

VFI

HIGH QUALITY VORTEX FLOW SENSOR



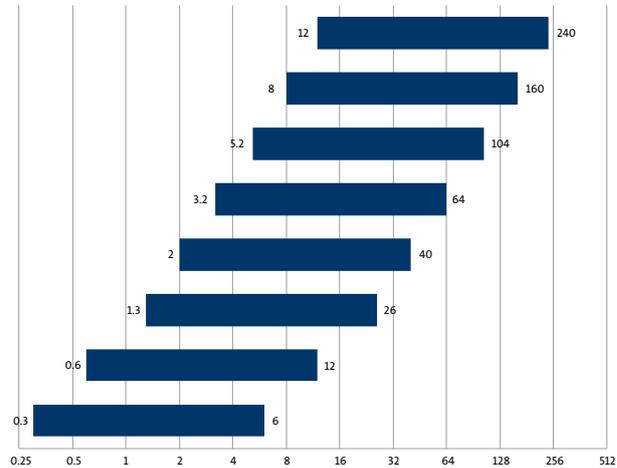
The vortex flow sensor successfully combines the well-established vortex principle with the patented Silicoat® technology to offer highly reliable measurement in any liquid.

The Vortex flow sensor consists of a sensor, a Vortex tube and an obstruction element (the bluff body). The sensor detects the pressure pulsation generated by the vortices, and converts the pulsation into an electrical output.

The compact, robust and cost-effective sensor efficiently measures flow, offering high accuracy and fast response time. The fast response time for temperature sensing is ensured by means of the unique Silicoat® which enables direct contact with the media.

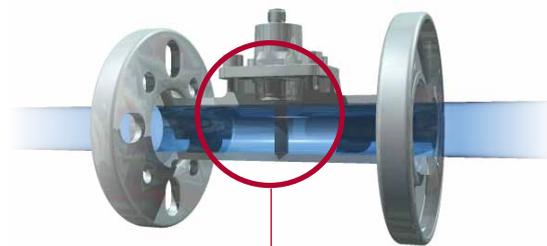
Benefits

- ▶ Loose flanges facilitate installation
- ▶ Direct contact with the media enables fast response time
- ▶ Silicoat® protect the sensor against wear and tear to offer long life
- ▶ The sensor is independent of the pressure and temperature of the medium.

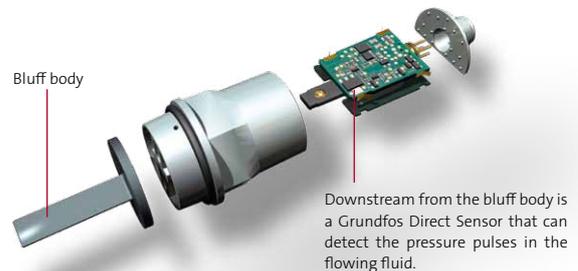


The VFI series consist of eight flow sensors with flow ranges from 0.3..240 m³/h.

Data	
DN range	DN18-DN100
Flow range	0.3 m³/h-240 m³/h (5 l/m – 4,000 l/m)
Accuracy	± 1.5 FS
Media viscosity	0.8-7 cSt (40% glycol @0 °C: 6.5 cSt)
Max pressure	25 bar (60 bar burst pressure)
Media temp.	-30 °C - 120 °C (non-freezing)
Amb. temp.	-25 °C - 60 °C (70 °C peak)
Input power	11-30 VDC (± 5%)
Output	4-20 mA (cut off: 21 mA)
Connector	M12 (standard connector with wire. Longer via converter)
Material	Stainless steel (1.4408 and 1.4404)
IP Classes	IP67



Inside the vortex flow transmitter a bluff body is located in the middle of the pipe, within the path of the fluid. As fluid pass this bluff body, disturbances in the flow called vortices are generated.



Bluff body

Downstream from the bluff body is a Grundfos Direct Sensor that can detect the pressure pulses in the flowing fluid.



The sign of top industrial quality

The characteristic stainless steel Grundfos Industrial Solutions sign symbolises our commitment to industrial professionals. Our pump ranges cover it all: cleaning, dosing, water treatment, water supply, wastewater, cooling, boiler

feeding, heating, fire protection and general or sanitary processing. In addition to the extensive pump portfolio we offer a variety of pump related solutions like sensors, monitors and control units.