

SLIDE GATE

A slide gate is a sophisticated stop gate that employs a stem or shaft coupled to a mechanical lifting device to raise and lower the gate. The lift and stem make it possible to raise heavy loads easily, and provide a positive force to seat the gate against the bottom seal. This combination makes it easier to operate gates that are some distance below the operating surface, or that will be cycled more frequently. Slide gates are commonly used in open channel applications, to close off a wall opening, or to cover a pipe that is flush with the wall. Slide gates may or may not include seals depending on this application. The slide gate may be constructed as a sandwich-style gate, a one-inch solid FRP gate, or as a Heavy Duty Tite seal gate.

LIFTS Slide gates may be operated manually, electrically, pneumatically, or hydraulically. The lifts may be mounted on the head rails of a self-contained gate, or on a pedestal or bench stand if the gate is not self-contained. A floor box and square nut make it possible to keep the entire gate is not self-contained. A floor box and square nut make it possible to keep the entire gate and operator out of sight or below the floor level. Pneumatic or hydraulic operators may be used in explosive atmospheres or on gates that need to be closed quickly. Electric operators generally operate at 12 inches per minutes and have many options. If the width of the gate is twice that of the height, a tandem lift will be required.

STEMS Stems will normally be T-304 or T-316 stainless steel as required by the application or specification.

GUIDES Guides may be embedded, surface mounted, or in-channel mounted. Surface mounted guides bolt to the face of the wall around an opening. In-channel guides bolt to the side surface of an existing channel. Embedded guides are either attached to form work and encased with the wall pour, or they may be grouted into a pre-formed blockout at a later time. Most Plasti-Fab guides are fiberglass pultruded shapes that have been designed to make installation easier and provide a longer service life. In special situations, Plasti-Fab may choose to use stainless steel.

All self-contained gates are factory adjusted and the limit nuts are set on the stem so that no further adjustment is necessary in the field.

SEALS Not all slide gates need seals to meet their performance requirements. When seals are used, the design will vary according to the leakage requirement. All seals are virgin molded neoprene. J-seals will be affixed to the gate or guide depending upon the type of guide used and the type of service expected. Flush bottoms seals will normally be used to provide a resilient bottom seating surface and to prevent debris from collecting in the groove.

MATERIALS OF CONSTRUCTION Ninety percent of the time, the gate and guide will be fiberglass and the gate hardware will be stainless steel. Most are sandwich construction with or without

internal steel reinforcing. Plasti-Fab also builds a rugged one inch solid FRP gate that is not available from any other source.

LOCATION Slide gates are found throughout wastewater plants, industrial treatment facilities and storm water control systems. Look for them in plant headworks, diversion boxes, by-pass and feeder channels, ponds and aerated lagoons and in chlorination basins. Plasti-Fab has also built FRP diversion manholes that contain integral slide gates for existing buried lines.

WHY BUY PLASTI-FAB?

Plasti-Fab gates offer high corrosion resistance to a very wide range of acids, caustics, salt water and other aggressive chemicals.

Plasti-Fab offers a very broad range of gates including sandwich style, one-inch thick solid FRP gates, stainless steel and aluminum if required.

Plasti-Fab has over 25 years experience in fiberglass gate design and installation, and several thousand slide gates of every conceivable type currently in use in the United States and Canada.

Plasti-Fab has worked with every major lift manufacturer and will supply whatever type is required to meet the project specification. You can request handwheel, geared mechanical lifts, portable operators, electric actuators, pneumatic or hydraulic actuators.

Fiberglass slide gates are lightweight and easy to install.

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