


HYDRODYNAMIC SEPARATOR-S16  
HYDRO INTERNATIONAL  
DOWNSTREAM DEFENDER DD10-620-C-225

DOWNSTREAM DEFENDER® SELECT DESIGN SUMMARY



**PROJECT INFORMATION**

Reference: 23-026  
Site: Harras Road  
Designer: Julie Middleton  
Date: 19/03/2024 16:45

**DESIGN INPUTS**

Sizing Method: Performance  
Treatment Flow Rate (l/s): 11.8

**DESIGN OUTPUTS**

Product: HYDRO INTERNATIONAL DOWNSTREAM DEFENDER® SELECT  
Separator Type: Advanced Vortex  
Unit Reference: DDC10-620-C-225

**PRODUCT CONFIGURATION**

Material: Concrete  
Sediment Protection: Yes  
Oil Retention: No  
Floatables storage / Oil treatment: Yes  
Hydro-Logic® Flow Monitoring: No  
Hydro-Logic® Sediment Level Monitoring: No

**UNIT WEIGHTS AND DIMENSIONS**

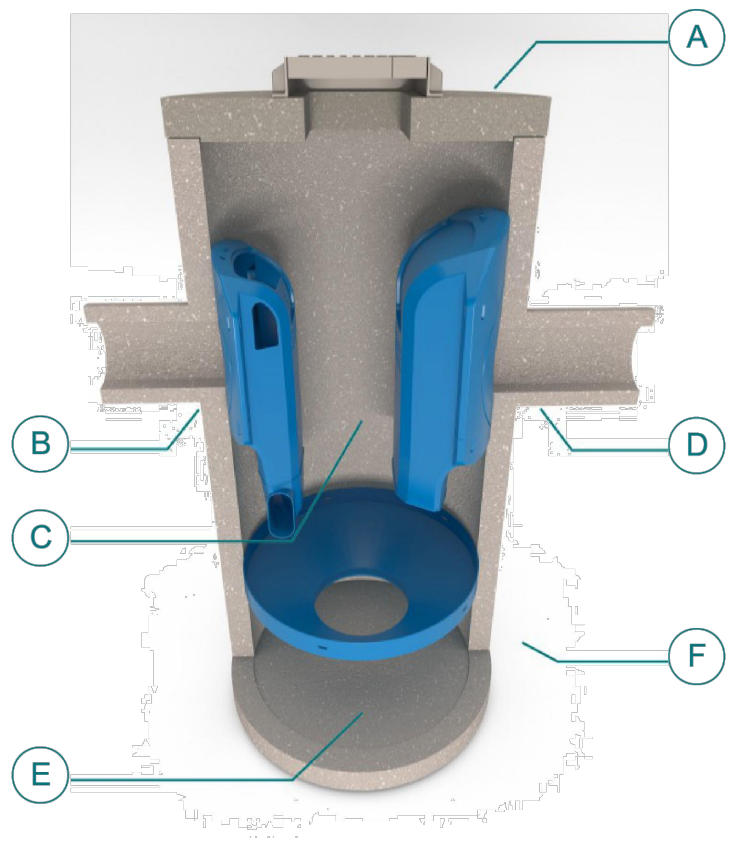
(A) Unit Size (m)	1.00
(B) Inlet Pipe Size (mm)	225
(D) Outlet Pipe Size (mm)	225
(F) Height of Chamber (m)	2.39

**PERFORMANCE AND HYDRAULICS**

Treatment Flow Rate (l/s)	21
Hydraulic Capacity Flow Rate (l/s)	46
Typical Operating Headloss (mm)	160
Maximum Headloss (mm)	500

**STORAGE**

(C) Min. Oil Storage Capacity (l)	256
(E) Min. Sediment Storage Capacity (m³)	0.31



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NOTES:

**GENERAL**

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH BECKWITH AND HANLON 23-026-200 SERIES DRAWINGS.

P1	FIRST ISSUE	JM	NB	05/04/24
REV	AMENDMENT	BY	CKD	DATE
CLIENT				
JOHN SWIFT HOMES LTD.				
PROJECT				
HARRAS ROAD, WHITEHAVEN				
DRAWING TITLE				
DONWSTREAM DEFENDER				
<div><div><div>BECKWITH &amp; HANLON</div></div><div><div>Beckwith &amp; Hanlon Consulting Engineers Limited</div><div>F22 Willow Court, Marquis Court, Team Valley Trading Estate, Gateshead, NE11 0RU tel: 0191 273 7582</div></div></div>				
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DRAWING NO.				
23-026-238				
STATUS				REV
PRELIMINARY				P1
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