ALPHEUS® TYPE AS

BIOGEST® | Flow throttling



For the continuous drainage of stormwater attenuation systems without external energy

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® discharge regulator Type AS 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 throttle is fully open. During rain, the internal float is raised, activating the control mechanism.

Water rises from below into the cap, providing buoyancy to the float and moving it vertically upwards. The control curve, rigidly connected to the float, moves the gate plate via the mechanism far enough across the throttle opening to maintain the set target discharge. The float constantly monitors the water level and adjusts the gate orifice, opening or closing it just enough to hold the target discharge precisely.

The cap functions as a diving bell. As the water rises, the air within the cap is compressed, so the water level in the cap rises only in proportion to the actual water level. The float therefore does not need to monitor the actual water level directly, which allows the regulator to be manufactured with compact dimensions.

Using the manual override, the throttle orifice can be fully opened during tank cleaning to flush the downstream sewer. Since many stormwater attenuation systems have no power supply, BIOGEST® developed the ALPHEUS® discharge regulator, which operates without external energy with the same reliability as electronic throttling.

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Advantages

- Self-acting function without external energy
- No separate throttle shaft required
- Control mechanism without direct contact with water
- Easy retrofitting due to compact design
- TÜV-tested vertical Q/H characteristic curve
- Active flow throttle in accordance with DWA A111
- No invert drop required
- High-quality stainless steel production
- Optional extras:
  - Integrated gate valve
  - Adapter for circular manholes
  - Integrated emergency drainage
  - Integrated emergency overflow

Specification

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

Nominal diameter	DN 100 to DN 1000
Target discharge	2 l/s to 2400 l/s
Operation	Self-acting, no external energy
Characteristic curve	TÜV-tested vertical Q/H
Standard	Active flow throttle to DWA A111
Material	High-quality stainless steel









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