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Why EU ETV made a difference

A presentation by Mosbaek A/S
at the
LIFEproETV Final Conference

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Introduction

- My name : Torben Krejberg
- Technical director at Mosbaek A/S since 2010
- Mosbaek was founded in 1969, by the inventor of the vortex valve Jørgen Mosbæk.
- In November 2011 we learned about the EU ETV pilot programme, in 2012 we started our quest towards the ETV and in 2015 we received the EU ETV Verification statement, at a ceremony in Barcelona.

The technology:

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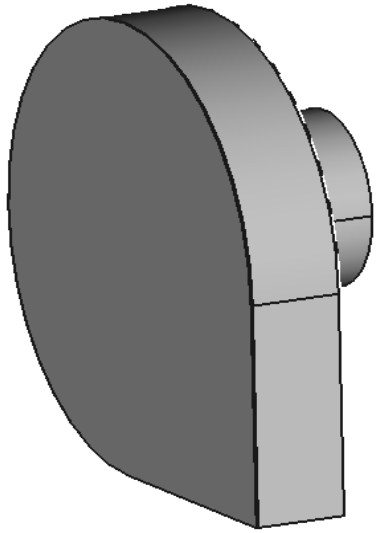
- Mosbaek has worked 50+ years with climate mitigation.
- At a time where sewage overflow (CSO) was the normal, Mosbaek challenged this.
- Mosbaek was the first to offer a solution, the vortex valve, to help prevent overflow of sewage pipes, with all the environmental, health and economic issues that comes with sewage water on the surface of a city, in houses, in water ways, lakes and sea.

The Mosk EV vortex valve



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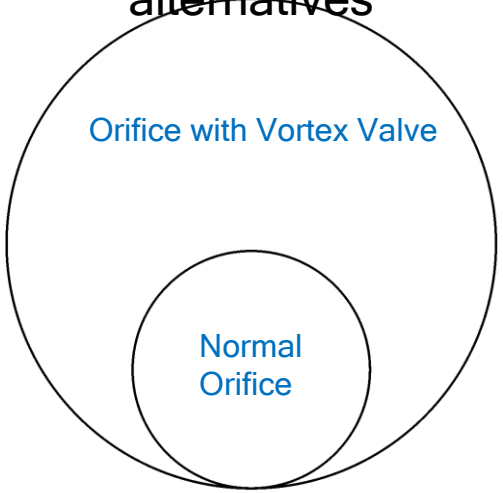
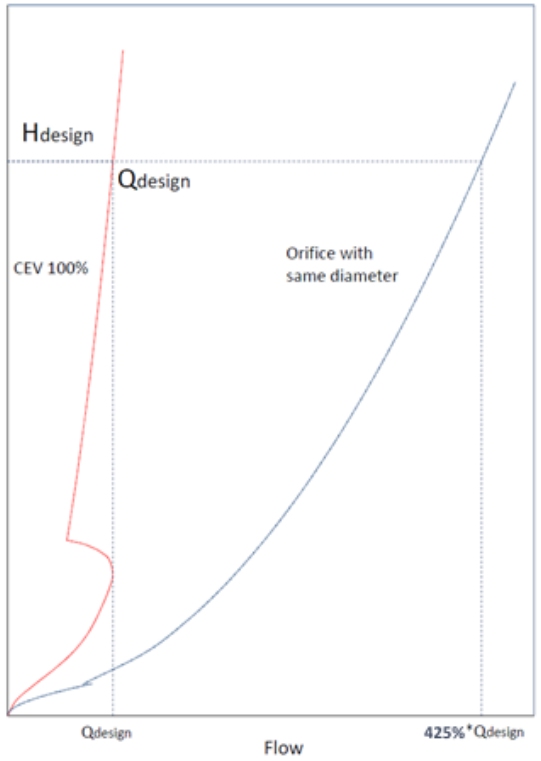
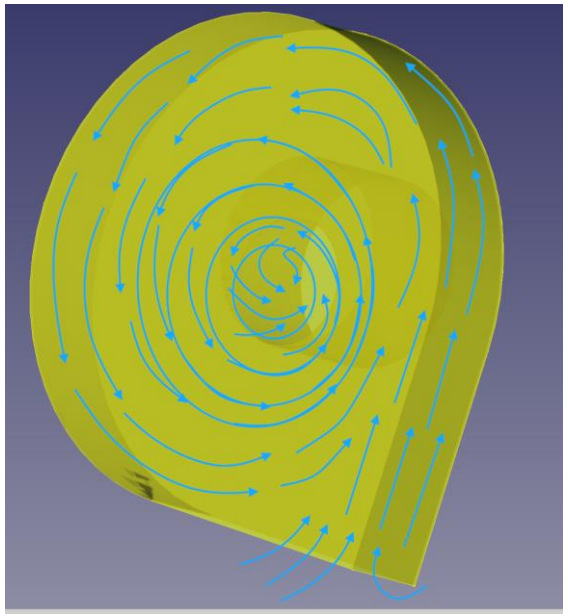
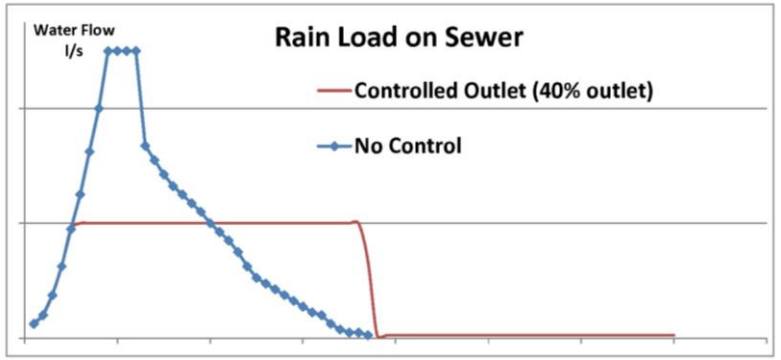
A constant large opening, up to 425% larger than the alternatives









