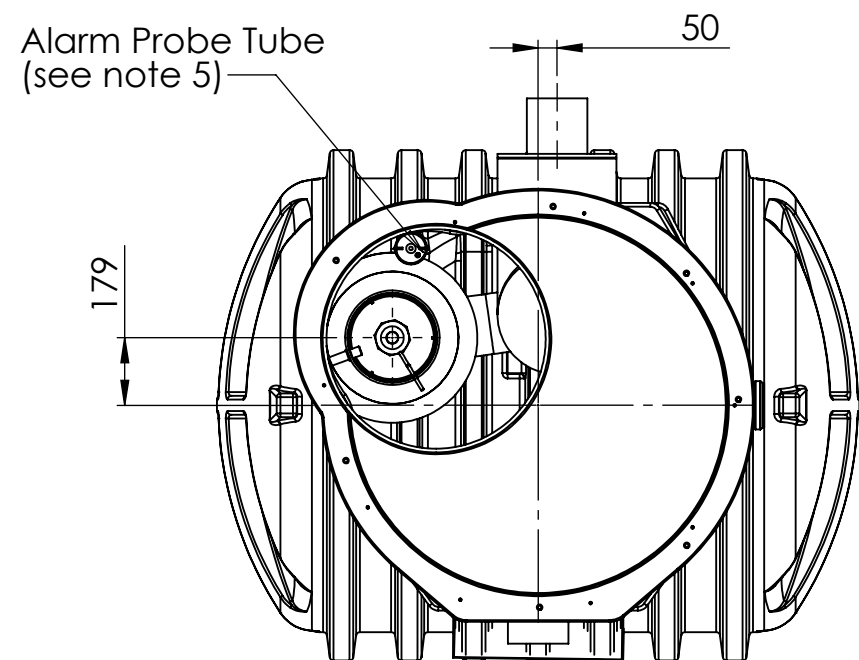
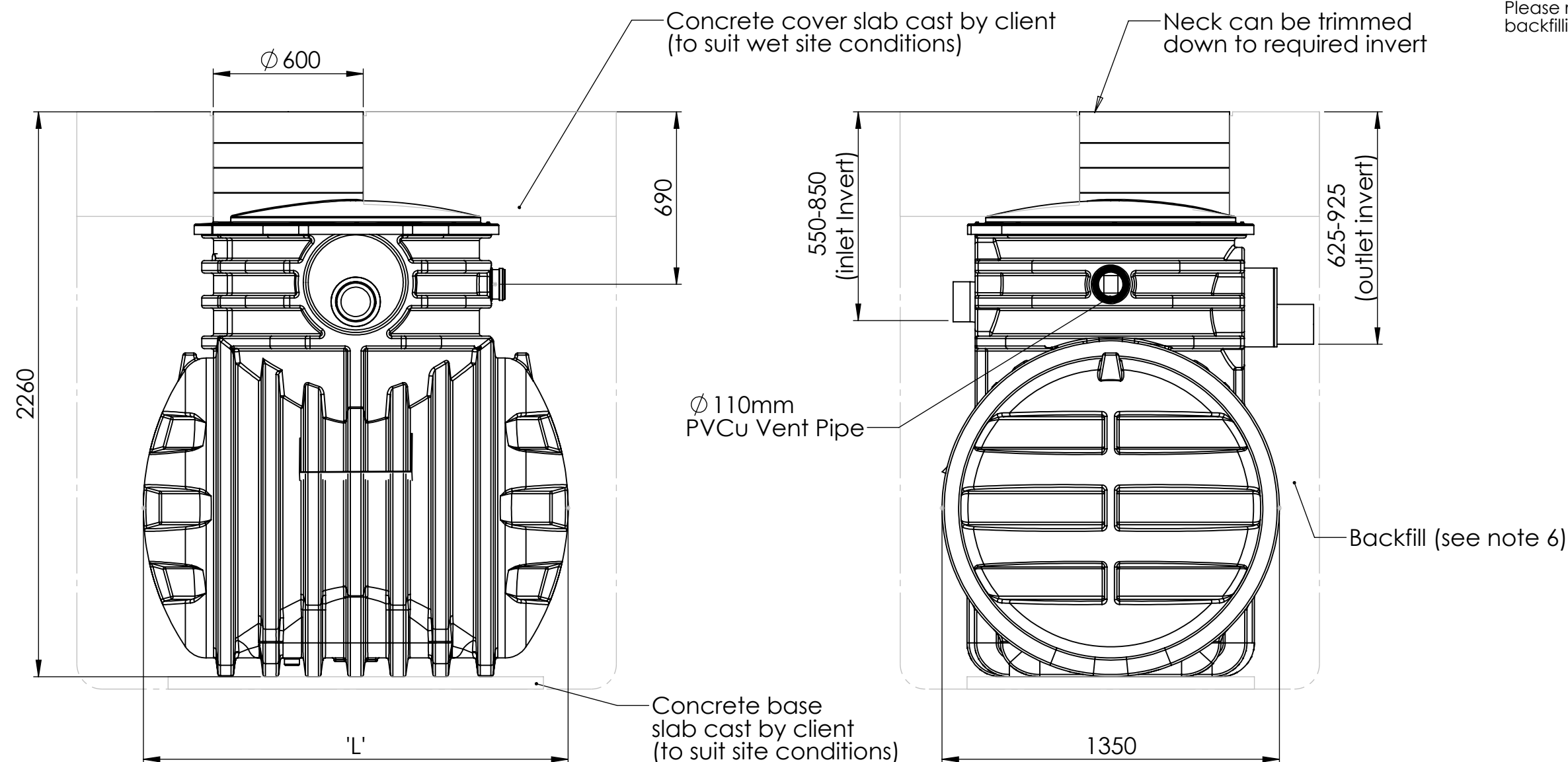




