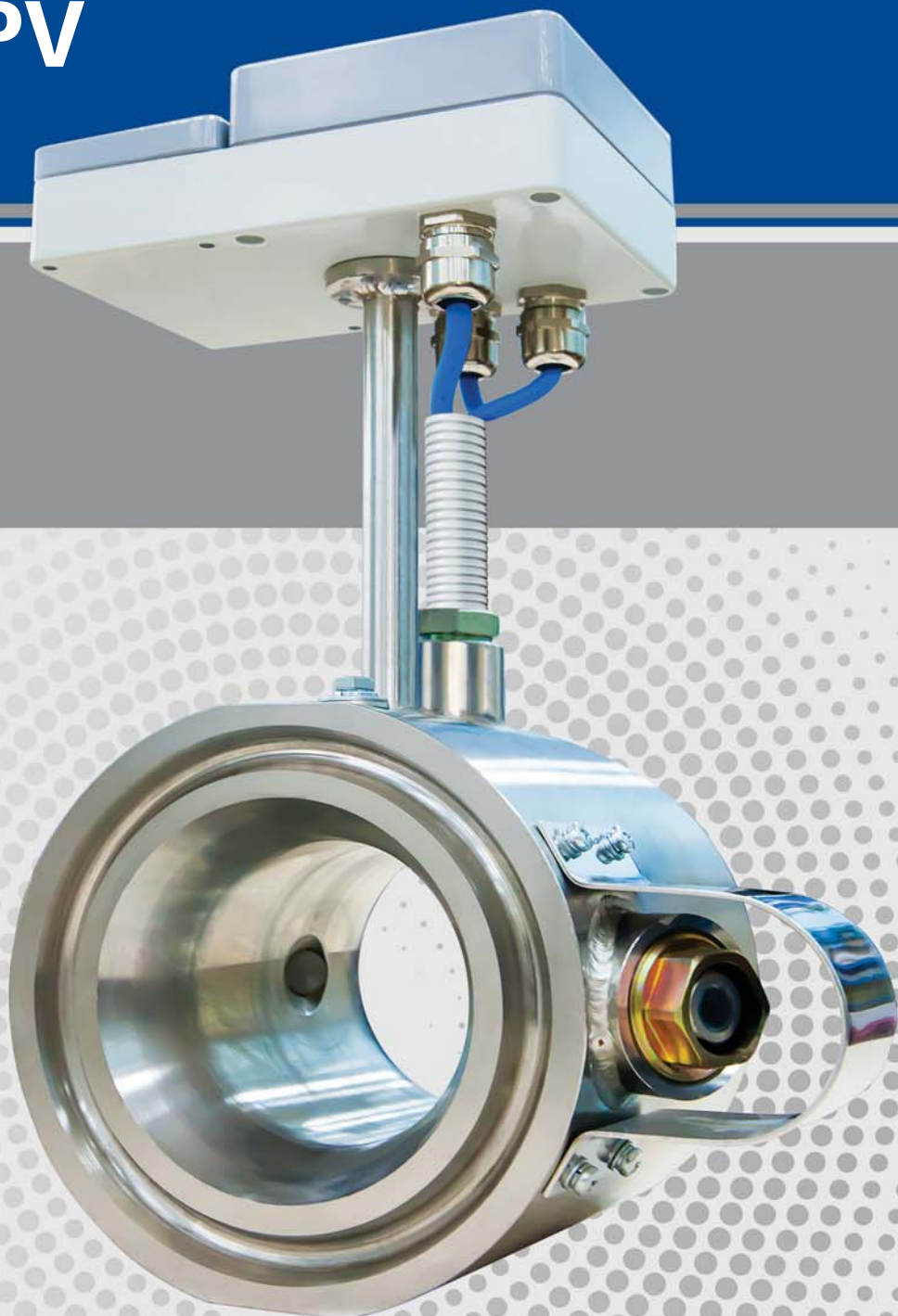


Ultrasonic flowmeter **RAPIRA-PV**

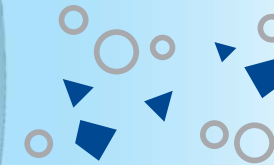
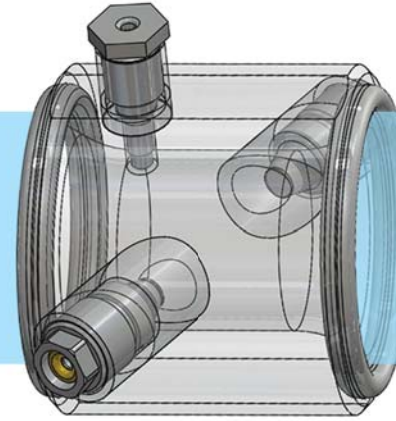
Dependable
operation
in harsh conditions



