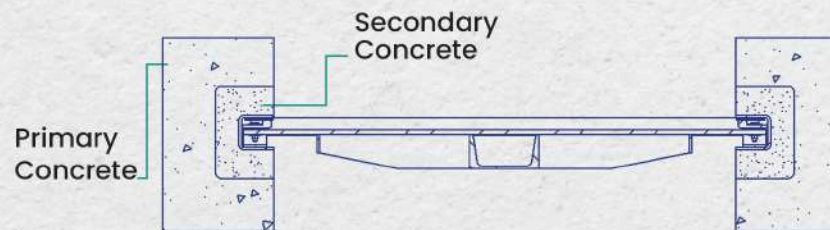
- ✔ In compliance with AWWA C561/ BS 17775/IS 13349
- ✔ Removable Top Frame assembly provides easy removal of barrier
- ✔ Use of Thrust Bearing (Reduces Friction)
- ✔ Use of UHWMPE as Guide (less coefficient of friction material)
- ✔ Customizable fabricated gates suit to any opening size
- ✔ Available Accessories: Position Indicator, Stem Extension, Guide Bracket, Polycarbonate

SLUICE GATE MOUNTING OPTIONS



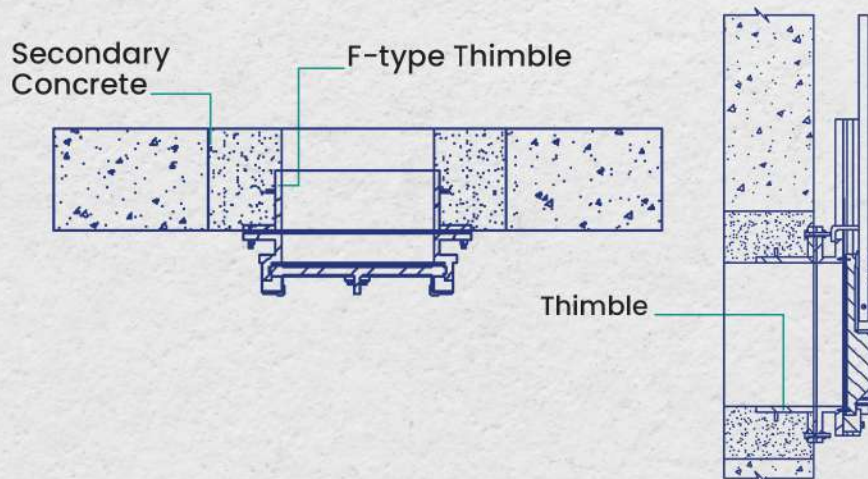
WALL MOUNTED

Wall Mounted Sluice Gates are mounted on a wall face with an opening to be enclosed. These gates are mounted with the help of chemical anchor bolts. The sealing between the wall face & the gate face is achieved by inserting a rubber packing.



