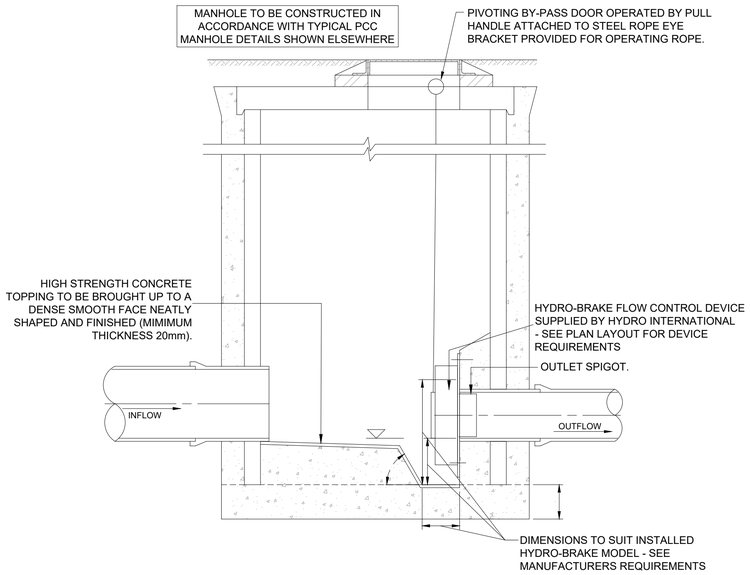
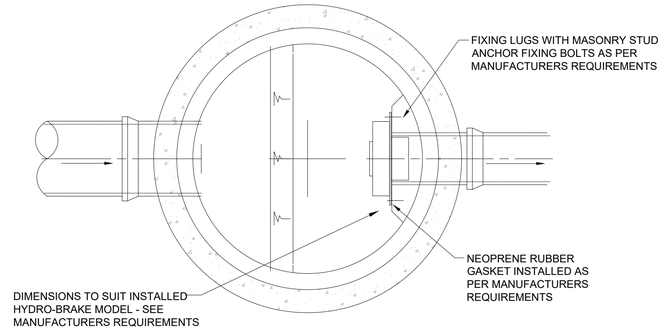




TYPICAL HYDROBRAKE MANHOLE DETAIL

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
4. FLOW CONTROL TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS, INSTRUCTIONS AND RECOMMENDATIONS.
5. WHERE ALTERNATIVE FLOW CONTROL DEVICE IS PREFERRED, IT WILL BE SUBJECT TO REDESIGN TO CONFIRM WHETHER THE SYSTEM HAS CAPACITY.

Technical Specification

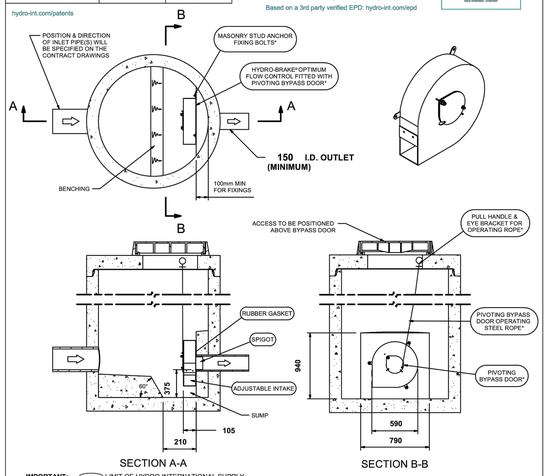
Control Point	Head (m)	Flow (l/s)
Primary Design	1.400	5.000
Flush-Flo™	0.416	4.991
Kick-Flo®	0.855	3.980
Mean Flow		4.382

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: 20 kg
- Product Carbon Footprint: 80.61 kgCO2e

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

hydro-int.com/patents



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-0100-5000-1400-5000 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	26/01/2026 22:27
SITE	NMGH TCP
DESIGNER	Jacob Collin
REF	S1

SHE-0100-5000-1400-5000
Hydro-Brake® Optimum

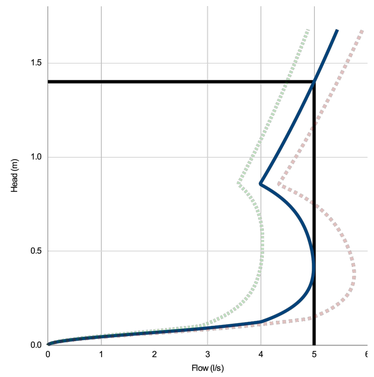
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jacob.collin@curtins.com

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	1.400	5.000	1.400	4.491	1.400	5.438
Flush-Flo™	0.416	4.991	0.544	4.032	0.378	5.752
Kick-Flo®	0.855	3.980	0.855	3.570	0.853	4.330
Mean Flow		4.382		3.723		4.898

hydro-int.com/patents



Head (m)	Flow (l/s)
0.000	0.000
0.048	1.130
0.097	3.168
0.145	4.196
0.193	4.532
0.241	4.747
0.290	4.880
0.338	4.954
0.386	4.986
0.434	4.989
0.483	4.971
0.531	4.936
0.579	4.885
0.628	4.817
0.676	4.723
0.724	4.597
0.772	4.424
0.821	4.194
0.869	4.010
0.917	4.111
0.966	4.209
1.014	4.305
1.062	4.399
1.110	4.490
1.159	4.579
1.207	4.667
1.255	4.752
1.303	4.836
1.352	4.918
1.400	4.999

DESIGN ADVICE ! The head/flow characteristics of this SHE-0100-5000-1400-5000 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.**

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SHE-0100-5000-1400-5000
Hydro-Brake® Optimum

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Rev:	Description:	Date:	By:	Chkd:
P02	REFERENCE UPDATED	28/01/26	HS	HS
P01	FIRST ISSUE	27/01/26	JC	CG

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Birmingham • Bristol • Cambridge • Cardiff • Douglas • Dublin • Edinburgh • Glasgow • Kendal • Leeds • Liverpool • London • Manchester • Nottingham

Status: SUITABLE FOR INFORMATION — S2

Project: NMGH - WP14 CARPARK

Drg Title: DRAINAGE DETAILS SHEET 2 OF 2

Drawn By	Designed By	Checked By
JC	JC	CG
	Date: 27/01/26	Scales @ A1: NTS

Project No - Originator - Function - Spatial - Form - Discipline - Number: 075805 - CUR - WP14 - XX - D - C - 92502

Revision: P02

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