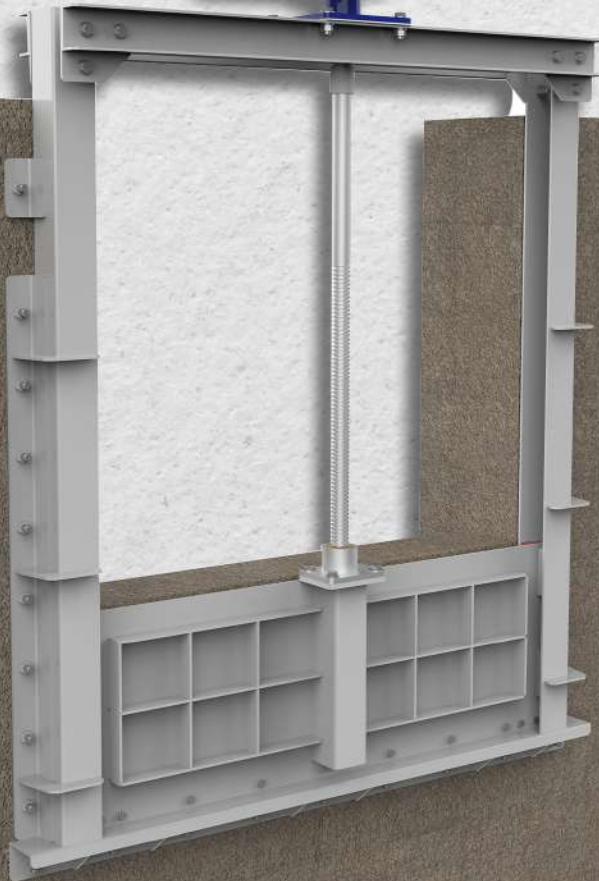
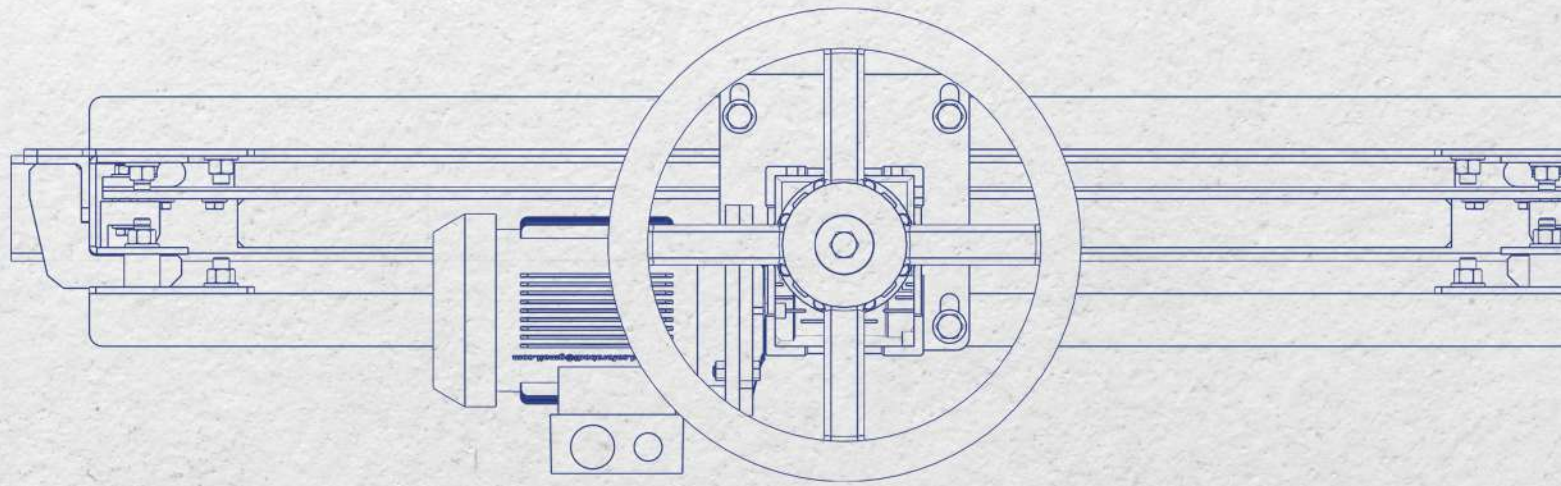


