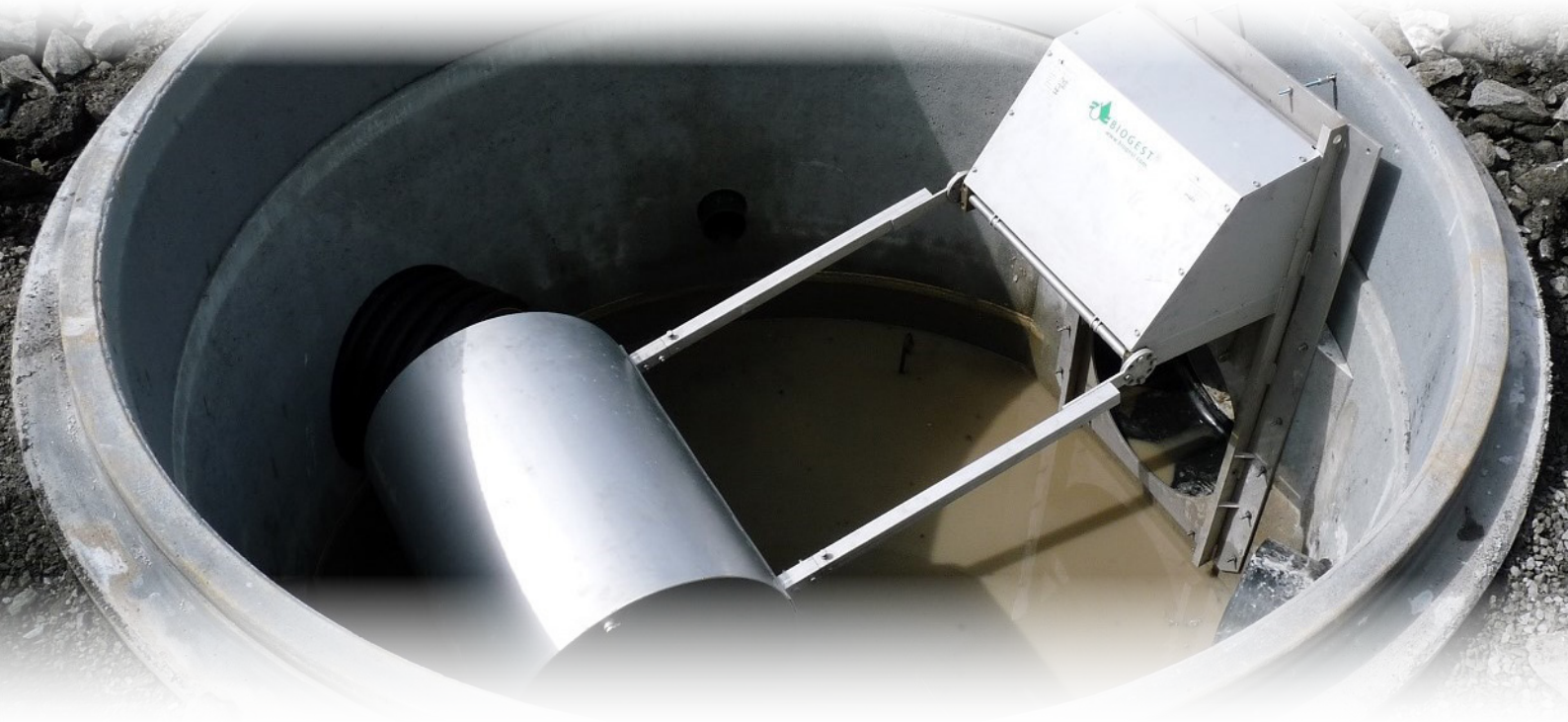
THROTTLE PENSTOCK TYPE SWDS

BIOGEST® | Float-operated flow throttling



For cost-effective discharge throttling from stormwater attenuation systems

The purpose of discharge regulators is to limit the discharge from a stormwater attenuation system to a pre-determined value and to allow a constant discharge, regardless of the water level. The float-operated throttle penstock Type SWDS ensures that the connected treatment facility is fed at a constant flow rate and is not hydraulically overloaded.

