

HydroSelf flushing system-
automatic cleaning of tanks and channels



gate flushing system

The system

The HydroSelf flushing system uses detained water to flush tanks with an extremely high efficiency.

It operates without any external power and requires no complicated controls. The system flushes float-controlled from low storage chambers which are arranged directly on the floor. It is easy in construction and robust in operation. If electric supply is available, the system may also be operated using electric controls with a power usage of maximum 0,75 kW.

The HydroSelf flushing wave is a flushing wave with a typical, very high sweeping force.

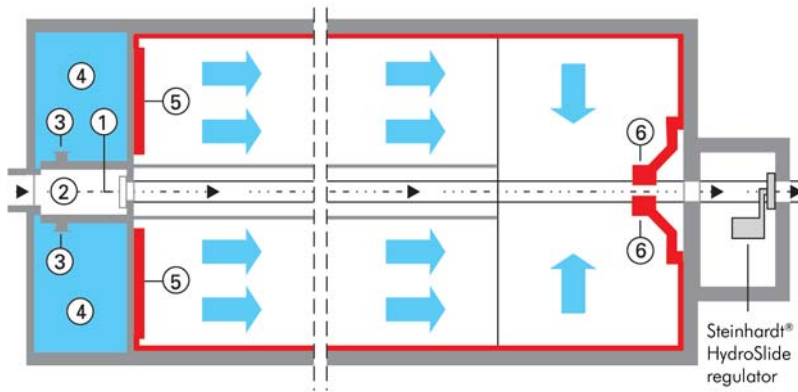
The functioning

Highly polluted water flows through the prethrottle to the outlet. Inlet amounts larger than outlet amounts impound starting at the outlet. The floats are lifted and thus the flushing gates are locked by an encased, hydraulic transmission. Due to the prethrottle, income water in the prechamber, impounds more quickly than in the remaining retention system. By using backwater gates, water flows early into the storage chamber. Thus a filling of the storage chamber is also guaranteed with a partial filling of the retention system. After each filling – even

after partial filling – the flushing gates are unlocked by the falling floats with a lowest water level. This takes place subsequently, as the flushing sump shall remain as small as possible and the pollutants shall not be flushed all together. If the prethrottle is closed, it is possible to flush manually. A single flushing wave is sufficient to flush reliably long tanks and channels even with low storage chambers.

Advantages

- Cleans ecologically, without external power, without external water supply and without complicated controls
- Flushes even after partial fillings and manually
- No limitation on flushway length, with a single flushing wave
- Flexible in adjustment
- Suitable for retrofit
- No maintenance required
- Proven at home and abroad.



Example of a HydroSelf flushing system in a running through tank



HydroSelf flushing system keep sewers clean



Photos front-page:

HydroSelf flushing system in a stormwater retention tank

A HydroSelf flushing wave with the typical, very high sweeping force