

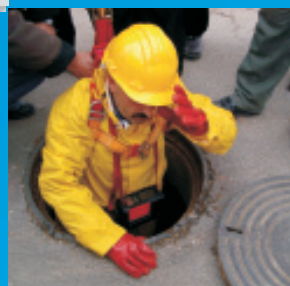
International Activities

www.dwa.de



Publications • Capacity Development

2009



DWA German Association for Water, Wastewater and Waste

Three letters that stand for the experience and competence of its members – in wastewater treatment plants, in planning and production, in research and administration.

For 60 years, the DWA – formerly the ATV and DVWK – has devoted its efforts to developing safe and sustainable water management. Politically and economically independent, DWA works in the fields of water management, wastewater, waste and soil conservation.

The number of its members makes the DWA one of the largest organizations in this field in Europe, and its special expertise and competence give it a prominent place in standardization, professional training and public information. Its 14,000 members represent the specialists and managers of municipalities, universities, engineering offices, authorities and industry.

The main activities are the preparing and updating of the DWA Rules and Standards and engaging in national and international cooperation to draft special standards. This work not only refers to technical and scientific issues, but also to the economic and legal aspects of environmental and water protection.



International Activities



Publications • Capacity Development

2009

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Electronic Media

German DWA Rules and Standards –
English Version on CD-ROM



English translations of significant publications of the DWA Set of Rules and Standards

78 Standards and Advisory Leaflets in pdf format (single user)

Edition March 2009

*€ 690,00



This CD-ROM contains 73 Standards and Advisory Leaflets, laying out the Set of Rules and Standards of the DWA, and 5 Topics, which are currently available in English. The intention is to provide English speaking specialists a picture of how, in Germany, technical standards on technical-scientific subjects are elaborated and combined into a

common set of rules and standards. The technical standards present technical solutions in accordance with German legislation. The German Set of Rules and Standards offers the user operating abroad comprehensive information on and approaches to solutions, taking into account adaptability in respect of national laws within other countries.

Update 2009

Only for customers of the May 2008 Version

Edition March 2009



*€ 90,00

German DWA Rules and Standards –
Arabic Version on CD-ROM

Arabic translations of significant publications of the DWA Set of Rules and Standards

24 Standards and Advisory Leaflets at pdf format
(single user)

Edition April 2008

*€ 250,00

Drain and Sewer Systems



ATV-A 105E

Selection of the Drainage System

December 1997, 15 pages, DIN A4

ISBN 978-3-934984-01-1

*€ 34,50

ATV-A 106E

Design and Construction of Wastewater Treatment Facilities

October 1995, 29 pages, DIN A4

ISBN 978-3-934984-02-8

*€ 26,00

ATV-DVWK-A 110E

Hydraulic Dimensioning and Performance Verification of Sewers and Drains

September 2001, 79 pages, DIN A4

ISBN 978-3-936514-30-8

*€ 45,50

(New German version available: DWA-A 110, August 2006)

ATV-A 111E

Standards for the Hydraulic Dimensioning and the Performance Verification of Stormwater Overflow Installations in Sewers and Drains

February 1994, 44 pages, DIN A4

ISBN 978-3-934984-04-2

*€ 26,00

ATV-A 115E

Discharge of Non-domestic Wastewater into a Public Wastewater System

October 1994, 27 pages, DIN A4

ISBN 978-3-934984-06-6

*€ 39,50

(New German version available: DWA-M 115-1, November 2004;
DWA-M 115-2, July 2005; ATV-DVWK-M 115-3, August 2004)

DWA-A 116-1E

Special Sewerage Systems

Part 1: Vacuum Sewerage Systems Outside Buildings

March 2005, 29 pages, DIN A4

ISBN 978-3-939057-46-8

*€ 38,00

DWA-A 116-2E

Special Sewerage Systems

Part 2: Pressure Sewerage Systems Outside Buildings

May 2007, 27 pages, DIN A4

ISBN 978-3-940173-54-6

*€ 38,00

DIN EN 1091 / DWA-A 116-1E

Vacuum Sewerage Systems Outside Buildings / Special Sewerage Systems,

Part 1: Vacuum Sewerage Systems Outside Buildings

April 2005, 55 pages, DIN A4

ISBN 978-3-940173-66-9

*€ 75,00

DIN EN 1671 / DWA-A 116-2E

Pressure Sewerage Systems Outside Buildings / Special Sewerage Systems,

Part 2: Pressure Sewerage Systems Outside Buildings

September 2007, 42 pages, DIN A4

ISBN 978-3-940173-67-6

*€ 60,00

DWA-A 117E

Dimensioning of Stormwater Holding Facilities

April 2006, 34 pages, DIN A4

ISBN 978-3-940173-30-0

*€ 42,00



In order to reduce the amount of runoff caused by precipitation, in many cases, the temporary storage of rainwater and combined wastewater in stormwater holding facilities is necessary to protect the drainage systems from overloading and/or limit their dimensions. In this context, in view of the high investment costs, an assessment of stormwater holding facilities in line with economic aspects is of the utmost significance. This Standard offers two options for determining the volume of stormwater holding facilities: dimensioning based on



statistical precipitation data with the simplified procedure for small and simply structured drainage systems, and dimensioning based on long-term precipitation-drainage simulation for all cases of application. Standard DWA-A 117 has been editorially revised with specific regard to the adaptation of the abbreviations to the requirements of the Standard ATV-DVWK-A 198, and is mainly aimed at planning engineers.

