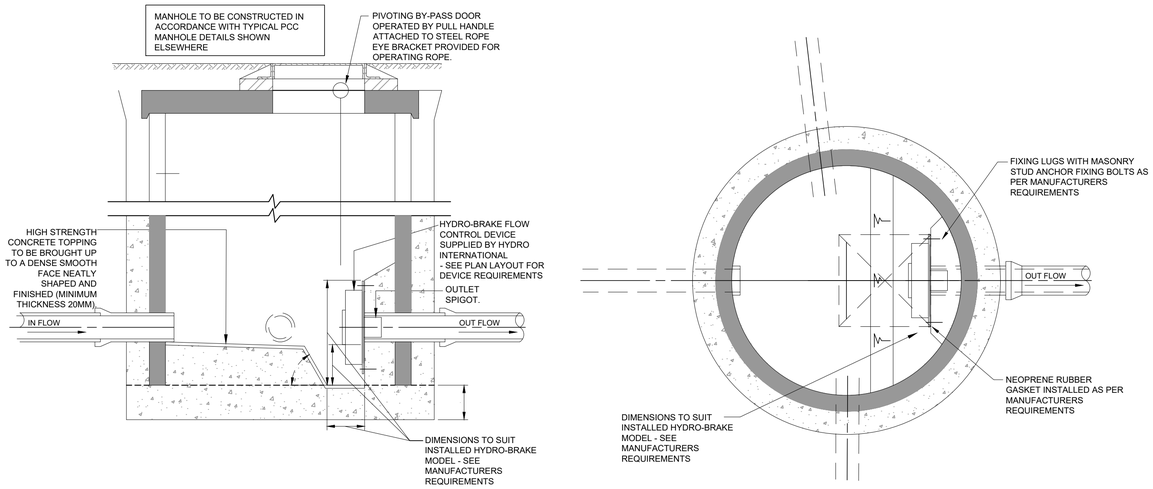
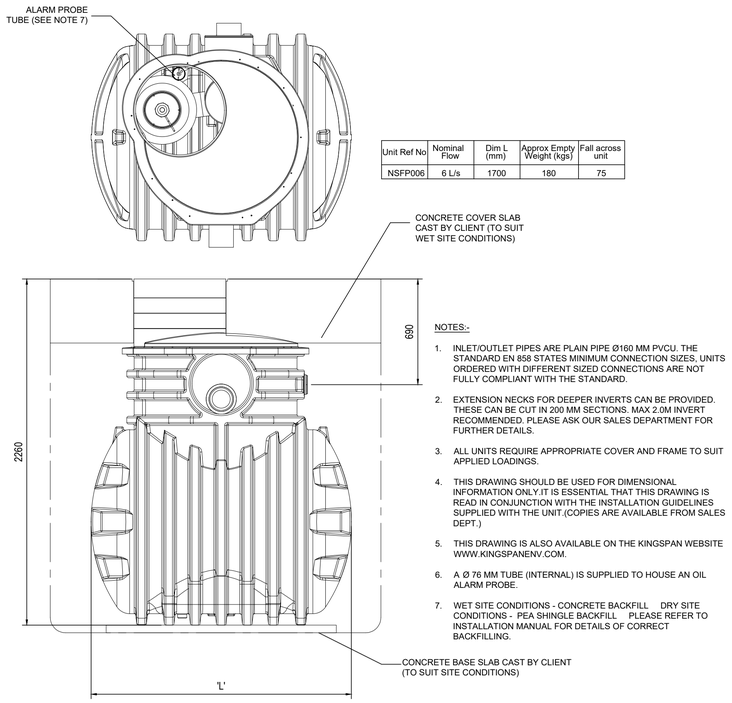


TYPICAL FLOW CONTROL MANHOLE
(HYDRO-BRAKE)

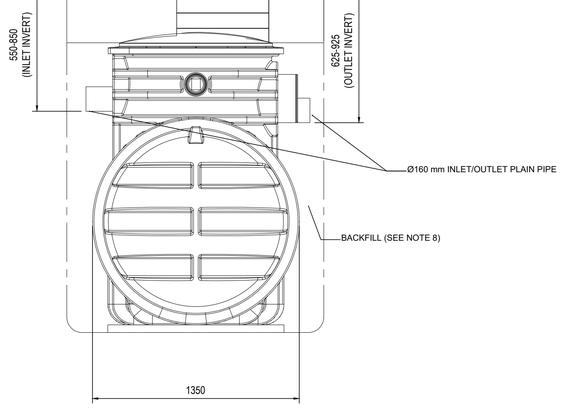


Unit Ref No	Nominal Flow	Dim L (mm)	Approx Empty Weight (kgs)	Fall across unit
NSFP006	6 L/s	1700	180	75

NOTES:-

1. INLET/OUTLET PIPES ARE PLAIN PIPE Ø160 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 SALES DEPT.)
5. THIS DRAWING IS ALSO AVAILABLE ON THE KINGSPAN WEBSITE WWW.KINGSPANENV.COM.
6. A Ø 76 MM TUBE (INTERNAL) IS SUPPLIED TO HOUSE AN OIL ALARM PROBE.
7. WET SITE CONDITIONS - CONCRETE BACKFILL DRY SITE CONDITIONS - PEA SHINGLE BACKFILL PLEASE REFER TO INSTALLATION MANUAL FOR DETAILS OF CORRECT BACKFILLING.