Application: Large Catch basin

- More properties are connected to one large catch basin
- The water is lead to the near by stream at a maximum flow defined by the vortex valve
- This is typically done when the city outgrow the treatment plant to prevent sewage overflow

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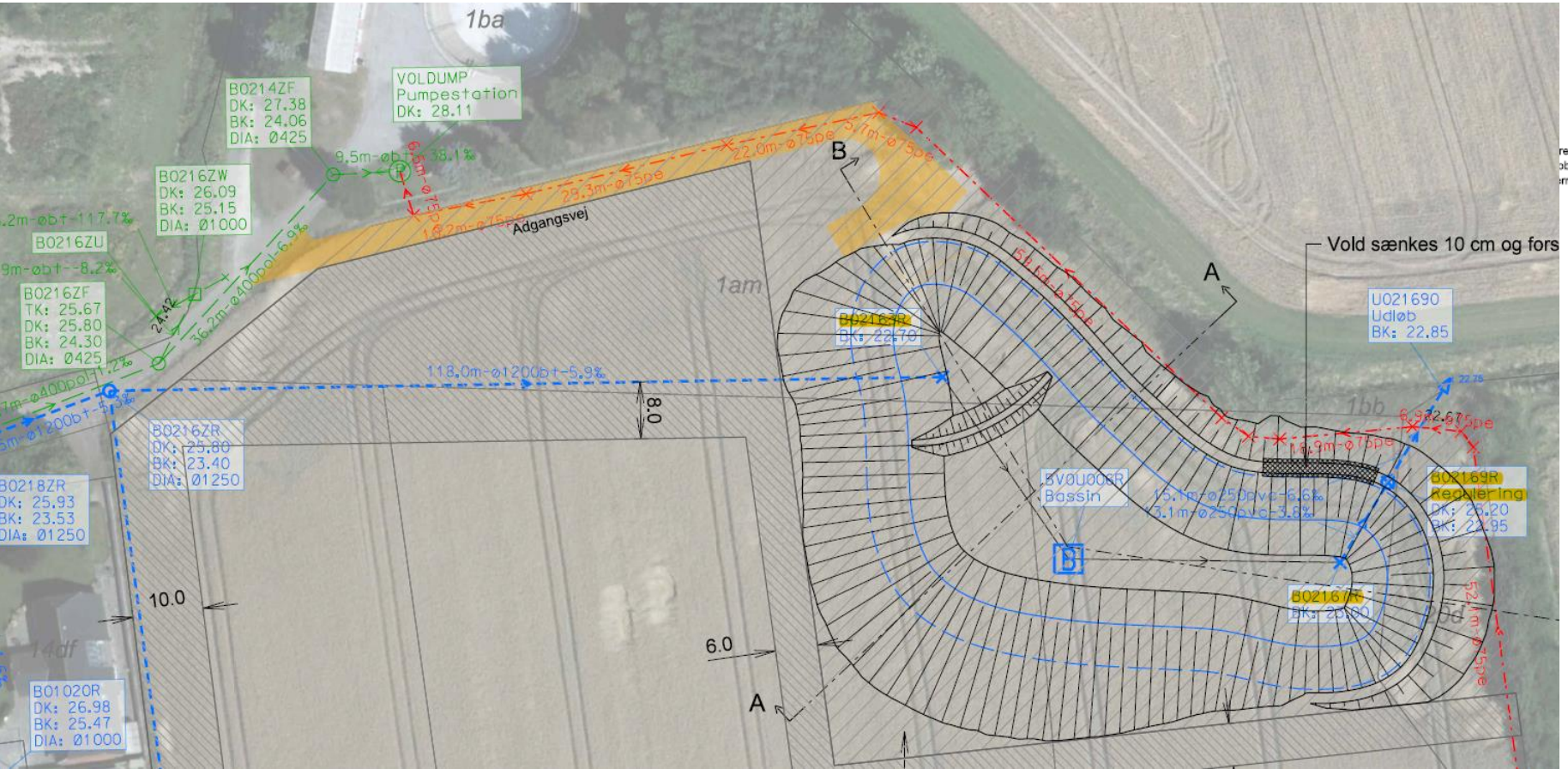