DWA-A 118E

Hydraulic Dimensioning and Verification of Drainage Systems

March 2006, 35 pages, DIN A4

ISBN 978-3-940173-51-5

*€ 52,00



This DWA Standard concerns the dimensioning and verification of drain and sewer systems, which are mainly operated as gravity systems and which serve for the discharge of domestic and industrial wastewater, surface water and combined wastewater. It contains guidance for determining the quantities of wastewater to be discharged, taking into account both the replanning and the recalculation of existing systems. The appendix includes helpful examples which present in detail the difficulties involved in determining the

precipitation runoff on which the dimensioning is based. The validity range of the Standard extends in accordance with DIN EN 752 from the point where the wastewater leaves the building or roof drainage system or flows into a road drain inlet to the point where the wastewater is discharged into a treatment plant or receiving waters. It is primarily aimed at planning engineers and authorities.

ATV-A 125E

Pipe Driving

September 1996, 48 pages, DIN A4

ISBN 978-3-934984-14-1

*€ 26,50

(New German version available: DWA-A 125, December 2008, English version in preparation)

ATV-A 128E

Standards for the Dimensioning and Design of Stormwater Structures in Combined Sewers

April 1992, 74 pages, DIN A4

ISBN 978-3-934984-17-2

*€ 47,00

ATV-DVWK-A 134E

Planning and Construction of Wastewater Pumping Stations

June 2000, 49 pages, DIN A4

ISBN 978-3-937758-45-9

*€ 45,50

DWA-A 138E

Planning, Construction and Operation of Facilities for the Percolation of Precipitation Water

April 2005, 60 pages, DIN A4

ISBN 978-3-937758-74-9

*€ 43,00

ATV-DVWK-A 139E

Installation and Testing of Drains and Sewers

June 2001, 40 pages, DIN A4

ISBN 978-3-935669-81-8

*€ 27,50

DIN EN 1610 / ATV-DVWK-A 139E

Construction and Testing of Drains and Sewers / Installation and Testing of Drains and Sewers

January 2002, 60 pages, DIN A4

ISBN 978-3-935669-92-4

*€ 75,00

ATV-DVWK-A 142E

Sewers and Drains in Water Catchment Areas

November 2002, 16 pages, DIN A4

ISBN 978-3-937758-42-8

*€ 26,50

ATV-A 147E

Operating Expenditure for the Sewer System Part 1: Operating Tasks and Intervals

May 1993, 20 pages, DIN A4

ISBN 978-3-934984-27-1

*€ 20,50

(New German version available: DWA-A 147, April 2005)

Part 2: Requirement for Personnel, Vehicles and Equipment

March 1995, 23 pages, DIN A4

ISBN 978-3-934984-28-8

*€ 26,00

(New German version available: DWA-M 174, October 2005)

ATV-DVWK-A 157E

Sewer System Structures

November 2000, 32 pages, DIN A4

ISBN 978-3-937758-46-6

*€ 34,50

ATV-A 161E

Structural Calculation of Driven Pipes

January 1990, 90 pages, DIN A4

ISBN 978-3-934984-30-1

*€ 38,00

ATV-A 163E

Indirect Discharge, Part 1: Registration

November 1992, 20 pages, DIN A4

ISBN 978-3-934984-31-8

*€ 38,00

(New German version available: DWA-M 115-1, November 2004; DWA-M 115-2, July 2005; ATV-DVWK-M 115-3, August 2004)

ATV-DVWK-A 198E

Standardisation and Derivation of Dimensioning Values for Wastewater Facilities

April 2003, 50 pages, DIN A4

ISBN 978-3-924063-63-4

*€ 40,50

ATV-DVWK-A 199-1E

Service and Operating Instructions for the Personnel of Wastewater Systems

Part 1: Service Instructions for the Personnel of Wastewater Systems

July 2002, 27 pages, DIN A4

ISBN 978-3-940173-18-8

*€ 43,00



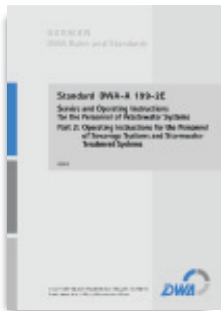
DWA-A 199-2E

Service and Operating Instructions for the Personnel of Wastewater Systems Part 2: Operating Instructions for the Personnel of Sewerage Systems and Stormwater Treatment Facilities

July 2007, 40 pages, DIN A4
ISBN 978-3940173-31-7



*€ 39,00



The operating instructions contain details on the implementation of the regular operation and for the mastering of specific operating conditions as well as for maintenance. They are directed from the operator towards the employees and, with the limitation of tasks and responsibilities, take into account the provisions of service instructions. Through the creation and employment of operating instructions a correct, secure and economic operation of all process stages and plant components

is to be guaranteed. Standard DWA-A 199-2E describes the minimum contents of operating instructions for the personnel of sewerage systems and stormwater treatment systems which, independent of the respective organisational and corporate structure of the operator, are to be complied with.

