

Project No.:

Date: dd-mm-yyyy

QUICK SCAN REPORT	Technology name:	Vortex Regulator CEV
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Verification body		Proposer	
Name:	DS Certificering A/S	Name:	Mosbæk A/S
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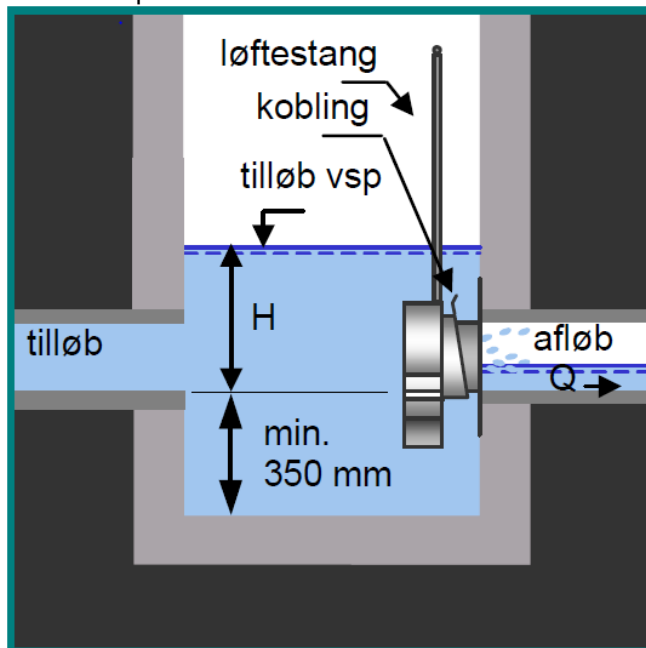
Quick scan		Previous quick scan				
Date:	Sep/Oct 2012	Yes		Date:	No	X

Technology description

Vortex Regulator uses geometry and gravity to drive the water into a vortex and thereby restrict the flow of the water.

The regulators have no moving parts and provide a constant large orifice opening at all water levels.

The CEV operates with flows from 0.2 l/s to 200 l/s



Sketch of technology

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Technology ready to market			Technology in last development phase			
Yes	X	No		Yes		No
Performance claims						
Matrice(s):		Storm Water				
Purpose(s):		Reliable, effective and simple throttling of storm water.				
Vendor claim(s):		<p>X% model: X% of $Q_{design} \pm 5\%$ is met at H_{bump} $Q_{design} \pm 5\%$ is met at H_{design} This is shown graphically for a 100% model in attached figure 1</p>		<p>Flow reduction at H_{design} is 450% for a 100% model and 400% for a 73% model This is show graphically for a 100% model in attached figure 2.</p>		
Definitions						
Matrix:		<i>The type of material that the technology is intended for. Matrices could be soil, drinking water, ground water, degreasing bath, exhaust gas condensate etc.</i>				
Purpose:		<i>The purpose should indicate the way the matrix is impacted by the technology and the quantitative parameters suggested for monitoring and documenting the effect</i>				
Initial performance claims		<i>The specifications included in the initial performance claim shall relate to the technology itself and shall be able to be verified using quantitative test methods. The initial performance claim shall state the conditions under which the specifications are applicable, and mention any relevant assumption made. Examples: Monitoring techniques: Include parameters as limit of detection, range of application, precision (repeatability and reproducibility), trueness and relevant robustness can be verified. If relevant, make reference to conventional methods. Treatment technologies: Include relevant treatment parameters as well as other relevant parameters available for verification. If relevant, make reference to conventional methods. Materials: Include all relevant properties, as well as environmental and health impacts, and lifetime. If relevant, make reference to conventional materials.</i>				
Previous tests performed – NO official third party test performed						
Test body:						
Test reports provided to the verification body:						

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Evaluation by verification body

Technology description clear				Performance claims clear			
Yes	X	No		Yes	X	No	

Existing test data							
Tests performed				Test body qualified			
Yes		No	X	Yes		No	X
Test report available				Test report qualified			
Yes		No	X	Yes		No	X
Test methods available				Test methods adequate			
Yes		No	X	Yes		No	X
Raw data available				QA of raw data adequate			
Yes		No	X	Yes		No	X
Performance claims sustained				Performance claims relevant			
Yes		No	X	Yes		No	X

