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Technical Rule - Standard **DVGW G 280 (A)** December 2018

Odorization of Gases

Gasodorierung

GAS

The DVGW is the technical and scientific association of gas and water engineers and comprises approximately 14,000 members. For more than 150 years, the DVGW has been setting the technical standards for the safe, secure and reliable supply of gas and water, actively initiating the exchange of ideas and information in the gas and water sectors and encouraging and promoting on-going progress in the sectors through practical guidance.

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- While the DVGW Set of Rules is not the only source of knowledge when looking for professional solutions, it does constitute an important source of such knowledge. It cannot however cover all possible special cases that may require more comprehensive or restrictive measures.

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Preface

This Code of Practice has been developed by the project group "Revision G 280" within the Technical Committee "Gaseous Fuels". It serves as the basis for the odorization of gases for the supply of the general public.

Based on DVGW Information "Gas" No. 20 and on research results concerning the influence of odorants during the injection of conditioned biogases, DVGW's Technical Committee "Gaseous Fuels" has decided to revise DVGW Code of Practice G 280.

The user receives information about odorization, safety measures and odorization technology as well as the control thereof. Furthermore, the DVGW Code of Practice contains an overview of ordinances, standards and provisions that apply in conjunction with this Code of Practice and shall be taken into account for the transportation and handling of odorants.

Section 9 replaces DVGW Notice G 280-2 and is meant to be practical guide for operators of gas networks who are about to use a different odorant for the gas to be distributed.

The analytical determination/check of odorant concentrations in natural gas requires the usage of test gases. Section 10 represents a consistent foundation for handling such test gases and replaces DVGW Notice G 280-3. Section 10 provides the user with information on the handling of test gases and requirements for test gases as well as a list of test gases for possible usage.

This Code of Practice supersedes DVGW Code of Practice G 280-1 (July 2012) as well as DVGW Notice G 280-2 (August 2004), DVGW Notice G 280-3 (May 2008) and DVGW Information "Gas" No. 20 (May 2015)

Revisions

Compared to DVGW Code of Practice G 280-1:2012-07, the following changes have been made:

This present version of the DVGW Code of Practice represents an almost complete revision. Specifically,

- the information contained in DVGW Information Gas No. 20 has been largely incorporated and can be found mainly in Section 6.
- the specifications of DVGW Notice G 280-2 (2004) have been incorporated as Section 9.
- the specifications of DVGW Notice G 280-3 (2008) have been incorporated as Section 10.
- aspects resulting from the injection of gases from renewable resources have been added.
- The sample safety operating instructions for the individual odorants have been removed; these are provided by the manufacturers or distributors of the odorants.

Earlier Versions

DVGW G 280 (1971, 1980, 1990, 1999)

DVGW G 280-1 (2004, 2012-07)

DVGW G 280-2 (2004)

DVGW G 280-3 (2008)

Passed by

DVGW Technical Committee: Gaseous Fuels
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