DWA-A 199-3E

Service and Operating Instructions for the Personnel of Wastewater Systems Part 3: Operating Instructions for the Personnel of Wastewater Pumping Installations

June 2007, 48 pages, DIN A4
ISBN 978-3940173-32-4



*€ 48,00

DWA-A 199-4E

Service and Operating Instructions for the Personnel of Wastewater Systems Part 4: Operating Instructions for the Personnel of Wastewater Treatment Plants

August 2006, 79 pages, DIN A4
ISBN 978-3-940173-19-5

*€ 57,00

ATV-A 200E

Principles for the Disposal of Wastewater in Rurally Structured Areas

May 1997, 31 pages, DIN A4
ISBN 978-3-934984-32-5

*€ 34,50

ATV-M 101E

Planning of Drain and Sewer Systems; New Construction, Rehabilitation and Replacement

May 1996, 37 pages, DIN A4
ISBN 978-3-934984-38-7

*€ 40,50

ATV-DVWK-M 127E

Part 2: Static Calculation for the Rehabilitation of Drains and Sewers Using Lining and Assembly Procedures - Supplement to Standard ATV-A 127E

January 2000, 86 pages, DIN A4
ISBN 978-3-924063-50-4

*€ 50,00

ATV-M 143E

Inspection, Repair, Rehabilitation and Replacement of Sewers and Drains Part 1: Principles

December 1989, 15 pages, DIN A4
ISBN 978-3-934984-40-0

*€ 19,50

(New German version available: ATV-DVWK-M 143-1, August 2004)

Part 2: Optical Inspection

April 1999, 27 pages, DIN A4
ISBN 978-3-934984-41-7

*€ 26,50

(New German version available: DWA-M 149-2, November 2006)

Part 3: Relining

April 1993, 12 pages, DIN A4
ISBN 978-3-934984-42-4

*€ 20,50

(New German version available: DWA-M 143-3, November 2005)

Part 6: Leak Testing of Existing, Earth Covered Sewers and Drains and Shafts Using Water, Air Overpressure and Vacuum

June 1998, 16 pages, DIN A4
ISBN 978-3-934984-43-1

*€ 26,50

DWA-M 143-14E

Rehabilitation of Drain and Sewer Systems Outside Buildings

Part 14: Rehabilitation Strategies

November 2005, 30 pages, DIN A4
ISBN 978-3-939057-26-0

*€ 33,00

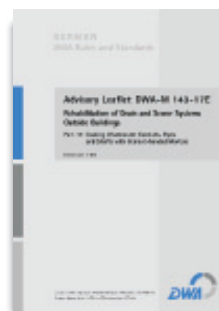
DWA-M 143-17E

Rehabilitation of Drain and Sewer Systems Outside Buildings

Part 17: Coating Wastewater Conduits, Pipes and Shafts with Cement-bonded Mortars

December 2006, 32 pages, DIN A 4
ISBN 978-3-941089-24-2

*€ 32,00



This Advisory Leaflet deals with coating procedures using mineral cement-bonded mortars in wastewater pipes, sewers and shafts and other installations, called „drain and sewer systems“ in the following. It may apply to accessible and non-accessible buried pipes and sewers from DN 100 upwards, from the point where wastewater leaves the building or the guttering system or flows into a street outlet, up to the point where the wastewater is channelled into a treatment plant or into the receiving water

course. It may also be broadly applicable in the realm of drain and sewer systems. It does not apply to cement-free mortars, or reaction resin mortars. The coating mortars covered here are used for subsequent coating of concrete and brickwork, as well as pipes made of cast iron, steel and fibro-cement in all situations.



DWA-M 143-20E

Rehabilitation of Drain and Sewer Systems Outside Buildings Part 20: Testing and Evaluation of Rehabilitation Methods; Requirements, Test Criteria and Test Recommendations – Cured-in-place Pipes and Short Liners

November 2005, 31 pages, DIN A4
ISBN 978-3-939057-27-7

*€ 33,00

ATV-DVWK-M 145E

Setting-up and Application of Sewer Information Systems

November 2000, 16 pages, DIN A4
ISBN 978-3-937758-43-5

*€ 21,00

ATV-M 146E

Implementation Examples for ATV-Standard A 142 „Sewers and Drains in Water Catchment Areas“

April 1995, 25 pages, DIN A4

ISBN 978-3-934984-44-8

*€ 26,00

(New German version available: ATV-DVWK-M 146, May 2004)

ATV-M 149E

Recording, Classification and Assessment of the Condition of Drainage Systems Outside Buildings

April 1999, 39 pages, DIN A4

ISBN 978-3-935067-30-0

*€ 34,50

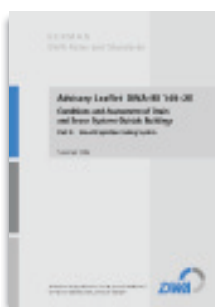
DWA-M 149-2E

Conditions and Assessment of Drain and Sewer Systems Outside Buildings Part 2: Visual Inspection Coding System

November 2006, 53 pages, DIN A4

ISBN 978-3-939057-91-8

*€ 46,00



This Advisory Leaflet applies in conjunction with DIN EN 13508-2 for visual internal inspection, i.e. the qualitative determination of the actual status of sewer systems or their components, such as drains and sewers, manholes and inspection chambers including private property drainage within the framework of maintenance. Inspections of local drainage structures or their components can be carried out analogously where applicable. This, along with any additional application instructions necessary,

is decided by the contracting authority. In the interests of uniform implementation, it includes recommendations on the application of DIN EN 13508-2 by the contracting authority. In order to facilitate application by the user, the structure corresponds to that of DIN EN 13508-2.

