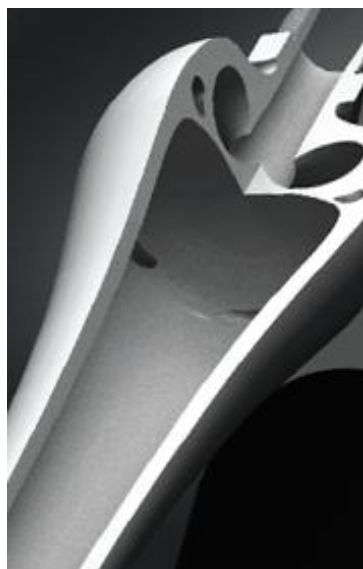




# Watreco IVG



The Watreco vortex generators in the IVG-series affect water. The Watreco IVG is mounted directly on the water pipe or as a part of an industrial process. The unit contains no moving parts and does not need to be connected to the power grid or any other energy source. The Watreco IVG is working according to Vortex Process Technology, VPT, which is based on the change that occurs when water passes through a vortex generator and is subjected to a strong vortex motion.

By subjecting water to VPT, it changes its properties. That means, among other things, that lime particles are ground down to microscopic fractions where dissolved calcium will precipitate. Furthermore the viscosity decreases and the electrical conductivity increases. In addition, heat capacity is increased.

With the Watreco IVG, cooling towers achieves higher efficiency and longer life span because the limescale deposits are no longer built up around the cooling elements. As little as a few millimeters in scaling increases energy consumption by 20-50%. Reduced scaling also provides reduced maintenance costs and less use of chemicals.

The Watreco IVG-series can also be applied in other areas such as irrigation to get more out of every drop of water and give higher yields (+5%). For the concrete industry it is possible to make concrete harder. The food industry and many other areas where water is involved in industrial processes can benefit from the technology.



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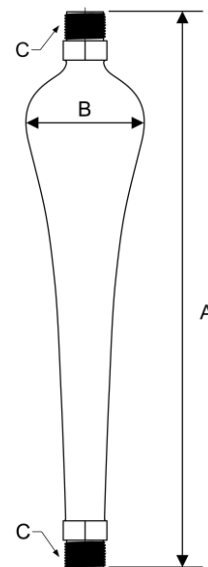
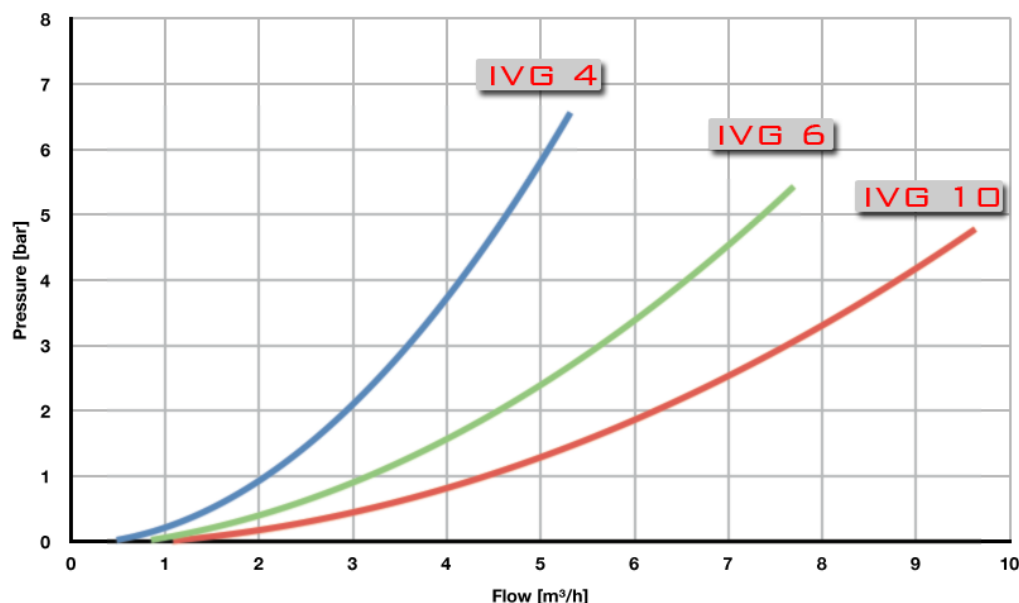
The Watreco vortex generators in the IVG-series affect water and change its properties.

The Watreco IVG is working according to the Vortex Process Technology, VPT i.e. with the change that occurs when water passes through a vortex generator and is subjected to a strong vortex motion.

The Watreco IVG-series comes in three sizes that cover most market needs.

The Watreco IVG-series affects water properties in the following manner.

- **Lime particles are ground down to microscopic fractions where dissolved calcium will precipitate.**
- **Viscosity decreases 3-17%**
- **Conductivity increases about 3%**
- **Heat capacity is increased about 3%**



	<b>Watreco IVG 4</b>	<b>Watreco IVG 6</b>	<b>Watreco IVG 10</b>
<b>Max pressure @ 20°C</b>	16 bar / 232 PSI (PN16)	16 bar / 232 PSI (PN16)	16 bar / 232 PSI (PN16)
<b>Normal flow @ 3-5 bar</b>	4 m³/h / 1057 gal/h	6 m³/h / 1585 gal/h	10 m³/h / 2642 gal/h
<b>Max temperature</b>	80°C / 176 F	80°C / 176 F	80°C / 176 F
<b>Length (A)</b>	376 mm	461 mm	544 mm
<b>Diameter (B)</b>	82 mm	96 mm	120 mm
<b>Weight</b>	0,32 kg / 0.71 lb	0,46 kg / 1.08 lb	0,93 kg / 2.05 lb
<b>Connect to: (C)</b>	ISO 228-G1"	ISO 228-G1"	ISO 228-G1¼"

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