AU

# Viega Standards and Regulations

viega

# 1 About this document

As far as standards and regulations are mentioned in Viega instructions for use, they primarily relate to Germany / Europe. The standards and regulations are listed in an overview in the beginning of the instructions for use.

In many cases, a variety of national regulations applies additionally or as an alternative. These national regulations are not mentioned in the instructions for use but, in the attempt to ensure that they are always up-to-date, collected in this document and contrasted with the regulations applicable in Germany.

The headings, such as „Areas of application“, „Storage“, or „Maintenance“, refer to the corresponding section of the instructions for use. By way of these headings, it is easy to find the national equivalents in the applicable regulations.

# 2 Piping Systems

## 2.1 Regulations from section: Target group

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Qualification of specialist companies | DVGW-Arbeitsblatt GW 301 | Follow national guidelines. |
| Qualification and requirements in the potable water supplier | DVGW-Arbeitsblatt W 1000 | Follow national guidelines. |

## 2.2 Regulations from section: Fields of application

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Planning, execution, operation and maintenance of potable water installations or house service connections | DIN EN 805 | AS/NZS 3500.1 |
| | DIN EN 806, part 1-5 | |
| | DIN EN 1717 | AS/NZS 3500 |
| | DIN 1988 | AS/NZS 3500 |
| | VDI/DVGW 6023 | AS/NZS 3500 |
| | Trinkwasserverordnung (TrinkwV) | Australian Drinking Water Guidelines<br>AS/NZS 3500 |
| | DVGW-Arbeitsblatt W 400-1 | AS/NZS 3500.1 |
| | DVGW-Arbeitsblatt W 400-2 | AS/NZS 3500.1 |
| | DVGW-Arbeitsblatt W 400-3 | AS/NZS 3500.1 |
| | DVGW-Merkblatt W 333 | Follow national guidelines. |
| | DVGW-Arbeitsblatt W 553 | |
| Use of copper pipes in sprinkler extinguisher systems | DIN EN 1057 | AS1432 |
| Application in fire extinguishing systems | DIN 14462 | AS 2419.1<br>AS 2441 |
| Planning, execution, modification and operation of gas installations or house service connections | DVGW-Arbeitsblatt G 459-1 | AS/NZS 5601 |
| | DVGW-TRGI 2008 | AS/NZS 5601 |
| | DVFG-TRF 2012 | AS/NZS 5601 |
| | DVGW-Arbeitsblatt G 459-1-B | AS/NZS 5601 |
| | DVGW-Arbeitsblatt G 472 | AS/NZS 5601 |
| | DVGW-Arbeitsblatt G 469 | AS/NZS 5601 |

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Gas installations for industrial, commercial and process plants | DVGW-Arbeitsblatt G 5614 | AS/NZS 5601 |
| | DVGW-Arbeitsblatt G 462 | – |
| | DVGW-Arbeitsblatt G 459-1 | – |
| | DVGW-Fachinformation Nr. 10 | – |
| Planning, execution, modification and operation of liquid gas installations | DVFG-TRF 2012 | – |

## 2.3 Regulations from section: Media

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Class A recycled water | - | AS/ NZS 3500.5:2000 |
| Suitability for potable water | Trinkwasserverordnung (TrinkwV) | Australian Drinking Water Guidelines<br>AS/NZS 3500 |
| Liquid gas in the gaseous state | DVGW-Arbeitsblatt G 260 | AS 4670:2018<br>AS 4564-2011<br>AS/NZS 5601 |
| Suitability for fuel oil | DIN 51603-1 | – |
| Suitability for Diesel fuel | DIN EN 590 | – |
| Suitability for heating water for pump hot water heating systems | VDI-Richtlinie 2035, Sheet 1 and Sheet 2 | – |

## 2.4 Regulations from section: Product description

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Suitability for potable water | Trinkwasserverordnung (TrinkwV) | Australian Drinking Water Guidelines |
| | DIN 50930-6 | – |
| Requirements in plastic components in potable water installations | DVGW-Arbeitsblatt W270 | – |

## 2.5 Regulations from section: Compatible Components

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Sealing pipe thread<br>■ External threads Series R.<br>■ Internal threads Series RP. | – | AS ISO 7.1 |
| Fastening pipe thread<br>■ External threads Series GB.<br>■ Internal threads Series G. | – | AS 1722.2<br>ISO 228.1 |

