

# Flush System Valves

A flush system is designed to effectively clean dairy farm alleys and holding areas. Automated and low maintenance, using it requires very little labor and keeps cows clean.

## Typical Application

Two flush valve models are available, one for cleaning manure alleys and another for holding areas. Both work similarly, the main difference being the width and pattern of discharge. While the flush valve for manure alleys provides a high volume discharge with a narrow pattern, the holding area model offers a wider cleaning pattern thanks to its built in deflectors.

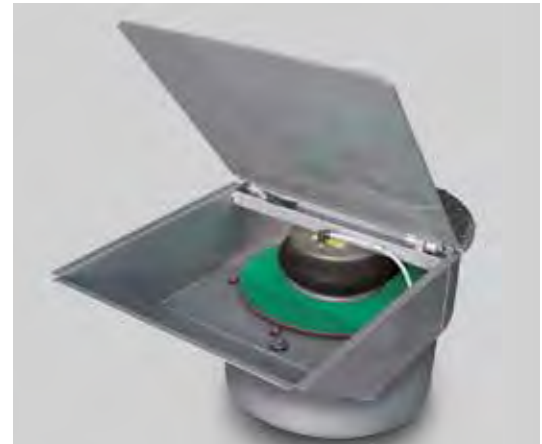
- The Flush valves are commonly fed by the 8" flush pump (vertical or on pontoon) – a low RPM pump offering a high flow rate of over 3,000 gpm
- Flush valves can also be gravity fed by means of a flush tank

## Working Principle

The airbag pressure inside the flush valve is operated by a control panel to ensure a smooth transition from one valve to another and to prevent water hammer from occurring inside the flush lines. Between flush cycles, the flush valves remain closed thanks to the inflated airbag. When the flush cycle is initiated, air pressure is rapidly released, allowing the first flush valve to open fast and to remain open for the cleaning cycle. As the airbag is inflated, the next flush valve opens and proceeds with its flush cycle.

## Key Features and Benefits

- Stainless steel base for long life span
- Consistent and controlled flow
- High volume directional flush
- Labor and time savings
- Simple and reliable controls for up to 30 flush valves
- Robust and reliable 8" airbag to open and close valves
- Requires only 40 psi to shut off 26 feet of head pressure



### Manure Alley Flush Valve

Available in two standard sizes  
12" valve for alleys up to 14 feet  
15" valve for alleys up to 16 feet

- Sand bedding and water quality affects cleaning patterns



### Holding Area Flush Valve

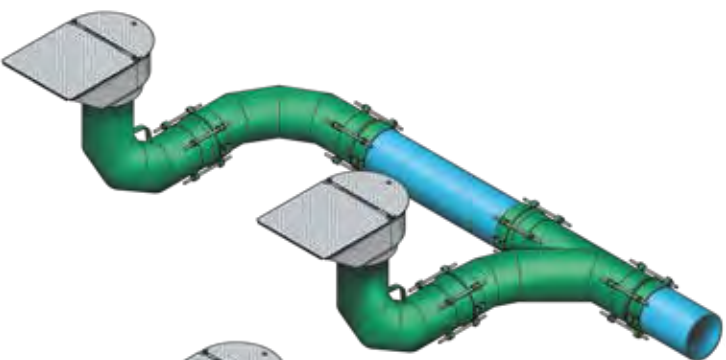
Available in one standard size, 12"

- Cleaning pattern width up to 20 feet

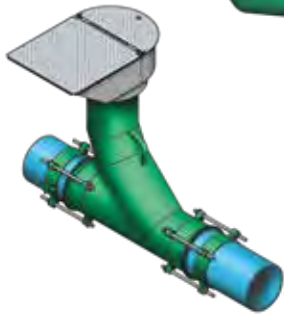


Flush valves are easy to install and maintain. A complete range of flush line fittings is available to ensure maximum performance and durability.

- 45° and 90° long radius elbows and Y adaptors with seals and anti-slip collars
- Well-designed gripper ring to hold the flush valve to the PVC pipe providing a safe non-slip attachment
- 3" air vacuum relief valves have to be installed at the high point of the flush line
- Most of the components have been designed to fit 12¾" O.D. evacuation line. When using a 15.3" O.D. evacuation line, PVC pipes, and components must be purchased locally



*Flush valves mounted on a 90° elbow with 1 anti-slip collar*



*Flush valve mounted on Y adaptor with 2 anti-slip collars*