Unit Ref No	Nominal Flow	Dim L (mm)	Approx Empty Weight (kgs)	Fall across unit
NSFP003	3 L/s	1700	180	75
NSFP006	6 L/s	1700	180	75

Notes:

1. Inlet/Outlet pipes are plain pipe $\varnothing 160$ mm PVCu. The standard EN 858 states minimum connection sizes, units ordered with different sized connections are not fully compliant with the standard.
2. Extension necks for deeper inverts can be provided. These can be cut in 200 mm sections. Max 2.0m Invert recommended. Please ask our sales department for further details.
3. All units require appropriate cover and frame to suit applied loadings.
4. This drawing should be used for dimensional information only. It is essential that this drawing is read in conjunction with the installation guidelines supplied with the unit. (Copies are available from our sales dept.).
5. A $\varnothing 76$ mm tube (internal) is supplied to house an oil alarm probe.
6. Wet site conditions - Concrete Backfill
Dry site conditions - Pea Shingle Backfill
Please refer to installation manual for details of correct backfilling.



Please check with Kingspan Water & Energy that this drawing is the latest issue

Issue	Date	Drawn by	Approved by	Description
05	25.05.21	D.Owen		ECN1574 - AquaOil Introduction
04	15.12.10	S.Gill		CC934

LN Number :

Finish :

Weight : 180 kg

Modelled By :

Tolerance (unless stated) :

Thickness :

Surface Area : m²

Material :

