

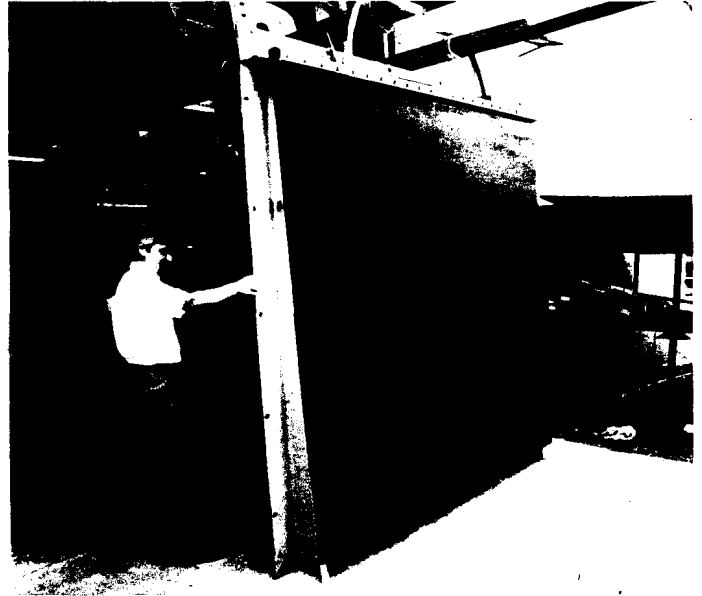
PRODUCTS FOR THE WATER AND WASTEWATER INDUSTRY

TITSEAL®
FLEXIBLE FLAP GATES

- *Corrosion Resistant
- *Flexible Flap
- *Adjustment Not Required
- *Quiet Operation

The Plasti-Fab, Inc. Flexible rubber flap gate is the answer for applications requiring corrosion resistant equipment suitable for sea water and most low pH water. Simple design makes installation and maintenance easy.

The T-304 stainless steel/T-316 stainless steel/copolymer body has a mounting flange and a molded neoprene flap which also acts as a hinge. The flexible flap has molded-in steel or surface mounted stainless steel supports as required to meet head requirements. The flexible flap gate reduces pounding which is



often a problem on valves having metal to metal seats.

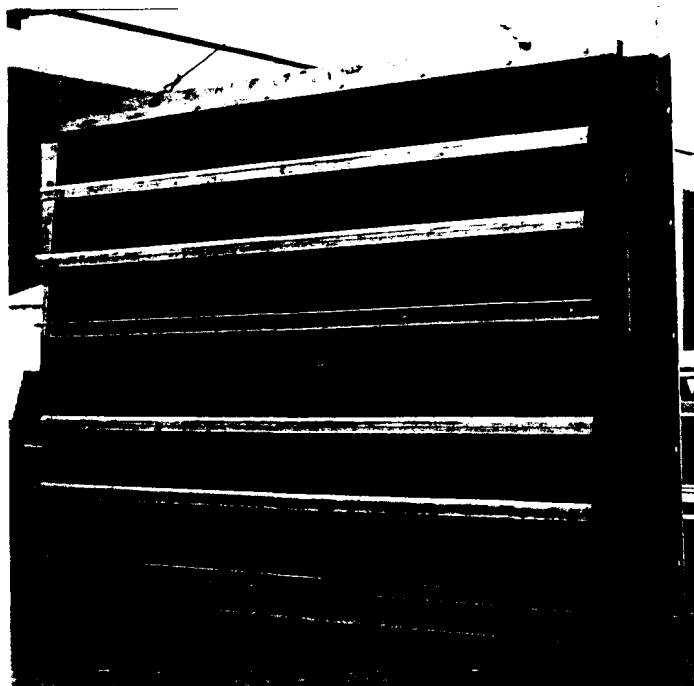
The body can be made round or square to meet design requirements. Body flanges can be drilled to accept standard bolt sizes when connecting to pipe flanges or can be drilled for smaller bolts when they are to be fastened to wall thimbles or directly to wall surfaces.

We can supply molded and fabricated flap which encapsulates the fabric/steel reinforcing, producing a more durable flapper.

Rectangular and/or square flap gates having single or multiple flexible flaps are often supplied for specialized applications. Installations as large as 8 feet square are in service.