ATV-M 167E

Interceptors and Backwater Prevention Devices with Private Sewerage Systems, Installation and Operation

July 1995, 27 pages, DIN A4

ISBN 978-3-934984-45-5

*€ 39,50

(New German version available: DWA-M 167, Parts 1 to 5, December 2007)

ATV-M 168E

Corrosion of Wastewater Systems – Wastewater Discharge

July 1998, 51 pages, DIN A4

ISBN 978-3-934984-46-2

*€ 34,50

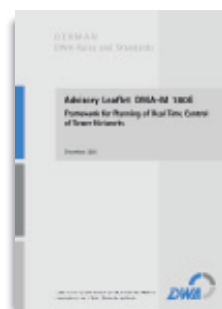
DWA-M 180E

Framework for Planning of Real Time Control of Server Networks

December 2005, 51 pages, DIN A4

ISBN 978-3-939057-28-4

*€ 45,00



This Advisory Leaflet introduces the basic aspects of real time control to potential users and presents a sound level of knowledge to those planners, operators and administrations involved in the development of real time control systems. The Advisory Leaflet aims to achieve the use of real time control as a potential alternative on a regular basis in future planning of drainage schemes. This includes simple local control systems as well as complex structured interconnected control systems. The necessary steps

along the planning process are shown and explained. The Advisory Leaflet discusses significant questions in the context of real time control concerning sewage discharge, stormwater treatment in separate sewers (overflow of contaminated fraction into combined sewers) and sewage treatment in combined sewage networks.

ATV-DVWK-M 197E

Invitation to Tender for Sewer Cleaning Services Using the High Pressure Flushing Process

June 2004, 36 pages, DIN A4

ISBN 978-3-937758-56-5

*€ 34,00

Manual

The Construction Site Manual for the Construction of Drains and Sewers

2nd, revised edition, 77 pages,

stiff paper cover, DIN A5

*€ 36,00

Municipal Wastewater Treatment



ATV-A 106E

Design and Construction of Wastewater Treatment Facilities

October 1995, 29 pages, DIN A4

ISBN 978-3-934984-02-8

*€ 26,00

ATV-A 115E

Discharge of Non-domestic Wastewater into a Public Wastewater System

October 1994, 27 pages, DIN A4

ISBN 978-3-934984-06-6

*€ 39,50

(New German version available: DWA-M 115-1, November 2004; DWA-M 115-2, July 2005; ATV-DVWK-M 115-3, August 2004)



ATV-A 122E

Principles for Dimensioning, Construction and Operation of Small Sewage Treatment Plants with Aerobic Biological Purification Stage for Connection Values between 50 and 500 Total Number of Inhabitants and Population Equivalents

June 1991, 20 pages, DIN A4

ISBN 978-3-934984-11-0

*€ 19,50

ATV-A 123E

Treatment and Disposal of Sludge from Small Sewage Treatment Plants

June 1985, 30 pages, DIN A4

ISBN 978-3-934984-12-7

*€ 19,50

(New German version available: DWA-A 280, October 2006)

ATV-A 126E

Principles for Wastewater Treatment in Sewage Treatment Plants according to the Activated Sludge Process with Joint Sludge Stabilisation with Connection Values between 500 and 5,000 Total Number of Inhabitants and Population Equivalents

December 1993, 20 pages, DIN A4

ISBN 978-3-934984-15-8

*€ 20,50

ATV-DVWK-A 131E

Dimensioning of Single-Stage Activated Sludge Plants

May 2000, 54 pages, DIN A4

ISBN 978-3-935669-96-2

*€ 44,50

Software on CD-ROM

Activated Sludge-Expert – Software for Standard ATV-DVWK-A 131E

„Dimensioning of Single-Stage Activated Sludge Plants“

ISBN 978-3-936514-20-9

*€ 180,00

ATV-A 163E

Indirect Discharge, Part 1: Registration

November 1992, 20 pages, DIN A4

ISBN 978-3-934984-31-8

*€ 38,00

(New German version available: DWA-M 115-1, November 2004; DWA-M 115-2, July 2005; ATV-DVWK-M 115-3, August 2004)

ATV-DVWK-A 198E

Standardisation and Derivation of Dimensioning Values for Wastewater Facilities

April 2003, 50 pages, DIN A4

ISBN 978-3-924063-63-4

*€ 40,50

ATV-DVWK-A 199-1E

Service and Operating Instructions for the Personnel of Wastewater Systems

Part 1: Service Instructions for the Personnel of Wastewater Systems

July 2002, 27 pages, DIN A4

ISBN 978-3-940173-18-8

*€ 43,00

DWA-A 199-2E

Service and Operating Instructions for the Personnel of Wastewater Facilities
Part 2: Operating Instructions for the Personnel of Sewerage Systems and Stormwater Treatment Facilities

