CHANNEL FLUSHING GATE CF

BIOGEST® | Flushing systems



Effective flushing and cleaning of storage canals and sewage pipes

Wastewater sewers and channels with little slope can accumulate sediment during dry weather operation. Stormwater catchment channels collect sediment during storm events, deposited on the channel or sewer floor. This creates the potential for blockages, and malodours occur due to septicity. The BIOGEST® Channel Flushing Gate Type CF is an ideal solution for flushing and cleaning large canals, sewers, storage and sewage systems.

Functionality

In dry weather and during a rain event the channel flushing gate is in the high position. Operation of the system can follow local requirements.

When flushing is required, the gate is operated by a hydraulically powered double-acting cylinder that moves the plate. As soon as the gate is in the low position, the water pressure from the dry weather flow pushes the seal onto the channel body and seals the gap between the plate and the channel. Once in the low position the hydraulic power pack shuts off. The upstream channel fills with incoming water and the level rises behind the plate.

Once the required water level is reached, the gate is ready to open and the flushing sequence starts automatically. The water behind the plate is released and flushes the downstream channel with the high pressure and volume that was stored behind the plate.

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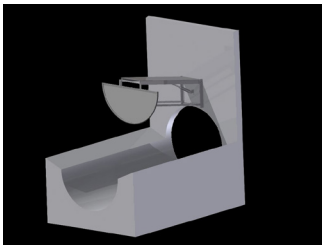
Axius Water companies

CHANNEL FLUSHING GATE CF

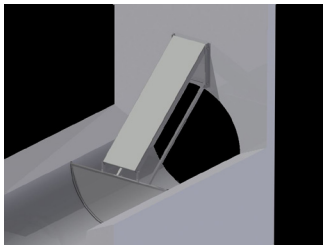
BIOGEST® | Flushing systems

Advantages

- Flushing of channels and sewers over long sections
- No hindrance or reduction in the pipe diameter
- Long-lasting powerful flushing
- Solid stainless steel construction
- Cleaning with existing channel water
- Operation in intervals and with dry weather flows
- Low energy consumption
- Different dimensions available



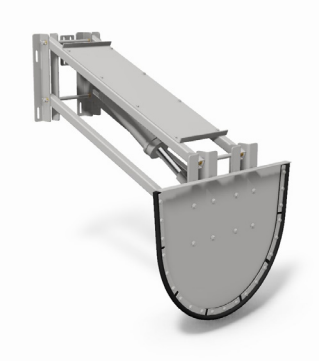
Gate in upper position



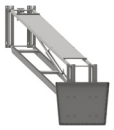
Gate during damming

Design parameters

Circular profile	DN 600 to DN 2000
Rectangular profile	Up to 4 m width
Drive	Hydraulic double-acting cylinder
Construction	Solid stainless steel



Circular profile



Rectangular profile





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