First Flush Diversion System FOX FF600

Demand driven diversion unit providing additional environmental protection

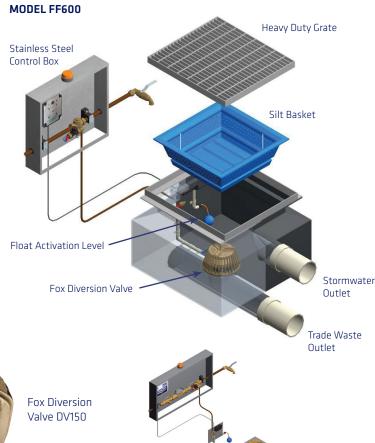
The Fox FF600 is a Demand Driven Diversion System for an unroofed wash bay that provides additional stormwater protection by capturing the "First Flush" of rain from the wash area when it starts to rain.



The Fox First Flush Diversion System is hydraulically actuated from the wash point in the wash bay, opening automatically and diverting all dirty wash water to the underground holding tank for treatment by an Oil Separator.

HOW DOES IT WORK?

At the commencement of rain the FF600 automatically diverts the contaminated "first flush" of rain to the underground dirty water holding tank. After diverting the First Flush of rain to treatment the FF600 automatically locks the diversion valve closed sending all rain water to the stormwater course.





Fox Demand Valve DMV25







- Aviation/Airports
- Earthmoving
- Armed Forces
- Ports
- Marinas
- Fuel/Gas Stations
- Mining
- Slipways
- Trucking/Transport
- Vehicle Dealerships

CONTACT DETAILS

Stormwater360

FREEPHONE: 0800 STORMWATER (0800786769)

www.stormwater360.co.nz





SCHEMATIC DETAIL OF FF600 SYSTEM



Silt Basket Capacity SPECIFICATIONS

Grate Flow Rate Diversion Valve

@.5m head Galvanised Class B Heavy Duty 1200I/min

Optional Strobe Alarm

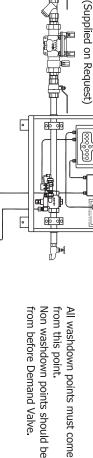
9mm holes 50 Litres 6mm MDPE

Class 'C' Grate Available Options

Note: Inverts will change. Request details if required Class 'D' Grate Stainless Steel Control Panel available in

> GPO (240v 10Amp by others) Valve with provision to mount a Contains PLC and Demand Control box - 600 x 550mm

by strainer and RPZ Must be protected Cold Water Supply (by others) Min 100kPa.



Protect with 32mm Conduit 6 core Control Cable 775 Float 150mmØ Outlet Activation Level Drive Line (by others) at valve. enable disconnection ½"ØD Copper tube Install with 90° bend to 630







to be engaged by the purchaser. System to be to be installed by certified tradesmen in accordance customer. All plumbing and electrical connections This is a schematic representation only. Slab size and gradient to engineers details as arranged by approved by relative Local Authorities before with relative authorities requirements. Tradesmen

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Project

System Specifications

Fox Diversion Valve

To Stormwater 150mmØ Outlet 32

Drawing Title FF600 System

FF600

To Tradewaste

Drawn by:	
Date:	
Scale:	
Drawing No:	

PROCESS DESCRIPTION

i.e. $250m^2$ area x 10mm depth = 2500 Litres. = Area of Wash Slab (m²) x First Flush Depth (mm)

(by others)

<u>Calculation Note:</u>
The working volume is the 'First Flush Capture Volume'.

that are normally collected with a conventional First Flush the runoff will be through the stormwater outlet pipe. diverted. After the First Flush has been taken discharge of continue until the required 'First Flush' volume has been pit contents to the Treatment tank. This procedure will will activate, opening the diversion valve and diverting the closed. At a point just below the stormwater outlet a float During a rain event if no washdown is taking place, the at the end of a washdown operation. Runoff is presented guaranteed that an area will be left free of contaminants level in the chamber will rise as the diversion valve is holding tank for treatment or proper disposal. basket. During a wash operation all runoff is diverted to a to the Fox FF600 chamber via the grated inlet and silt This arrangement eliminates the larger volumes of runoff The Fox FF600 is suitable for use where it can not be