

Q-Brake Design and Performance Report

Project Details

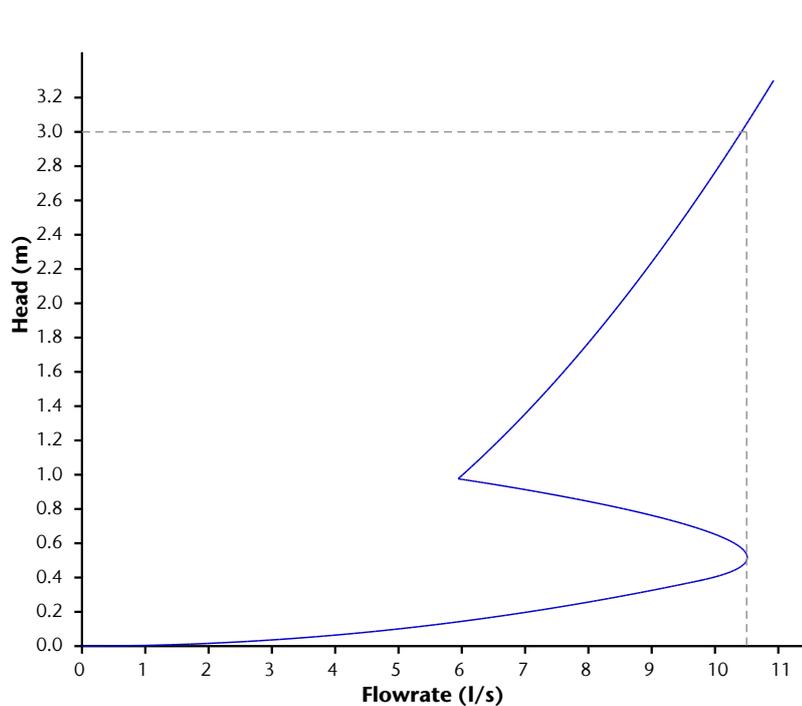
Project : Clayton Fields
 Chamber Number : 17
 Chamber Name : S17

Reference

Design Reference : 00005832
 Created by : Sonam Mirza
 Date Produced : 15-01-2025

Design

Description	Size [m]	Description	Rate [l/s]	Description	Model
Design Head	3.000	Design Flow Rate	10.500	Design Style	Flat Back



Head [m] Flow [l/s]

0.000	0.000
0.039	3.120
0.078	4.413
0.117	5.405
0.156	6.241
0.195	6.977
0.235	7.643
0.274	8.256
0.313	8.826
0.352	9.361
0.390	9.854
0.464	10.409
0.542	10.490
0.622	10.196
0.700	9.626
0.774	8.878
0.840	8.053
0.897	7.247
0.940	6.562
0.968	6.094
0.999	6.013
1.234	6.682
1.469	7.289
1.704	7.850
1.938	8.373
2.173	8.866
2.408	9.333
2.643	9.777
2.877	10.202
3.112	10.610
3.300	10.925

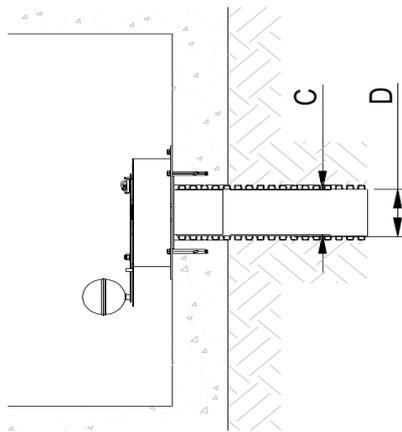
Specification

Description	Height [m]	Rate [l/s]	Description	Size [mm]
Flush Flow	0.429	10.22	Minimum Outlet Pipe Diameter	150
Reattachment	0.976	5.94	Minimum Sump Depth	430
			Minimum Chamber Diameter	1050

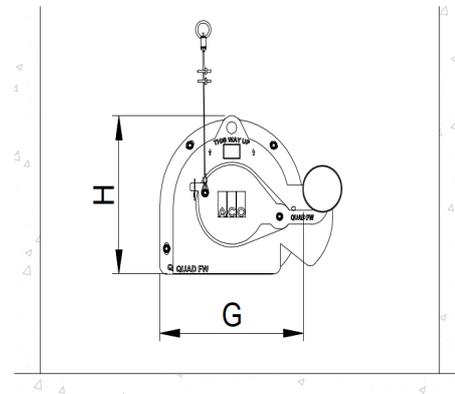
Disclaimer: This design only applies to ACO Q-Brake and ACO Q-Plate products and no other parties' products. It is the responsibility of the designer ('user') to verify that the design parameters have been entered correctly and that relevant industry standards and guidelines have been taken into consideration. ACO Q-Brake and Q-Plate are intended to be used with surface water only.

ACO Q-Brake Dimensions

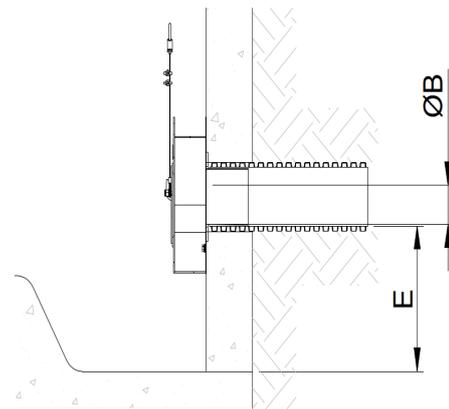
Model: QB600



Plan View



Front View



Side View

Flow Control Dimensions

Key	Description	Size [mm]
B	Orifice diameter	120
C	Outlet Spigot OD	145
G	Overall width	666
H	Overall height	631

Chamber/Pipework Dimensions

Key	Description	Min [mm]	Design [mm]
D	Outlet pipe DN	150	150
E	Sump depth	430	
F	Chamber diameter	1050	2400

* Design dimensions shown are as selected by the designer.

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