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The right *flow*  
by German engineering.



# BP250 - Bell Prover System PTB

Data Sheet EPE-146283



Made in  
GERMANY



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## Technical Data

Measurement range	1..250 m <sup>3</sup> /h
Measurement uncertainty	Version A: $\leq 0.06\%$ (k=2) (2.5 m <sup>3</sup> /h..160 m <sup>3</sup> /h) Version B: $\leq 0.15\%$ (k=2)
Measurement period	t $\geq$ 20s
Operating pressure	1100 Pa
Bell diameter	1400 mm
Stroke	1650 mm
Volume	approx. 2.5 m <sup>3</sup>

**!** This is only an **example** interpretation and can change according to your needs.

## Primary standard 250 m<sup>3</sup>/h

Primary standard for Gas-Flow  
Traceability to SI units length and time  
Measurement uncertainty  $\leq 0.06\%$  (k=2)

### Description

The BP250 Bell Prover is a primary standard for flow calibration with air. The cylindrical, top-closed hollow body (bell cylinder) is lowered to produce a flow. The flow rate is attributed to the SI units of length and time. The system is based on a proven technology by the PTB which is used worldwide in national metrology institutes for calibration of nozzles and other standards.

### Benefits

- ✓ Measurement uncertainties up to 0.06% (k=2)
- ✓ Direct calibration of sonic nozzles and other flow adjusting test items
- ✓ Infinitely adjustable volume flow
- ✓ **NEW:** Optimized design
- ✓ **NEW:** Improved transport and construction possibilities on site

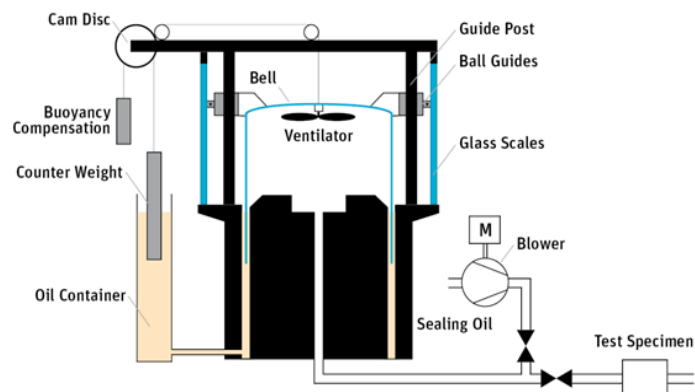


### Standard solutions Application examples:



#### Gas and Flow Measurement:

Calibration standard for sonic nozzles, gas meters, differential pressure devices, etc. at atmospheric conditions



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For special requirements we are happy to advise you. Subject to change. / EPE-146283 / Last update: 01/2017 / V03  
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