ecoStop

Petroleum spill control system

FREYTECH INC.

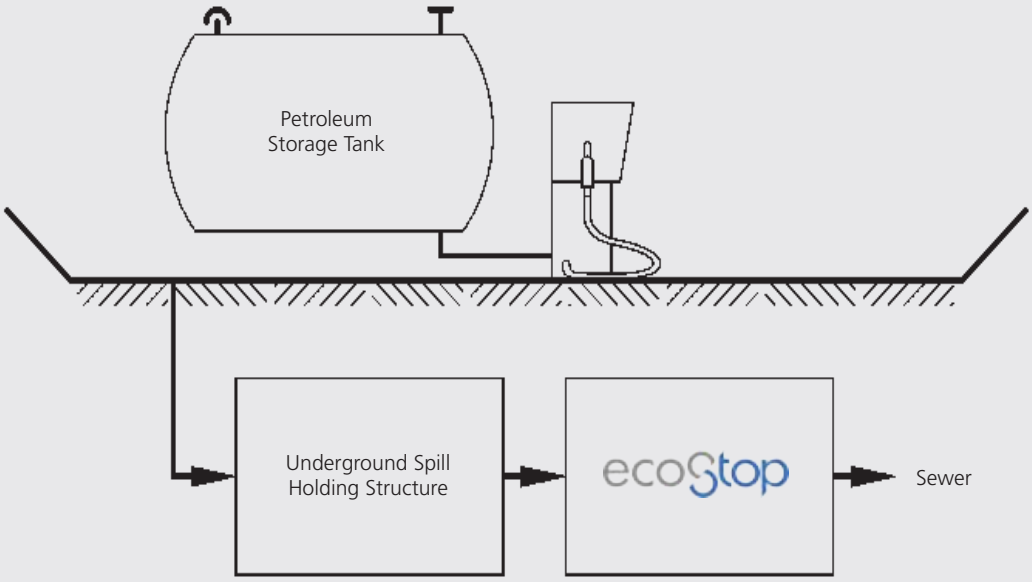
ecoStop

Version 1.2.2.20b

ecoStop Spill Control System
The clear idea

One single oil droplet can contaminate one hundred liters of pure water. With ecoStop, spill control is more reliable than ever before.

Did you know that one single oil droplet can contaminate one hundred liters of pure drinking water? Imagine the catastrophic consequences of an uncontrolled oil spill to our environment; compounded by the liability, cost and fines for the remediation of site spills. ecoStop can prevent this scenario from occurring by detecting a spill and shutting the drainage system, thus keeping the spill on-site.



Today's environmental legislation is hard to comply with. ecoStop meets tomorrow's standards today.

One basic requirement of our ecoStop spill control equipment is that it is absolutely watertight. Every shut-off valve is tested at a pressure of 0.5 bar or 16 feet of total dynamic head. Designed with future standards in mind, ecoStop far exceeds the tough European standards outlined in DIN 1999 and EN858.
The outstanding test results achieved at noted testing institutions speak of the excellent performance of the ecoStop Spill Control System. Looking to the future, ecoStop will be a valuable investment and a major contribution in protecting our environment into the new millenium.

Can your company afford the cost of a major spill? With ecoStop you can!

The costs associated with an oil spill are high, not just for our environment but also for your company or client. ecoStop provides the safest and most cost-effective method to control spills. Consider ecoStop as your spill control system and insurance against the extreme cost of a major disaster.

Working principle

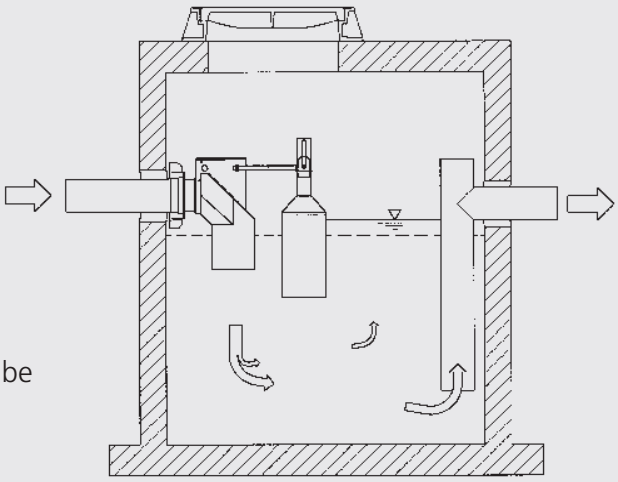
General

The ecoStop Spill Control System is designed to control spills at petroleum storage or fueling facilities. A spill situation shuts down ecoStop's closure valve, preventing the discharge of free oil to municipal sewers or direct discharge outfalls. ecoStop maintains the spill on site where it can be contained either below grade (i.e. an underground storage tank or a large diameter pipe) or in an above grade, diked area. The capacities of this upstream storage reservoir should be large enough to accommodate typical amounts of a tank truck oil-spill (with an additional capacity, safety factor).

The downstream ecoStop tank is equipped with ecoStop'sautomatic shut-off valve (patent pending). This float actuated closure device stops the flow through the system when the maximum oil storage capacity or a certain liquid level in the ecoStop chamber is reached. In its closed position, the valve is watertight up to 0.5 bar (5m water column). The ecoStop detects spills automatically and therefore eliminates the most common failures in traditional spill control systems, human error. In the event of a minor petroleum build-up or a catastrophic type spill, changes in the liquid levels can be monitored by accurate and reliable liquid level sensor alarms.

Installation

The system is installed in-line and downstream from any segregated petroleum containment drainage area treating runoff.

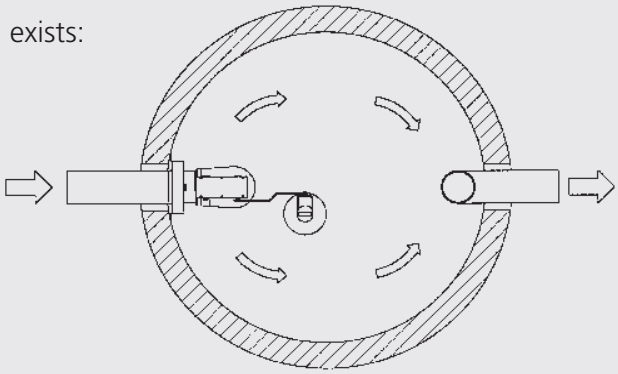


Ecostop comes pre-installed in a standard precast concrete manhole or in an ecoSep Oil/Water Separator. ecoStop can be retrofitted to an existing drainage system.

Standard maintenance

Any facility or site, where the potential for a petroleum spill exists:

- Gasoline stations and other fueling facilities
- Electrical transformers
- Oil storage areas
- Transportation fueling systems



ecoStop's oil spill control (patent pending)

ecoStop at a glance

Catastrophic oil spill control
An inlet shut-off valve (patent pending) makes ecoStop the industry standard in providing the highest environmental protection against discharge of petroleum spills at your facility.

Watertight to 0,5 bar pressure (16 feet TDH)
The outstanding test results achieved at noted testing institutions show that ecoStop will be able to meet even tougher future standards.

High operational reliability
No external energy supply is required, no electrical parts and constructed only of stainless steel components.

Easy to install
The system is prepackaged in a standard precast concrete manhole.

Easy to retrofit
To existing concrete separators or manholes.

An investment that is built to last
Due to the use of stainless steel components and high strength precast concrete hosts.

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