

ABSTRACT
METHOD FOR VERIFYING A FLOWMETER AND DEVICE FOR THE IMPLEMENTATION
THEREOF

The invention relates to inspection and measuring technology for use in the calibration, verification and routine monitoring of the metrological characteristics of volume flow and mass flow meters and calibration rigs, primarily for petroleum and petroleum products. The special feature of the present method for monitoring the metrological characteristics of a flowmeter using a bidirectional prover is that the portion of the prover situated at the end of the path of travel of a ball and acting as an accelerator during the opposite movement of the ball is used on said path as an addition to the calibrated portion. The special feature of a bidirectional prover for implementing the present method is the installation of one or more detectors in a closed cross-section of the portion of the prover situated at the end of the travel path. The technical result is an increase in the accuracy and reliability of the measuring results, a reduction in the dimensions, mass and material intensity of the structure, a decrease in the duration of verification operations, and the mobility of the structure.

(Fig. 2)