

HYNDS ENVIRO-VALVE



Introduction

Under the Resource Management Act 1991, trade waste and runoff from potentially contaminated areas must be discharged to the sewer network. Stormwater runoff however is prohibited from being discharged to the sewer and must be separated from the contaminated runoff.

The Hynds "Enviro-Valve" is an inexpensive alternative to roofing a wash-down area and is ideal for all first flush diversion requirements.

Applications

The Hynds "Enviro-Valve" is suitable for most sites where the separation and discharge of both stormwater and trade waste is required. The runoff areas must be designated wash-down areas however and must be isolated accordingly.

Typical sites include:

- Car wash areas;
- Industrial wash down facilities; and
- Supermarket refuse areas.

Models

The following "Enviro-Valve" models are available

- Standard "Enviro-Valve": suitable for areas with low traffic loading (see illustration on page 2).
- Heavy Duty "Enviro-Valve": suitable for heavy traffic loading (see illustration on above).

Outlet pipes can be designed up to 200mm diameter. Contact Hynds Environmental for assistance with product specification.

HYNDS ENVIRO-VALVE

Advantages

- Efficient over a wide range of flows
- Easy to install
- Low maintenance
- Easy to specify
- Easily connected to a standard 240 V power source
- Safe (12 V AC operation)
- Can be fitted to existing interceptors

Installation Requirements

The Hynds "Enviro-Valve" is a complete water diversion system ready to install directly into the wash pad area, either on its own or in series with new or existing treatment systems.

System Maintenance

A six monthly maintenance schedule is recommended for Hynds "Enviro-Valves".

Hynds Environmental offers maintenance contracts to complete this procedure and ensure compliance with resource consent requirements.

HYNDS "ENVIRO-VALVE" COMPONENTS

Water Flow Switch

The flow-switch is installed on the wash-down water supply and connected to the control panel.

Galvanised Frame and Grate

The frame and grate is installed flush with the finished ground surface. Designed for traffic loading so suitable for carpark applications.

Leaf Catcher

A polyethylene leaf catcher fits below the frame and grate to capture any large pollutants. This should be regularly cleaned to ensure unrestricted flow into the sump.

PE Sump

The polyethylene sump is fitted with inlet and outlet pipes to the specified size. Suitable for carpark applications.

Hydraulic Ram

The hydraulic ram controls the flow between the stormwater and sewer outlets. During the "First Flush" of rainfall and wash-down conditions, the inlet to the stormwater pipe is closed. Once a predetermined rate of rainfall has been measured, the ram position changes to close the sewer outlet pipe and divert all flow to the stormwater network.

Weather Sensor

Collects and measures the rainfall using electronic sensors. The flow is diverted once a predetermined rate of rainfall has been recorded.

Control Panel

Controls the flow between the sewer and stormwater outlets. Displays the position of the hydraulic ram, power connection and highlights faults if they occur. Connects to a 240V AC power source via an AC adaptor supplied.

Mains Water Pressure

The hydraulic ram is connected to mains water supply via a solenoid valve that is used to control the flow to the hydraulic ram.

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