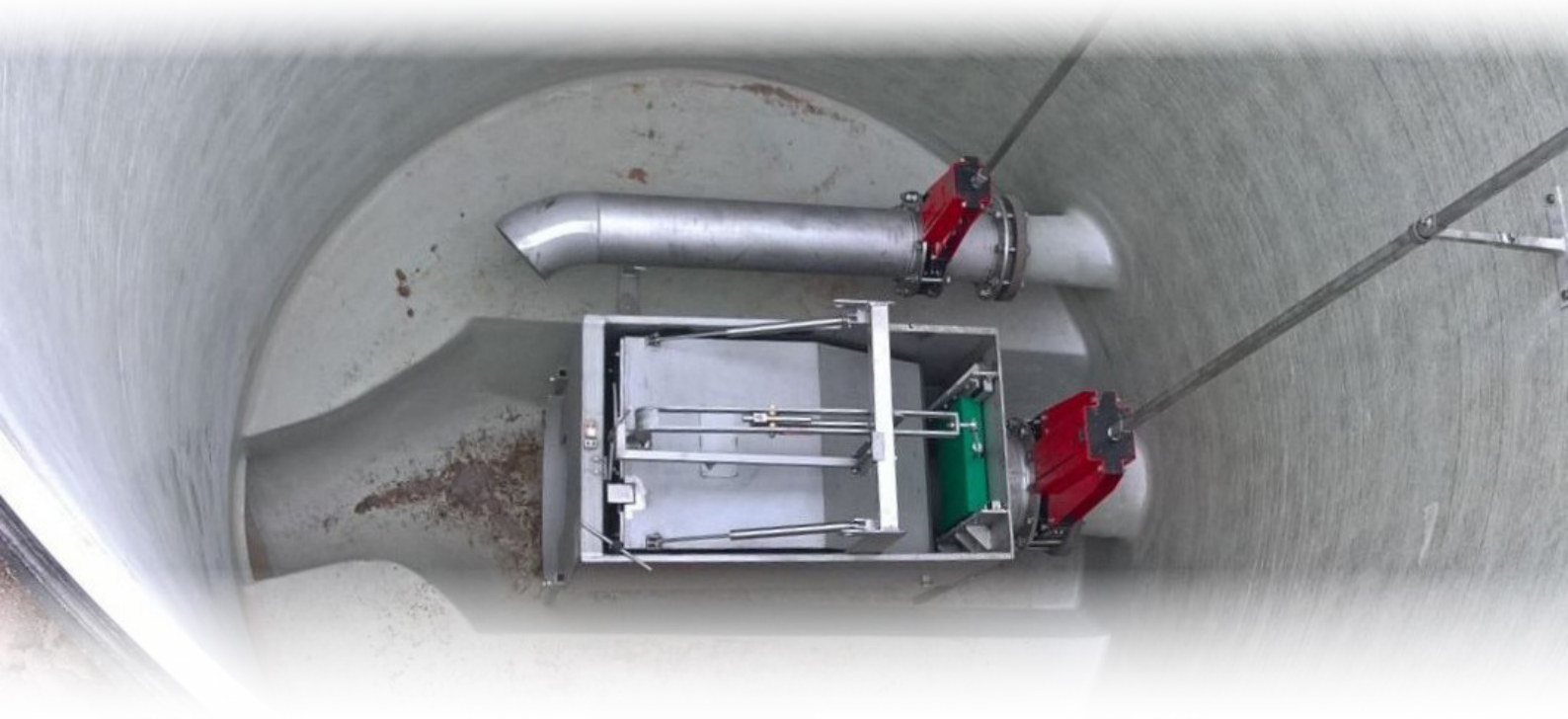
ALPHEUS® TYPE AT

BIOGEST® | Flow throttling



For blockage-free continuous drainage of 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 ALPHEUS® Type AT flow throttle ensures that the connected treatment facility is fed at a constant flow rate and is not hydraulically overloaded.

How it works

During dry weather, the control penstock and the setpoint orifice are open. If the water level exceeds a certain height during wet weather, the regulation becomes active.

The float moves the setpoint orifice into the operating position and maintains a constant throttled discharge. Simultaneously, the control penstock is moved into the control position. The float constantly monitors the water level in the throttle chamber and closes or opens the control penstock just enough to ensure that the target discharge is precisely maintained.

If a blockage occurs in front of the control penstock during regulation, the water level in the throttle chamber is inevitably reduced. This lowers the float automatically or, if necessary, raises the penstock plate until the control penstock is fully open. Once the throttle cross-section has been flushed clear, the control penstock returns to its control position.

If a blockage occurs in the throttle chamber in front of the setpoint penstock, the water level in the chamber inevitably rises. This raises the float or, if necessary, the setpoint penstock plate until the penstock is fully open. After the setpoint penstock has been flushed clear and the water level drops, it returns to its control position.