July 2007, 40 pages, DIN A4

ISBN 978-3940173-31-7

*€ 39,00



DWA-A 199-3E

Service and Operating Instructions for the Personnel of Wastewater Systems
Part 3: Operating Instructions for the Personnel of Wastewater Pumping Installations

June 2007, 48 pages, DIN A4

ISBN 978-3940173-32-4

*€ 48,00



DWA-A 199-4E

Service and Operating Instructions for the Personnel of Wastewater Systems
Part 4: Operating Instructions for the Personnel of Wastewater Treatment Plants

August 2006, 79 pages, DIN A4

ISBN 978-3-940173-19-5

*€ 57,00

ATV-A 200E

Principles for the Disposal of Wastewater in Rurally Structured Areas

May 1997, 31 pages, DIN A4

ISBN 978-3-934984-32-5

*€ 34,50

ATV-A 201E

Principles for Dimensioning, Construction and Operation of Wastewater Lagoons for Communal Wastewater

October 1989, 7 pages, DIN A4

ISBN 978-3-934984-33-2

*€ 19,50

(New German version available: DWA-A 201, August 2005)

ATV-DVWK-A 202E

Chemical-Physical Methods for the Removal of Phosphorus from Wastewater

April 2004, 25 pages, DIN A4

ISBN 978-3-937758-55-8

*€ 24,00

ATV-A 203E

Wastewater Filtration Using Space Filters following Biological Treatment

April 1995, 18 pages, DIN A4

ISBN 978-3-934984-34-9

*€ 26,00

ATV-A 257E

Principles for the Dimensioning of Wastewater Lagoons and In-line Biological Filters or Biological Contactors

October 1989, 8 pages, DIN A4

ISBN 978-3-934984-36-3

*€ 19,50

(New German version available: DWA-A 201, August 2005)



ATV-A 262E

Principles for the Dimensioning, Construction and Operation of Plant Beds for Communal Wastewater with Capacities up to 1000 Total Number of Inhabitants and Population Equivalents

July 1998, 12 pages, DIN A4

ISBN 978-3-934984-37-0

*€ 21,00

(New German version available: DWA-A 262, March 2006)

ATV-DVWK-A 281E

Dimensioning of Tricking Filters and Rotating Biological Contactors

September 2001, 24 pages, DIN A4

ISBN 978-3-937758-36-7

*€ 27,50

DWA-A 704E

Operating Methods for Wastewater Analysis

April 2007, 69 pages, DIN A4

ISBN 978-3-939057-71-0

*€ 62,00



In order to reduce the total analytic effort in the self-monitoring of municipal and industrial wastewater treatment systems, so-called operating methods were developed. By regulative measures, they allow to respond to operational requirements at short notice. The Standard shows how personnel employed at a public or industrial wastewater system could apply the operating methods for self-monitoring reliably and safely. The objective is the standardization of the boundary conditions, systematic documentation of measurement

results as well as quality assurance. By means of sample cards (IQC-Cards), filled-in examples of municipal and industrial wastewater systems as well as detailed descriptions, the Standard gives the user help with the implementation. The eleven IQC-Cards represent modules, which can be arranged individually depending on the requirements of the system concerned.

ATV-M 204E

Status and Application of Emission Reduction Technology with Sewage Treatment Plants - Odours, Aerosols

October 1996, 78 pages, DIN A4

ISBN 978-3-934984-47-9

*€ 40,50

ATV-M 205E

Disinfection of Biologically Treated Wastewater

July 1998, 34 pages, DIN A4

ISBN 978-3-934984-48-6

*€ 26,50

ATV-DVWK-M 206E

Automation of Chemical Phosphate Removal

November 2001, 23 pages, DIN A4

ISBN 978-3-937758-63-3

*€ 43,50

ATV-M 209E

Measurement of the Oxygen Transfer in Activated Sludge Aeration Tanks with Clean Water and in Mixed Liquor

June 1996, 54 pages, DIN A4

ISBN 978-3-934984-50-9

*€ 26,50

(New German version available: DWA-M 209, April 2007)

ATV-DVWK-M 265E

Regulation of Oxygen Transfer with the Activated Sludge Process

March 2000, 25 pages, DIN A4

ISBN 978-3-937758-64-0

*€ 23,00

ATV-M 268E

Control and Regulation of N-Elimination using the Activated Sludge Process

February 1997, 26 pages, DIN A4

ISBN 978-3-934984-57-8

*€ 26,50

(New German version available: DWA-M 268, June 2006)

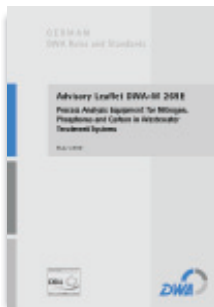
DWA-M 269E

Process Analysis Equipment for Nitrogen, Phosphorus and Carbon in Wastewater Treatment Systems

March 2008, 51 pages, DIN A4

ISBN 978-3-941089-39-6

*€ 46,00



This Advisory Leaflet applies for process analysis equipment for recording nitrogen and phosphorus compounds as well as organic carbon loads in wastewater treatment plants. The sum parameters BOD, COD, TOC, DOC and SAC were considered for the analysis of carbon compounds. As a basis for decision making for manufacturers, planners, operators and public authorities, this Advisory Leaflet provides information on reliable operation of analysers and corresponding peripheral

devices. All statements in principle, are valid for municipal as well as industrial wastewater treatment plants, restrictions for special cases are pointed out.

