



SPECIFICATION

These weir gates are made as per JASH design and complies to IS 13349 / BS 7775 / AWWA C560 for leakage & other general requirements.

APPLICATION

These are downward opening overflow weir gates (not downward opening slide gates) mounted on the face of a wall and are provided with sealing arrangement which ensures continuous sealing on 3 sides (side and bottom) at any extent of gate opening and allows water to overflow only from the top side. These are used either for (i) decanting of a reservoir or a tank, or (ii) maintaining precise level control in a reservoir or a tank, or (iii) to isolate the flow as well as maintain precise level control by providing optional 4th side (top side) sealing arrangement.

FEATURES:

- Flange back frame suitable for directly mounting on face of wall using anchor fasteners and secondary grout between wall and frame or on wall thimble
- Short length frame provided with short length extension guides sufficient to engage at least half the overall vertical height of door when the gate is full open / fully lowered.
- Slide sufficiently ribbed to suit the applicable water head and designed to suit rising stem requirement.
- Slide provided with integral pocket to house threaded stem connecting block connecting the slide with the stem.
- Offered with either metal to metal sealing system or PRESS-ON™ resilient sealing system. Type of sealing system offered depends upon client requirement and application.
- Metal to metal sealing system on 3 sides comprising of non-corroding non-ferrous metal seat facing mounted on frame and slide. Complete continuous water sealing on sides and bottom of gate aperture at any position of slide opening ensured by providing non-corroding nonferrous sealing face on entire face of slide.
- Gates offered with metal to metal sealing system provided with GRIT-DEFLECT™ arrangement to prevent embedment of grit in bottom sealing area and thereby avoid scouring of nonferrous sealing on slide face.
- Bigger size weir gates provided with PRESS-ON™ resilient sealing system to offer leakage limits substantially lesser than AWWA C560.
- PRESS-ON™ resilient sealing system comprise of replaceable resilient seal fitted on inner perimeter of frame in forced contact with seat facing mounted on slide. Complete continuous water sealing on sides and bottom of gate aperture at any position of slide opening ensured by providing non-corroding sealing face on entire face of slide.

- Seal fitment ensures that no dismantling of gate from its location is to be done for future seal replacement.
- Rising stem with pedestal mounted manual gate operating mechanism to operate the slide gate with less than 18 kgs effort on the crank or handwheel.
- Single piece or multi piece stem to suit the installation depth, coupling to connect stem sections with the lowest stem section connecting to the stem block mounted on slide.
- Stem guide and brackets to prevent buckling of stem.
- Dual or tandem stem for all gates 1200 mm and wider, and having widths greater than twice their height or where decanting requires a precise level weir elevation.
- Anchor bolts with nuts and washer for frame, stem guide brackets and pedestal of lift mechanism.
- Offered with epoxy paint or as required by specifications.

OPTIONAL FEATURES:

- Square / Rectangular shaped wall thimble having section F or E as required.
- Top sealing arrangement for isolation requirement.
- Self contained gate frame with lift mechanism mounted directly on yoke provided across the top of the gate frame
- Non rising stem.
- Electric /Pneumatic /Hydraulic operating arrangement.
- Portable electric or hydraulic operator.
- Foot wall bracket for pedestal mounting.
- Stem cover made of galvanized steel or transparent plastic tube.
- Gate position indicating arrangement.

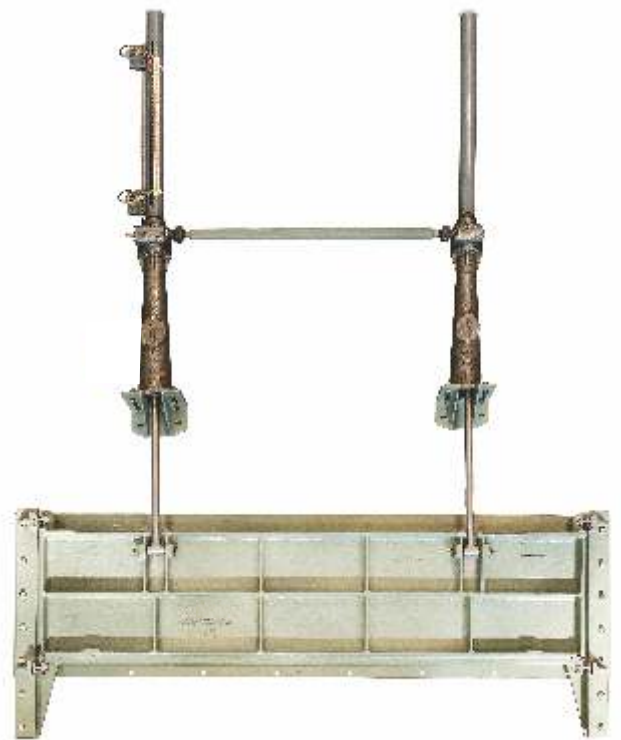
MATERIAL OF CONSTRUCTION:

Depending upon application and requirement, client should select and specify the material of construction option for various components of weir gate from the alternatives stated on page no. 39.

SHOP TESTING:

- Leakage testing of weir gate at plant with water filled till top of slide to verify gate leakage performance.#
- Seat clearance check of each weir gate for clearance between mating sealing faces.
- Movement test for checking interference free movement of complete assembly.
- Torque test to verify gate operating torque for manually operated weir gates.

Shop leakage test will be carried out only when a test has been specifically agreed to or when a test is specifically stated in specifications.



DUAL OR TANDEM STEM OPERATING ARRANGEMENT