DETAIL REPRODUCED FROM KINGSPAN DRAWING DSO992



KLARGESTER NSFP 003-006 PETROL
INTERCEPTOR BY KINGSPAN

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. REFER TO DRAINAGE LAYOUT 20200-CUR-MSCP-EX-DR-D-7511 FOR THE LOCATION OF THE ATTENUATION TANK.
5. FLOW CONTROL TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS, INSTRUCTIONS AND RECOMMENDATIONS.
6. 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	2.700	5.000
Flush-Flo™	0.369	3.486
Kick-Flo®	0.760	2.780
Mean Flow		3.726

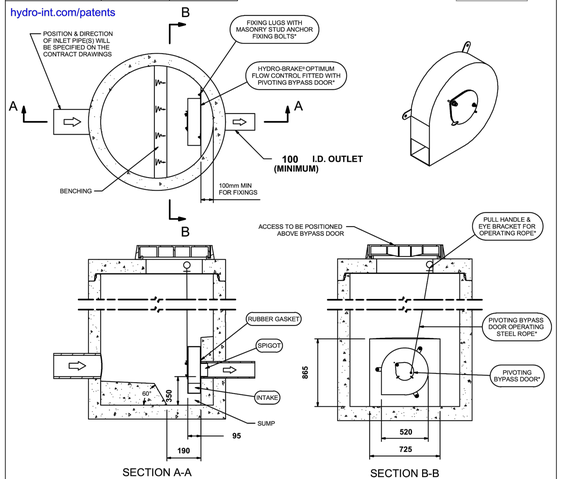
hydro-int.com/patents

Hydro-Brake® Optimum Flow Control including:

- 3 mm grade 304L stainless steel
- Integral stainless steel pivoting by-pass door allowing clear line of sight through to outlet, c/w stainless steel operating rope
- Bead blasted finish to maximise corrosion resistance
- Stainless steel fixings
- Rubber gasket to seal outlet

BBA APPROVAL INSPECTION TESTING CERTIFICATION CERTIFICATE No: 08/4598

WRc Approved PT/329/0412



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® FLOW CONTROL & HYDRO-BRAKE® OPTIMUM FLOW CONTROL ARE REGISTERED TRADEMARKS 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-0085-5000-2700-5000 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.**
DATE	8/10/2021 11:32 AM
SITE	MSCP
DESIGNER	Tiago Henriques
REF	075805

Hydro International®

SHE-0085-5000-2700-5000
Hydro-Brake® Optimum

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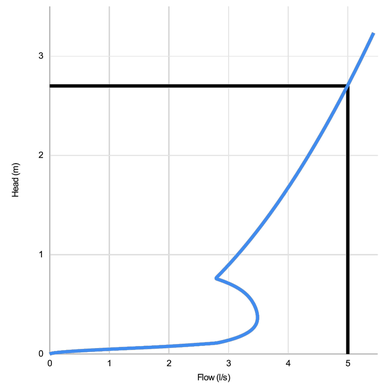
tiago.henriques@curtins.com

Technical Specification		
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Primary Design	2.700	5.000
Flush-Flo	0.369	3.486
Kick-Flo®	0.760	2.780
Mean Flow		3.726

hydro-int.com/patents

BBA APPROVAL INSPECTION TESTING CERTIFICATION CERTIFICATE No: 08/4598

WRc APPROVED PT/329/0412



Head (m)	Flow (l/s)
0.000	0.000
0.093	2.400
0.186	3.226
0.279	3.440
0.372	3.486
0.466	3.451
0.559	3.362
0.652	3.190
0.745	2.860
0.838	2.907
0.931	3.050
1.024	3.187
1.117	3.317
1.210	3.441
1.303	3.560
1.397	3.676
1.490	3.787
1.583	3.894
1.676	3.999
1.769	4.100
1.862	4.199
1.955	4.295
2.048	4.389
2.141	4.481
2.234	4.571
2.328	4.658
2.421	4.744
2.514	4.829
2.607	4.911
2.700	4.993

DESIGN ADVICE !	The head/flow characteristics of this SHE-0085-5000-2700-5000 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.**
DATE	10/08/2021 11:32
Site	MSCP
DESIGNER	Tiago Henriques
Ref	075805

Hydro International®

SHE-0085-5000-2700-5000
Hydro-Brake Optimum®

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REV.	DESCRIPTION	DATE	DRW.	CHK.
P05	UPDATED IN LINE WITH MCC COMMENTS	16.02.22	ATL	MW
P04	STAGE 4 UPDATE	31.01.22	TH	ATL
P03	STAGE 4 ISSUE	17.12.21	ATL	CG
P02	UPDATED HYDROBRAKE TYPE	10.08.21	TH	MW
P01	DRAFT STAGE 4 ISSUE	21.07.21	MW	MW

NHS Manchester University NHS Foundation Trust

curtins
Merchant Exchange, 17-19 Whitworth Street West, Manchester M1 5WG
0161 236 2394
manchester@curtins.com
www.curtins.com

PROJECT: NMGH MSCP

TITLE: Drainage Details sheet 4

STATUS	PURPOSE OF ISSUE
S3	REVIEW & COMMENT

DRAWN BY	CHECKED BY	DATE
MW	DS	28/06/2021

SCALE (@A1)	PROJECT NUMBER
1:20	075805

FILE DRAWING NUMBER	REV.
20200-CUR-MSCP-ZZ-DR-C-9254	P05