

Vortex Flow Meter Multivariable

- › Velocity measurement
- › Temperature measurement
- › Pressure measurement
- › Energy monitoring
- › Up to three analog outputs available



Vortex Flow Meter

DVH IN-LINE

Maintenance-free and proven robust design without gaskets



The extremely robust **DVH IN-LINE** type is available as flange or wafer version.

With an application range of up to 100 bar and from -200 up to +400 °C the units are multi talents for nearly all process conditions.

Our flow meters are available for pipe sizes from DN15 up to DN 300 as a flange version, or DN15 up to DN100 as a wafer version.

Vortex Flow Meter

DVE INSERTION – VERSION

Large **pipe-sizes** are no handicap for cost-effective measurements.



The **multivariable DVE Insertion** flowmeter can be used to operate in pipes of up to DN 600 in size.

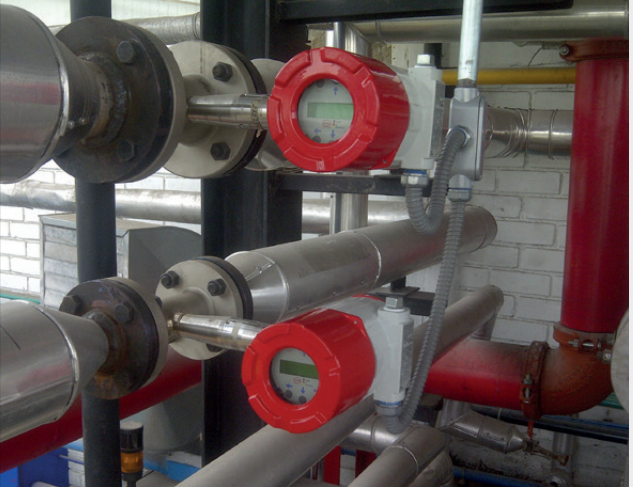
There are many options available to adapt the DVE to your process, such as flange- or thread-connections, compression fittings or packing glands making it adaptable or upgradeable to practically all pipe systems.

The DVE retractor device makes the meter hot tappable, deeming a process shut down for installation unnecessary.

Vortex Flow Meter

DVH | DVE

Energy monitoring e.g. for steam or hot water applications



Optional inputs for example enable the capture of a second temperature measurement, as well as an energy consumption measurement, enabling an optimal and efficient operation of your plant.

Powerful sensors and software are directly implemented in the meter itself.

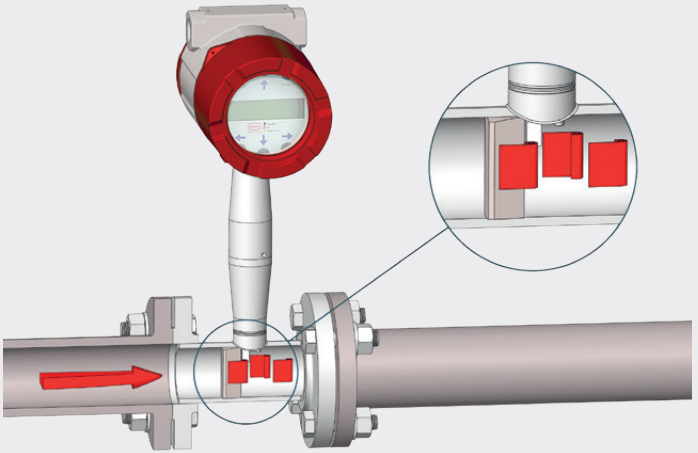


Vortex Flow Meter

DVH | DVE

Wear-free

Robust construction without gaskets



The unique and robust gasket-free design allows for care-free measurements with long term stability without the burden of maintenance intervals.

**„Fully welded construction.
It doesn't get more robust than that.“**

Additionally all internal sensor components are welded. For the operator this means less maintenance and administration, resulting in a huge cost benefit.

Vortex Flow Meter

DVH | DVE

Multivariable Transmitter
in the robust field housing design



The transmitter comes with a user friendly operating concept, has a variety of voltage supply's and up to three analog outputs.

- > Multivariable power-supply
 - > 24 V/DC Loop
 - > 24 V/DC 4-wire
 - > 230 / 115 V/AC
 - > Up to 3 analog-outputs, impulse-output
 - > HART®- or MODBUS- communication
 - > 6 pushbuttons for configuration, as well as operation with magnetic wand without removal of enclosure covers
 - > User-optimized menu
 - > Energy-monitoring
 - > Mass flow-measurement
 - > additional pin for external temperature- and pressure-sensor
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Vortex Flow Meter

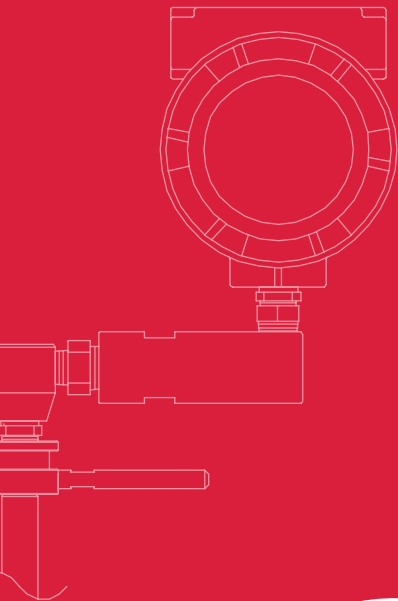
DVH | DVE

Performance data

Summary

Flange-version	DN15..DN300
Wafer-version	DN15...DN100
Insertion-version	DN50...DN600
Accuracy liquids DVH/DVE	$\pm 0,7\%$ of rate / $\pm 1,2\%$ of rate
Accuracy steam/gas DVH/DVE	$\pm 1\%$ of rate / $\pm 1,5\%$ of rate
Operating temperature	-200...+400 °C
Operating pressure	up to 100 bar
Sensor material	stainless steel 1.4404 (316L)
Transmitter-housing	painted aluminum
Power supply	24 V/DC Loop 24 V/DC 4-wire 230 / 115 V/AC
Communication	HART®, MODBUS
Outputs	4-20 mA, Alarm, Pulse
Ex-approvals	ATEX, IECEx

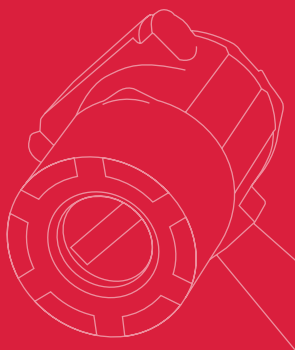




KOBOLD Group

100 YEARS PROCESS-INSTRUMENTATION 1911-2011

We measure flow, density, level and pressure



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