

Hydrological Analysis Service

Hydro-Brake® Flow Control Product Profile:

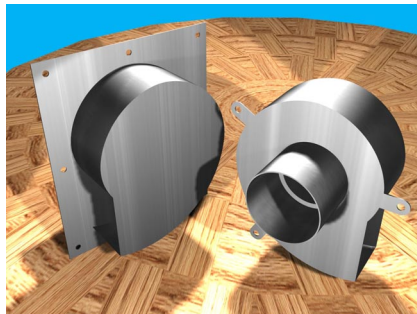
- No moving parts.
- Self-activating & self-cleansing.
- Outlet 3-6 times larger than conventional controls
- Can reduce storage requirements by up to 30% compared to an orifice plate.

It is a fact that the development of land causes both an increase in volume and rate of runoff of stormwater. There is an alternative to flooding which does not involve the costly construction of additional relief sewers.

The *Hydro-Brake® Flow Control* concept of stormwater management stems from the idea of utilising Surface Water Attenuation Storage Systems as a way of reducing the need for additional sewer capacity downstream of the development.

In the Hydro-Brake® Flow Control approach, oversized pipes, tanks (using systems such as Stormcell® as supplied by Hydro), manholes, gullies and surface features can be used as detention storage. We provide comprehensive and cost-effective evaluations for storage requirements for anything from small urban developments to large rural catchments.

We can undertake hydrological analysis giving you the peak discharge figures as well as simulations of storage volumes required when using Hydro-Brake® Flow Controls.



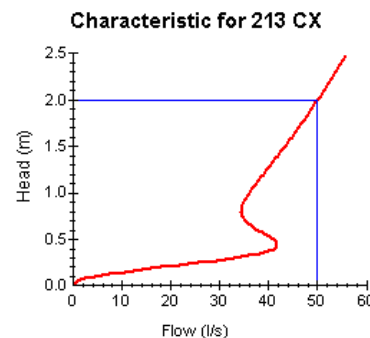
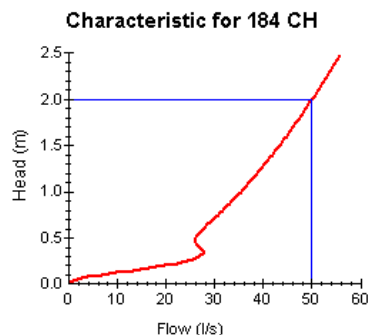
**Hydro-Brake® Flow Control
Hotline No: 01275 337937**

**Hydrological Analysis
No: 01275 337920**

New Range of Hydro-Brake® Flow Controls - Now Even More Efficient!

Continuous testing and development, using sophisticated software design and on-site testing, has recently led to an improved Hydro-Brake® Flow Control range. The graphs below indicate where the latest model Type CX is compared to its equivalent Type CH. For the same head:flow criteria of 2 m:50 l/s the comparative outlet size is increased from 184 mm diameter to 213 mm diameter. As can be seen from the head/discharge graphs, flows in excess of 40 l/s can also be passed forward prior to vortex initiation, further reducing storage requirements, as well as having the additional benefit of a larger opening, less likely to block.

As well as the Type CX, Hydro have also developed the SX range of units which offer similar performance curves to the CX range.



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Certificate No. 961366