ATV-M 273E

Feeding and Introduction of Residual Matter from Water Supply Facilities into Wastewater Facilities

August 1999, 25 pages, DIN A4

ISBN 978-3-935067-38-6

*€ 26,50

ATV-DVWK-M 275E

Pipelines for the Area of Technical Installations of Wastewater Treatment Plants

May 2001, 38 pages, DIN A4

ISBN 978-3-937758-73-2

*€ 26,50

DWA-Topics

Anthropogenic Trace Pollutants in the Water Cycle – Pharmaceuticals

May 2008, 86 pages, DIN A4

ISBN 978-3-941089-51-8

*€ 64,00



Modern methods for water analysis make it possible to detect small concentrations of anthropogenic trace pollutants, such as e. g. pharmaceuticals and substances exhibiting hormone activity. There is no doubt that pharmaceuticals are present in our water bodies and their presence has been proven by various examples. However, natural and technical barriers guarantee that for the time being residues of anthropogenic trace pollutants in drinking water give no cause for direct health concerns. Nevertheless, immediate actions are necessary for protecting aquatic biocoenoses. This issue of DWA-



Topics describes methods for assessing ecotoxicology and human toxicology of pharmaceuticals. Requirements for technical processes and developments in drinking water production and wastewater treatment are derived from the results of these assessments. Possible approaches are discussed in this issue. In the long run however, the focus must be on measures for avoiding, eliminating and recycling of organic pollutants at the source of contamination. To achieve this, this issue of DWA-Topics introduces various strategies.

ATV Report 2.5

Sludge Removal Systems for Secondary Sedimentation Tanks of Aeration Plants

Issue 13, 1988, 12 pages, DIN A4

*€ 11,00

ATV Report 2.6.1

Prevention and Control of Bulking Sludge and Scum

Issue 13, 1989, 13 pages, DIN A4

*€ 13,00

ATV Report 2.6.1

Bulking Sludge, Floating Sludge and Foam in Activated Sludge Plants - Causes and Suppression

October 1989, 23 pages, DIN A4

*€ 11,50

Waste and Sewage Sludge



ATV-M 273E

Feeding and Introduction of Residual Matter from Water Supply Facilities into Wastewater Facilities

August 1999, 25 pages, DIN A4

ISBN 978-3-933707-17-8

*€ 26,50

ATV-DVWK-M 362-2E

Handling of Dredged Material Part 2: Case Studies

October 2004, 83 pages, DIN A4

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April 2003, 35 pages, DIN A4

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With the present DWA Topic the DWA, in the form of requirements on the essential key data, creates a common framework for benchmarking with the disposal of wastewater. Through this, on one hand, the compatibility of the key data is supported and, on the other, the flexibility and diversity of the benchmarking systems remain preserved. The resulting exemplary key data system describes one possibility of devising characteristics to meet the intentions of the DWA. With this, the

structure orients itself on the objectives of the German water industry. that is long-term security of supply and disposal, high drinking water quality and a high standard of wastewater disposal, high economic efficiency, high customer satisfaction and sustainability. These five so-called pillars represent the criteria for the evaluation of the effectiveness of the supply of water and disposal of wastewater. The exemplary key data system proposed in the Topic is already now a basic element of the comprehensive benchmarking initiatives in the DWA Regional Associations in Baden-Württemberg, Bayern and Nordrhein-Westfalen, and is also to be implemented in 2008 within the DWA Regional Association Nord.

Training and International Cooperation



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Activities relating to drinking water and wastewater services - Guidelines for the management of drinking water utilities and for the assessment of drinking water services

Original language: English

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€ 125,30

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Further Publications

DWA-Dictionary (DWA-Fachwörterbuch)

Water, Wastewater, Waste

German-English / English-German

Updated and supplemented edition 2009,
256 pages, DIN A5, ISBN 978-3-941089-48-8
(also available on CD-ROM)



*€ 49,00

Conference proceedings IFAT 2008

3rd Joint Specialty Conference

14. European Water, Wastewater and Solid Waste Symposium

Sustainable Water Management in Response to 21st Century Pressures

Proceedings Symposium No. 1

May 2008, 63 pages, abstracts english, PowerPoint presentations on CD-ROM attached, DIN A5
ISBN 978-3-940173-16-4

€ 20,00

Manual for Archimedean Screw Pump

Adviser and Decision Guidance for Planners, Owners and Decision-Makers

By Dipl.-Ing. P.J. Kantert

2008, 140 pages, 34 mostly colored figures,
12 tables, Hardcover, 24,5 x 17,5 cm,
ISBN 978-3-88721-896-6, F. Hirthammer Verlag

€ 42,00

Despite the prevalence of the screw pump, especially in wastewater treatment plants, there is little up-to-date literature. Far from being a scientific treatise, the book is intended as an independent guide. It is aimed at planners, operators and screw pump operating staff, and discusses practical problems and construction forms. For the first time, the subject of the hydrodynamic screw is also dealt with. This book enables the rough classification of existing plants and an approximation of the design of new plants. It covers the basic principles, construction characteristics, production and assembly, requirements, faults and reconstruction. Everything to do with the design, construction, operation and reconstruction of screw conveyors.