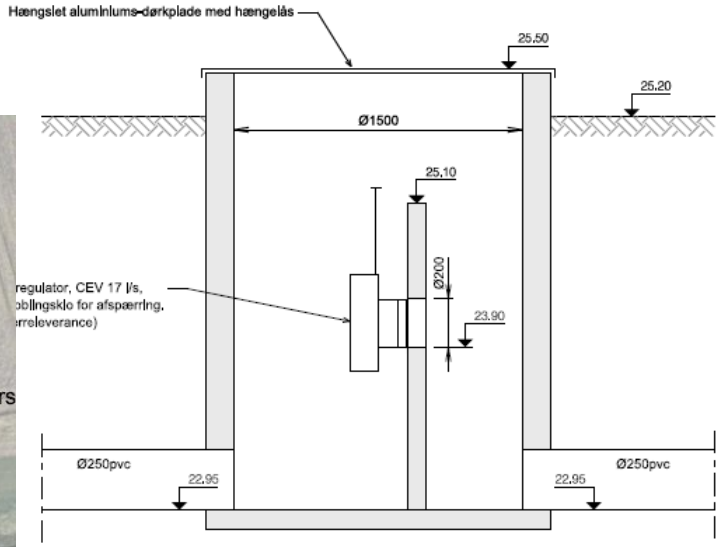

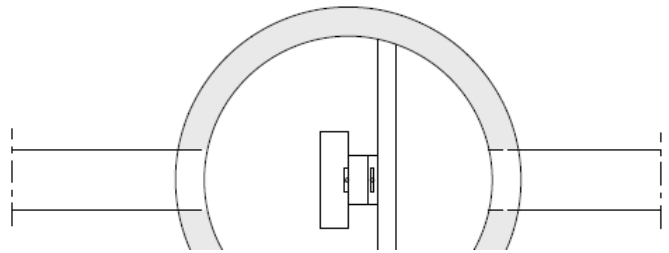

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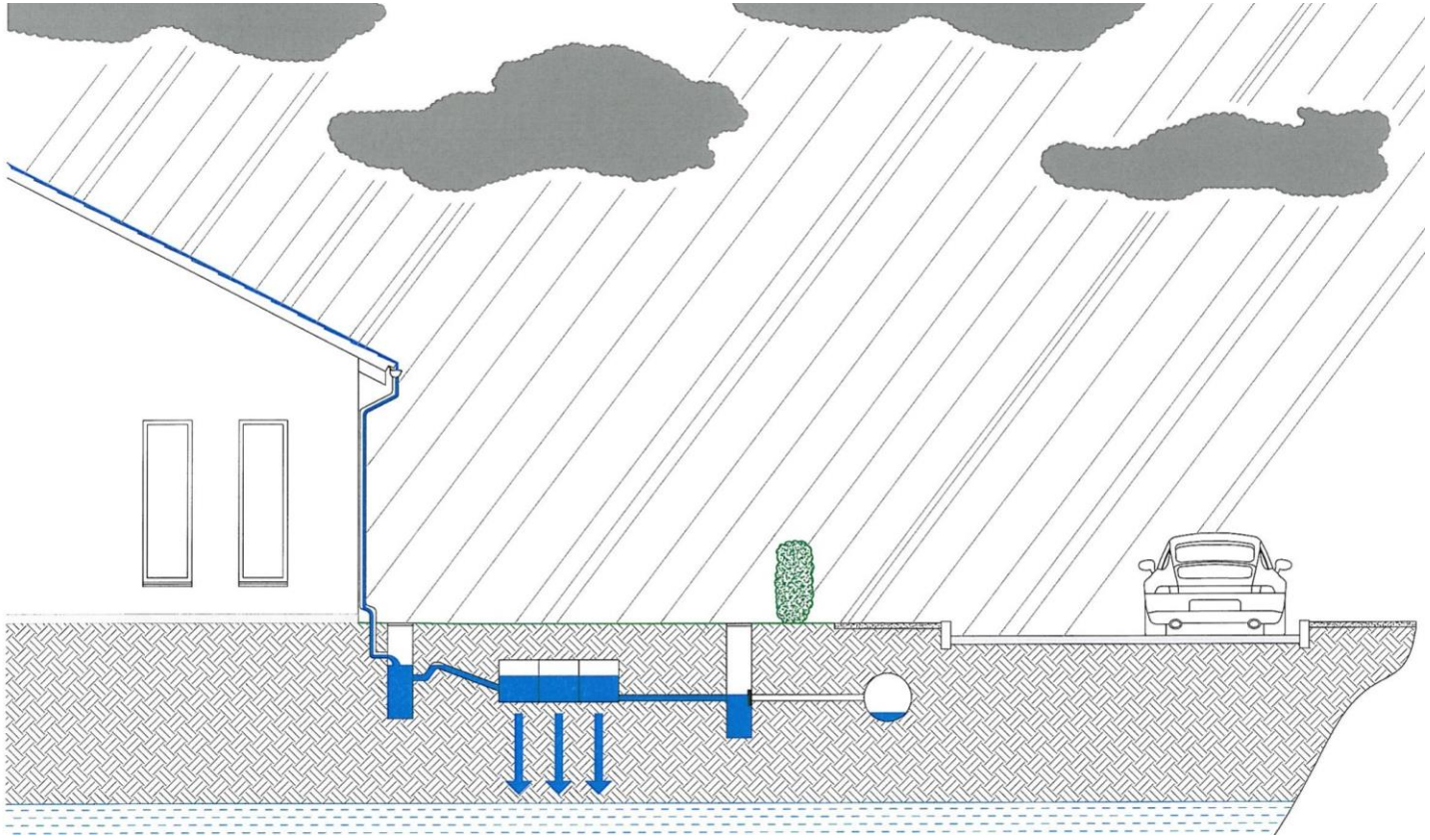
Application: Household catch basin

- Many small units make difference
- Every property connected to the main sewage/storm water pipe has a basin, pond or infiltration unit to temporarily store the storm water, until it has been released through a CEV vortex valve.
- This ensures a safe operation of pumping stations, main pipes and prevent sewage overflow.



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The need for Certification, third party verification or?

- An increased competition from inexperienced companies offering seemingly similar products, but with serious issues as to the hydraulic performance, we had to do something.
- We wanted a way to include the hydraulic performance of the product - to apply the same rules to the game for all.

