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# BP100 - Bell Prover System PTB

## Data Sheet EPE-146282

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## Primary standard 100 m³/h

Primary standard for Gas-Flow
Traceability of the flow to the SI units length and time
Measurement uncertainty ≤ 0.06% (k=2)

### Description

The BP100 Bell Prover is a primary standard for flow calibration with air. The cylindrical, top-closed hollow body (bell cylinder) is lowered to generate 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

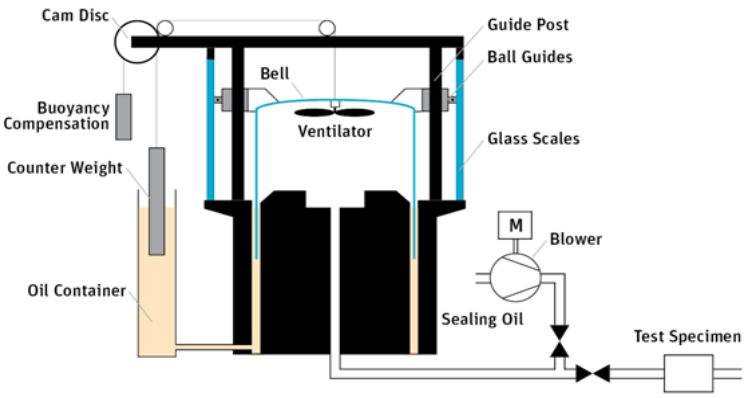
- ✓ Measurement uncertainties up to 0.06% (k=2)
- ✓ Direct calibration of sonic nozzles and other flow adjusting test items
- ✓ Infinitely adjustable volume flow
- ✓ **NEW:** Optimized design
- ✓ **NEW:** Improved transport and construction possibilities on site

### Technical Data

| | |
|---|---|
| **Measurement range** | 0.4..100 m³/h |
| **Measurement uncertainty** (1 m³/h..65 m³/h) | Version A: ≤ 0.06% (k=2)<br>Version B: ≤ 0.15% (k=2) |
| **Measurement period** | t ≥ 20 s |
| **Operating pressure** | 1100 Pa |
| **Bell diameter** | 1050 mm |
| **Stroke** | 1200 mm |
| **Volume** | approx. 1.0 m³ |

### Standard solutions Application examples:

Gas and Flow Measurement:
Calibration standard for sonic nozzles, gas meters, differential pressure controllers, etc. at atmospheric conditions




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

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