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ALPHEUS® TYPE AT

BIOGEST® | Flow throttling

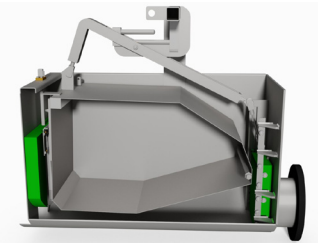
Advantages

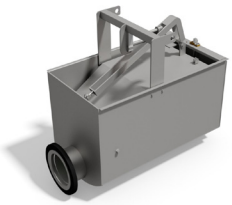
- Self-acting function without external energy
- Semi-dry or dry installation in throttle chamber
- Continuous adjustment of the throttled water quantity
- Prepared for remote control operation
- Automatic regeneration in the event of a blockage
- TÜV-tested vertical Q/H characteristic curve
- Active throttle element according to ATV A111
- High-quality stainless steel production

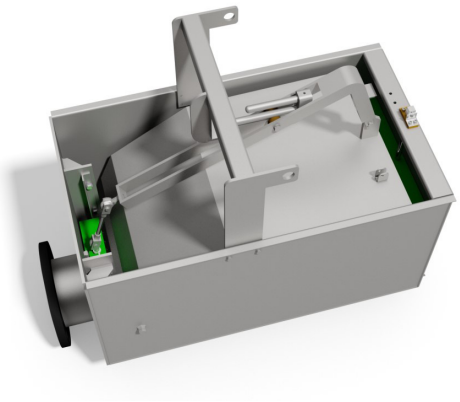
Specification

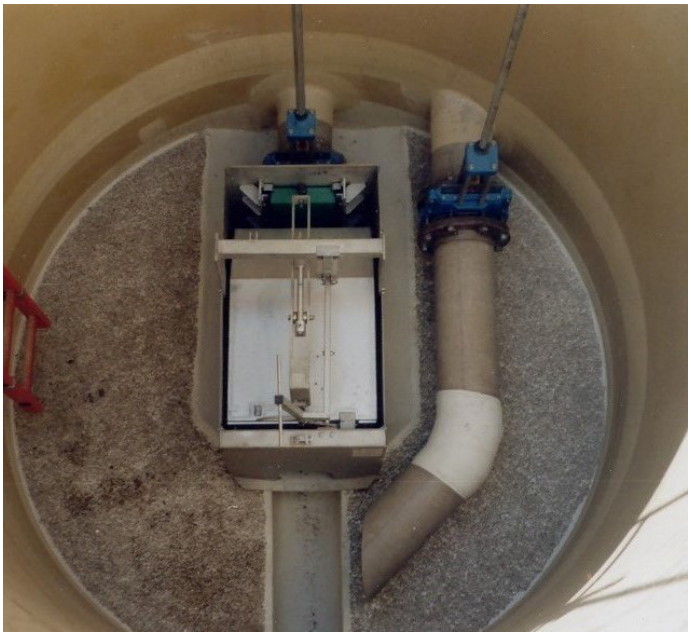
Larger devices and customisations can be manufactured on a project-specific basis.

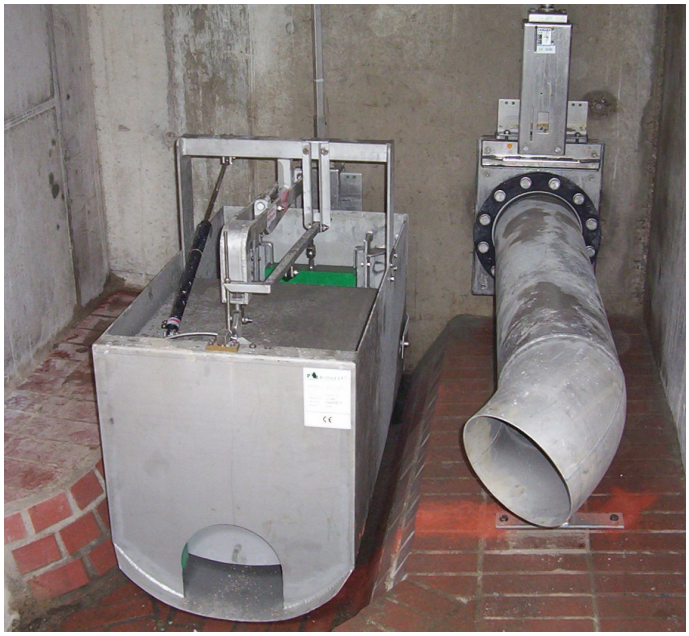
Nominal diameter	DN 100 to DN 500
Target discharge	5 l/s to 438 l/s
Operation	Self-acting, no external energy
Installation	Semi-dry or dry, in throttle chamber
Material	High-quality stainless steel
Characteristic curve	TÜV-tested vertical Q/H
Standard	Active throttle element to ATV A111
Control	Prepared for remote operation











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