WEIR GATES

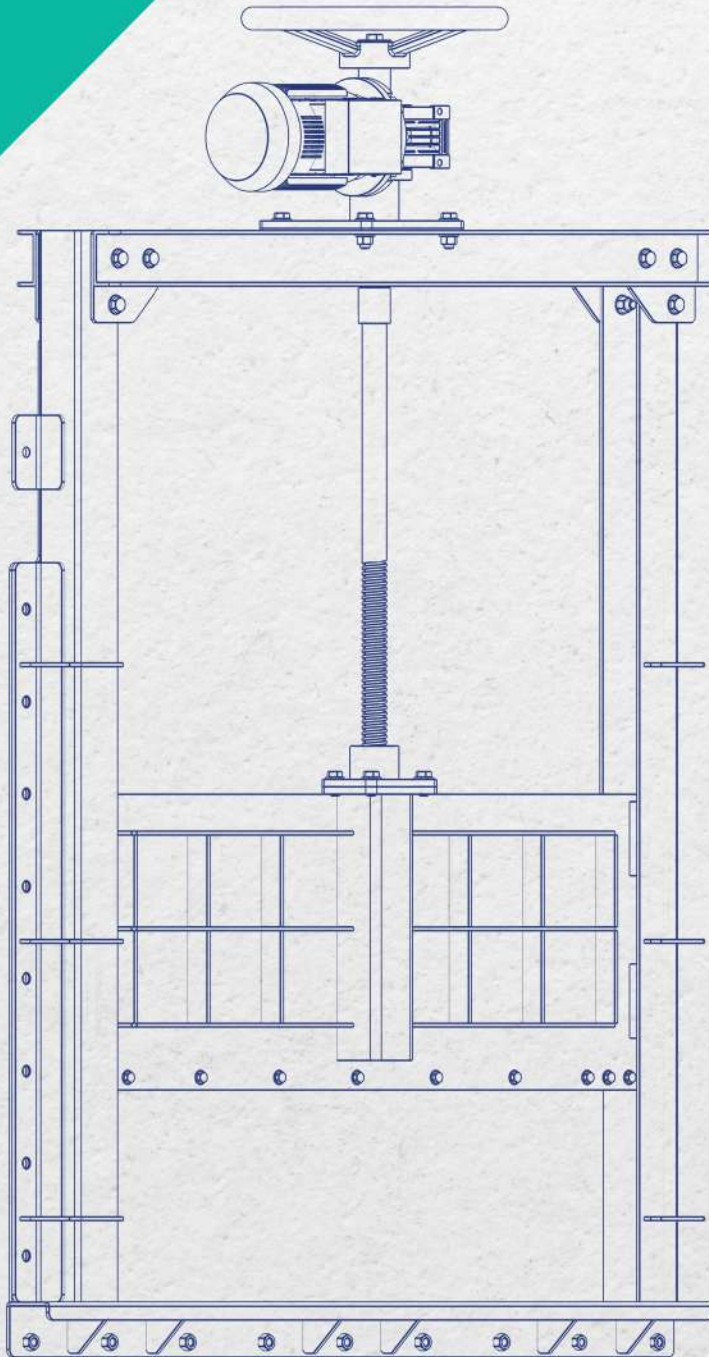
A Water Control Gate Product





WEIR GATES

A Weir Gate is an overflow downward opening type of gate that are used to isolate fluid flow, accurately control the flow rate and maintain desired constant upstream water elevation in a reservoir. Our Weir Gates is designed to cater On-setting as well as Off-setting water heads, with continuous sealing on 3 sides (vertical sides and bottom) of the gate, with an option of 4th side sealing also present. Our Weir Gates is designed to cater On-setting as well as Off-setting water heads, with continuous sealing on 3 sides (vertical sides and bottom) of the gate, with an option of 4th side sealing also present.



