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A Review of Milli and Micro-flow Calibration Standards

This article reviews several milli- and micro-flow calibration standards available for calibration of low liquid flow instruments, such as medical devices. Their designs and measurement principles are discussed together with supported flow rates and measurement uncertainties. It was learnt that several European national metrology institutes (NMI's) already offer calibration and traceability for low liquid flow calibrations down to 0,1 $\mu\text{L}/\text{min}$ with uncertainties of 0,6 % reported in the BIPM Key Comparison Database.

However, in South Africa there's currently no SANAS accredited facility that can offer such low liquid flow calibration services especially for the calibration of low liquid flow medical devices. Hence, the National Metrology Institute of South Africa is currently investigating the feasibility of establishing such a facility to support especially the South African medical industry. The future plans are herein discussed.

Apply to be considered for a student award (Yes / No)?

no

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Primary author: Mr MPILO, Dlamini (National Metrology Institute of South Africa)

Presenter: Mr MPILO, Dlamini (National Metrology Institute of South Africa)

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