

Viega Technology GmbH & Co. KG

PRODUCT APPRAISAL REPORT PA 1811

Geopress Fittings for PE Pipe

AS/NZS 4129:2008 Fittings for polyethylene (PE) pipes for pressure applications

Published: 21 August 2019



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| Name/Title | Organisation | Date |
|--|--------------|----------------|
| Product Appraisal Technical Advisory Group | WSAA | 20 August 2019 |
| WSAA Expert Panel | WSAA | 20 August 2019 |
| Peter Pittard, WSAA Consultant | WSAA | 30 July 2019 |
| Carl Radford, Product Appraisal Manager | WSAA | 21 August 2019 |

Overview of WSAA

The Water Services Association of Australia (WSAA) is the peak industry body representing the urban water industry. Our members provide water and sewerage services to over 20 million customers in Australia and New Zealand and many of Australia's largest industrial and commercial enterprises.

Based around our vision of 'customer driven, enriching life', WSAA facilitates collaboration, knowledge sharing, networking and cooperation within the urban water industry. We are proud of the collegiate attitude of our members which has led to industry-wide approaches to national water issues.

WSAA can demonstrate success in the standardisation of industry performance monitoring and benchmarking, as well as many research outcomes of national significance. The WSAA Executive retains strong links with policy makers and legislative bodies and their influencers, to monitor emerging issues of importance to the urban water industry.

WSAA was formed in 1995 as a non-profit organisation to foster the exchange of information between industry, government and the community, and to promote sustainable water resource management.

The urban water industry is committed to anchoring its services to customers' values, and to enrich communities where water services have broad economic, environmental and social values. In line with this our main activities focus on four areas:

- 1. influencing national and state policies on the provision of urban water services and sustainable water resource management
- 2. promoting debate on environmentally sustainable development and management of water resources and the community health requirements of public water supplies
- 3. improving industry performance and establishing benchmarks and industry leading practices for water service processes; and
- 4. fostering the exchange of information on education, training, research, water and wastewater management and treatment and other matters of common interest.

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Viega Technology GmbH & Co KG is a family owned company with its origins dating back to 1899 in Germany and is now an international market leader in the installation technology sector with over 4000 employees in 10 locations throughout the world. The company manufactures and supplies products for a wide range of sectors including building construction, industrial plant construction, shipbuilding and water and gas utilities.

Viega Pty Ltd, located in Baulkham Hills NSW, is the Australian based sales and distribution arm of the Company.

This appraisal is for a range of Geopress plastics fittings for use with PE100 pipe. The fittings range consists of tees, elbows, and couplings in sizes DN 25, DN 32, DN 40, DN 50 and DN 63 and under pressure tapping valves in sizes DN 63, DN 125, DN 180 and DN 225. The under pressure tapping valves consist of a tapping band with an integral valve.

The fittings within the range all utilise a unique press jointing system for leak tight connection to the PE pipe without the need for elastomers. The pipe is pressed on to the support sleeve of the connection joint with a battery-operated press gun to provide internal sealing and a high tensile connection.

The Geopress fittings conform with AS/NZS 4129:2008 *Fittings for polyethylene (PE) pipes for pressure applications* and the valves comply with WMTS 012:2018 *In-line valves for use in plumbing water supply systems* and have ISO Type 5 product certification.

Viega has a quality management system complying with ISO 9001:2015.

This Appraisal has determined that Viega Geopress PE fittings for use with PE100 pipe, as detailed in Section 3, comply with the requirements of WSA PS 208 – *Plastics Moulded Fittings for Pressure Applications with PE Pipe – Water Supply and* Sewerage and WSA PS 327 *Tapping Bands, Mechanical, for use with Polyethylene (PE) Mains for Pressure Applications – Water Supply* and are considered as 'fit for purpose'.

1.1 Recommendations

It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise the Viega range of PE fittings and tapping valves as detailed in this report, for use with PE100 water supply and sewerage pipelines, provided they are installed in accordance with WSAA Codes and the manufacturer's requirements.

2 THE APPLICANT

The applicant is Viega Technology GmbH & Co KG.

2.1 The Supplier

Viega Pty Ltd, located in Baulkham Hills NSW, is the Australian based sales and distribution arm of the Company.

2.2 The Manufacturer

Viega Technology GmbH & Co KG is a family owned company with its origins dating back to 1899 in Germany and is now an international market leader in the installation technology sector with over 4000 employees in 10 locations throughout the world. The company manufactures and supplies products for a wide range of sectors including building construction, industrial plant construction, shipbuilding and water and gas utilities.

