

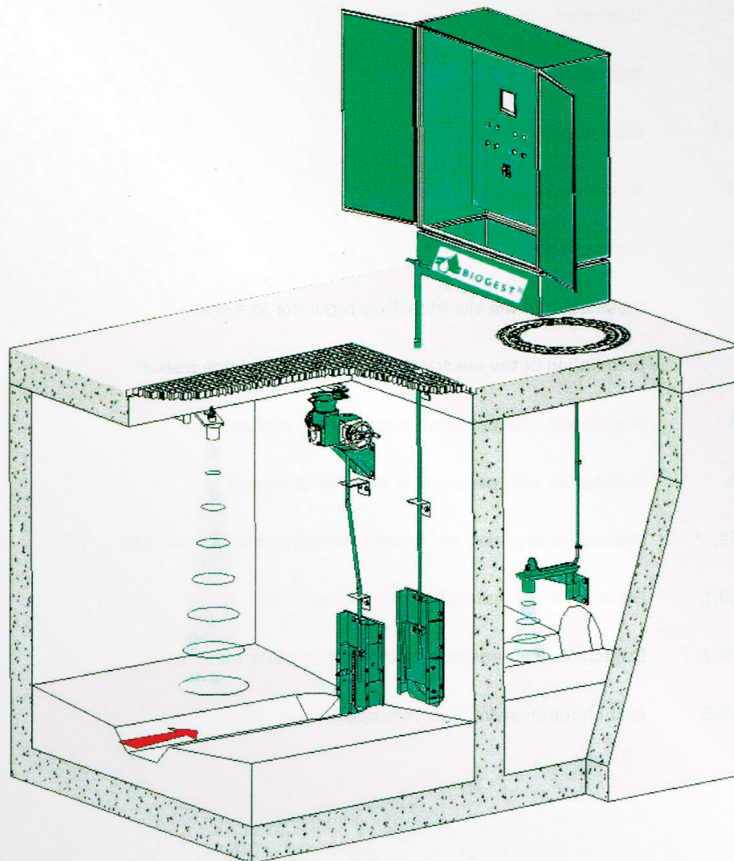
EGAR Electrical Flow Regulator

Key Features & Benefits:

- Powered flow regulation controlled via ultrasonic level measurement.
- Maintains control throughout head range.
- Adjustable maximum flow.
- Stepped flow rates can be accommodated.
- Automatic blockage recognition / release function.

How We Create Value:

- Can be used to reduce risk of flooding downstream.
- Adjustable flow rate, can be increased as development grows.
- Minimal Maintenance requirement.
- 25 year design life - stainless steel manufacture.
- Can be used to regulate sub-catchment discharges into Trunk systems.



EGAR Electrical Flow Regulator

The EGAR flow regulator is a powered control device; with the penstock element is powered by an electrical modulating actuator. The depth of flow is monitored via ultrasonic transducers which are then used within the control programme to calculate the aperture opening to maintain the flow rate downstream.

During dry weather the aperture is fully open providing an unrestricted outlet, as the flow level rises due to rainfall, the EGAR penstock element is driven to the calculated position to maintain the required Pass Forward Flow (PFF). If a blockage occurs, the downstream transducer will detect a reduction in the PFF and gradually open the penstock until the blockage is released, then return to regulation.

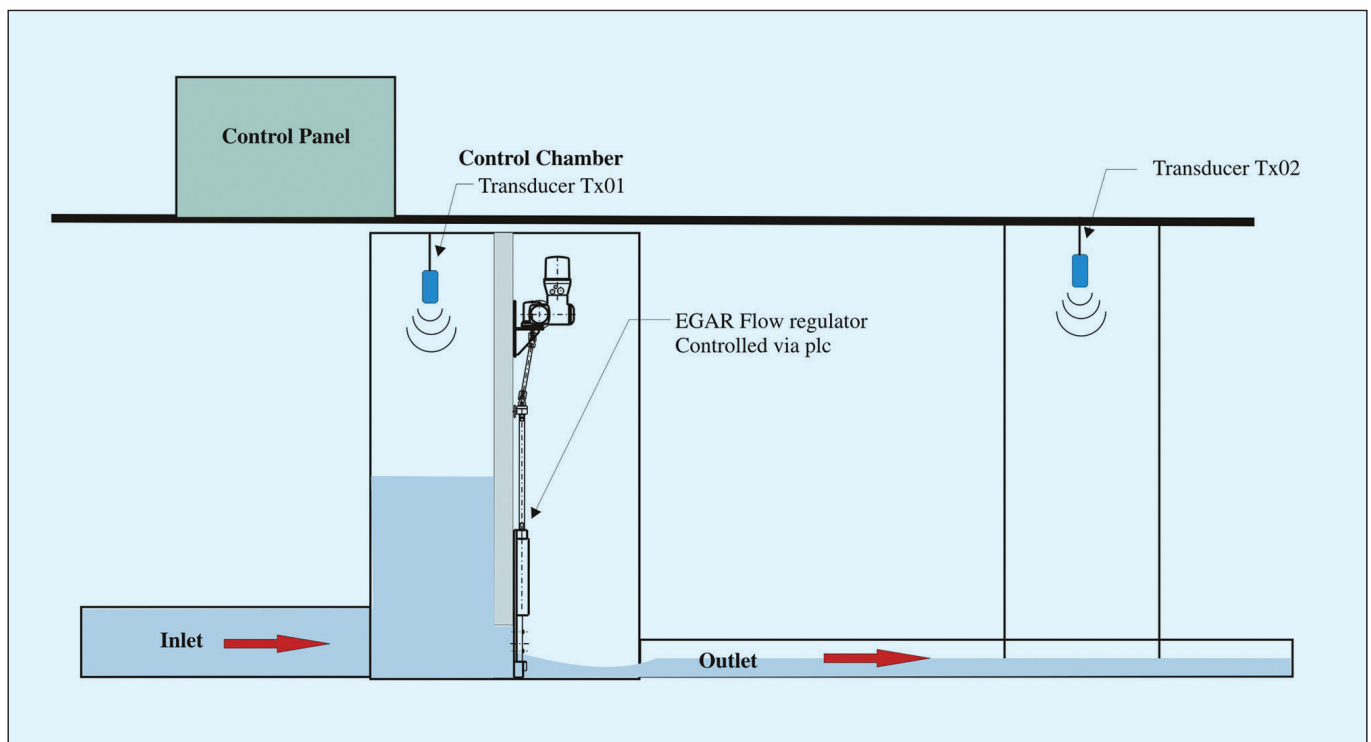
As this unit is programmable, it is easy to input a stepped flow rate regime. This can be to either increase the PFF from a chamber or reduce the PFF to reduce the risk of downstream flooding.

This equipment can also be utilised to create a flush wave along a sewer if required, by closing the valve, impounding flow upstream and then fully opening the valve to release the wave.

There are a number of varying configurations that can be used for the installation of the system, for example, the downstream transducer can be sited in a downstream trunk sewer, permitting the flow to be varied dependent upon the level in that sewer.

Additional features permit:

- Data logging of the system to SCADA
- Attenuation / Dam control and River Control



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