

Technical Rule – Technical Standard **DVGW G 469 (A)** July 2019

Pressure Testing Procedures Gastransmission/Gasdistribution

Druckprüfverfahren Gastransport/Gasverteilung

GAS

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DVGW German Technical and Scientific Association for Gas and Water

Josef-Wirmer-Straße 1–3

D-53123 Bonn

Phone: +49 228 9188-5

Fax: +49 228 9188-990

Email: info@dvwg.de

Internet: www.dvgw.de

Reprinting and photomechanical reproduction, also of excerpts, is only permitted with the approval of the DVGW e. V., Bonn.

Distribution: Wirtschafts- und Verlagsgesellschaft Gas und Wasser mbH, Josef-Wirmer-Str. 3, D-53123 Bonn

Phone: +49 228 9191-40 · Fax: +49 228 9191-499

Email: info@wvgw.de · Internet: shop.wvgw.de

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Preface

This standard has been revised by the project group “Gas Distribution” in collaboration with the project group “Gas Transportation Pipelines”. This standard contains, as do previous versions, an updated compilation of pressure testing procedures applicable for pipelines and installations involved in the supply of gas and their process descriptions.

After finishing the construction of a pipeline or installation, a pressure test must be implemented to verify that the pipeline or facility is suitable to operate with the intended operating pressure.

For pipelines and facilities that fall within the scope of the High-Pressure Gas Pipeline Ordinance (Verordnung über Gashochdruckleitungen; GasHDrLtGV, the design pressure (DP) is relevant for the specification of the test pressure. For all other pipelines and installations, the test pressure is based on the maximum allowable operating pressure (MAOP).

The commissioning of pipelines and facilities without proof of a successfully completed pressure test is not permissible. Which of the pressure test procedures described in this standard is implemented and which person is authorized for the acceptance of the pressure test, is determined by the DVGW Technical Rules, with reference to this standard, for the commissioning and operation of pipelines and gas supply facilities.

With this revision of standard G 469, the version of June 2010 is updated to the current state of the art with respect to the functional requirements of DIN standard EN 12327. For test procedures described as „pneumatic precision pressure measurement procedures”, the conditions for the use of mechanical and electronic pressure and temperature gauges have been described more precisely.

This technical standard supersedes DVGW Technical Standard G 469 from June 2010.

Revisions

Compared to DVGW Standard G 469:2010-06 the following revisions have been made:

- a) Introduction of pneumatic negative pressure test E 3
- b) Additional information on gauge pressure sensors used in precision pressure measuring procedure C 3
- c) More extensive specification of the test pressure for pneumatic test procedure A 3 – visual inspection
- d) Additional information for visual inspection with gas A 4.
- e) The execution of a pressure relief test for method of measurement C 3 is no longer compulsory.

Earlier Versions

DVGW G 469:1977-10

DVGW G 469:1987-07

DVGW G 469:2010-06