



ELIQUO | HYDROK

Flushing Technologies



Storm Tank and Sewer Cleansing



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DURING TIMES OF RAINFALL THE SEWERS WITHIN THE NETWORK SYSTEMS BECOME SURCHARGED WITH COMBINED SEWAGE AND STORM WATER. IN ORDER TO PROTECT THE WASTEWATER TREATMENT WORKS FROM SHOCK LOADS AND ALSO REDUCE THE DISCHARGE FREQUENCIES OVER THE CSOS, ENGINEERS ARE REQUIRED TO DESIGN AND INSTALL STORM WATER HOLDING TANKS AND TANK SEWER PIPES.

THESE STORAGE SYSTEMS HOLD THE STORM FLOWS AND ACT AS "BUFFERS" WITHIN THE NETWORKS RELEASING THE WATER HELD BACK ONTO TREATMENT ONCE THE STORM EVENT HAS PAST. DURING THE TIMES OF STORAGE, THE SEDIMENTS HELD IN SUSPENSION WITHIN THE STORED WATER WILL SETTLE AND FORM A LAYER OF SLUDGE ON THE TANK FLOOR. ELIQUO HYDROK OFFER A PORTFOLIO OF SYSTEMS FOR RECTANGULAR AND ROUND TANKS, INCLUDING THE CWF STORM FLUSH, WHICH PROVIDE A PROVEN SOLUTION FOR THE REMOVAL THIS SEDIMENT.

CWF 'FLUSHING BELL'

Self-regulating storm tank flushing

The Eliquo Hydrok CWF Storm Flush storm tank cleansing system, also referred to as the Hydrok 'Flushing Bell', provides a cost effective solution for the removal of sedimentation by the use of automatic, self-regulated flushing technology.

The CWF Storm Flush system is a highly effective ,non-powered cleaning system for all storm water retention tanks, utilising the sewage storm water for the flushing process thus requiring no additional fresh water.



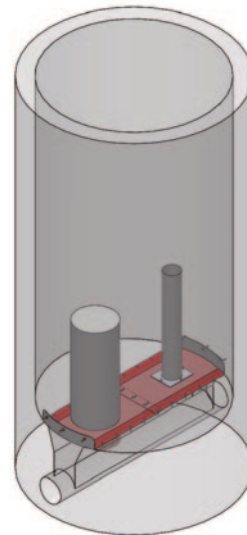
SYPHON FLUSH

Automatic sewer flushing

A comprehensive flushing regime in sewers with slack gradients can become increasingly difficult. Siltation within sewerage networks can lead to reduced hydraulic capacity, flooding and odour problems.

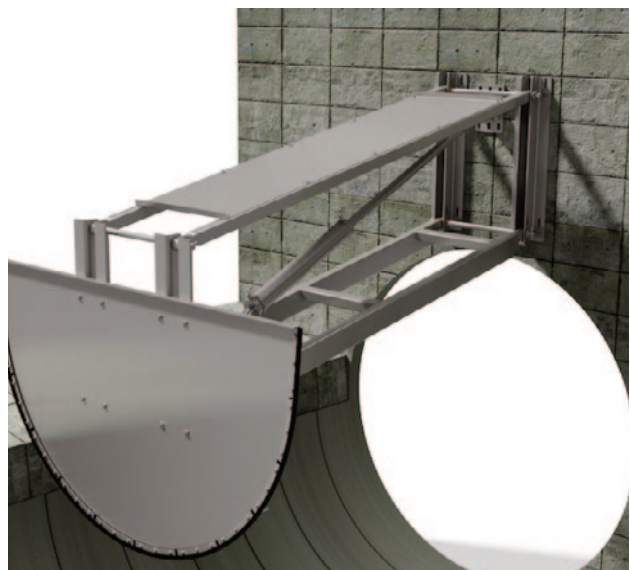
The Syphon Flush flushing system is a highly effective cleaning system for small bore sewers up to 400 mm diameter and can be arranged as follows:

- Water supply connected via road gully, so that it operates during wet periods, to maintain silt flushing.
- Water supply controlled by 'time controlled valve' to operate in a controlled manner, in dry weather conditions.



CHANNEL FLUSHING GATE - CF

The CF Flushing Gate acts as a shield and uses impounded water to flush the downstream sewer automatically. During dry weather conditions the CF will impound the flow behind the shield, periodically releasing the flow as a flushing wave carrying sewer debris along the invert transporting it to the sewage treatment plant. In storm conditions the shield rises above the flow leaving the high flows to pass through unimpeded.



VACUUM FLUSHING SYSTEM

Round and rectangular tank flushing system

In order to effectively clean up the retention tanks, the Vacuum Flushing System (VFS) was developed, this can be used with or without electrical energy.

Once the water level in a tank or a sewer reaches a certain level, a vacuum pump switches on automatically and fills the flushing chamber up with water. As soon as the basin or the sewer has been emptied, the sediments remain on the tank floor, the flushing process starts automatically by filling the tank or sewer with a surge using the water from the flushing chamber



FLUSHING GATES - KS

Sewer tank flushing system for tanks and sewers

With the KS Flushing Gate systems, control can either take place electronically or by using float technology. The flushing chamber is filled whenever water is in the tank or sewer. As soon as the tank is empty, the flushing gates will open automatically and the flushing wave enters the sewer or tank with a very high sweeping force.

The KS flushing system is a highly effective cleaning system for rectangular or circular storm water retention tanks and storage sewer systems.



TIPPING BUCKETS

Self-regulating storm tank flushing

Eliquo Hydrok Tipping Buckets are often used to clean our Static Peak Screens. Its' simple design and adaptability make it an ideal solution for screen cleaning in areas where site access may be difficult.

Placed directly above the screen, the bucket can be filled with any available water including rain water, final effluent or potable water





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