3 THE PRODUCT

The Viega range of Geopress plastics fittings and tapping valves for use with PE100 pipe consists of tees, elbows, couplings and under pressure tapping valves as detailed in Table 1.

| DN | Elbow 90 & 45 | Equal Tee | Coupling | Tapping Valve |
|-----|------------------|--------------|----------|------------------|
| 25 | ~ | ~ | ✓ | |
| 32 | ~ | ~ | ✓ | |
| 40 | ~ | ~ | ✓ | |
| 50 | ~ | ~ | ✓ | |
| 63 | ~ | ~ | ✓ | ✓ |
| 125 | | | | ✓ |
| 180 | | | | ✓ |
| 225 | | | | \checkmark |

TABLE 1 GEOPRESS PE FITTINGS RANGE

The fittings within the range all utilise a unique press jointing system for leak tight connection to the PE pipe without the need for elastomers. The pipe is pressed on to the support sleeve of the joint with a battery-operated press gun to provide internal sealing and a high tensile connection.



FIGURE 1 PRESS JOINT

The Geopress fittings are equipped with a window on the joint to enable verification of the insertion depth of the PE pipe. After pressing, the window is closed and the green clamping ring on the outside of the pipe becomes visible, indicating that the joint was correctly pressed.



FIGURE 2 GEOPRESS JOINT DETAILS

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The fittings are moulded from Polyamide 12 GF50.

The under pressure tapping valves consist of a tapping band with an integral valve and inbuilt cutter that allows for under pressure tapping and also provides a subsequent shut off facility tor the house service connection. The outlet connection accommodates Geopress connecting pieces that allow for PE service lines to be fitted utilising the press jointing method.



FIGURE 3 GEOPRESS TAPPING VALVE

The plastics fittings and tapping valves are ISO Type 5 certified to AS/NZS 4129:2008 *Fittings for polyethylene (PE) pipes for pressure applications* and the valve component to WMTS 012:2018 *In-line valves for use in plumbing water supply systems*.

4 SCOPE OF THE APPRAISAL

This appraisal includes a range of plastics fittings and tapping valves for use with PE pipes as detailed in Section 3.

5 APPRAISAL CRITERIA

5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts plastics fittings and tapping bands for use with PE mains manufactured in compliance with AS/NZS 4129:2008 *Fittings for polyethylene (PE) pipes for pressure applications* and duly certified by means of an ISO Type 5 product certification scheme undertaken by a JAS-ANZ accredited Conformity Assessment Body (CAB) or by an international accreditation system recognised by JAS-ANZ.

The manufacturer is generally expected to have a production management and control system that has been duly accredited in accordance with AS/NZS ISO 9001 as a prerequisite to undergoing a product certification audit.

The ISO Type 5 Product Certification Scheme shall meet the criteria described in WSA TN-08.

5.2 Performance Requirements

Viega Geopress plastics fittings and tapping valves have been appraised for compliance with AS/NZS 4129.

Appraisal criteria are also determined by the WSAA Product Appraisal Technical Advisory Group and regularly reviewed to ensure that the criteria reflect the requirements of WSAA members.

The following Product Specifications are also relevant to this application:

WSA PS 208 – Plastics Moulded Fittings for Pressure Applications with PE Pipe – Water Supply and Sewerage

WSA PS 327 Tapping Bands, Mechanical, for use with Polyethylene (PE) Mains for Pressure Applications – Water Supply.

Copies of the above Product Specification can be found in Appendix <letter> or downloaded from the WSAA members website.

6 COMPLIANCE WITH APPRAISAL CRITERIA

6.1 Compliance with Quality Assurance Requirements

Viega has submitted the following quality certificates:

- ISO 9001:2015 Certificate of Registration No. 535734 issued to Viega Holding GmbH & Co KG by DQS GmbH.
- AS/NZS 4129:2008 StandardsMark ISO Type 5 Product Certification Licence No. SMK26451 issued to Viega Technology GmbH & Co KG by SAI Global.

Copies of the primary Quality Assurance and Product Certification licences have been included in Appendix B and are also available for downloading from the WSAA Members Website.

6.2 Compliance with Performance Requirements

6.2.1 Materials

The fittings and tapping bands are moulded from Polyamide 12 GF50. A test report has been submitted for testing to ISO 9080 that has determined 97.5% LPL of 21.07MPa for the material. This complies with the requirements of ISO 17885 that nominates an MRS of 20 MPa for PA12 GF50.

6.2.2 Performance testing

Test reports completed by MPA NRW have been submitted to demonstrate compliance of the Geopress fittings to the performance requirements of AS/NZS 4129:2008. These tests include a body fitting test and tests on assembled joints to demonstrate compliance to leak-tightness under internal pressure for both short term and long term, leak-tightness under negative pressure, leak-tightness under internal pressure when the joint is subjected to bending and resistance to pull out.

