Flushing Valve Type ABS

Programmable, piston- and ball-operated flushing valve, for maintaining a clean, deposit-free sump.

Application

When organic matter in sewage remains too long in a sump, floating crusts can form, waste and grease can become attached to the sump walls, and layers of deposits can build up on the sump floor. The flushing valve uses the flow from the pump to produce an intense rinsing and flushing action in the sump.
The valve can be programmed to only operate as required (usually for one minute, twice per day) as opposed to the standard operating procedure of each time the pump operates. This results in reduced energy consumption and reduced interference with the pumping capacity of the pump.

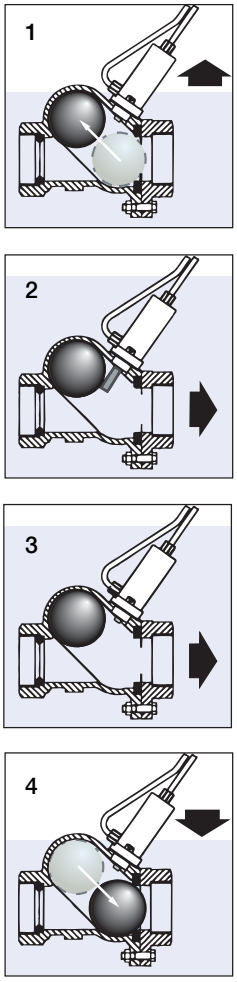
Construction

Cast iron housing with 2" internal threaded connections, for fitting between pedestal bracket and pump flange or between pedestal flange and discharge pipe flange via an intermediate clamping piece (DN 80, DN 100, DN 150 and DN 200), and for connection of a twin air line.

- Includes as standard; control unit on a mounting plate, 10 m twin air line, and with or without intermediate clamping piece and fittings (available separately as an accessory).

Function

1. Flushing valve piston inside cylinder (rest position). Water level in pump sump rises. Floating ball in housing floats upwards and valve is opened.
2. Pump sump is full. By means of the level control system a contact is operated and the mini compressor starts. The piston moves out, the floating ball is held in the upper position, the pre-set timer (approx. 10 seconds) on the pump switches on and flushing begins. The flushing then continues for the length of the pre-set flushing time, e.g. 30 seconds.
3. Flushing time finished, mini compressor switched off, piston retracts, pump runs on.
4. The floating ball is no longer held in position and is sucked downwards by the vacuum produced in the housing. It is then pressed against the outlet opening of the valve thereby closing off the opening. Normal pumping of the effluent into the discharge line then commences.



Control unit

The control unit is suitable for both 50 Hz and 60 Hz single phase use (230V), and consists of a flushing timer relay (1-180 seconds as standard), contactor with delay relay, mini compressor and terminal board. All parts are fitted on a mounting plate. A housing for the control unit is available as an accessory.

Features

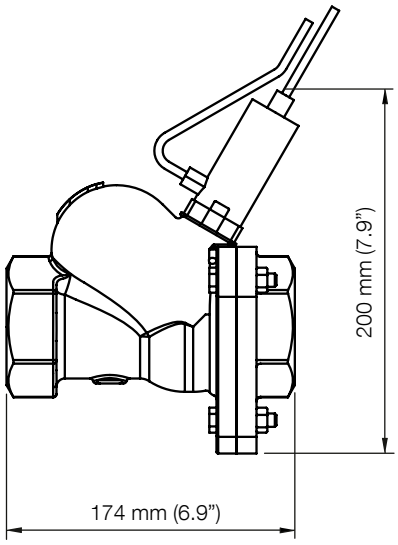
- Automatic sump cleaning.
- Avoids manual or mechanical desludging.
- Large free solids passage with self-cleaning rotating ball.
- Different flushing periods can be chosen.
- Can be installed and removed independently.
- Easy maintenance.
- Cleaned medium in sump reduces odours.
- Reduction in sediment-related pumping and level control problems.

Materials

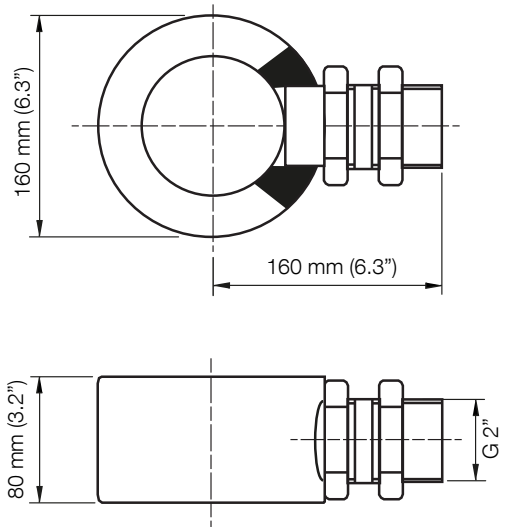
Description	Material
Housing	Cast iron EN-GJL-250
Ball	PE
Piston	Synthetic
Fasteners	Stainless steel

Dimensions

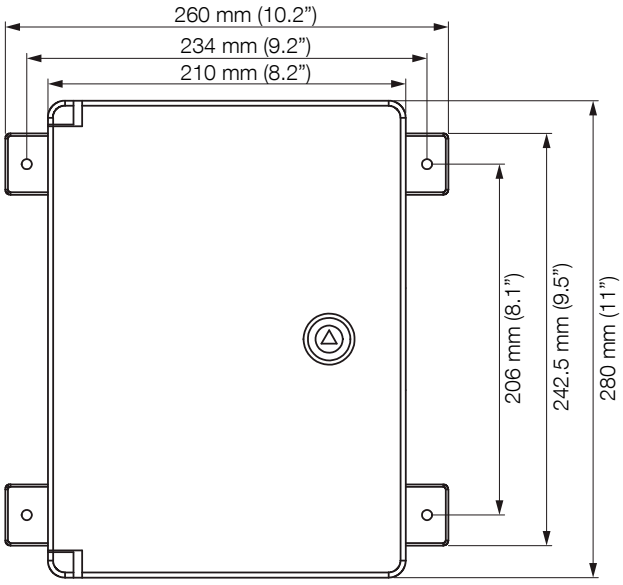
Flushing valve

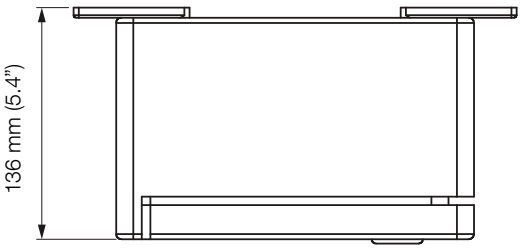


Intermediate clamping piece



Housing for control unit





Accessories

Description	Part no.
Intermediate Clamping Piece Kit DN 80: cast iron ring, gaskets, washers, nuts and bolts, BA nipple and shut-off cap	61740020
Intermediate Clamping Piece Kit DN 100: cast iron ring, gaskets, washers, nuts and bolts, BA nipple and shut-off cap	61740019
Intermediate Clamping Piece Kit DN 150: cast iron ring, gaskets, washers, nuts and bolts, BA nipple and shut-off cap	61740021
Intermediate Clamping Piece Kit DN 200: cast iron ring, gaskets, washers, nuts and bolts, BA nipple and shut-off cap	61745000
Housing: for control unit	61190081
Twin air line (per metre)	15060139