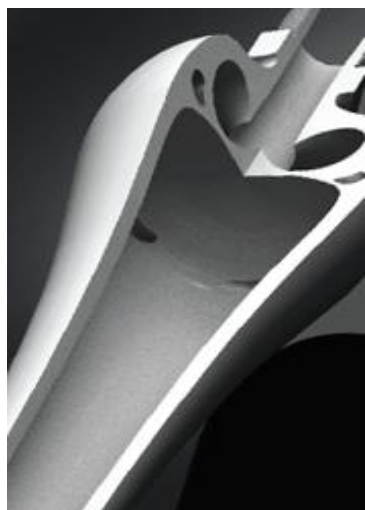




Watreco IVG



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

By exposing the water to VPT, its properties change. This includes, among other things, that lime is converted and broken down into smaller fractions that precipitate out as microscopic crystals in the water. Furthermore, the viscosity and the electrical conductivity increase. Consequently, the heat capacity increases.

With Watreco's IVG, for example, a cooling tower gets an increased efficiency and a longer service life since lime scale deposits do not build up around the cooling elements. As little as a few millimeters of lime scale buildup can result in an increased energy consumption of 20-50%. A reduced lime scale buildup also results in lower maintenance costs and reduced use of chemicals.

Watreco IVG can also be used in other areas, such as in irrigation; to make it more efficient and get more out of every water drop and get larger yields (+5%)*, in the concrete industry; to make concrete stronger. In the food industry and many other areas where water is mixed in industrial processes, it can benefit from the technology.

* Enl. genomförda tester



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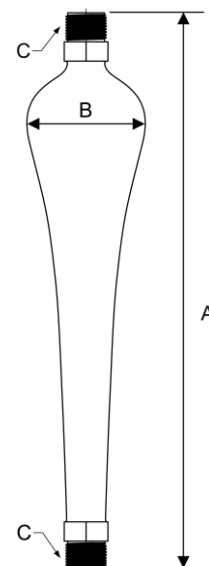
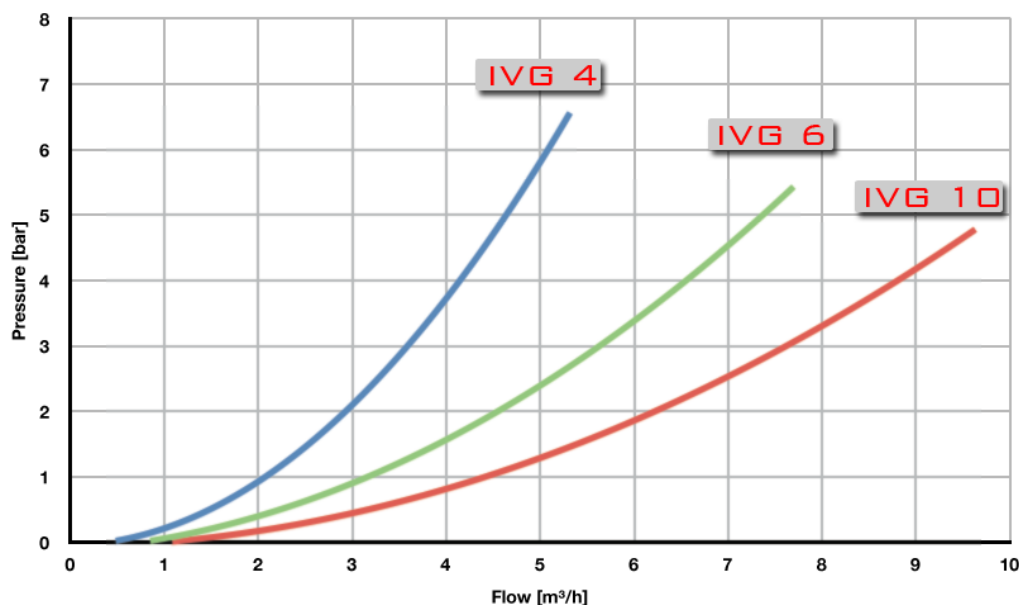
Watreco vortexgeneratorer av IVG-serien påverkar vatten och ändrar dess egenskaper.

Watreco IVG arbetar enligt Vortex Process Technology, VPT som bygger på den förändring som sker när vatten passerar genom en vortexgenerator och utsätts för en kraftig virvelrörelse.

Watreco IVG finns i tre storlekar som täcker de flesta behov på marknaden.

Watreco's IVG påverkar vattnets egenskaper enligt följande:

- **Kalkpartiklar mals ner till mikroskopiska fraktioner där sedan det lösta kalket fälls ut.**
- **Viskositeten sjunker 3-17%**
- **Konduktiviteten ökar ca 3%**
- **Värmekapaciteten ökar ca 3%**



	Watreco IVG 4	Watreco IVG 6	Watreco IVG 10
Max tryck @ 20°C	16 bar / 232 PSI (PN16)	16 bar / 232 PSI (PN16)	16 bar / 232 PSI (PN16)
Normal flöde @ 3-5 bar	4 m³/h / 1057 gal/h	6 m³/h / 1585 gal/h	10 m³/h / 2642 gal/h
Max temperatur	80°C / 176 F	80°C / 176 F	80°C / 176 F
Längd (A)	376 mm	461 mm	544 mm
Diameter (B)	82 mm	96 mm	120 mm
Vikt	0,32 kg / 0.71 lb	0,46 kg / 1.08 lb	0,93 kg / 2.05 lb
Anslutning: (C)	ISO 228-G1"	ISO 228-G1"	ISO 228-G1¼"

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