Test reports conducted by Prove Standards & Engineering Pty Ltd have been submitted to demonstrate compliance of the Geopress tapping valves to the requirements of AS/NZS 4129. The report includes tests on assembled saddles to demonstrate compliance to leak-tightness under internal pressure for both short term and long term at nominated various pressures and temperatures, leak-tightness under negative pressure, resistance to pressure during application of a bending moment to the branch, resistance to rotational sliding on the pipe and resistance to axial sliding on the pipe.

Test reports completed by Prove Standards & Engineering Pty Ltd have been submitted to demonstrate compliance of the valve component of the tapping valve to the performance requirements of WMTS 012. These tests include a torque test and hydraulic strength test.

6.2.3 Effect on water

Test reports, completed by Eurofins ams, have been submitted to demonstrate compliance of the Viega plastic fittings and tapping valves to AS/NZS 4020.

7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

A comprehensive range of catalogues including Instructions for Use manuals are available directly from Viega.

8 PRODUCT MARKING

Viega fittings and packaging are marked in accordance with the requirements of AS/NZS 4129 as per the following:

- Manufacturer's Name: Viega
- Batch Code: Traceability bar code on each product
- Nominal Size: e.g. d25, d32, d40, d50, d63
- Classification: PN 16
- Material: PA12 GF50
- The standard number: AS/NZS 4129
- Standards Mark symbol I>>>>I)
- Licence Number: SMK26451

9 PACKAGING AND TRANSPORTATION

The fittings are packed into plastic bags and cardboard boxes.

10 PRODUCT WARRANTY

The products are covered by the normal commercial and legal requirements of the *Competition and Consumer Act 2010 (Cth)*, which covers manufacture to the relevant standard, and details of Viega's warranty is included in their terms and conditions of sale.

11 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD TESTING REPORT

A successful installation demonstration of a DN 200 tapping valve was conducted in conjunction with Sydney Water in June 2019.

12 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW

There are no outstanding issues.

13 FUTURE WORKS

No future work has been identified.

14 DISCLAIMER

This Product Appraisal Report (Report) is issued by the Water Services Association of Australia Limited on the understanding that:

This Report applies to the product(s) as submitted. Any changes to the product(s) either minor or major shall void this Report.

To maintain the recommendations of this Report any such changes shall be detailed and notified to the Product Appraisal Manager for consideration and review of the Report and appropriate action. Appraisals and their recommendations will be the subject of continuous review dependent upon the satisfactory performance of products.

WSAA reserves the right to undertake random audits of product manufacture and installation. Where products fail to maintain appraised performance requirements the appraisal and its recommendations may be modified and reissued. Appraisal reports will be reviewed and reissued at regular intervals not exceeding five (5) years.

The following information explains a number of very important limits on your ability to rely on the information in this Report. Please read it carefully and take it into account when considering the contents of this Report.

Any enquiries regarding this report should be directed to the Program Manager, Carl Radford, Phone: 03 8605 7601 email carl.radford@wsaa.asn.au.

14.1 Issue of Report

This Report has been published and/or prepared by the Water Services Association of Australia Limited and nominated Project Manager and peer group of technical specialists (the Publishers).

The Report has been prepared for use within Australia only by technical specialists that have expertise in the function of products such as those appraised in the Report (the Recipients).

By accepting this Report, the Recipient acknowledges and represents to the Publisher(s) and each person involved in the preparation of the Report that the Recipient has understood and accepted the terms of this Disclaimer.

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account the reliability of that independent evidence obtained by the Recipient regarding the Product.

Recipients should also independently verify and assess the appropriateness of any recommendation in the Report, especially given that any recommendation will not take into account a Recipient's particular needs or circumstances.

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14.4 No Warranty

The Publisher(s) do[es] not, in any way, warrant that steps have been taken to verify or audit the accuracy or completeness of the information in this Report, or the accuracy, completeness or reasonableness of any recommendation in this Report.

APPENDIX A – PRODUCT LITERATURE

The available product literature is too voluminous to include in this report. Cover pages for the Geopress Brochure and Instructions for Use for fittings and tapping valves are included in this Appendix. Complete copies are available directly from Viega or from WSAA.



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Geopress K underground supply lines: Something you can count on.

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Viega Geopress K: Internal sealing, elastomer-free, plastic - high safety, best supply.



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Viega Geopress tapping valves: A safe house service connection right from the start.

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Viega Geopress and Geopress G: Robust, durable and corrosion-resistant.





16 Alternative energies: Bringing the future to you.

18 Viega Maxiplex: The down-to-earth alternative in the ground.

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Viega Pressgun: Takes seconds to connect what belongs permanently joined.

