

# "FAGOT" – the functional unit for determining the geometric features of the pipeline

«FAGOT» is equipped:

- with a low-frequency transmitter to determine their location;
- levers with displacement sensors to determine the size of features inside the pipeline;
  - pressure and temperature sensor;
  - accelerometers, odometers and sensors of space position for traffic speed determination, accelerated of acceleration breaking of concerning angles, parameters of rotational motion and clockwise position distance traveled.
- They are the means of primary analog-to-digital data conversion.
- Recorded and non-volatile.

«FAGOT» detects :

- changes in the internal diameter from 75 to 105% DN, the presence of critical constrictions;
- the presence and geometry of dents and corrugations;
- availability and parameters of bends (pipeline turns):

the angle in the branches, the radii of curvature of the branches;

ring welds and their geometry;  
geometry of valves and gate valves;

availability of equal-bore tees and tie-ins with a diameter of 1/6 DN;

pressure, temperature and speed of the transported product.



## Operating conditions:

liquid, gaseous and multiphase media, including explosive media.

Diagnostics is performed in conditions of acting oil and gas pipelines without changing the pumping modes.



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# TECHNICAL SPECIFICATION

<b>Operating temperature range</b>	<b>from -30 °C to +80 °</b>
Maximum pressure	8 MPa
Travel speed range	0.1-6
Length range	from 915mm
Weight range	Up to 25 kilos
Passage of taps	1.5 D, 90°
Battery life	No less than 72 hours
Outer diameter of the pipeline	from 6" till 20 "
Wall thickness	4-20 mm
Work environment	oil, oil products, water, natural gas, ammonia, air
Максимальна дистанція	from 300 kilometers

After performing in-tube diagnostics, using specialized software, a team of certified specialists analyzes the data and provides a report in accordance with POF 2009 and 2016, taking into account additional customer requirements.

## ADVANTAGES:

- It is used for pipelines with diameters from 6" to 20";
- The presence of 3 odometrical wheels that increase the accuracy of distance and speed determination, as well as reduce measurement error;
- Quick mobilization at minimal cost;
- Possibility of passing critical constrictions up to 70% of the outer diameter;
- Determine angles and radii of turns with high accuracy;
- Determination of product pressure, temperature and flow rate;
- Detection of geometric anomalies with an accuracy of 1 mm.

