



Hydro-Brake® Drop

The Hydro-Brake® Drop is a self-activating energy dissipation system with no moving parts, designed to safely drop water or sewage from virtually any height in order to protect the infrastructure from noise, vibration, and damage.



Erosion Control

The Hydro-Brake® Drop is specifically designed to minimize erosion and damage of your expensive structures. Using the latest computational fluid dynamics backed up with good old fashioned physical testing, the destructive forces associated with cavitation and water hammer have been eliminated.

Cost Savings

The Hydro-Brake® Drop can often be easily retrofitted into an existing chamber and its integrated access and small pipe sizes reduce excavation cost, shaft diameters and the need for a separate access shaft. The system also benefits from a compact and simple to construct inlet chamber with no complicated curves or benching required.

Small Pipe Sizes

Traditional vortex drop shaft designs require an air core to operate safely and prevent damages associated with water hammer. The Hydro-Brake® Drop uses a unique Air Switch to enable a safe transition into the full pipe mode where it can operate at maximum capacity without the need for an air core. This allows it to accomodate as much as three times the flow of a traditional solution in the same pipe size.







Prefabricated stainless steel construction.



Adaptable design solution.

Construction

The Hydro Vortex Drop™
Shaft is constructed from
durable and corrosion resistant
stainless steel. Furthermore
the inlet bend, reducer and
Energy Dissipation Unit are
treated with an Irathane
coating to protect them from
wear and ensure an extremely
long component life.

Installation

The Hydro Vortex Drop™ Shaft is easy to install as it does not require complicated concrete work or approach channels. All components are prefabricated and use bolted connections, minimizing the installation time and cost.

Easy Access

The fully enclosed nature of the Hydro Vortex Drop™ Shaft allows access to the base of the drop structure in the same chamber as the flow. This aids any maintenance commitment and simplifies visual inspection.

Flexible Design

The Hydro-Brake® Drop is ultimately configurable and can be designed to suit either the smallest flow or the longest drop. Two or more shafts can be fitted into the same chamber, and the optional consolidated inlet means that the entire system can fit inside a single chamber.





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