Vortiflo Flow Control Chambers are specifically designed for controlling the flow of storm water from large volume attenuation systems, preventing downstream flooding during periods of heavy rainfall. All Vortiflo units are designed to meet client and site specifications and achieve the specified flow rate at the given head/height.

The main chambers are manufactured from a robust, high strength polyethylene. The chamber incorporates a Vortex Flow Control, which is factory fitted into the chamber, so the unit is ready for immediate installation on site. The flow controls themselves are manufactured from 304 Grade stainless steel and available in sizes to suit an extensive range of flow rate specifications.

How they Work: Surface water enters the Vortiflo Chamber from the upstream attenuation system, when the water enters the Flow Control, it creates an internal vortex (as shown below right). This Vortex reduces the outlet flow, as required specification and optimises the use of upstream storage.

Features and Benefits:
- Individually designed to the specific performance requirements of the application
- Single Piece Polyethylene Chambers
- Chambers are custom built to suit the specific control. No fitting required
- 500mm sump depth for catchment of solids and fines
- Various chamber depths
- Offer significant onsite savings against PCC and other traditional construction methods, as they need no construction or wet trades.
- Approved for use by most Water Companies
- Proven performance
- Granular Backfill
- Capable of dealing with flow rates from 1 to 500 litres per second
- Diameters - 750mm & 1050mm
- Optimum hydraulic efficiency – the mechanism employed within the vortex flow control provides superior hydraulic performance in traditional flow control systems.
- Self activating - No power supply required
- Emergency Bypass door fitted as standard to allow drain down and rodding access
- Option of fitted ladders on VFCC1050 models
- Chemically Resistant
- Manufactured in the UK

Maintenance:
The Vortex Flow Control units themselves require no routine maintenance and the inspection chambers requires inspection & maintenance in line with current practice.

What information do we need to Design your Vortiflo?
1) The design Flow - Maximum Discharge
2) The design Head - Invert to Top Water Level

From this information we will size and design the Vortiflo to meet the design criteria and to suit the proposed infrastructure.