GATE FLUSHING TYPE KS

BIOGEST® | Flushing systems



Effective flushing and cleaning of storm tanks

Storm tanks and sewers require cleaning after operation during storms due to the sediment deposited on the tank or sewer floor once the storm has subsided. If the system is not cleaned, the potential for blockages increases and malodours occur due to septicity. The BIOGEST® Gate Flushing System Type KS is an ideal solution to the problem.

The operation

During a storm, the level in the storm tank or sewer rises and the gate is closed following a signal from the float switch. The hydraulic pump starts and drives the shaft, which in turn closes the gate. As soon as the gate is closed it is locked mechanically and the hydraulic pump shuts off. The flushing chamber fills as the level rises within the tank or sewer.

The storm subsides and the storage tank empties, leaving sludge and other sewage-related debris on the tank floor. Once the tank is empty, the flushing sequence starts automatically. The float switch sends a signal to the control panel. The hydraulic pump starts and a solenoid valve switches. The drive shaft reverses and quickly releases the retaining lock hooks, due to a special long-hole construction in the piston rod. The gate swings open due to the pressure of the head in the flushing chamber, releasing the flush water and cleaning all solids from the floor of the tank or sewer with a long flush.

The sediments deposited on the floor are flushed into the flushing sump and discharged into the sewer.

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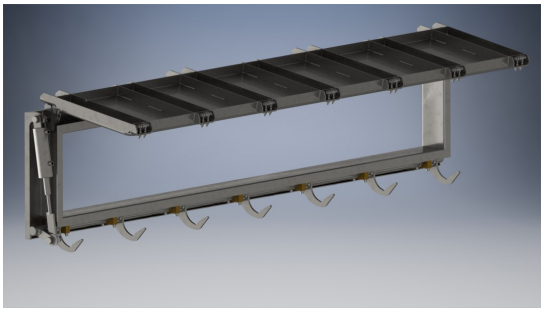
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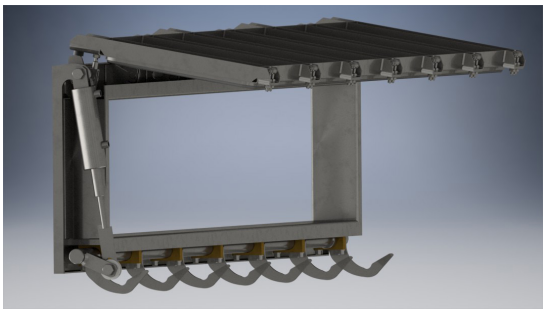
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Advantages

- Suitable for use in storm tanks or sewers
- Flushing column up to 3.0 m high, for a particularly strong rinsing action
- Secure closing of gates thanks to special locking hooks
- Minimal energy consumption
- Low maintenance
- Flushing with rainwater and sewage water
- Repeated flushes possible
- Optional: delayed closing of the flap and minimisation of hydraulic losses thanks to a special damper function

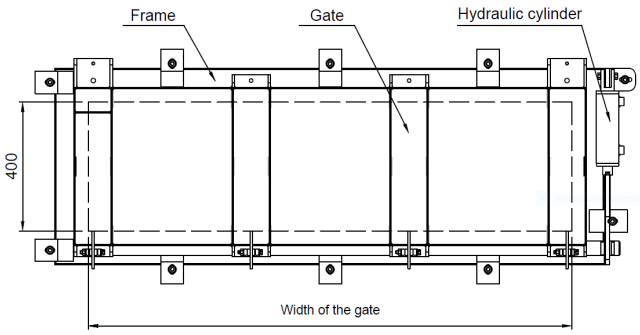




Design parameters

The gate width depends on the width of the flushing lane in the tank or sewer. Tanks wider than 6 m can be cleaned using additional gates or a double-width flushing lane.

Width of flushing lane	Width of gate
Up to 1.75 m	500 mm
1.75 - 2.00 m	750 mm
2.00 - 2.50 m	1,000 mm
2.50 - 3.00 m	1,500 mm
3.00 - 3.50 m	2,000 mm
3.50 - 4.00 m	2,500 mm
4.00 - 5.00 m	2,800 mm
5.00 - 5.50 m	3,500 mm
5.50 - 6.00 m	4,000 mm







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