



**Rodney Hunt**  
A ZURN *Company*  
Flexible  
Flap Valves

Flexible Flap

Valves



# Rodney Hunt Flexible Flap Valves:



A better way to prevent the reverse flow of water through an opening.

Designed for all Water and wastewater applications.

## Uncomplicated, Rugged Design

● Four basic components:

1. Frame: Stainless Steel
2. Cover: Reinforced neoprene rubber
3. Hinges: Integral part of cover
4. Frame Seat: Neoprene lip seal

● All materials ideally suited for long service life and low maintenance.

● Resilient seats to minimize leakage.

## Suited for Gravity Flow or Pump Discharge Applications

● Opens under very low unseating head.

● Can be designed for high seating head conditions.

● Should debris collect between seats, cover will deflect around obstruction; remainder of opening remains seated.

● Withstands slamming action of pump discharge and wave action.

● Unaffected by most chemical actions, inhibits algae and Marine growth.

● Quiet operation. No slamming of metal-to-metal seats.

## Low-maintenance.

● No hinges or hinge pins to wear or require lubrication.

● Never needs painting.

● Easily opened to flush out debris, if necessary.

## Single or Multiple Openings

The neoprene cover is generally available in 48" wide strips. For larger single openings, two or more sheets can be bonded and clamped together to form a cover.

Where multiple openings are acceptable, one or more support beams can divide the opening. The opening can be divided either horizontally or vertically, or a combination of the two. When the support beam runs horizontally, the upper cover only opens when flow is high

In some applications, a flexible flap valve with multiple openings will be easier to maintain. Openings will be smaller, and covers easier to lift for removing debris. A single large opening may have a heavy single cover, but offers the advantage of presenting no obstructions to the flow.

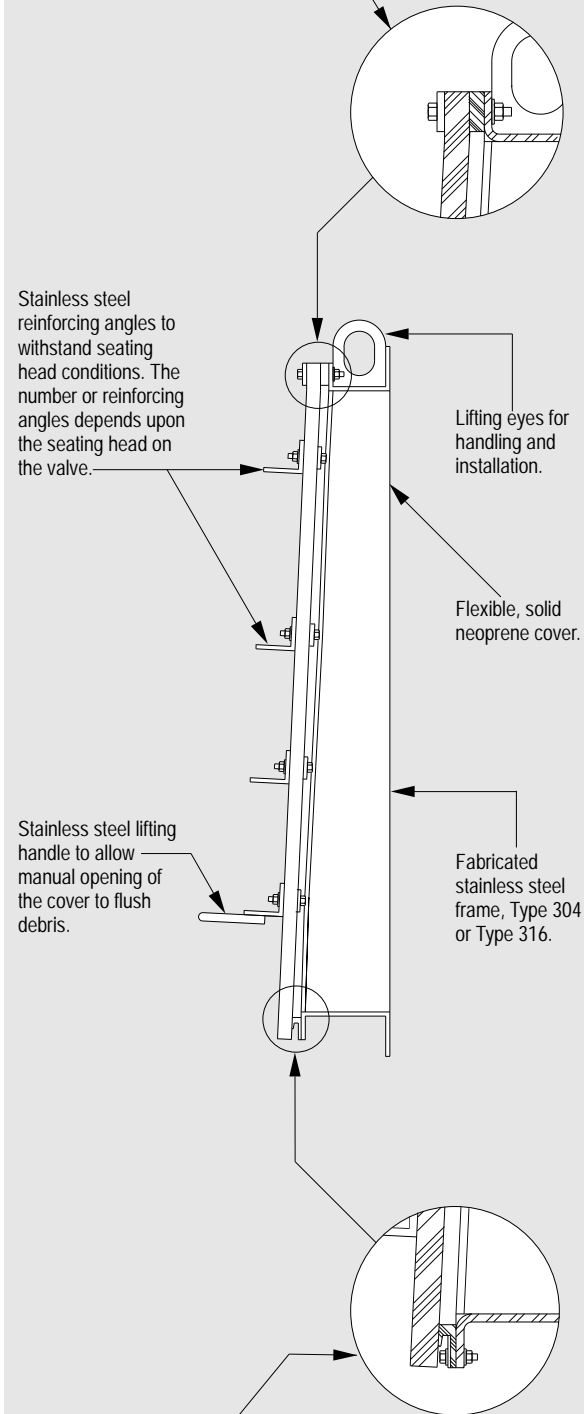
## Mounting Methods

**Wall Thimble Mounting:** The flexible flap valve can be mounted, using stainless steel studs and nuts, on a cast iron or fabricated stainless steel wall thimble embedded in the concrete.

