

## QUESTIONNAIRE FOR FLOW METERS

You may complete only those fields for which you have precise information. Others may be left blank.

Completed inquiry forms are processed as a priority. A response from a manager will be sent within 24 hours.

### CONTACT INFORMATION:

Full Name:

Phone:

Email:

Job Title:

Organization:

City:

End Customer

### PROCESS INFORMATION:

Measured Medium:

Process medium characteristics: Corrosive      Abrasive      Tendency to coat/stick

Mechanical and other impurities content, %:

Medium density, kg/m<sup>3</sup>:

Medium viscosity:

Medium conductivity,  $\mu\text{S}/\text{cm}$ : min      max

Operating flow range: Units: min      max

Operating pressure: Units: min      max

Operating temperature, °C: min      max

Ambient temperature, °C: min      max

Max. permissible pressure drop across flowmeter:

### Pipe specifications:

Outer diameter of the pipeline, mm:

Wall thickness, mm:

Pipeline material:

Thermal insulation present	No	Yes	Thickness	mm
Pipe vibration	No	Yes	Amplitude, frequency	
Strong EM field sources nearby	No	Yes		
Possibility of pipe reduction	No	Yes	Possible reduction to	mm
Flow direction	Horizontal	Upward	Downward	
Straight runs at installation site	None	Before flow meter, m	After, m	



Electromagnetic Flow Meter



Coriolis Mass Flow Meter



Ultrasonic Flow Meter



Rotameter (float type)



Air flow velocity sensor



Vortex Flow Meters



Mass flow controller



Turbine Flow Meter



Heat flow sensor



Visual flow indicator



## DEVICE REQUIREMENTS:

Task:      Measurement      Indication      Alarm

Design type:

**Electromagnetic** - Measures the velocity of a liquid flow based on the electromotive force induced in it

**Rotameter** - Flow rate is proportional to the height of the float raised by the flow in a conical tube

**Turbine** - Flow velocity is proportional to the rotational speed of the turbine placed in the flow.

**Ultrasonic** - Measures the difference in the time it takes for an ultrasonic signal to travel with and against the flow

**Vortex** - The frequency of vortices breaking away from the body of the flow is proportional to the flow velocity

**Coriolis** - Directly measures mass by recording the phase shift of the measuring tube's oscillations

**Thermal** - Flow is determined by the cooling of a heated element or the temperature difference between two sensors

**Mass flow controller** - Measures and maintains a set mass flow rate

Other:

Data visualization	Visual Indicator	Display	Remote display	Not required
--------------------	------------------	---------	----------------	--------------

Connection:      Threaded:

Flanged:

Clamp:

Insertion:

Hygienic:

Other:

Accuracy, %:

Lining material:

Electrode material:

Housing material:

Protection class, IP:

Explosion protection:	Industrial (non-Ex)	Flange set:
-----------------------	---------------------	-------------

Flameproof Exd

Intrinsically safe Exia

Output signals:	4-20 mA	HART	Profibus	RS-485 Modbus	Frequency (Pulse)	Relay
-----------------	---------	------	----------	---------------	-------------------	-------

## DELIVERY TIME:

Specify max. acceptable delivery time

Urgent (up to 5 days, from stock)

4 to 8 weeks (from manufacturer's warehouse)

8 to 12 weeks (made to order)

## QUANTITY:

## OTHER REQUIREMENTS AND REQUESTS:

The completed questionnaire must be sent to [oil@oil.lv](mailto:oil@oil.lv)

Submitting this inquiry form does not imply any obligation. By filling out this inquiry form, you confirm your consent to the processing of personal data.