Trenchless Technology for Installation of Cables and Pipelines

by Prof. Dr.-Ing. Dietrich Stein

September 2005, 766 pages, 845 figures, 307 tables,
Hardcover, DIN A4, ISBN 978-3-00-014955-9,
Prof. Dr.-Ing. Stein & Partner GmbH

€ 120,00

Practical Guideline for the Application of Microtunnelling Methods for the Ecological, Cost-minimised Installation of Drains and Sewers

by Prof. Dr.-Ing. Dietrich Stein and Ansgar Brauer

December 2005, 111 pages, 86 predominantly
coloured figures, 26 tables, paperback cover, DIN A4
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Membrane Technology for Wastewater Treatment

Johannes Pinnekamp, Harald Friedrich (Editor)

2006, 345 pages, 259 mostly colored figures,
92 mostly colored tables, Hardcover, 28,5 x 23,5 cm,
ISBN 978-3-939377-01-6, FiW Publishing House, Aachen

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Wastewater Engineering in Question and Answer

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Michael Aldick, Gerolf Lenz, Jörg Moosburger

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The revised 11th edition of the book „Wastewater Engineering in Question and Answer“ aims at providing knowledge and practical experience to university students trainers and to enable technicians and vocational staff to carry out responsible tasks independently and to give master technicians increased competence in leadership and management. This English-language edition covers the main areas of wastewater discharge, wastewater treatment, sludge treatment, sampling and analysis. It comprises two parts: a task part and a solution one, while the diversity of the wastewater engineering subjects is given the widest cover.

Profile of the German Water Industry 2008

Issuing Associations: ATT, BDEW, DBVW, DVGW, DWA, VKU

2008, 108 pages, DIN A4

*€ 31,90

With the „Profile of the German Water Industry 2008“, the issuing associations provide for the second time a comprehensive overall picture of the efficiency of water supply and sewage disposal in Germany. Politicians, the public and all interested parties are thereby given the opportunity to extensively assess the water industry's capability, standard of performance and economic efficiency. According to the information of the associations, 750 water utility companies and 1 300 companies from the sector of waste water disposal participated voluntarily in the projects. Both the individual ratios and also whole businesses and branches were compared. In addition, processes were analysed in order to develop potential for improvement.

Brochure

Wastewater Clarified

2006, 20 pages, 20 x 20 cm

€ 1,30

Brochure

Clara clears it up

A Trip to the Underworld

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In Preparation 2009

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Guidelines of Integrated Urban Drainage (IUD)

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DWA-A 125E

Pipe jacking and related techniques

December 2008

DWA-A 133E

Valuation of Wastewater Systems - Systematic Recording, Assessment and Updating

August 2005

DWA-M 149-3E

Conditions and Assessment of Drain and Sewer Systems Outside Buildings, Part 3: Condition Classification and Assessment

November 2007

DWA-M 149-4E

Conditions and Assessment of Drain and Sewer Systems Outside Buildings, Part 4: Detection of Bedding Defects and Cavities by Means of Geophysical Techniques

Juli 2008

ATV-DVWK-M 150-1E

Data Transfer Format

Part 1: Conditions of Drain and Sewer Systems

October 2003

DWA-M 376E

Safety Regulations for Biogas Holders with Membrane Seals

Oktober 2006

DWA-M 803E

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November 2006

ATV-DVWK-M 807E

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July 2002

DWA-Topics

Guidelines for Dynamic Cost Comparison Methods (CCM-Guidelines)

7th Edition 2005

DIN EN 13508-2 / DWA-M 149-2E

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May 2007

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For further details please contact:

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Fax: +49 2242 872-100

E-Mail: kundenzentrum@dwa.de

Internet: www.dwa.de



Promotion of the Young Engineering Talent



Young Scientists' and Professionals' Programme for international Young Engineers

Since 2001 every year the "Young Scientists' and Professionals' Programmes" with 50 people take place with international events in Germany (such as IFAT, Wasser Berlin, IWA Conference), with now more than 400 international young engineers from more than 40 nations. The executives of tomorrow learn about German know-how and technology as well as about German firms, can make worldwide contacts and become members of our international network.

In 2007, 50 young international engineers learnt about the infrastructure and organisation of the German water industry in a one-week YSP programme (Meet the German Water Sector).

In 2008, the young people attended the IFAT International Trade Fair in Munich and the international EWA Symposium.



2009 is the year of the YSP Wasser Berlin-event with special focus on the water industry in Bulgaria and Romania.

2010, the YSP accompanies the IFAT Munich fair in September.

Compact Programme for German Young Engineers with Ambitions abroad

Every year the DWA offers young German engineering talent the chance, within a ten day "Compact programme for the introduction into the German water industry with international direction (emerging and developing countries)" of informing themselves at first hand via international projects as well as about careers and possibilities of entry as water specialists abroad.

