Table B.1 — Uncertainty of the flow rate measurement for different types of flow meters (example data)

Flow meter type	**Scale** %		**Uncertainty of flow rate calibration**[a] %	**Uncertainty of flow rate reading**[b] %
rotameter, 30 cm length[c]	100		1,6	0,23
	50		2,0	0,45
	10		5,2	2,3
Flow meter type	**Flow meter measuring range** $l \cdot min^{-1}$	**Measured flow rate** $l \cdot min^{-1}$	**Uncertainty of flow rate calibration**[a] %	**Uncertainty of flow rate reading**[b] %
mass flow meter	0,1 to 15	2,0	0,61	2,0
Flow meter type	**Flow cell measuring range** $l \cdot min^{-1}$	**Measured flow rate** $l \cdot min^{-1}$	**Uncertainty of flow rate calibration**[a] %	**Uncertainty of flow rate reading**[b] %
bubble flow meter	0 to 0,25	0,12	0,4	0,35
	0,2 to 6	2,0	0,12	0,1
	2 to 30	3,0	0,06	0,22
dry piston flow meter	0,5 to 5	2,0	0,59	0,26
	0,5 to 25	3,0	0,41	0,07

[a] The uncertainty of the flow rate calibration assumes a rectangular probability distribution and is calculated using data from the flow meter calibration certificate.

[b] The uncertainty of the flow rate reading is based on ten measurements.

[c] The uncertainty of the flow rate reading of an analogue flow meter depends upon the resolution of the scale of the instrument.