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# Bidirectional high-pressure calibration facility for gas meters



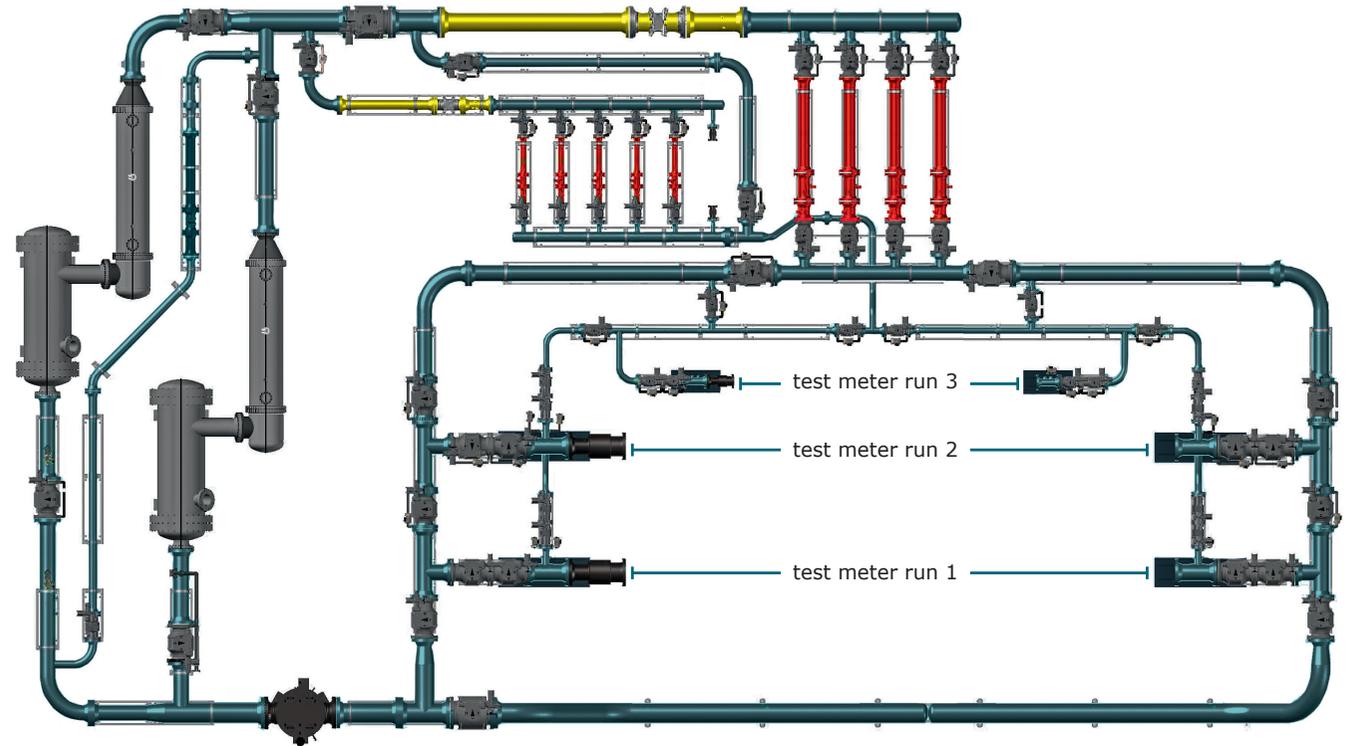
# High-pressure calibration facility for gas meters

The qbig GmbH, a subsidiary of the Gastransport Nord GmbH, builds a new high-pressure calibration facility for gas meters in the north west of Germany.

The unique selling point of this calibration facility is that meters with a diameter up to 20" and a pressure range from 8 up to 55 bar can be tested bidirectionally in one setting. This results in a significant reduction of the calibration time of bidirectionally operated meter runs as used in underground storage.

The calibration facility is manufacturer independent and is used for testing, verification and calibration of turbine gas meters and ultrasonic gas meters.

It will be a state-approved test facility. Additionally, it will be accredited according to DIN EN ISO/IEC 17025. The reference standards will be derived from the European standard for high-pressure natural gas of the Federal Institute of Physics and Metrology (PTB).



## Key facts

### Pressure range:

$p_{\min}$  8 bar absolute up to  $p_{\max}$  55 bar absolute

### Flow rate:

$Q_{\min}$  13 m<sup>3</sup>/h up to  $Q_{\max}$  11.200 m<sup>3</sup>/h

$Q_{\max}$  16.000 m<sup>3</sup>/h at a reduced pressure a flow rate

### 3 test meter runs:

2 x 16" / 20" (max. length 14,5 m)

1 x 6" (max. length 8 m)

### Bidirectional operation

- † Calibration of meters up to 20"
- † High flexibility by version as a closed loop with direct connection to the high-pressure natural gas grid
- † Permanent online check of the working standards with ultrasonic meters
- † Direct verification of the working standards against each other in the test bench
- † Return of the test gas into the local gas distribution