ABOUT PROBLEM



High Leakage

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



More Frictional Losses

Since Weir 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

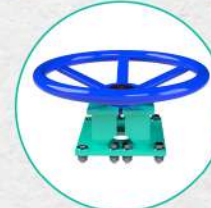
Barrier

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

Bottom Sealing

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

LIFTING MECHANISM



Manual



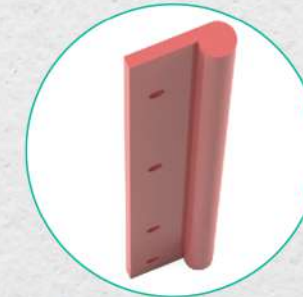
Electric-Motor
Gearbox



Electric-Actuator

Stem

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

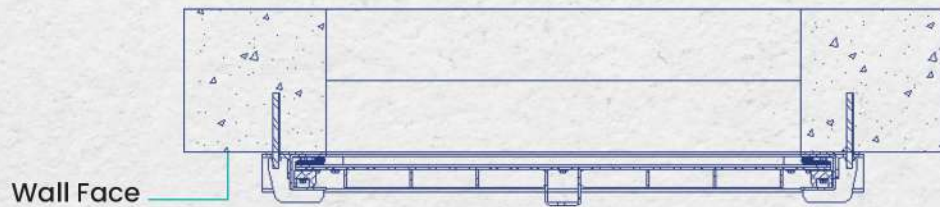


Seal

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

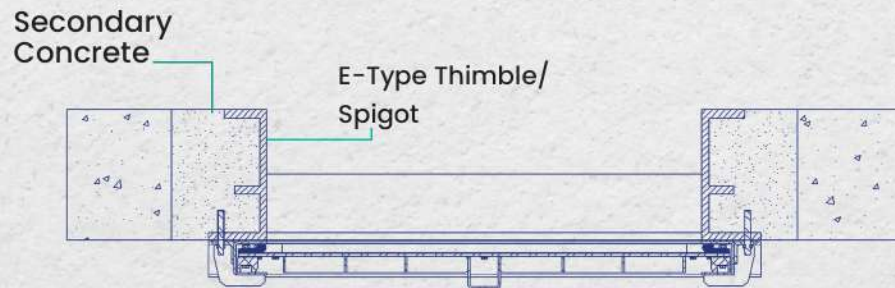
- ❖ Special musical note type Seal
- ❖ Removable Top Frame assembly provides easy removal of barrier
- ❖ Use of Thrust Bearing (Reduces Friction)
- ❖ Use of UHWMPE as Guide (less coefficient of friction material)
- ❖ Customizable fabricated gates suit to any opening size
- ❖ Accessories available: Position Indicator arrangement, Stem Extension, Guide Bracket, Polycarbonate Tube for stem
- ❖ In compliance with AWWA C560/ BS 17775/IS 13349

SLUICE GATE MOUNTING OPTIONS



WALL MOUNTED

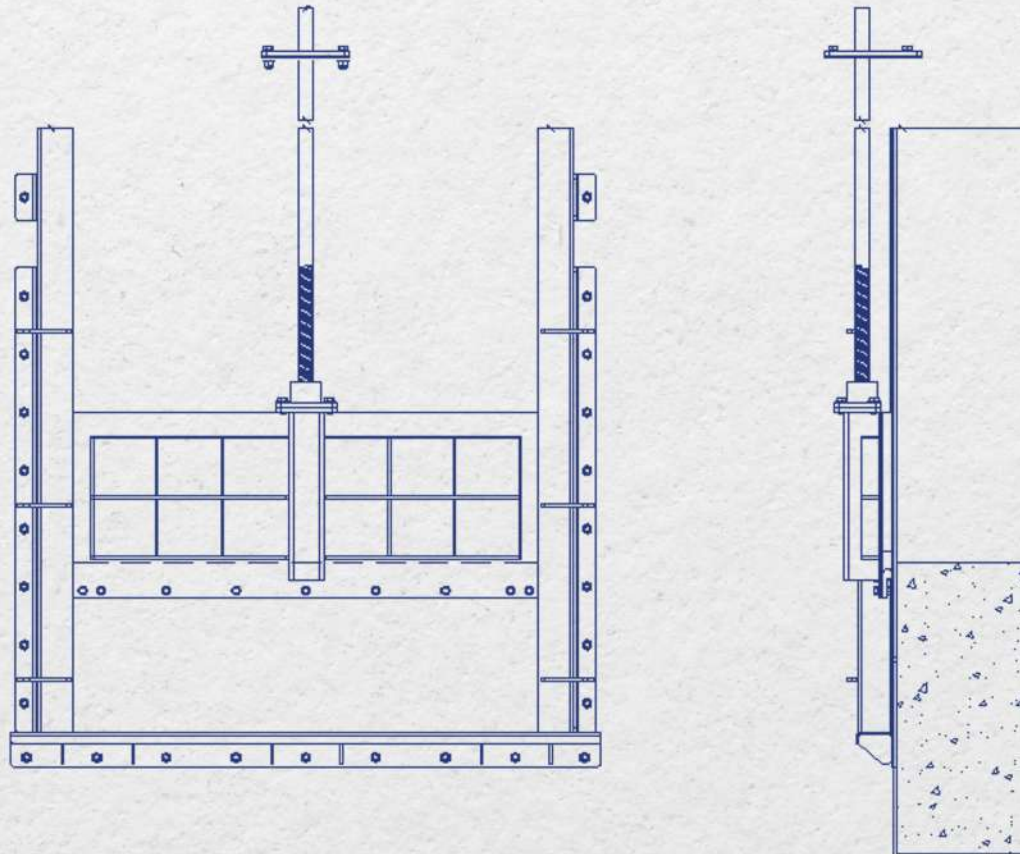
Wall Mounted Sluice Gates are mounted on a wall face with an opening to be enclosed. These gates are mounted with the help of chemical anchor bolts. The sealing between the wall face & the gate face is achieved by inserting a rubber packing.



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	DESIGN HEAD	TYPE OF INVERT	STEM/SPINDLE TYPE	GATE ACTUATION	SEALING OPTIONS	ACCESSORIES
Wall mounted Thimble Mounted	Structural Parts: Cast Iron / Mild Steel Stainless steel Aluminum Seal : EPDM, Nitrile, Viton, Neoprene Guides: UHMWPE PTFE,Brass,Bronze	Upto 6M (Above this on request)	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
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