

Wellhead flow measurement with CoriolisMaster

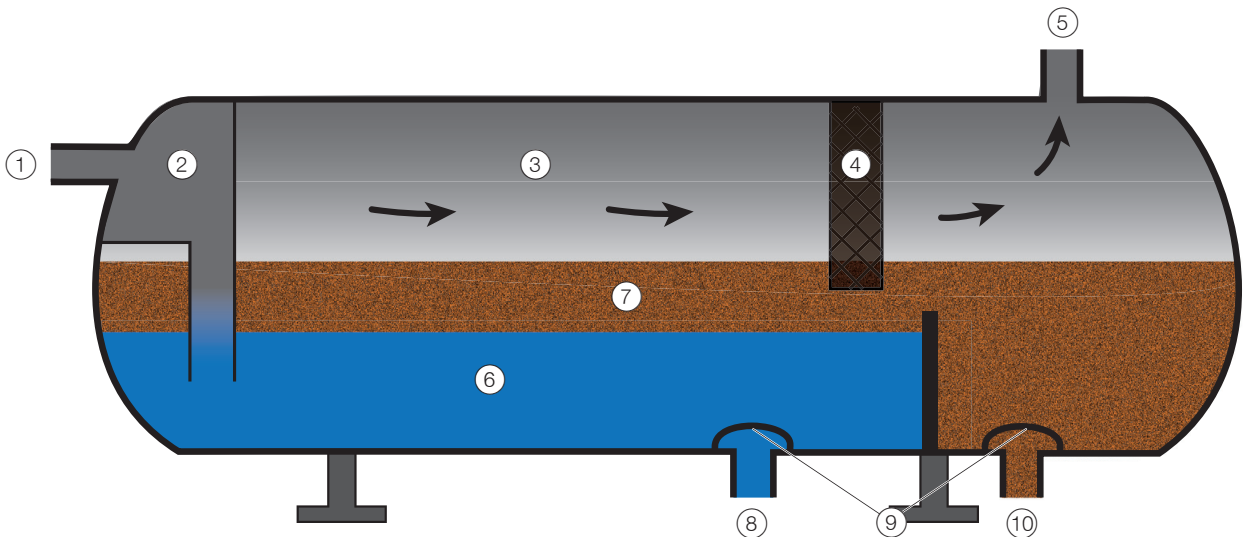
Measurement made easy

Reduces your measurement maintenance by up to 90 %

The challenge

In most stages of the life time of a well the produced gas or liquids are never pure. Mixtures of oil, water and gas are produced that need to be separated into its components. Turbine meter are the most common choice specifically for liquids measurements. The entrained gas however frequently damages the turbines resulting in ongoing and costly site maintenance visits. Additionally the measurement accuracy vary between 10 ... 40 %.

The conventional measurement is costly with a poor result. Since the productivity of the well needs to be measured anyway, there is an obvious need for a less maintenance intensive and more accurate measurement.



G11554

Seperator at the wellhead

- ① Inlet
- ② Slug catcher
- ③ Gas
- ④ Demister
- ⑤ Gas outlet
- ⑥ Water
- ⑦ Oil
- ⑧ Water out
- ⑨ Vortex breaker
- ⑩ Oil out



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The solution

The CoriolisMaster of ABB requires almost zero maintenance as there are no moving parts that can cause wear. Even high percentages of entrained gas does not effect the meter life span. In fact the meter operates even at gas levels of 40 ... 50 %. After proper installation the meter accuracy can be verified as below 5 % making it significantly more accurate than conventional turbine meters. Additional features such as built in density or concentration measurement allows for further well analysis or net-oil or water-cut calculations.

Specified product

The CoriolisMaster FCB330 of ABB reduces your measurement maintenance by up to 90 %. Saves your well investments as you get additional insight into the well by providing more variables and gives you a superior accuracy. Is still operating at 40 ... 50 % of gas entrainment, when most other flowmeters fail. The water outlet of the separator can as well be measured with ABB's ProcessMaster electromagnetic meterline offering low maintenance with conductive liquids.



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