

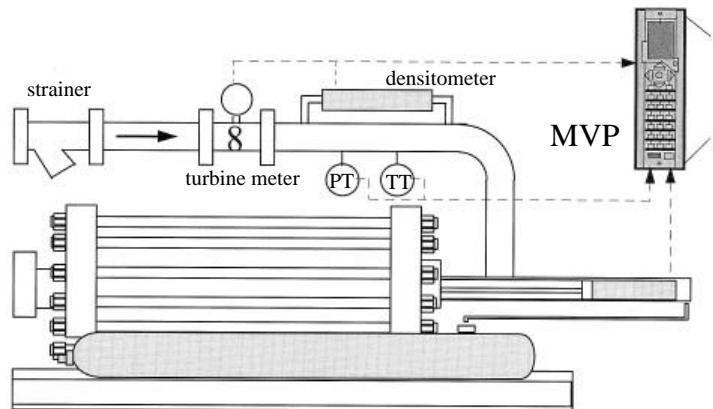
APPLICATION: Proving of Flowmeters on Volumetric and Mass basis

PROBLEM:

Customer needed a mobile prover to calibrate various types of flowmeters (including Micro Motion DS-600) on Crude Oil and all refined products. During wintertime the ambient temperature becomes very low. Paraffin from crude oil could sediment in the prover under these conditions. Also, the complete system had to be approved by the Weights & Measures Institute.

EQUIPMENT:

Trailer mounted 24" Brooks Compact Prover (BCP) with densitometer, control valve, block valves, strainer, 8" Parity Turbine meter (transfer standard), thermal insulation, electrical heaters, hydraulic crane and MVP electronics. (MVP = Multi Variable Proving). All electrical equipment is explosion proof in accordance with CENELEC requirements



BENEFITS:

- BCP with densitometer and MVP electronics provide capability to prove Coriolis mass meters and volumetric meters.
- Transfer standard, 8" Parity Turbine meter, provides ability to prove Micro Motion DS-600 meters at maximum flow rate.
- Strainer will protect prover from solid particles from the pipelines.
- Complete Prover assembly is accepted by Hungarian Weights & Measures (OMH) for calibration of custody transfer meters.
- Small size and weight of the Compact Prover reduced the cost for trailer, thermal insulation and electrical heating significantly.
- Thermostatic controlled heaters and thermal insulation prevent sedimentation of paraffin from the crude oil.
- The Compact Prover allows the customer to calibrate meters under actual process conditions.



CUSTOMER:

Major Refinery in Hungary

SUBMITTED BY:

Fred Wubben, Fisher-Rosemount Petroleum, Veenendaal, The Netherlands

Fisher-Rosemount Petroleum

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