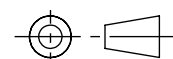
Drawing : DS0992

Page 1 of 1

NSFP003 - NSFP006 Full Retention Separators

All Dimensions In mm

Scale: Do Not Scale



Third Angle Projection

A:\Wastewater\Engineering\Drawing Data\02 - Sales Drawings\DS\DS - 09\DS0992

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Technical Specification

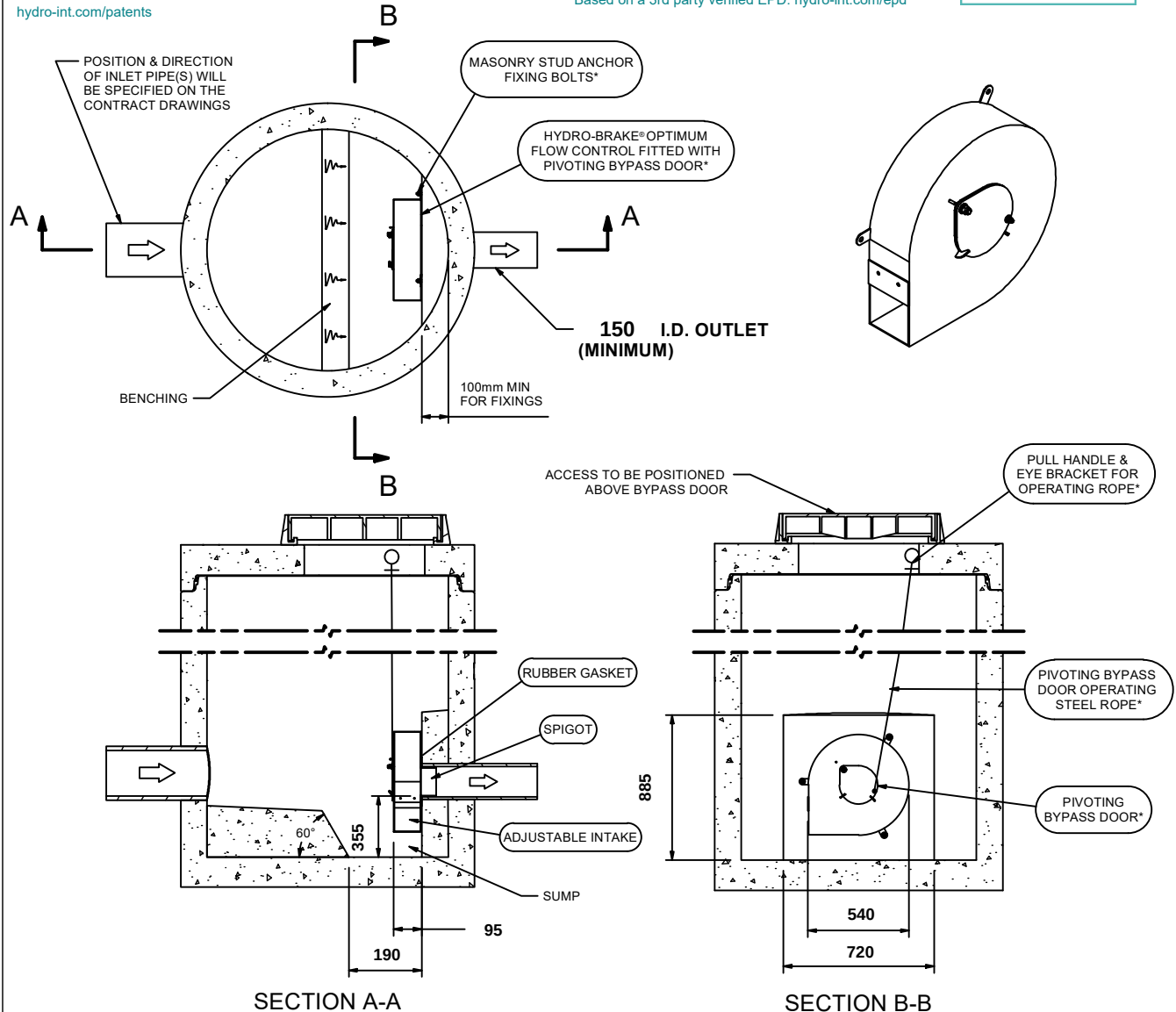
Control Point	Head (m)	Flow (l/s)
Primary Design	2.300	5.000
Flush-Flo™	0.385	3.837
Kick-Flo®	0.792	3.060
Mean Flow		3.845

hydro-int.com/patents

This Hydro-Brake® Optimum includes:

- All in 3 mm Grade 304L stainless steel
- Integral pivoting by-pass door allowing clear line of sight through to outlet, c/w operating rope
- Media blasted for corrosion resistance
- Variable flow rate post installation via adjustable inlet (if necessary)
- Indicative Weight: 15 kg
- Product Carbon Footprint: 66.65 kgCO2e

Based on a 3rd party verified EPD: hydro-int.com/epd



IMPORTANT: ○ LIMIT OF HYDRO INTERNATIONAL SUPPLY
 THE DEVICE WILL BE HANDED TO SUIT SITE CONDITIONS
 FOR SITE SPECIFIC DETAILS AND MINIMUM CHAMBER SIZE REFER TO HYDRO INTERNATIONAL
 ALL CIVIL AND INSTALLATION WORK BY OTHERS
 * WHERE SUPPLIED
 HYDRO-BRAKE® IS A REGISTERED TRADEMARK FOR FLOW CONTROLS DESIGNED AND MANUFACTURED EXCLUSIVELY BY
 HYDRO INTERNATIONAL

THIS DESIGN LAYOUT IS FOR ILLUSTRATIVE PURPOSES ONLY. NOT TO SCALE.