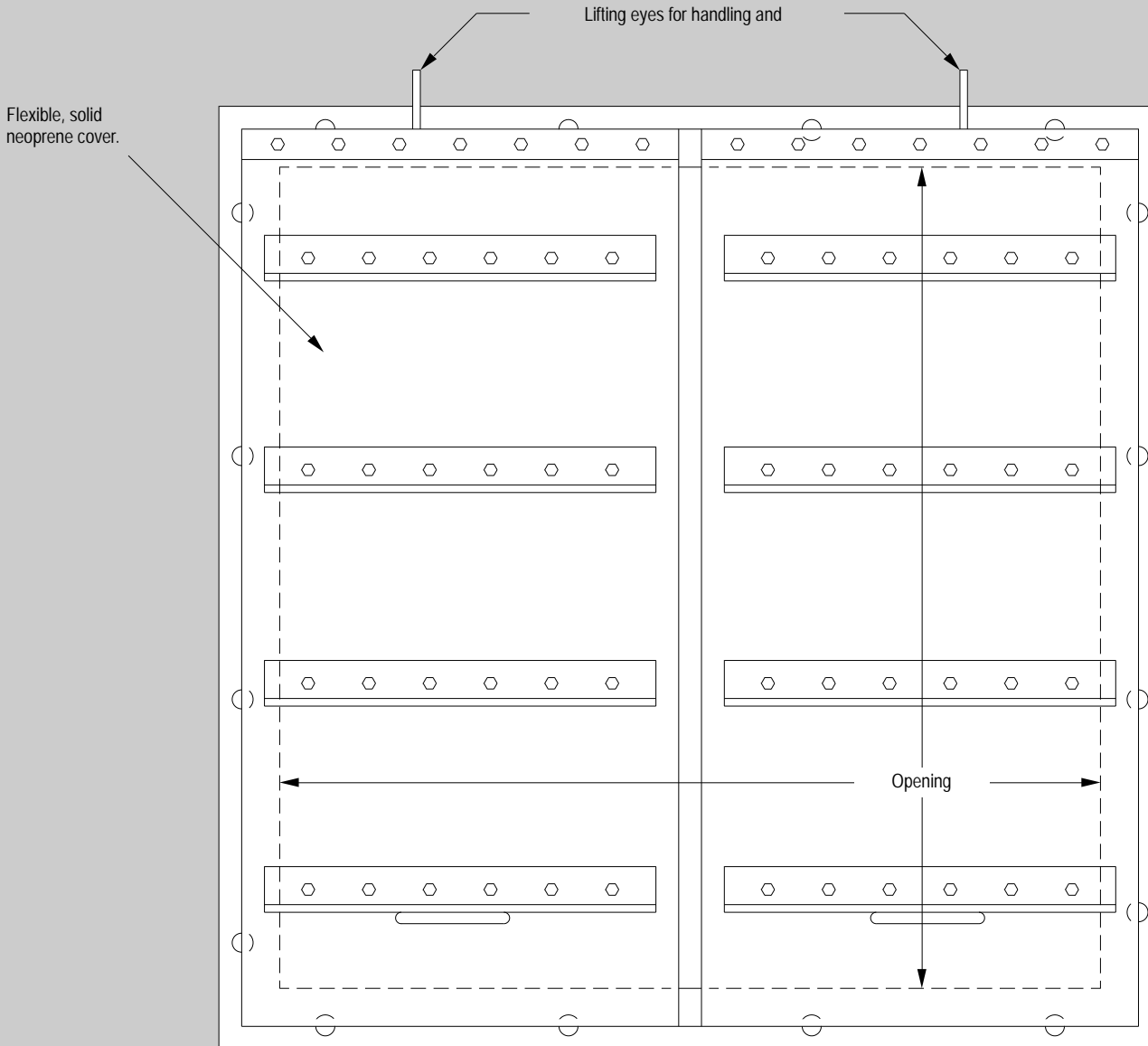
**Anchor Bolt Mounting:** The flexible flap valve can be mounted directly to a concrete wall with either poured-in-place anchor bolts or drill-in anchor bolts.

## Design Features

Flexible cover is bolted and clamped to the frame with stainless steel bar and bolts. A PVC spacer is placed between the stainless steel frame and the neoprene.



A resilient lip seal is bolted to the frame along the bottom and up both sides of the opening, using stainless steel retainer bars and bolts.



## Specifying a Flexible Flap Valve

Rodney Hunt wants to be sure that the equipment specified is appropriate for the application. If a flexible flap valve is to be considered, the following information is required to prepare specifications and typical drawings

- Characteristics of the liquid, such as fresh water, salt water, sewage, or industrial waste.
- Primary function: gravity flow, pump discharge, tidal with wave action.
- Size of opening.
- Maximum seating head (closed).
- Single or multiple openings.
- Type of mounting: cast iron wall thimble, fabricated stainless steel wall thimble, or anchor bolt mounting.