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Technical Rule – Standard **DVGW W 123** September 2001

Construction and Casing of Vertical Filter Wells

WATER

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Preamble

This Code of Practice has been prepared by the DVGW Technical Committee on "Water Abstraction". It shall serve as the basis for the construction and casing of vertical filter wells.

Given the importance of the safe and hygienic provision of drinking water, the construction and casing of vertical filter is of special significance. Today, important quality parameters of vertical filter wells are, among others, an extended service life, optimum yield, safe functioning (such as safe sealing), ease of regeneration, rehabilitation and well decommissioning.

With respect to the objective of constructing technically mature well in the economically most efficient manner, such quality requirements and standards have been missing in the DVGW set of rules until today.

This Code of Practice deals with the state-of-the-art construction and casing of vertical filter wells and the necessary prerequisites. Additionally, it also covers some aspects of well operation with the aim of achieving maximum service life and thus also an economically efficient mode of operation among other objectives.

This Code of Practise is intended to give guidance to clients, planners, construction supervisors and contractors, especially during the construction process, but also to operators during the later phase of operation. Last but not least, it aims at facilitating an understanding of the requirements of supervising authorities and at showing the latter the possibilities and constraints inherent in a particular site.

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DVGW German Technical and Scientific Association for Gas and Water