



Flush Valves for Flush System

An effective way to clean your alleys and holding area

GEA Farm Equipment | Houle

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A Flush System is an efficient method to clean alleys and holding area of a dairy farm. It is automated, low maintenance, requires very little labor and keeps cows clean.

Typical Application

Two flush valve models are available, one for manure alley cleaning and another for holding area cleaning. Both work similarly, the main difference is in the width and pattern of discharge. While the flush valve for manure alley provides a high volume discharge with narrow pattern, the other model offers a wider cleaning pattern thanks to its front lid flow pattern adjustment.

- 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;
- The Flush valves can also be gravity fed by means of a flush tank.

Working Principle

The air balloon 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 hammering from occurring inside the flush lines. Between flush cycles, the flush valves remain closed thanks to the inflated air balloon. When the flush cycle is initiated, air pressure is rapidly released allowing the first flush valve to open fast and to remain opened for the cleaning time period. As the flush valve balloon is inflated, the following flush valve opens and proceeds with its flush cycle.

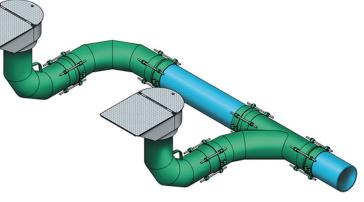
Key Features and Benefits

- Stainless steel base for long life span;
- · Consistent and controlled liquid distribution;
- · Oriented high flush water volume without splashes;
- · Labor and time savings;
- Simple and reliable controls equipped with solenoid valves that control the air to the flush valves air balloon. It can be used with 1, 2, 3 or 4 air valves;
- Robust and reliable 8" air balloon to open and close valve that requires only 40 psi to shut off 26 feet of head pressure.

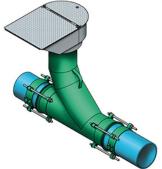


The Flush Valves are easy to install and to maintain. A complete range of flush line fittings is available to ensure maximum performance and durability.

- 45° and 90° long radius elbows and Y adaptors with seals and anti-slip collars;
- Very well designed gripper ring to hold the flush valve to the PVC pipe providing a safe attachment that does not slip;
- 3" air vacuum relief valve has to be installed at each high spots on the flush line to reduce pressure inside the line by releasing air that might have been trapped;
- Most of the components have been designed to fit on a 12¾" O.D. evacuation line. When using 15,3" O.D. evacuation line, PVC pipes and components must be purchased locally.



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



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





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