EU ETV Pilot Programme

EU Environmental Technology Verification pilot programme

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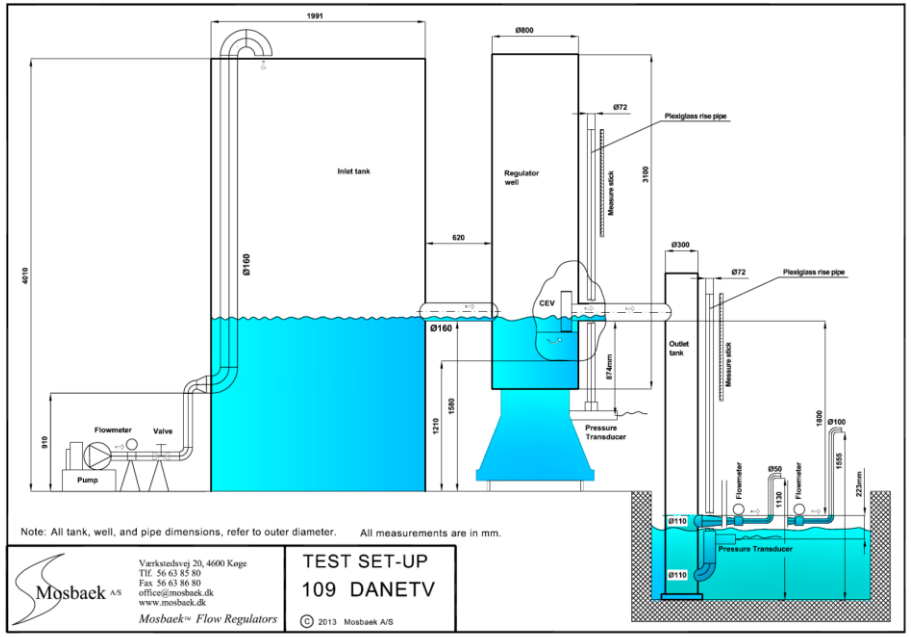
- In November of 2011, The EU ETV pilot programme was presented to us by Mette Tjener Andersson, DANETV.
- We could have chosen other parties but believe that a central EU verification body with validity in all of EU is preferable.
- The local verification bodies are well reputed institutes with a high professional profile within their area.
- Review by professors at different European universities
- The local ETV did the major part of the paperwork, leaving us to concentrate on the technical part.

DHI

ETA DANMARK

DANETV



Barcelona 2015

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Statement of Verification

ETV
EU Environmental Technology Verification pilot programme

ETA DANMARK

DANETV

Technology:	Mosbaek CEV flow regulator
Registration number:	2
Date of issue:	29 April 2015

Verification Body		**Proposer**	
Name:	ETA-Danmark A/S	Name:	Mosbaek A/S
Contact:	Thomas Bruun	Contact:	Torben Krejberg
Address	Göteborg Plads 1 DK-2150 Nordhavn	Address:	Værkstedsvej 20 DK-4600 Køge
Telephone:	+45 72 24 59 00	Telephone:	+45 56 63 85 80
E-mail:	tb@etadanmark.dk	E-mail:	tk@mosbaek.dk
Web:	www.etadanmark.dk	Web:	www.mosbaek.dk

Signed, 29 April 2015

Verification responsible

Managing Director

DANAK
Reg. Nr. 9099

The reality

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- The verification was not the game changer as we had imagined it to be
- We found that the limited, or non-existent, knowledge of the EU ETV in the engineering community and utility companies was and is a big hurdle.
- We have tried to convey the message as much as possible, but with limited resources and a marked that paid no particular attention to environmental issues of a mal performing vortex valve, we have struggled.
- Having an EU ETV label was not enough to convince the majority of engineers and utility companies to put the EU ETV as a requirement in the specification for a project.
- Competition is still not based on hydraulic performance.
- A voluntary scheme for both suppliers and buyer need both parties to volunteer. Here is the problem. The ETV needs to be a requirement in the purchase specification whenever possible, otherwise it is merely cost consideration that drives.

What have we done?

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- We have used the EU ETV as leverage for obtaining further certification and documentation.
- We consulted with ETA Denmark about our possibilities and based on the EU ETV we did an ETA to use as basis for CE marking of the CEV vortex valves.
- We are now able to CE mark our Vortex Valve based on the hydraulic performance and environmental impact.
- We have an EPD on our products, as we expected this to be a requirement in future
- We still promote the EU ETV, advocating for verified hydraulic performance in vortex valves

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Even though ETV wasn't the game changer we had hoped.

- It has given us confidence, having our technology verified
- It has changed our mindset and structured our approach even further
- It has moved us forward with inspiration from the feedback in the verification process
- It has given us an edge we need sharpen

Would we do it again?

YES !