## 2.6 Regulations from section: Pipes

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Drinking water pipelines, cold | DIN 1988-200 | AS/NZS 3500.1 |
| Drinking water pipelines, warm | DIN 1988-200 | AS/NZS 3500.1 |
| Heating systems | EnEv, appendix 5 | – |
| Permitted copper pipes | DIN EN 1057 | AS1432 |
| Approval of press connectors for use with copper pipes | DVGW-Arbeitsblatt GW 392 | AS 3688 |
| | DIN EN 1057 | |
| Permitted types of pipes (PE-X)<br>■ potable water supply<br>■ gas supply | DIN 16893, DIN 16892 | – |
| Types of pipes (PE-X)<br>■ potable water supply<br>■ gas supply | DVGW-Arbeitsblatt GW 335-A3 | – |
| Cross-linked polyethylene (PE-X) pipes for pressure applications | – | AS/NZS 2492 |
| Permitted use with piping materials in potable water installations (PE-HD)<br>Permitted use with piping materials in gas installations (PE-HD) | DIN 8074, DIN 8075 | AS/NZS 4130 |
| Permitted types of pipes (PE)<br>■ potable water supply | DIN EN 12201 | AS/NZS 4130 |
| Permitted types of pipes (PE)<br>■ potable water supply<br>■ gas supply | DVGW-Arbeitsblatt GW 335-A2 | AS/NZS 4130 |
| Types of pipe (PE) – gas supply | DIN EN 1555 | AS/NZS 4130 |
| Potable water multilayer pipelines, cold:<br>■ Pipe with protective pipe (grey), *see line 4 and 5*<br>■ Pipe with 9 mm surrounding insulation (grey), *see line 1*<br>■ Pipe with 13 mm surrounding insulation (grey), *see line 2 and 6*<br>■ Pipe with 26 mm surrounding insulation (grey), *see line 3* | DIN 1988–200, Table 8 | – |
| Potable water multilayer pipelines, warm:<br>■ Pipe with protective pipe (grey), *see line 6*<br>■ Pipe with 13 mm surrounding insulation (grey), *see line 5*<br>■ Pipe with 26 mm surrounding insulation (grey), *see line 1* | DIN 1988–200, Table 9 | – |
| Heating systems:<br>■ Pipe with 9 mm surrounding insulation (grey), *see line 7*<br>■ Pipe with 13 mm surrounding insulation (grey), *see line 5 and 6*<br>■ Pipe with 26 mm surrounding insulation (grey), *see line 1*<br>Heating systems in floor construction:<br>■ Pipe with eccentric heat insulation | EnEV, Anhang 5, Table 1 | – |

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Rules of the fixing technology for gas installations | DVGW-TRGI 2008, Point 5.3.7 | AS/NZS 5601 |
| | DVFG-TRF 2012, Point 7.3.6 | – |
| Stainless steel pipes with material number 1.4401 | DIN EN 10088 | AS 5200.053 and DIN EN 10088 |
| Stainless steel pipes with material number 1.4401 | DVGW-Arbeitsblatt GW 541 | – |

## 2.7 Regulations from section: Press connectors

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Thread of Geopress K adapters | DIN EN 10226-1 | AS ISO 7.1<br>AS 1722.2 or ISO 228.1 |

## 2.8 Regulations from section: Sealing elements

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Area of use of the EPDM sealing element<br>- Heating | DIN EN 12828 | – |

## 2.9 Regulations from section: Corrosion

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| (Subsequent) corrosion protection measures for laying in the ground | DIN 30672 | WSAA Water Supply Code<br>AS/NZS 3500.1<br>Governing regulations for applicable application<br>AS/NZS 5601 and DIN 30672 |
| Regulations for external corrosion protection | DIN EN 806-2 | – |
| | DIN 1988-200 | – |
| | DKI-Informationsdruck i. 160 | – |
| Corrosion protection measures for external pipelines | DVGW-TRGI 2008, Point 5.2.7.1 | – |
| | DVFG-TRF 2012, Point 7.2.7.1 | – |
| Corrosion protection measures for internal pipelines | DVGW-TRGI 2008, Point 5.2.7.2 | – |
| | DVFG-TRF 2012, Point 7.2.7.2 | – |
| Overground pipelines in recesses in the bare floor or levelling layer | DVGW-TRGI 2008, Point 5.3.7.8.4 | – |

