

## Q-Plate Design and Performance Report

### Project Details

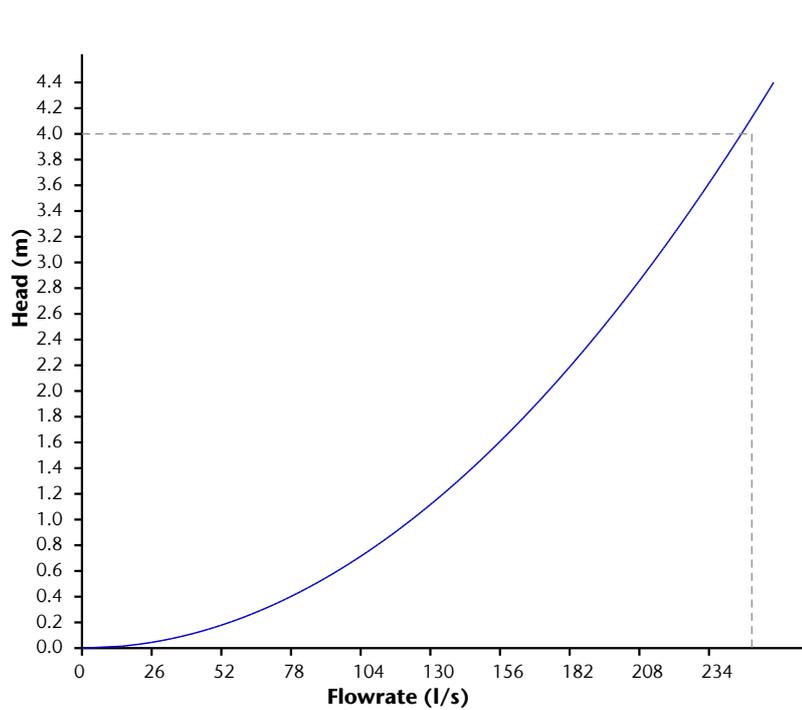
Project : Clayton Fields  
 Chamber Number : 9  
 Chamber Name : S9

### Reference

Design Reference : 00005733  
 Created by : Sonam Mirza  
 Date Produced : 15-01-2025

### Design

| Description | Size [m] | Description      | Rate [l/s] | Description  | Model     |
|-------------|----------|------------------|------------|--------------|-----------|
| Design Head | 4.000    | Design Flow Rate | 250.000    | Design Style | Flat Back |



### Head [m] Flow [l/s]

|       |         |
|-------|---------|
| 0.000 | 0.000   |
| 0.147 | 47.123  |
| 0.293 | 66.643  |
| 0.440 | 81.620  |
| 0.587 | 94.247  |
| 0.733 | 105.371 |
| 0.880 | 115.428 |
| 1.027 | 124.677 |
| 1.173 | 133.285 |
| 1.320 | 141.370 |
| 1.467 | 149.017 |
| 1.613 | 156.291 |
| 1.760 | 163.240 |
| 1.907 | 169.906 |
| 2.053 | 176.319 |
| 2.200 | 182.508 |
| 2.347 | 188.493 |
| 2.493 | 194.295 |
| 2.640 | 199.928 |
| 2.787 | 205.406 |
| 2.933 | 210.742 |
| 3.080 | 215.946 |
| 3.227 | 221.028 |
| 3.373 | 225.996 |
| 3.520 | 230.856 |
| 3.667 | 235.617 |
| 3.813 | 240.283 |
| 3.960 | 244.860 |
| 4.107 | 249.353 |
| 4.253 | 253.767 |
| 4.400 | 258.105 |

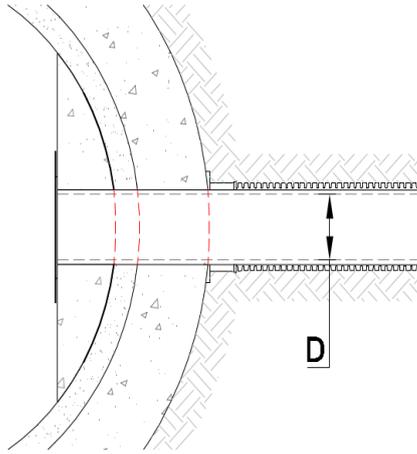
### Specification

| Description                  | Size [mm] |
|------------------------------|-----------|
| Minimum Outlet Pipe Diameter | 300       |
| Minimum Sump Depth           | 300       |
| Minimum Chamber Diameter     | 900       |

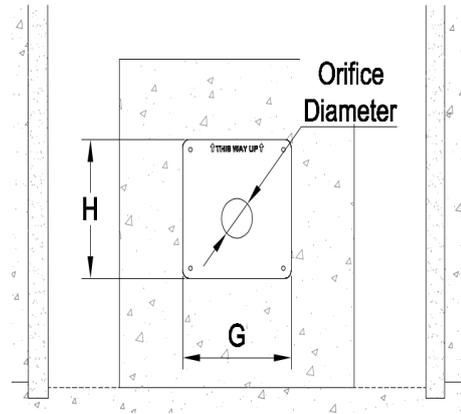
Disclaimer: This design only applies to ACO Q-Brake and ACO Q-Plate products and no other parties' products. It is the responsibility of the designer ('user') to verify that the design parameters have been entered correctly and that relevant industry standards and guidelines have been taken into consideration.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

# ACO Q-Plate Dimensions

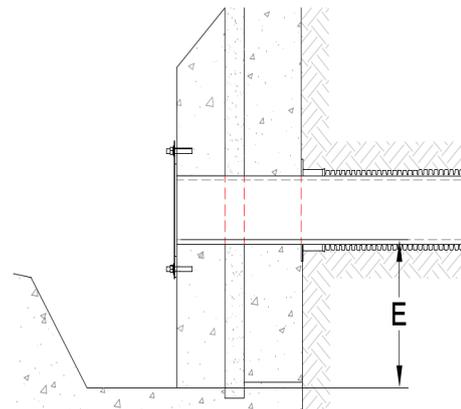
Model: QP300



Plan View



Front View



Side View

## Flow Control Dimensions

| Key | Description      | Size [mm] |
|-----|------------------|-----------|
|     | Orifice diameter | 237       |
| G   | Plate width      | 495       |
| H   | Plate height     | 495       |

## Chamber/Pipework Dimensions

| Key | Description      | Min [mm] | Design [mm] |
|-----|------------------|----------|-------------|
| D   | Outlet pipe DN   | 300      | 300         |
| E   | Sump depth       | 300      |             |
| F   | Chamber diameter | 900      | 2100        |

\* Design dimensions shown are as selected by the designer.

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