Conclusions quick scan (incl. estimated cost range for a verification)
<p>The Mosbaek CEV flow regulator is on the market and is well described. The CEV can be designed in different sizes corresponding to different outflow and well heights, for the testing shall be selected a few e.g. 3-4 CEV models representing the common application range.</p> <p>No third party data from previous tests exist; therefore new test will have to be performed.</p> <p>The cost of the verification and test has been specified in the contracts between DS Certificering A/S and DHI DANETV Water Centre.</p>

Date	Name	Signature
	Peter Fritzel	

ETV

Quick scan check list



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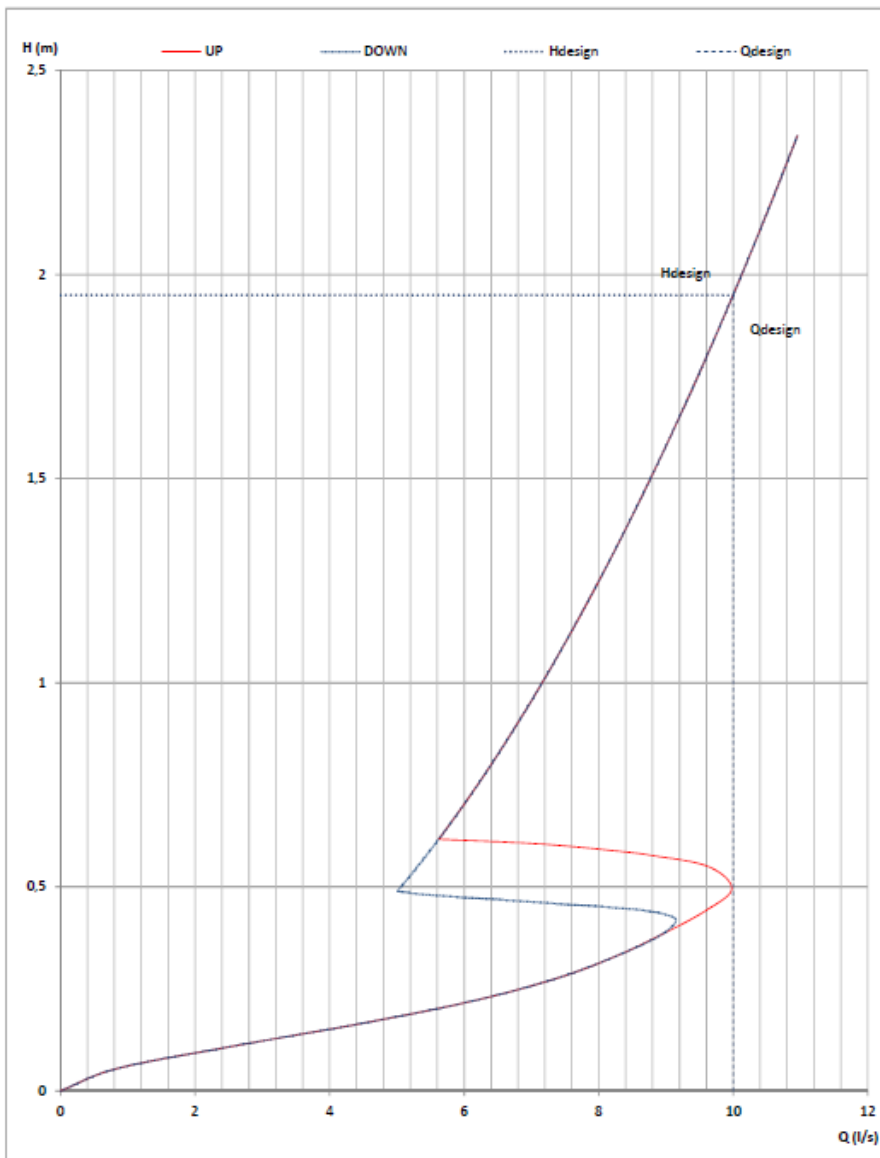
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FIGURE 1



Ref: 109
Client ref: DANETV
Date: 27-08-2012
Design: Q=10l/s
H=1,95m

CEV 10l/s @ 1,95m 100%



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FIGURE 2

