

# Storm Water Flow Control Chambers



## Overview

Flow control systems are essential to regulate storm water flow before discharging into water courses or sewer networks.

Cygnets Storm water Flow control chambers are designed as a totally integrated solution to this problem.

Our chambers are fabricated through a range of depths and diameters to meet precise containment and flow criteria.

All chambers are prefabricated by using specialist plastic welding techniques which will render the structure completely water tight and each unit is tested for structural integrity before leaving our fabrication workshops.

Incorporated within the chamber is a Q- brake Vortex control device. The design of a vortex flow control is based on the fluid mechanics principal of the forced vortex, which permits flow regulation without moving parts. This incorporated device employs the upstream head orifice size and flow path to pre-fine flow rates and ensure downstream flooding is prevented.

### Prefabricated Chambers

- Easy to install thermo-plastic chambers
- Bespoke fabrication with inlets and outlets in twin-wall pipe for simple connection
- Chamber diameters ranging from 600mm to 3000mm
- Solid welded HDPE baseplate
- All interfaces fully welded, watertight and spark tested
- Ladders, headwall and penstocks all optional

### Q- brake flow control device

- Regulates storm-water flows from 2 -100 litres per second
- Individually configured Vortex flow devices to suit specific performance criteria
- Device manufactured from 304 stainless steel
- Inlet/ outlet determined by laboratory verified discharge curves
- Large clear opening reduces risk of blockage

