

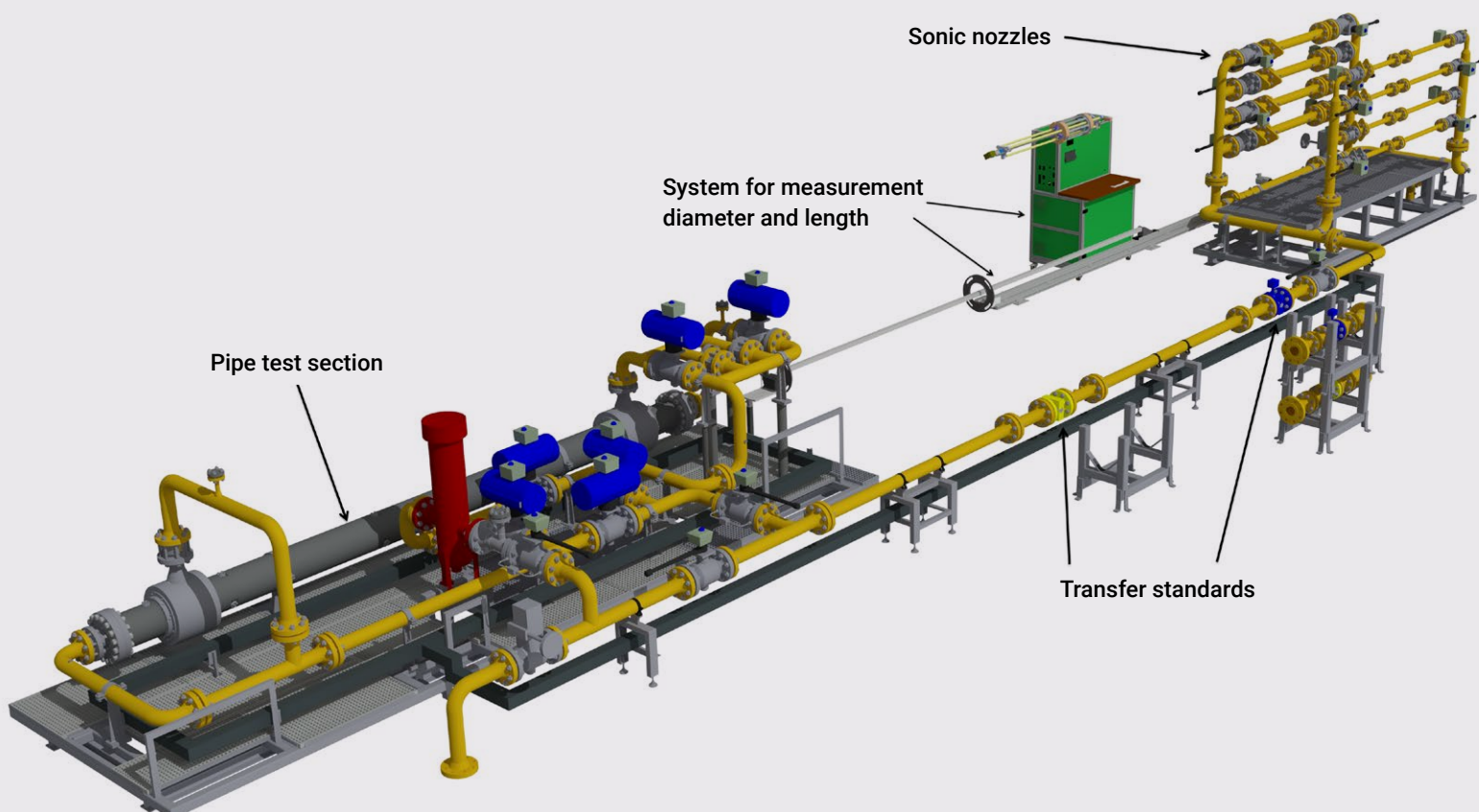
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# HPPP480 – High Pressure Piston Prover

Data Sheet EPE-145194


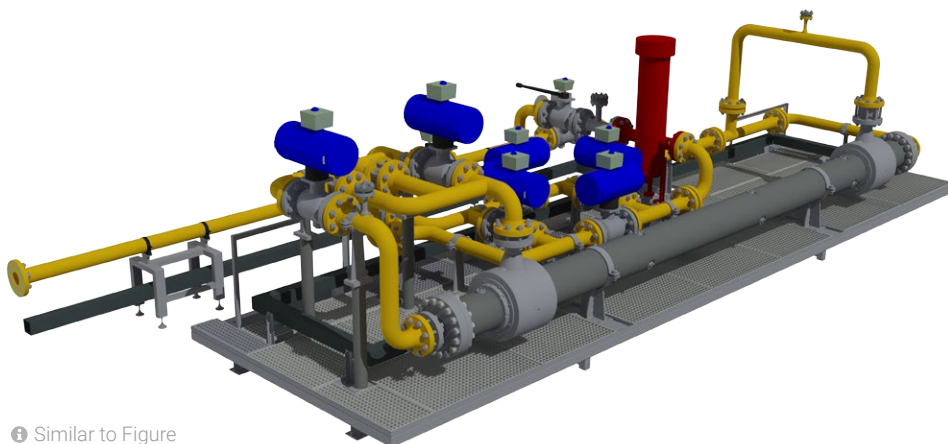


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# HPPP480 – High Pressure Piston Prover

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i Similar to Figure

## Primary standard with integrated nozzle register for natural gas up to 100 bar / Volume flow 480 m³/h


Nozzle register for flow stabilization / Reference gas meter and nozzle register as secondary standards

### Technical Data

Medium	Natural gas
Pressure range	Max. 100 bar
Temperature range	12°C...25°C
Volume flow	8...480 m³/h
Measuring tube length	6000 mm
Length of measuring range	3000 mm
Pipe diameter	250 mm
Measuring tube material	Stainless steel
Overall dimensions with nozzle register (L x W x H)	20 m x 3.2 m x 2.3 m

### Measurement uncertainties

Uncertainty of geometrical calibrated volume:	≤ 0.02% (k=2)
Uncertainty of the secondary standard (G250) Without calculating of secondary effects	≤ 0.1% (k=2)
Uncertainty of the secondary standard (G250) With calculation of secondary effects	≤ 0.07% (k=2)

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

### Description

The device serves as a standard for the calibration of gas meters of natural gas. The supply of natural gas occurs directly from a pipeline. The gas used for calibration is then fed back into the pipeline. The system consists of the piston prover as a primary standard. Sonic nozzles for flow stabilization and as secondary standard. Turbine meters as reference standards. The piston prover is traceable to the sizes both in terms of length and time. The system is optionally equipped with a calibration device for the diameter and length of the measuring tube.

### Benefits

- ✓ High-precision calibration standard: Uncertainty up to ≤ 0.07% (k=2)
- ✓ Variable calibration pressure up to 100 bar
- ✓ Traceability to the SI units in length and time

### Options

- ✓ Nozzle register with calibration as a secondary standard
- ✓ Calibration set-up for diameter
- ✓ Calibration set-up for length
- ✓ Gas temperature control



### Special solutions Application examples:



#### Gas- und Flowmesstechnik:

High-precision calibration of flow meters for natural gas

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For special requirements we are happy to advise you. Subject to change. / EPE-145194 / Last update: 11/2016 / V01  
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