Following an introductory event at the DWA, the participants travel to internationally engaged institutions of the German water industry and there talk to those responsible for projects and personnel. Institutions are for example KfW (German Reconstruction Loan Corporation), GTZ (German Corporation for Technical Cooperation), DED (German Development Service), InWEnt (Capacity Building International), consultants and equipments suppliers. They receive a well-founded overview straight from the horse's mouth, on the wide range of aspects of international work in the water sector. Offers of posts, practical and volunteer work have also developed from the open discussions on personal career planning.



Participants of the Compact Programme 2007 in front the building of BfG (Federal Institute for Hydrology), Koblenz



Events and Activities in 2009/2010

Trainings in English language

Since 1966 the DWA with various partners has carried out international training and further training activities for the operational management staff of wastewater treatment plants and plant personnel from emerging and developing countries as well as from other countries such as, for example, Algeria, China, Dubai, Egypt, India, Indonesia, Israel, Mexico, Niger, Palestine, Thailand and Tunisia.

Seminar "The German Water Sector" An Introduction

April 15, 2009, Hennef, Germany
April 2010

Get a view into the German water sector, get to know the infrastructure, the organisations, their multiple tasks and extensive activities of the German water sector. Water laws, legal aspects, training and qualification, rules and standards are essential parts of the seminar, last but not least the history – how it all began.

Seminar "Sewer Inspection"

June 15-20, 2009, Hennef, Düren/ Germany
June 2010



Execution and evaluation of sewer inspections and the production of rehabilitation concepts with emphasis on the application of the relevant EN standard specifications.

The seminar places the initial emphasis on an overview of the valid and applied sets of rules and standards in

Germany, the applied technical standards and also the technical possibilities of a sewer inspection. The second point of emphasis of the seminar takes into account the perspective of the attendant engineer with regard to planning, engineering supervision and monitoring up to and including the evaluation and production of an economic rehabilitation planning.

For engineers and managers from engineer offices and sewer network operators.

Seminar "Membrane Technology in Germany"

June 22-26, 2009, Bergheim, Kaarst, Aachen,
Hennef/ Germany
June 2010



Basic elements of membrane technology, mechanical pre-treatment, implication of membrane technology, mechanical sludge dewatering, failure problems, methods for cleaning

the membranes, cleaning chemicals, permeability, energy consumption – optimisation, membrane filtration in water treatment, microfiltration, ultrafiltration, nanofiltration, reverse osmosis, membrane bioreactors.

Visit to the worldwide largest plant, the Nordkanal group wastewater treatment works, measurements in the pilot plant and in the Nordkanal group wastewater treatment works, visit to the membrane activated sludge plant at Simmerath/Eifel, visit to the Duisburg industrial membrane plant.

Seminar "Set-up and Development of Water Associations"



The role of associations in the German water sector, history and structure, water law and legal aspects, tasks and objectives of DWA, bodies and structure, membership aspects and advantages for members,

services for members, engagement in committees and working groups, technical standards, communication and information, technical journals and other publications, products, public relations, training and qualification, experience exchanges and neighbourhoods, financial aspects, budget planning.



International Study Tours

International expert delegations (often from emerging and developing countries) visit Germany and inform themselves about the German water industry. The DWA, over recent years, has developed into a much sought after focal point for the organisation of such specialist excursions. Participants get to know the structure of the German water industry through the tailor-made specialist programme and experience German know-how through discipline-specific technical visits to firms and institutions of the German water industry. In cooperation workshops foreign delegations keen to make investments meet possible cooperation partners from Germany.



In October 2008, a delegation from East African countries spent 10 days on an intensive workshop on capacity building – water management in their countries. The role of associations, their organisation and tasks as well as the benefits for all parties involved were discussed. Most important were the efforts of the transfer of this knowledge into the mother countries' circumstances.



In March 2009, a Governmental delegation from Algeria visited different qualification and training centres to learn about the dual professional education system in Germany, especially in view of environmental aspects and here in the context of water and wastewater.

Different study tours accompany the fairs Wasser Berlin 2009 and IFAT Munich 2010.

Sino-German Training Center for Water and Environment Ltd.



Foundation of the company: partnership contract is signed by the partners

In May 2007 the Chinese company SGTC (Sino-German Training Center for Water and Environment Ltd.) based in Beijing, was formed for the training of personnel in the water industry and other activities by the partners DWA, Emscher Gesellschaft für Wassertechnik, Kocks Consult and InterTraining. The training centre is to support the build-up of Chinese-German relations in the field of environmental engineering, in particular in the water, wastewater and waste industries as well as contribution to the sustained operation of modern environmental facilities in China.

Technical-Scientific Conference Programme for IFAT CHINA

From 2004 on – the first IFAT in China – the DWA organizes the technical-scientific conference programme for this biannual event. In 2010, the fourth IFAT CHINA will take place in Shanghai in July. The growth rates of both the visitors figures of the fair and the conference visitors of nearly 20 % in 2008 show the importance and relevance of the event in China.



Opening Ceremony of the IFAT 2008 in Shanghai

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- ☐ Young Scientists' and Professionals' Programme for International Young Engineers
- ☐ Seminar "The German Water Sector"
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Internet: www.dwa.de

Layout:

DWA, Hennef

Print:

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Content and cover printed on 100 % recycled paper

© DWA, 2009



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