

Q-Brake Design and Performance Report

Project Details

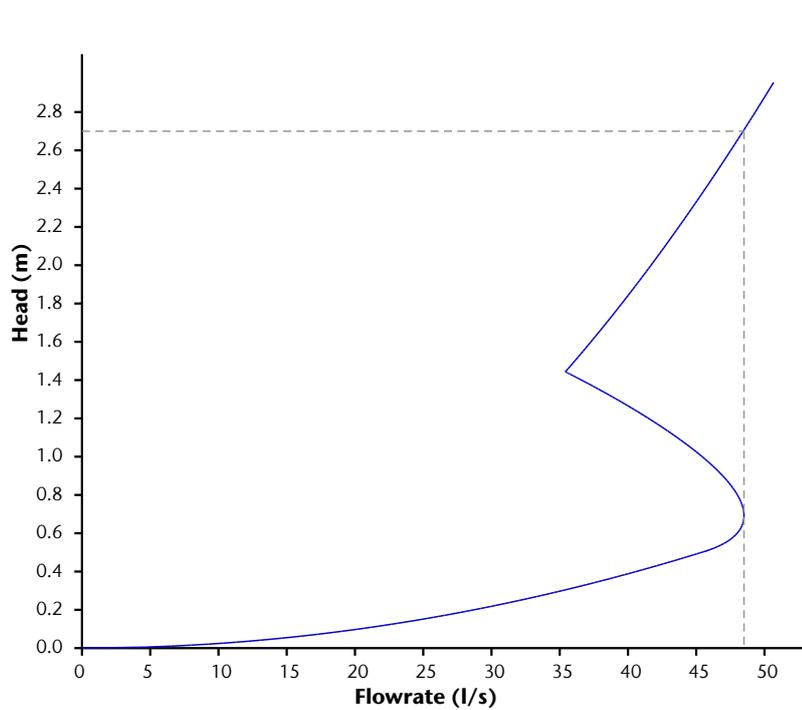
Project : Clayton Fields
 Chamber Number : 15
 Chamber Name : S15

Reference

Design Reference : 00005831
 Created by : Sonam Mirza
 Date Produced : 15-01-2025

Design

Description	Size [m]	Description	Rate [l/s]	Description	Model
Design Head	2.700	Design Flow Rate	48.500	Design Style	Flat Back



Head [m] Flow [l/s]

0.000	0.000
0.052	14.611
0.104	20.663
0.155	25.307
0.207	29.222
0.259	32.672
0.311	35.790
0.363	38.658
0.415	41.327
0.466	43.834
0.515	46.031
0.600	48.003
0.706	48.491
0.825	47.798
0.950	46.230
1.075	44.088
1.192	41.677
1.294	39.301
1.375	37.262
1.427	35.866
1.458	35.598
1.613	37.433
1.767	39.183
1.921	40.857
2.075	42.465
2.230	44.015
2.384	45.512
2.538	46.962
2.692	48.367
2.847	49.734
2.955	50.668

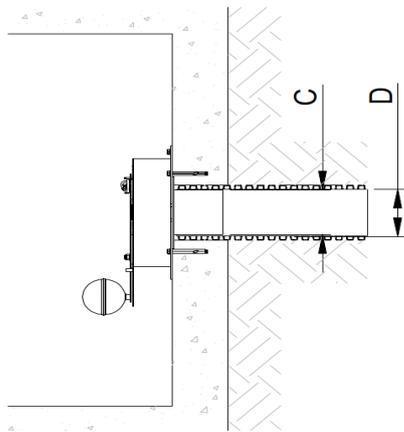
Specification

Description	Height [m]	Rate [l/s]	Description	Size [mm]
Flush Flow	0.570	47.54	Minimum Outlet Pipe Diameter	300
Reattachment	1.443	35.41	Minimum Sump Depth	556
			Minimum Chamber Diameter	1500

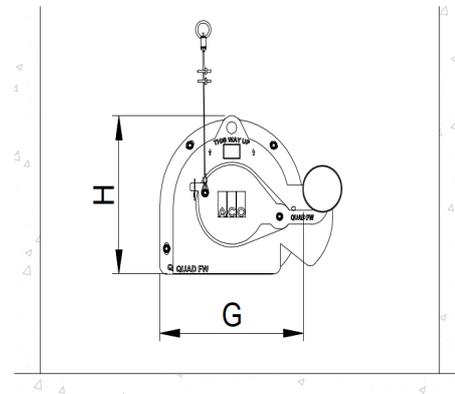
Disclaimer: This design only applies to ACO Q-Brake and ACO Q-Plate products and no other parties' products. It is the responsibility of the designer ('user') to verify that the design parameters have been entered correctly and that relevant industry standards and guidelines have been taken into consideration.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

ACO Q-Brake Dimensions

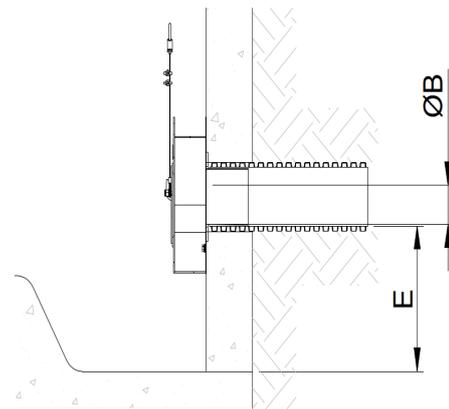
Model: QB1000



Plan View



Front View



Side View

Flow Control Dimensions

Key	Description	Size [mm]
B	Orifice diameter	242
C	Outlet Spigot OD	295
G	Overall width	1,035
H	Overall height	1,004

Chamber/Pipework Dimensions

Key	Description	Min [mm]	Design [mm]
D	Outlet pipe DN	300	300
E	Sump depth	556	
F	Chamber diameter	1500	2400

* Design dimensions shown are as selected by the designer.

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.