

Bulk Head Gates

Description

Bulk head gates are fabricated from steel or stainless steel. They are designed to be placed in slots or grooved channel walls and are lifted and lowered with overhead or mobile cranes. The gate has lifting lugs for handling. The slots or grooves are lined or fabricated from steel or stainless steel for ease of insertion and good fit with rubber seals on the bulkhead gate. The sill surface may be formed by flat and level concrete invert or with an embedded sill plate.

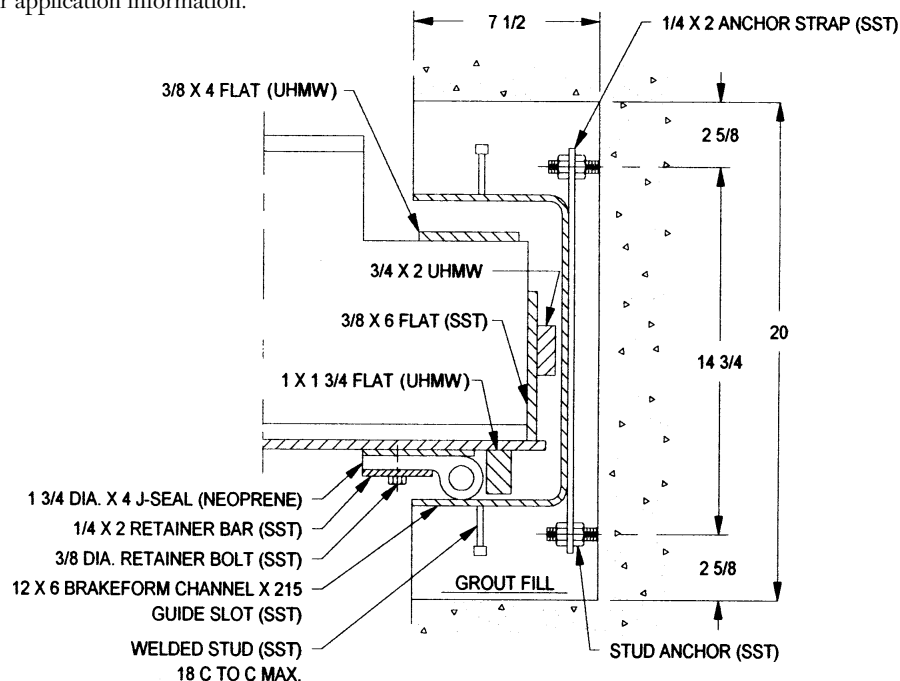
Bulk head gates are used for equipment isolation such as pumps, screens and service gates. When equipped with a lintel seal, the gate can seal off heads greater than the gate height. Rubber seals around the perimeter of the gate control leakage effectively and are hydrostatically energized. Bulk head gates seal in one direction.

Bulk head gates can be used in multiple locations (slots) and can be removed completely for storage. They cannot be inserted when significant flows or heads are present since the only closing force is gravity. Removal against high differential heads is not practical or possible. A small fill or balancing gate or valve can be installed on the bulk head gate to facilitate head balancing and gate removal.

Variations in mounting such as surface (face) mounting are possible. Bulk heads may also be stacked like stop logs. Specialized lifting beams can be designed for retrieval of under water bulk heads. Contact Hydro Gate Engineering/Sales Department for other application information.

Product Features

- Steel, stainless steel, or aluminum
- Large sizes and high heads: Contract Hydro Gate Engineering Department for information
- Embedded or face mounted guide slots
- Flush bottom, resilient seat
- Open channel or aperture design. Lintel (breast wall) seal for full perimeter sealing.
- Directional pressure sealing.
- Rubber seals: Neoprene or EDPM
- UHMW polyethylene wear and guide blocks
- Tight leakage control: near zero in most seating conditions. Pressure engaged sealing.
- Insert and remove at zero or balanced head. Head balancing gates or valves are available.



Fabricated stainless steel bulk head, embedded slot