CHANNEL EMBEDDED

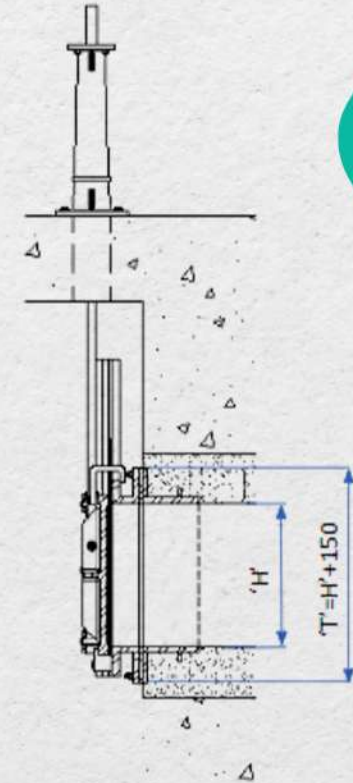
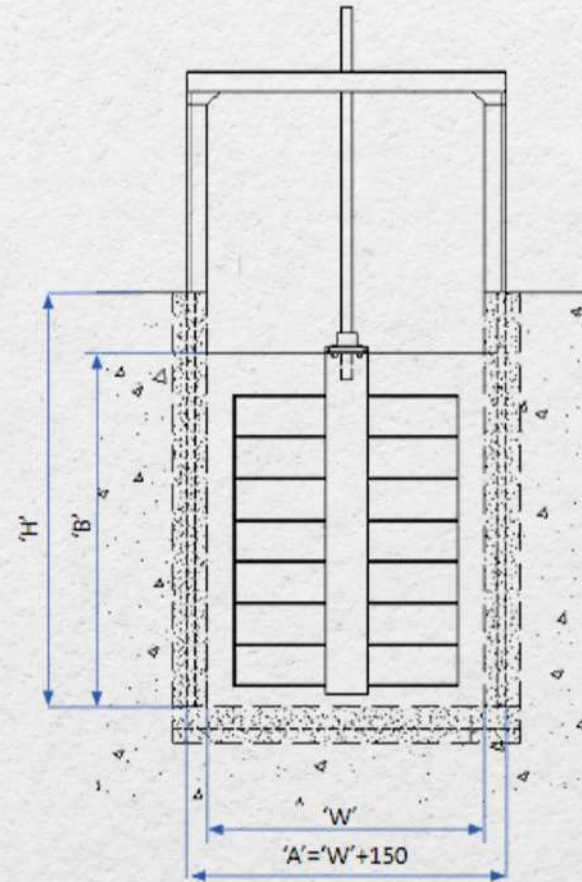
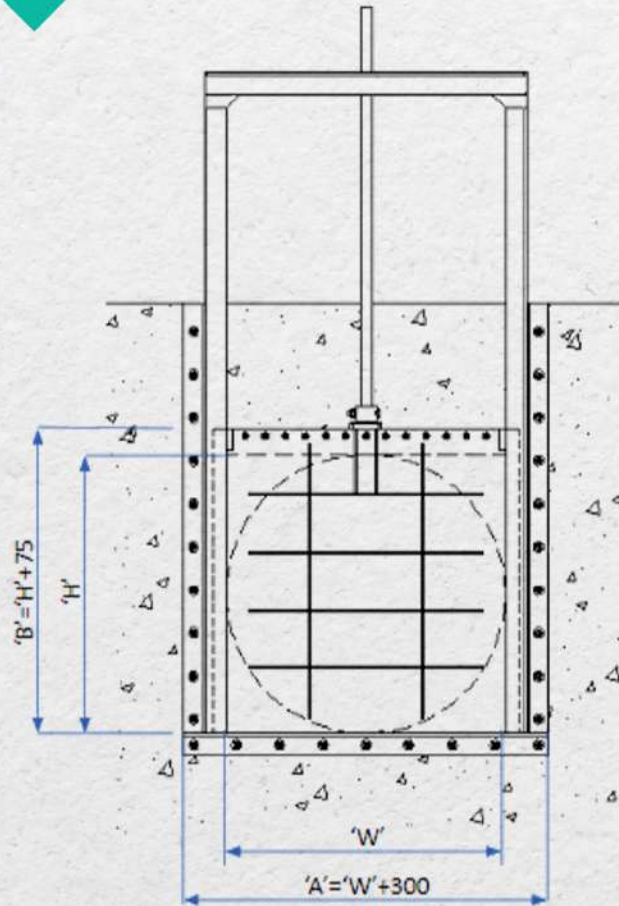
Channel Embedded Sluice Gates are mounted in the grooves of the channel side walls. These gates are mounted with the help of hold fasts. A second phase concrete one grade higher than the first phase is required to hold the gate in position.



SPIGOT/THIMBLE MOUNTED

Thimble Mounted Sluice Gates are mounted on a thimble embedded in the wall with an opening to be enclosed during concreting of the wall. 'F' type, 'E' type and 'MJ' type thimble available. These gates are mounted on the thimble with the help of bolts.

MODEL SELECTION MATRIX



TYPES OF MOUNTING	MOC	OPENING SHAPE	OPENING SIZE	TYPE OF INVERT	STEM	GATE ACTUATION	SEALING OPTIONS	ACCESSORIES
Wall mounted Wall Embedded Thimble Mounted	Structural Parts: Cast Iron / Mild Steel Stainless steel Aluminum Seal : EPDM, Nitrile, Viton, Neoprene Guides: UHMWPE PTFE, Brass, Bronze	Circular Square Rectangular	W-Opening Width H-Opening Height A-Frame Width B-Barrier Height T=Thimble size	Conventional Rebated Invert Flushed Invert	Rising Spindle Non Rising Spindle	Manual Electric Motor-Gearbox Electric Actuator	Three Side Sealing Four Side Sealing	Position Indicator, Stem Extension, Guide Bracket, Polycarbonate stem cover, Anchor Fasteners, etc.



📍 Potential Engineering
Plot No- B-45, MIDC Rd, behind Reliable Cloud City, Digha Naka,
Yadav Nagar, TTC Industrial Area, Airoli, Navi Mumbai - 400708,
Maharashtra

✉ sales@potential.net.in
🌐 www.potentialengineering.com
☎ +91 8591948730 / +90 8104984831 / +91 8104984832