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Technical Rule – Code of Practice

DVGW W 402 (A) | September 2010



Network and failure statistics – Collection and processing
of data for the maintenance of water distribution systems

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Foreword

This Code of Practice has been elaborated by the DVGW W 402 project group within the Technical Committee on “Plant and system management”.

It describes how to collect and process reliable inventory, condition and environmental data about water distribution systems. Condition data notably include data on damages especially failures. These data shall serve mainly as a basis for systematic maintenance in accordance with DVGW W 400-3 (A) and DVGW W 403 (M).

Reliable failure statistics are of particular significance in this context as they serve to predict failure and failure rates and, consequently, determine the residual service lives. This Code of Practice supersedes Instruction Bulletin W 395 dated July 1998.

The term “asset” has been added here and there in order to harmonise this document with DVGW G 402, which was produced at the same time.

Amendments

The following amendments have been made vis-à-vis DVGW Instruction Bulletin W 395:1998-07:

Complete revision including

- a) A revision of the DVGW failure statistics, now extended to different generations of material
- b) Addition of DVGW network statistics
- c) Addition of definitions

d) Addition of a systemised data volume, data capture and data processing scheme

Earlier Editions

DVGW W 395:1998-07