Differential Scale Loop

The Diffential Scale Loop provided by PSL Systemtechnik is a fully automated instrument for the examination of scale formation in pipelines.Three HPLC pumps are used to mix up two brines and one inhibited brine with automatic calculation of inhibitor concentration.

The Differential Scale Loop is a highly integrated measurement device with an overall footprint of merely 0.8m x 1.2m. Three 2-piston HPLC pumps with piston backflushing and the use of Monel for all heat exposed parts (except the exchangeable test line) ensure a long life time and a high durability.

The PSL control software provides free programmable measuring schedules and inhibitor concentration steps as well as full temperature control. All pressure, differential pressure and temperature data are measured and stored in ASCII and Excel compatible file format. Extra, automated prescale run is possible.

Application:

- Examination of scale formation in pipelines
- Optimisation of scale inhibitor concentrations
- Quality control

Characteristics:

- differential pressure: 3 to 50 bar (40 to 675 psi)
- temperature: up to 200°C
- fully automated by computer control
- all line parts exposed to heat (except test line) made out of monel
- compact dimension

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