DESIGN ADVICE



The head/flow characteristics of this SHE-0089-5000-2300-5000 Hydro-Brake® Optimum Flow Control are unique. Dynamic hydraulic modelling evaluates the full head/flow characteristic curve.
The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

**Hydro
International**

A CRH COMPANY

DATE 27/03/2026 11:10

SITE

DESIGNER Alex Tonge

REF

SHE-0089-5000-2300-5000

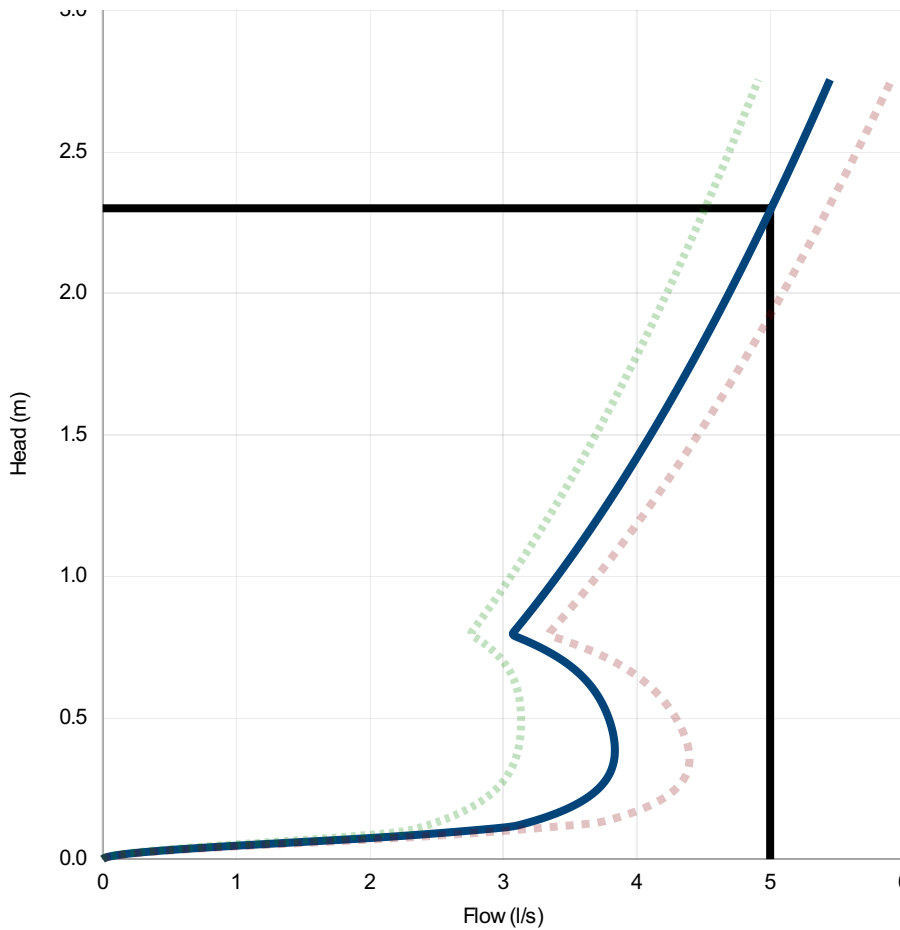
Hydro-Brake® Optimum

Technical Specification

	Original Setting		Minimum Setting		Maximum Setting	
Control Point	Head (m)	Flow (l/s)	Head (m)	Flow (l/s)	Head (m)	Flow (l/s)
Primary Design	2.300	5.000	2.300	4.512	2.300	5.434
Flush-Flo™	0.385	3.837	0.488	3.135	0.354	4.396
Kick-Flo®	0.792	3.060	0.794	2.750	0.791	3.330
Mean Flow		3.845		3.376		4.229



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Head (m)	Flow (l/s)
0.000	0.000
0.079	2.161
0.159	3.380
0.238	3.688
0.317	3.812
0.397	3.836
0.476	3.806
0.555	3.736
0.634	3.615
0.714	3.407
0.793	3.073
0.872	3.199
0.952	3.329
1.031	3.453
1.110	3.573
1.190	3.689
1.269	3.800
1.348	3.908
1.428	4.012
1.507	4.114
1.586	4.213
1.666	4.310
1.745	4.404
1.824	4.495
1.903	4.585
1.983	4.673
2.062	4.759
2.141	4.844
2.221	4.927
2.300	5.008

DESIGN ADVICE



The head/flow characteristics of this SHE-0089-5000-2300-5000 Hydro-Brake® Optimum Flow Control are unique. Dynamic hydraulic modelling evaluates the full head/flow characteristic curve.

The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

Hydro
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DATE 27/03/2026 11:10

Site

DESIGNER Alex Tonge

Ref

SHE-0089-5000-2300-5000

Hydro-Brake® Optimum