

STAINLESS STEEL OPEN CHANNEL SLIDE GATES

SERIES: A - 211 / 212 / 213

SELF-CONTAINED OPEN CHANNEL SLIDE GATE



SPECIFICATION:

These open channel slide gates are made in compliance with AWWA C561 / BS7775.

APPLICATION:

These open channel slide gates are used to isolate flow within as well as in and out of an open channel. These are suitable for seating water head and are provided with sealing arrangement on 3 sides only and not on top side and so the height of water should always be less than the height of slide.

FEATURES:

- Frame design suitable for (i) embedment on two sides and bottom, or (ii) anchoring on two sides and bottom, or (iii) face wall mounting at the end of channel.
- Gate frame provided with low friction UHMWPE guides to prevent galling between stainless steel frame and slide during operation.
- Gate frame provided with full length extension guides sufficient to engage full height of slide over the water height when the gate is open.
- Self-contained gate frame with lift mechanism mounted directly on yoke provided across the top of gate frame.
- Material thickness for frame and slide selected to suit applicable head.
- Slide sufficiently ribbed to ensure that deflection under designated water head does not result into leakage over the specified limit.
- Offered with EASY-SLIDE™ resilient sealing system having seal separate from the seat to offer leakage limits substantially lesser than that stated in AWWA C561 / BS7775 and having low operating torque.
- EASY-SLIDE™ resilient sealing system comprises of replaceable resilient seal in forced contact with low friction, high abrasion resistant seat to ensure reduced seal wear.
- Flush bottom slide gates provided with slide mounted bottom resilient seal in forced contact with bottom invert flush with the opening.
- Resilient seal fitment ensures that no dismantling of slide gate from its location is to be done for future 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.
- 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:

- Bi-directional resilient sealing for seating as well as un-seating water head.
- HARSA™ rigid integral seal / seat system comprising of low friction, high abrasion resistant self-adjusting seals of UHMWPE fitted on frame with compression resilient cord seals to ensure forced contact between seal & face of slide.
- Extended side guides in case operating thrust is to be taken on frame for gates where operating arrangement is located at more than 2.5 times the height of slide.
- Chain and sprocket arrangement to lower the handwheel / crank centerline to an elevation of 900 mm from the top of operating floor in case where manual operating arrangement is located more than 1500 mm distance from the operating floor. (Refer sketch below)
- Non self-contained gate frame with extended stem, couplings and stem guide brackets, as required, to connect the slide to the gate operating arrangement mounted on a remote operating floor.
- Non-rising stem.
- Electric/Pneumatic/Hydraulic operating arrangement.
- Portable electric or hydraulic gate operator.
- Stem cover made of galvanized steel or transparent plastic tube.
- Gate position indicating arrangement.
- NSF 61 certified for drinking water application.

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.33.

SHOP TESTING:

- Leakage testing of slide gate at plant with water filled till top of slide to verify slide gate leakage performance.#
- 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.

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.

