

FRP OPEN CHANNEL SERIES: A-261 / A-262 / A-263

FRP OPEN CHANNEL GATE



SPECIFICATION:

These open channel slide gates are made in compliance with AWWA C563.

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 therefore, 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.

- Rigid gate frame made of Fiber reinforced plastic 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 lifting mechanism mounted directly on the yoke provided across the top of gate frame.
- Fiber reinforced plastic slide suitable strength to withstand applicable water head without metal reinforcements.
- Offered with EASY-SLIDE™ resilient sealing system having seal separate from the seat to offer leakage limits substantially less than AWWA C561. EASY-SLIDE™ resilient sealing system ensures easy operation on account of low operating torque.
- EASY-SLIDE™ resilient sealing system comprise of replaceable resilient seal in forced contact with low friction, high abrasion resistant seat of UHMWPE to ensure reduced seal wear.
- Seal fitment ensures the gate does not dislodge from location during future seal replacement.
- Flush bottom slide gates provided with a bottom sealing arrangement comprises of flexible rubber seal flush with the opening.
- Rising stem with pedestal / yoke mounted manual gate operating arrangement to operate the slide gate with less than 18 kgs effort on the crank or handwheel.
- Dual or tandem stems 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:

- 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 1 m from the top of the operating floor in cases where manual operating arrangement is located more than 1.5 m distance from the operating floor.
- 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.
- Electric / Pneumatic / Hydraulic operating arrangement.
- Portable gate operator for manual / electric / hydraulic operating arrangement.
- Stem cover made of galvanized steel or transparent plastic tube.
- Gate position indicating arrangement.

MATERIAL OF CONSTRUCTION:

Depending upon application and requirement, client can select and specify the material of construction option for various components of the gate from the alternatives stated on page no. 29.

SHOP TESTING:

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

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.