Key advantages

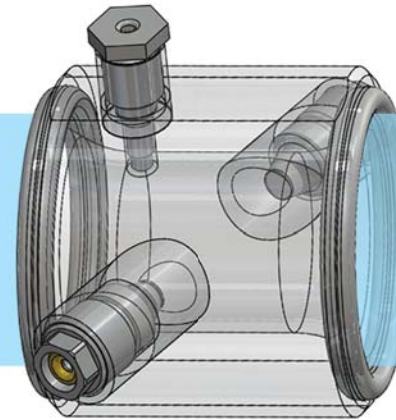
Low flow measurement

от 0,3 m³/h



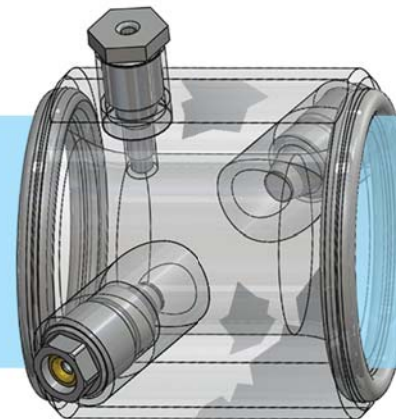
Robust measurements
of polluted
and gassy liquids

Bidirectional sensing



Operation in high pressure
and hydroblow conditions

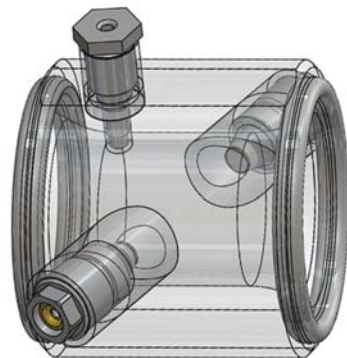
Long working times
without service



δ

Reliable measurements
even with high levels
of debris accumulation

Technical solutions



The special construction of ultrasonic sensors, comprised of titanium acoustic pipes with large diameters and piezotransducers directly fixed by metal-metal connections, allows for the application of wideband signals with multiple types of frequency and phase modulation.



Our unique circuitry allows high speed and bi-directional signal multiplexing and processing with low interference through a stationary medium.



Multi-stage correlation processing of complexly-modulated wideband signals increases accuracy and long-term reliability in a wide dynamic range of input signals.

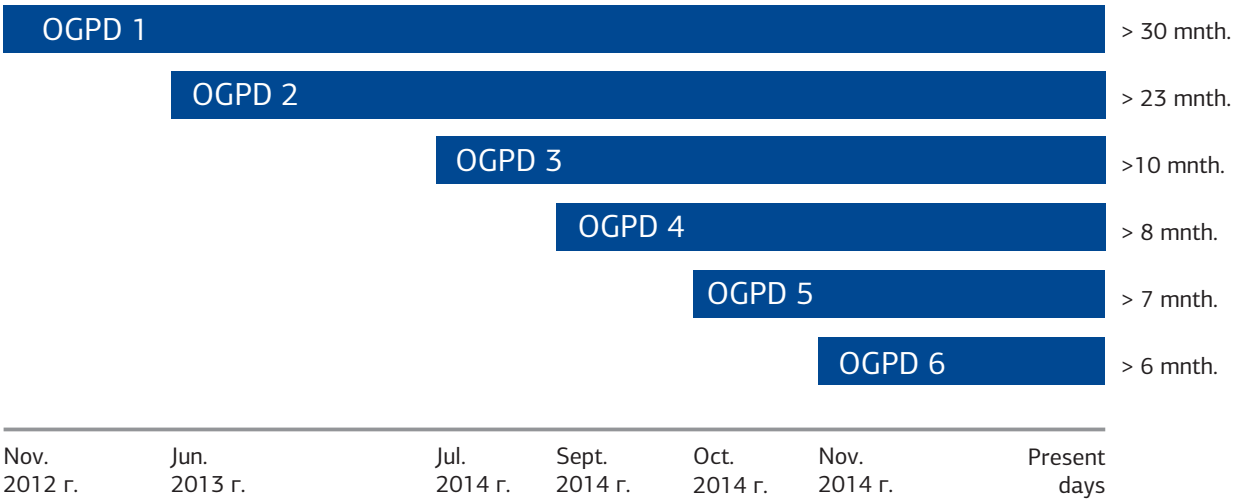


The aperture construction is designed to minimize flow resistance and accumulation of interfering debris.

Geography of operation



Serviceless operation



*OGPD - Oil and Gas Production Department

Main characteristics

Characteristics	Value	Notes
Measurement ranges of flows, m³/h (turndown ratios 1:300)	0,3...100	для D=50 mm
	1...300	для D=100 mm
	2,2...675	для D=150 mm
Fluid temperature	0° ... +80°C	
Relative error, %, max.	1,5	Flow rate 0,025 G _{max} ... G _{max}
	2	Flow rate 0,0067 G _{max} ... 0,025 G _{max}
Fluid pressure, Mpa	min 35	
Recalibration interval, years, min.	4	
Mean life, hours, min.	100 000	
Operation age, years, min.	9	
Connection to the pipeline	flange / flangeless	by order
Length of device, mm	120	D=50 mm
	140	D=100 mm
	180	D=150 mm
Explosion - proofness	1ExibIIBT5	
Output signal	RS-485, signal rate 19200 baud	ModbusRTU Protocol
	Impulse output	The pulse value is programmable in the range between 0.1...1000 L/pls.
Wattage, min.	2	explosion - proofless version
Consumed power, W, max.	12	explosion - proof version

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