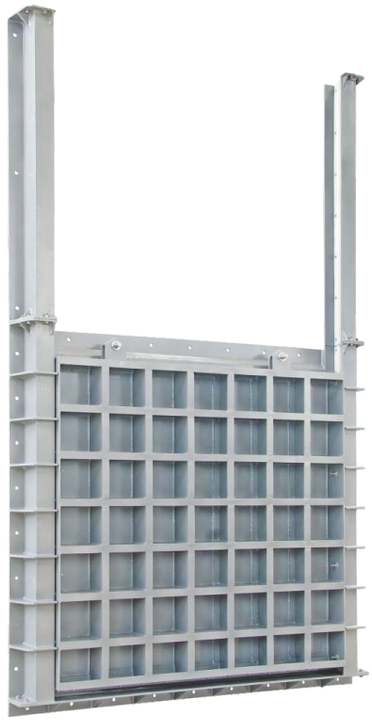
ALUMINUM SLIDE GATES

SERIES: A - 121

SELF-CONTAINED SLIDE GATE

NON SELF-CONTAINED SLIDE GATE



SPECIFICATION:

These slide gates are made in compliance with AWWA C562

APPLICATION:

These slide gates are mounted on the face of a wall and are used to isolate flow in and out of a conduit. These are suitable for low seating and unseating heads as required.

FEATURES:

- Extruded / fabricated aluminum flange back frame suitable for direct mounting on face of wall using anchor fasteners and secondary grout between wall and frame.
- Gate frame provided with low friction UHMWPE guides to prevent metal to metal rubbing and galling during slide operation.
- 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.
- Frame and slide made of minimum 6 mm thick material as stipulated in AWWA C562 .
- Side frame having dual slot design wherein primary slot engages with slide and secondary slot envelops the side reinforcing ribs of the slide.
- Portion of slide engaging in frame guides have minimum 12 mm material thickness and 25 mm engagement depth.
- Slide sufficiently ribbed to ensure that deflection under designated water head does not result into leakage over the specified limit.
- Offered with either HARSA-DUO™ rigid sealing system having integral seal/seat or PRESS-ON™ resilient sealing system having seal separate from the seat. Type of sealing system offered depends upon client requirement and application.
- HARSA-DUO™ unique integral seal / seat system can withstand 25,000 cycle operation and reduce the possibility of future seal replacement. This sealing system offers longevity and necessitates precision in installation to achieve specified leakage criteria.
- HARSA-DUO™ rigid sealing system comprises of low friction, high abrasion resistant self-adjusting seals of UHMWPE fitted in dovetailed slots of frame with dual compression resilient cord seals to ensure forced contact between seal and both the faces of slide.

- Flush bottom slide gates with HARSA-DUO™ rigid sealing system provided with bottom seal comprising of flexible rubber seal flush with the opening and having AUTO-FLUSH™ arrangement at guide bottom to force out accumulated grit particles and ensure full closure of the slide.
- Bigger size slide gates and gates subject to higher unseating head are provided with PRESS-ON™ resilient sealing system to offer leakage limits substantially lesser than that stated in AWWA C562.
- PRESS-ON™ resilient sealing system comprises of replaceable resilient seal in forced contact with face of slide and provided with flow deflectors to restrict direct exposure of sealing arrangement to hazardous solid materials coming with flow.
- Flush bottom slide gates with PRESS-ON™ resilient sealing system provided with bottom seal comprising of flexible rubber seal flush with the opening.
- Seal fitment in case of PRESS-ON™ resilient sealing system ensures that no dismounting of gate from its location is to be done for future seal replacement.
- Rising stem with pedestal / yoke 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 section with the lowest stem section connecting to the block mounted on slide.
- Stem guides 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.
- Anchor bolts with nuts and washers for frame, stem guide brackets and pedestal of lift mechanism.

OPTIONAL FEATURES:

- Self-contained gate frame with lift mechanism mounted directly on yoke provided across the top of gate frame.
- Non-rising stem.
- Electric / Pneumatic / Hydraulic operating arrangement.
- Portable electric or hydraulic gate operator.
- Foot wall bracket for pedestal mounting.
- Stem cover made of galvanized steel or transparent plastic tube.
- Gate opening indicating arrangement.
- Hard epoxy painting on aluminum material.

MATERIAL OF CONSTRUCTION:

Depending upon application and requirement, client can select and specify the material of construction option for various components of slide gate from the alternatives stated on page no. 53.

SHOP TESTING:

- Leakage testing of slide gate at plant at actual operating head to verify slide gate leakage performance meeting leakage requirement as specified or as per AWWA C562.#
- Seat clearance check of each slide 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 slide gates.

 # For getting similar leakage result at site ensure that there is no frame distortion during the process of slide gate installation on wall.