

VORTEX VALVE CY

Wet Mounted

THERE IS A MOSBAEK SOLUTION FOR EVERY FLOW CONTROL NEED

- Low priced
- Low cost installation
- Low operating costs
- Low maintenance costs
- No moving parts
- No corrosion
- No environmental damage
- No energy consumption
- Postpones public works expansion
- Prevents clogging
- Suitable for most sewerage solutions

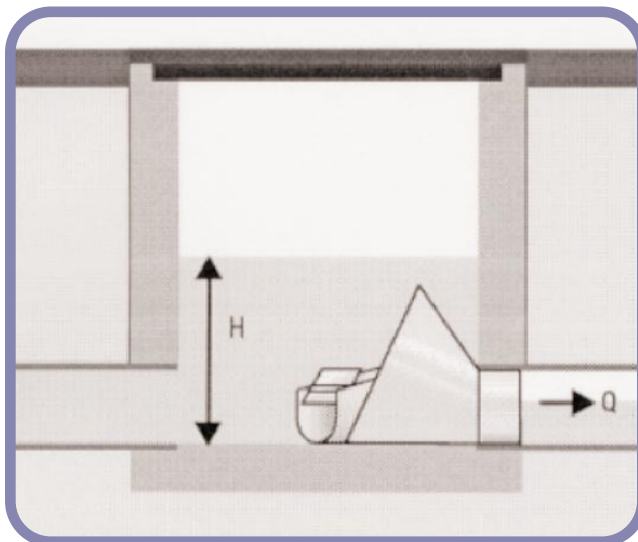
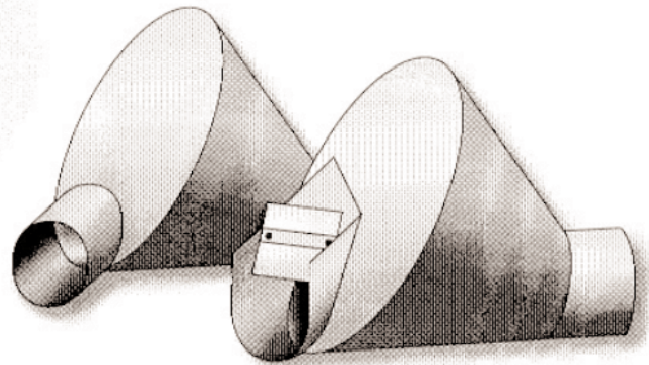


Figure 1

ANALYSIS OF THE ACTUAL CONTROL NEED:

On the basis of the design flow Q_{des} and design head H_{des} , Mosbaek A/S calculates and specifies the most optimal flow controller.

Q_{des} = Desired or allowable flow to the sewerage system downstream of the controller.

H_{des} = Possible or allowable water level upstream of the controller.

The head and flow are shown in figure 1.

Vortex and centrifugal valves from Mosbaek A/S are internationally recognized and exported all over Europe, the Baltic States and overseas markets such as USA, Canada, Australia and Thailand.

Every flow control need for a wide span of flows and heads can be met by the Vortex Valve, our most used flow controller. The solution can contain wet (CY) and/or dry (CY/D) mounted controllers. The former is submerged; the latter is placed in a separate dry chamber.

ADJUSTABLE

CY is available with fixed or adjustable inlet opening. The latter makes it possible to change inflow as needed with a range of at least $\pm 20\%$.

SELF-CLEANING EFFECT

Figure 3 shows an example of a head-discharge curve. The “Bump” on the curve illustrates the self-cleaning effect for even small heads.

NO CLOGGING

The Vortex Valve can be used for all common types of sewage. The passageways are larger than in other types of solutions with the same capacity; this results in less tendency to clog. A horizontal (level) passageway lets sediment through unimpeded.

NO MOVING PARTS

Therefore, no wearing parts getting stuck or needing replacement.

NO ENERGY CONSUMPTION

No electrical cables or other power supplies. Therefore, no energy costs.

NO MAINTENANCE

Acid-resistant steel makes rust protection or other maintenance unnecessary.

EXAMPLES

A typical use of the Mosbaek Vortex Valve is shown in figure 4. Here the Controller ensures controlled emptying of a detention basin after rain with no danger of flooding downstream. Figure 5 shows how, during rain, the controller lets the maximum allowed amount of rainwater into the treatment plant, while directing the rest to a basin, lake or stream.

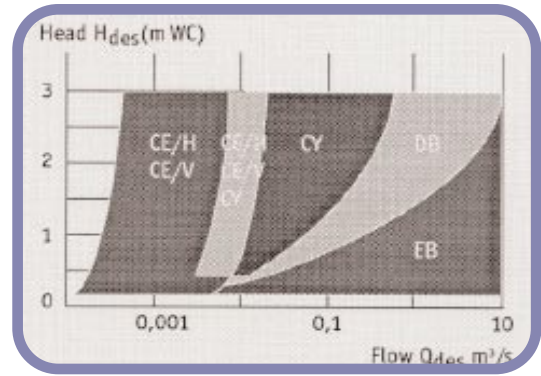


Figure 2

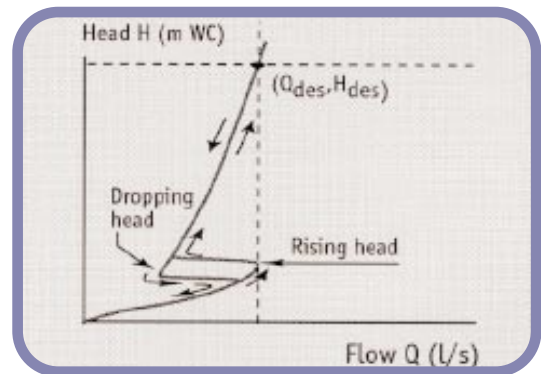


Figure 3

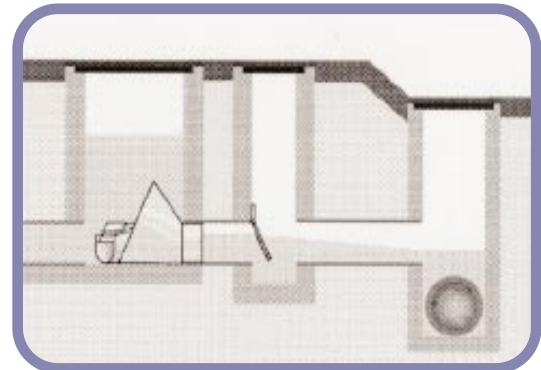


Figure 4

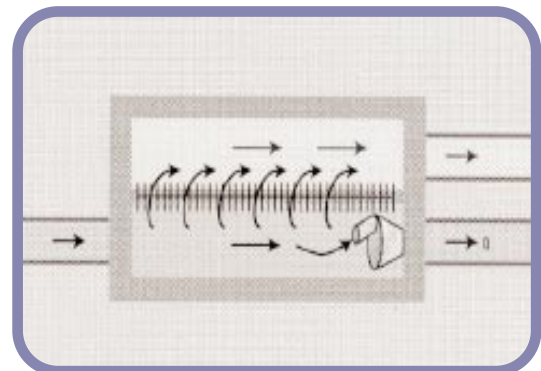


Figure 5