CAST IRON
GLYDASEAL SLIDE GATES

SERIES: A-105

NON SELF-CONTAINED SLIDE GATE

SPECIFICATION

These slide gates are made as per Rodney Hunt design.

APPLICATION

These slide gates are directly mounted on the face of the wall and are used to isolate flow in and out of a conduit. This design can be used for 7.5 m seating and unseating head application for gates sizes up to 3500 x 3500 mm requiring extremely low leakage up to 1% of that permissible as per AWWA C560.

FEATURES:

- Flat back frame suitable for directly mounting on face of wall using anchor fasteners and secondary grout between wall and frame or on wall thimble.
- Frame provided with square aperture for square as well as round opening in wall.
- Short length / open top frame provided with short length extension guides sufficient to engage at least half the overall vertical height of slide / door when the gate is full open.
- Slide sufficiently ribbed to suit the applicable water head and designed to suit rising as we well as non rising stem requirement.
- Slide provided with integral pocket to house threaded stem connecting block connecting the slide with the stem.
- Frame mounted non corroding plastic seat facing in forced wedging contact with corresponding slide mounted resilient seal to achieve the required extremely low leakage.
- Plastic to rubber sealing arrangement provided on two vertical slide and top side. Flush bottom closing arrangement provided on bottom side with frame mounted HY-Q™ flush bottom seal flush with bottom invert of opening in forced contact with bottom edge of slide.
- 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.
- Dual or tandem stem for all gates 1200 mm and wider, and having widths greater than twice their height.
- Stem guides and brackets to prevent buckling of stem.
- Anchor bolts with nuts and washers for frame, stem guide brackets and pedestal of lift mechanism.
- Offered with epoxy paint or as required by specifications.

OPTIONAL FEATURES:

- Square / Rectangular / Circular (Diameter) shaped wall thimble having section F, E or MJ as required.
- Oversized frame opening for slide gates to be mounted in front of a concrete pipe terminating at the face of the wall.
- Seizure free slide gate design by provision of liner in the guide groove and on tongue / jib of slide so that all contact surfaces are of non-corroding material.
- Self-contained / closed top 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 operator.
- Foot wall bracket for pedestal mounting.
- Stem cover made of galvanized steel or transparent plastic tube.
- Gate position indicating arrangement.

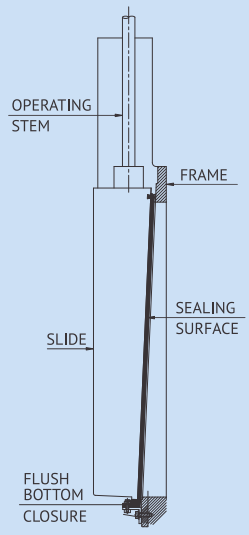
MATERIAL OF CONSTRUCTION:

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

SHOP TESTING:

- Leakage testing of slide gate at plant at actual operating head to verify slide gate leakage performance meeting leakage requirement as specified.#
- Hydrostatic body test at 1.5 times the maximum operating head for structural soundness.
- 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.



WHY GLYDASEAL™ GATE DESIGN?

In the GLYDASEAL™ slide gate design, the seat facings are secured on an inclined plane on the frame. As the slide moves downward to the closed position, the seating surfaces comes into initial contact for their full length, approximately 50 mm from the fully closed position. As the gate continues to close the resilient seal on the slide is compressed to form a very tight seal.

The amount of compression of the seal is precisely set in the factory. This pressure can be adjusted in the field if necessary by adjusting the bronze guide bar which is mounted on the guide and engages a slot in the sides of the disc.