## 2.10 Regulations from section: Storage

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Requirements for material storage | DIN EN 806-4, Chapter 4.2 | AS/NZS 2492<br>AS/NZS 2537<br>AS 4176.2<br>AS 4176.3<br>AS/NZS 4129 |

## 2.11 Regulations from section: Notes on mounting

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Threshold values for ovalities | DIN 12201-2, Tabelle 1 | AS/NZS 4130 |
| The general rules of mounting for gas installations | DVGW-TRGI 2008, Point 5.3.7 | AS/NZS 5601 |
| | DVFG-TRF 2012, Point 7.3.6 | – |

## 2.12 Regulations from section: Mounting the reusable test plug

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Regulations for leakage and load tests | DIN EN 806-4 | AS/NZS 3500 |
| Leakage test for water installations | ZVSHK-Merkblatt: „Dichtheitsprüfungen von Trinkwasserinstallationen mit Druckluft, Inertgas oder Wasser | AS/NZS 3500 |

## 2.14 Regulations from section: Installation position and settings

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Dimensioning of circulation systems | DVGW-Arbeitsblatt W 553 | – |

## 2.15 Regulations from section: Notes on mounting

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Threshold values for ovalities | DIN 12201-2, Tabelle 1 | AS/NZS 4130 |

## 2.16 Regulations from section: Leakage test

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Leakage test before commissioning the connection line | DVGW-Arbeitsblatt W 333 | AS/NZS 3500.1 |
| | DVGW-Arbeitsblatt W 400-2 | AS/NZS 2033 |
| | DVGW-Arbeitsblatt G 459-1 | AS/NZS 5601<br>AS/NZS 4645 |
| | DVGW-Arbeitsblatt G 469 | AS/NZS 5601 |
| | DIN EN 805 | AS/NZS 3500.1 |
| Leakage test for water installations | DIN EN 806, part 4 | AS/NZS 3500 |
| | ZVSHK-Merkblatt „Dichtheitsprüfungen von Trinkwasserinstallationen mit Druckluft, Inertgas oder Wasser“ | AS/NZS 3500 |
| Leakage test for gas installation | DVGW-TRGI 2008, Point 5.6 | AS/NZS 5601 |
| Testing and initial commissioning of a liquid gas system | DVFG-TRF 2012, Point 8 | AS/NZS 5601 |
| Test on a system that is finished but not yet covered | DIN EN 806, part 4 | AS/NZS 3500 |

## 2.17 Regulations from section: Maintenance

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Operation and maintenance of potable water installations | DIN EN 806-5 | AS/NZS 3500 |
| Ensuring and maintaining a safe operating condition of gas installations | DVGW-TRGI 2008, Appendix 5c | AS/NZS 5601 |

# 3 Pre-wall technology

## 3.1 Regulations from section: Fire protection

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| The period of fire resistance of an EI 90 or EI 120 partition construction is 90 or 120 minutes. | EN 13501-2:2003-12 | – |
| Requirement in the structure of the coverage (one-sided or bothsided) | General building authority test certificate | – |

## 3.2 Regulations from section: Application areas

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Fulfilled noise protection requirements | DIN 4109 | – |
| Specifications for installations inside buildings conveying water for human consumption | EN 806-2 | AS/NZS 3500.1 |
| Application limits for filling valves for cisterns with integrated overflow | EN 14124 | AS 1172.2 |

## 3.3 Regulations from section: Mounting conditions

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Suitable masonry walls | EN 1996-1-1 | Building Code of Australia (BCA) |
| Suitable concrete walls | DIN 1045 | Building Code of Australia (BCA) |
| Suitable timber or steel wall frames | DIN 18183 | Building Code of Australia (BCA) |
| Protection area for installation of the power pack in shower and bath rooms | VDE 0100-701 | – |

## 3.4 Regulations from section: Preparing mounting

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Electrical installation | VDE 0100 | – |

## 3.5 Regulations from section: Sound protection

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Fulfilled noise protection requirements | DIN 4109 | – |
| Fulfilled noise protection requirements | DIN 4109 (additional sheet 2) | – |
| Fulfilled noise protection requirements | VDI 4100 SSt I-SSt II | – |

## 3.6 Regulations from section: Technical data

| Scope / Notice | Regulations DE | Regulations AU |
|---|---|---|
| Electrical approvals | EN 60950 | – |
| Electrical approvals | EN 60335 | – |
| Electrical approvals | EN 61558 | – |
| Flush flow | DIN 3265 | – |
| Noise class | DIN 4109 | – |

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