

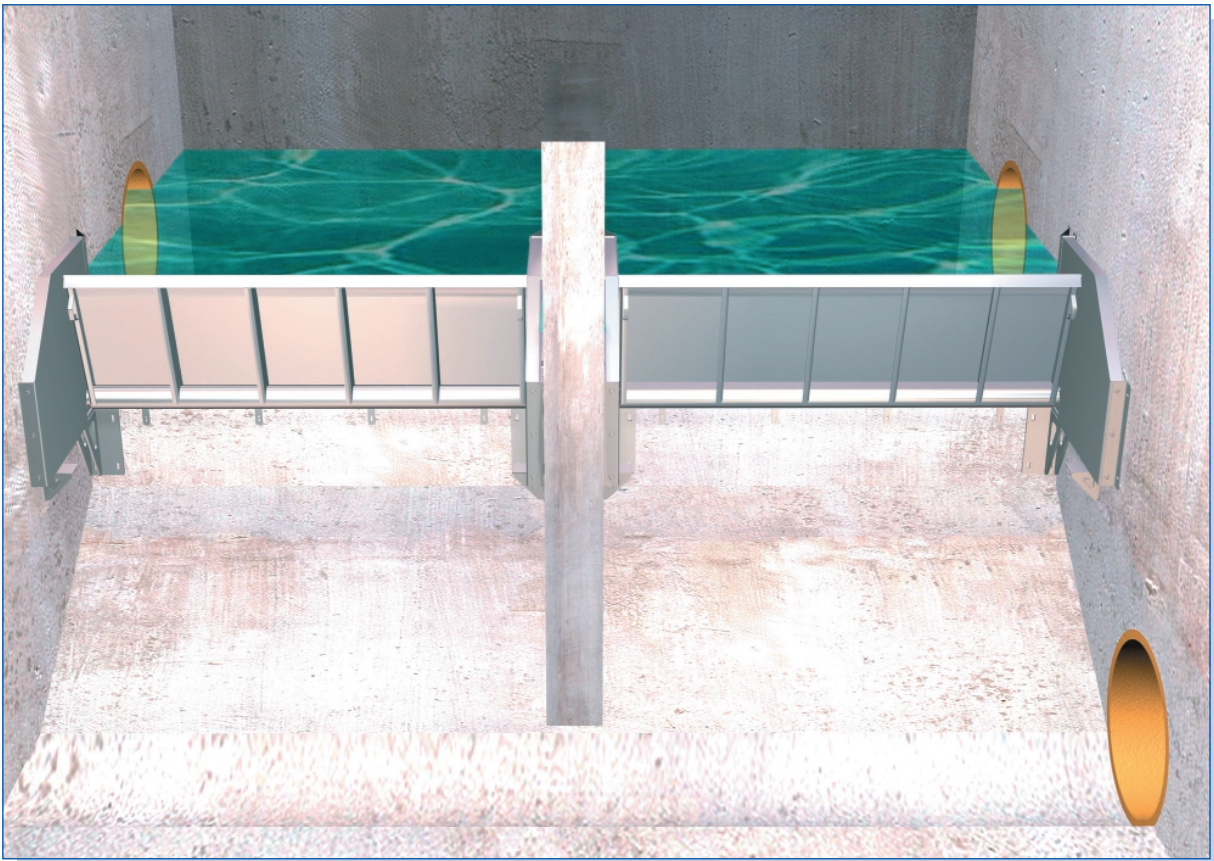
HYDROK U.K.

Water Engineering Solutions

HYDROBEND®

Variable Weir

- maximises storage capacity within the network




microstrain
sustainable engineering solutions

HYDR**O**BEND[®]

With increasing demands on the provision of storm water storage within the sewer networks, modern techniques are now required to optimise and utilise existing storage capacities thus reducing the requirement for costly new constructions.

Overflow weirs within storage tanks and sewer networks are provided to divert excess rainfall into the surrounding water course. In the event of high rainfall the weir level determines the maximum storage within the sewerage system. HYDR**O**BEND[®] provides a controlled method for maintaining the maximum storage volume within the network during storm conditions.

HYDR**O**BEND[®] variable weirs are mounted within the overflow chamber. If the water level exceeds the maximum storage level within the system the weir gate lowers and the water is discharged via the upper edge of the gate. If the water level continues to reduce the weir gate is raised until the maximum storage level is reached once again or the discharge is completed. The HYDR**O**BEND[®] operates without external energy by means of counter weights within the body of the assembly. This system

enables on site adjustments and calibration to ensure the accurate control of the spill event and also future changes to quantity/frequency.

In the event of backwater surcharge, the HYDR**O**BEND[®] counter balance can be upgraded and the reduction of the overflow quantity can be compensated to ensure the maintenance of the maximum storage level within the storage system

The HYDR**O**BEND[®] the weir gate can be provided as a flood protection valve.

Advantages and Benefits

- Activated storage volume
 - Keeps water level constant
 - Reduces discharge frequency
 - Protects receiving water
 - Does not require external energy
 - Modular structure
 - Reliable operation
 - Adjustable water level
 - Can be retrofitted onto existing weir overflows
 - Low-maintenance
- Robust stainless steel construction
 - Optional back water compensation
 - Reduces construction costs
 - Increases the effective storage volume
 - Can reduce the spill frequency of existing discharges

