

# ELIQUO | HYDROK

## HydroSlide®



*Flow Control Regulators*



# HydroSlide®

WITH INCREASING DEMANDS UPON THE CONTROL OF FLOWS WITHIN WATER SYSTEMS THE MODERN MECHANICAL FLOW REGULATORS ARE NOW REQUIRED TO PROVIDE INCREASINGLY ACCURATE AND RELIABLE OPERATION.

THE MAINTENANCE OF SUCH UNITS FROM GROUND LEVEL IS BECOMING A STANDARD REQUIREMENT ALONG WITH THE ABILITY TO RETROFIT INTO EXISTING MANHOLES.

ELIQUO HYDROK, sole UK distributor for

**Steinhardt®**  
Water Technology Systems

Variable orifice provides a constant discharge throughout the units head range.



Flow regulation from as little as 2 l/s

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## HOW IT WORKS

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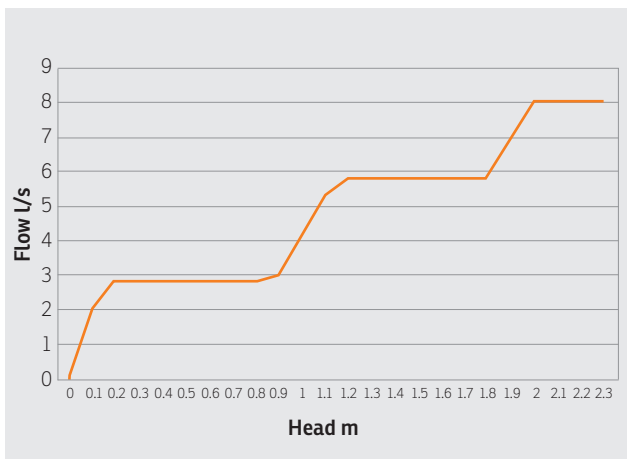
The **HydroSlide** flow regulator provides a proven cost effective technique for regulating flows from as little as 2 l/s. The float activated mechanism of the **HydroSlide** is designed to maintain a constant discharge without the use of external energy sources. The orifice area is adjusted to suit any increase or decrease in the upstream water level. This variable orifice provides a constant discharge throughout the units head range.

These units can also be provided to control varying flows at specified head levels to provide a 'stepped' discharge solution relative to permitted discharge rates at specified storm return periods. This is particularly related to surface water Green Field run-off discharge rates discharges.

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## TYPICAL STEPPED HYDROSLIDE FLOW CONTROL

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## ADVANTAGES AND BENEFITS

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Foul sewer flow control

Surface water flow control

Controlled discharge of storm attenuation tanks

Flow to treatment in sewage treatment works - with spindle fine adjustments

Prevention of downstream flooding

Utilisation of the upstream storage volumes within the sewer network

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## OPERATING PRINCIPLES

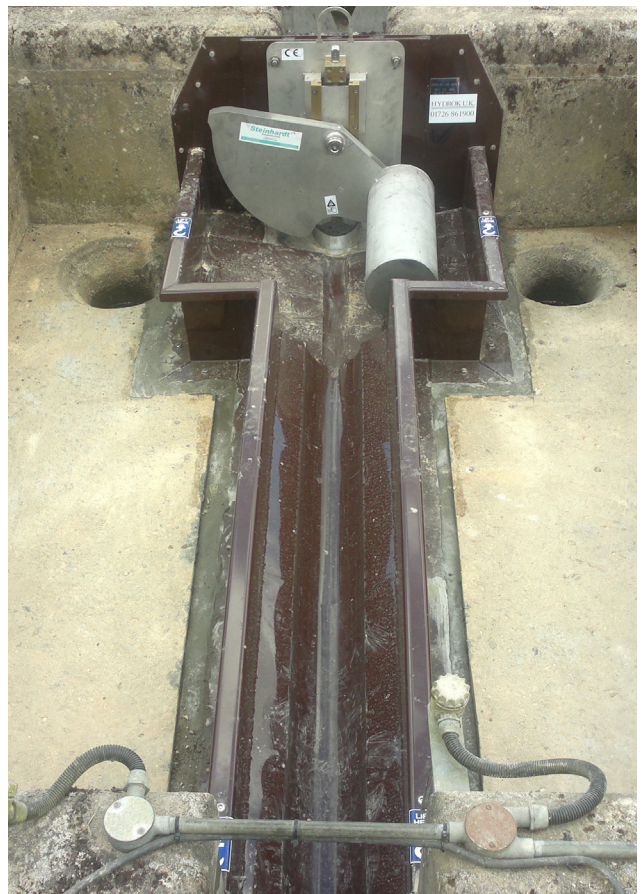
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The **HydroSlide** remains in the open position during dry weather flow. As the inflow within the flow control chamber increases and exceeds the capacity of the fully opened unit, the increasing water level causes the float to rise, this in turn causes the variable orifice of the **HydroSlide** to be adjusted so that a constant discharge is maintained throughout the head range.

The flow rate is maintained constant for head variations of up to twelve times the nominal valve inlet diameter. For a unit with a nominal diameter of 200mm the upstream water level may vary from 0 to 2.4m while maintaining a constant discharge.

The **HydroSlide**® flow passage area is largest at the most critical time during dry weather flow e.g. at the beginning of a storm event when the sewer pipes are being flushed and at the end of a storm event when the sewer lines are emptying, thereby reducing the chances and frequency of blockage.

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Designed to maintain a constant discharge flow control without the use of external energy sources.

Version 001

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