Installation and Periodic Cleaning:

Flap gates can trap floating debris and must be inspected periodically. They should, if



possible, be mounted a foot or more above the surface of the downstream water to permit debris to clear the valve with the least resistance.

The surface to which the flap gate is to be attached should be flat, plumb, of sound material, and clean. A seal or heavy duty sealant must be used to prevent leakage past the flange. Care must be used when tightening bolts to assure a good seal and also to assure that the valve body is not distorted. When installing valves using poured-in-place anchor bolts, flanges must not be forced over crooked bolts -- drill out the flange for a good force-free fit.

Specifications:

Flap gates mounted on pipe ends shall be supplied with a 125 lb. pattern flange and mounted to the pipe using neoprene rubber gaskets and T-316 stainless steel bolts. The body of the flap gate shall be reinforced copolymer/T-304 stainless steel/T-316 stainless steel suitable for the service intended.

The body of the valve (and wall thimble, if

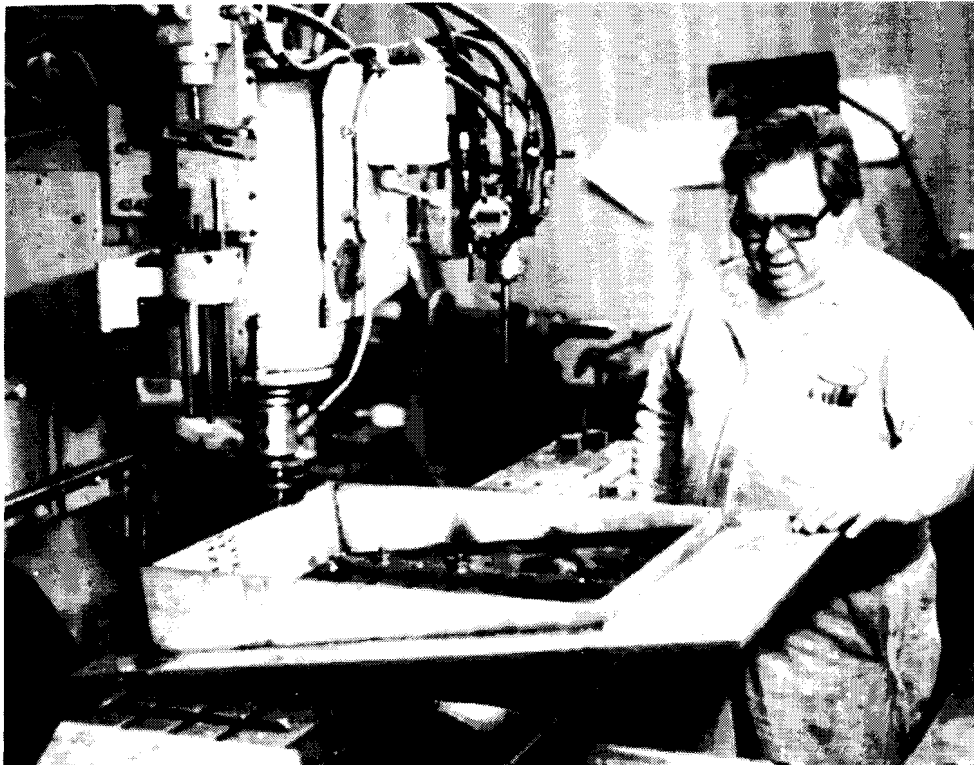
used) shall not be less than 1/4" thick for sizes 12" and smaller, and 1/2" thick for larger sizes having a copolymer body. Stainless steel bodies shall be at least 1/4" thick. Composite wall thimbles (if used) shall have a rough coarse sand outer surface, a 3/16" thick waterstop, and shall be installed using suitable adhesive and non-shrink grout.

The rubber flap shall be made of 60 durometer synthetic rubber, suitably reinforced with encapsulated fabric and/or steel as required to meet the design conditions. Standard materials are neoprene, SBR and EPDM. Other materials are available upon request. The flap shall be designed to operate under _____ unbalanced head. It shall be suitably designed to maintain a flat seating surface.

The rubber flap shall be held in place with a clamp bar and T-316 threaded fasteners.

The flexible flap assembly shall be readily replaceable while the valve is in service.

Plasti-Fab, Inc. flexible flap valve is the preferred flap valve for this installation.



Plasti-Fab[®], INC.

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