How it works

The task of special flow throttles is to limit the discharge of a stormwater attenuation system and to allow a pre-set volume of water to flow out constantly, regardless of the water level. This is relatively easy to achieve if electricity is available to operate level or flow-controlled throttle penstocks. Since many stormwater attenuation systems have no power supply, BIOGEST® developed the Type SWDS discharge regulator, which ensures, without external energy, that the connected treatment facility is fed at a constant rate and is not hydraulically overloaded.

During dry weather, the throttle penstock is fully open, ensuring an unobstructed discharge of water.

If the water level rises in the attenuation system during rainfall to such an extent that the float is lifted, the regulator begins its throttling task and closes the outlet opening. The control process continues until the stored water in the attenuation chamber has been discharged. Once this is the case, the throttle penstock opens fully again.

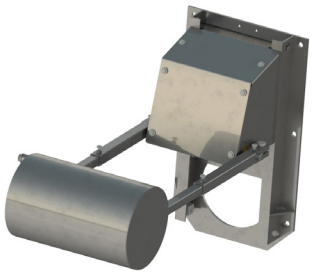
THROTTLE PENSTOCK TYPE SWDS

BIOGEST® | Float-operated flow throttling

Advantages

- Self-acting function without external energy
- No separate throttle shaft required
- Simple and cost-effective installation
- Easy retrofitting due to compact design
- High-quality stainless steel production
- Optional extras:
  - Manual override
  - Integrated gate valve
  - Adapter for circular manholes
  - Integrated emergency drainage
  - Integrated emergency overflow

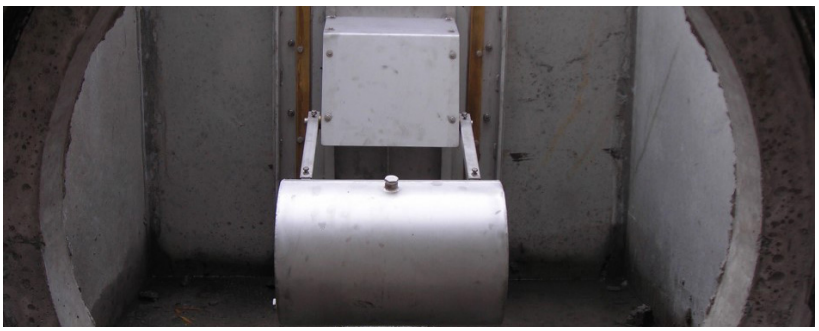




Design discharge

Available in nominal diameters DN 100 to DN 1000 for target discharge rates from 5 l/s to 2400 l/s.

Nominal diameter	Head	Discharge capacity
DN 100	1.0 m	5 - 10 l/s
DN 150	1.0 m	7 - 26 l/s
DN 200	1.0 m	10 - 48 l/s
DN 250	1.5 m	20 - 82 l/s
DN 300	1.5 m	35 - 128 l/s
DN 350	1.5 m	60 - 185 l/s
DN 400	2.0 m	80 - 256 l/s
DN 450	3.0 m	140 - 340 l/s
DN 500	3.0 m	210 - 438 l/s
DN 550	3.0 m	300 - 550 l/s
DN 600	3.0 m	370 - 680 l/s
DN 650	3.0 m	450 - 820 l/s
DN 700	3.0 m	540 - 980 l/s
DN 750	3.0 m	650 - 1170 l/s
DN 800	3.0 m	760 - 1370 l/s
DN 850	3.0 m	890 - 1590 l/s
DN 900	3.0 m	1020 - 1830 l/s
DN 950	3.0 m	1170 - 2090 l/s
DN 1000	3.0 m	1330 - 2400 l/s





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