22 The product range.



viega



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Geopress tapping valve with operation shutoff for the HSC

Instructions for Use



Geopress Model

Year built: from 03/2009



en_INT

9690

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Geopress tapping valve with operation shut-off for the HSC

APPENDIX B - QUALITY CERTIFICATIONS

Copies of the following Quality Certification Certificates are available for downloading from the WSAA Members Website.

TABLE B1 VIEGA HOLDING GmbH & CO KG – MANAGEMENT SYSTEMS

| Viega Platz 1 57428 Attendorn Germany | | | |
|---------------------------------------|------------------|--|--|
| Quality Systems Standard | ISO 9001:2015 | | |
| Certification licence no. | 535734 QM15 | | |
| Certifying agency | DQS GmbH | | |
| Current date of certification | 20 December 2017 | | |
| Expiry date of certification | 20 December 2020 | | |

TABLE B2 VIEGA VIEGA TECHNOLOGY GmbH & CO KG – PRODUCT CERTIFICATION

| Viega Platz 1 57428 Attendorn Germany | | | |
|---------------------------------------|------------------|--|--|
| Product Standard/Spec. | AS/NZS 4129:2008 | | |
| Certificate No. | SMK26451 | | |
| Issuing certification body | SAI-Global | | |
| First date of certification | 25 July 2019 | | |
| Current date of certification | 25 July 2019 | | |
| Expiry date of certification | 24 July 2024 | | |



CERTIFICATE



This is to certify that

Viega Holding GmbH & Co. KG

Viega Platz 1 57428 Attendom Germany

with the organizational units/sites as listed in the annex

has implemented and maintains a Quality Management System.

Scope: Development, production and sales of sanitary- and heating systems

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2015

| Certificate registration no. | 535734 QM15 |
|------------------------------|-------------|
| Valid from | 2017-12-20 |
| Valid until | 2020-12-19 |
| Date of certification | 2017-12-20 |



DQS GmbH

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Stefan Heinloth Managing Director

Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany

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Annex to certificate Registration No. 535734 QM15

Viega Holding GmbH & Co. KG

Viega Platz 1 57428 Attendorn Germany

Location

Scope

535737 Viega Deutschland GmbH & Co. KG Viega Platz 1 57428 Attendorn Germany

Sales of sanitary- and heating systems

535738 Viega CE GmbH & Co. KG Viega Platz 1 57428 Attendorn Germany

535740 Viega Technology GmbH & Co. KG Viega Platz 1 57439 Attendorn Germany Sales of sanitary- and heating systems

Sales of sanitary- and heating systems

This annex (edition: 2017-12-20) is only valid in connection with the above-mentioned certificate.





* For details of manufacture, refer to the licensee

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Product Details :

Standard - AS/NZS 4129:2008 Fittings for polyethylene (PE) pipes for pressure applications

| Model Identification | Model Name | Brand Name | Product Description | Product Type | Product Application | Size Classification (DN) | Pressure Classification | Joint Type | Colour | Material Designation | Date Endorse |
|-------------------------|---------------|---------------|------------------------|-----------------|------------------------|--------------------------------|----------------------------|---------------|--------|------------------------------------|-----------------|
| 710057 | 9715 | Viega | Geopress K | Coupling | Water | DN25 (25mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 7.10064 | 9715 | Viega | Geopress K | Coupling | Water | DN32 (32mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 710071 | 9715 | Viega | Geopress K | Coupling | Water | DN40 (40mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 710088 | 9715 | Viega | Geopress K | Coupling | Water | DN50 (50mm) | PN 16 | Mechanical | Błack | Polyamide | 24 Jul 2019 |
| 710101 | 9715 | Viega | Geopress K | Coupling | Water | DN63 (63mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 710118 | 97155 | Viega | Geopress K | Repair Coupling | Water | DN32 (32mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 710125 | 97155 | Viega | Geopress K | Repair Coupling | Water | DN40 (40mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 710132 | 97155 | Viega | Geopress K | Repair Coupling | Water | DN50 (50mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 710149 | 97155 | Viega | Geopress K | Repair Coupling | Water | DN63 (63mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 710156 | 97152 | Viega | Geopress K | Red Coupling | Water | DN32 (32mm x 25mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 710163 | 97152 | Viega | Geopress K | Red Coupling | Water | DN40 (40mm x 32mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 710170 | 97152 | Viega | Geopress K | Red Coupling | Water | DN50 (50mm x 32mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 710187 | 97152 | Viega | Geopress K | Red Coupling | Water | DN50 (50mm x 40mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 710194 | 97152 | Viega | Geopress K | Red Coupling | Water | DN63 (63mm x 32mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 710200 | 97152 | Viega | Geopress K | Red Coupling | Water | DN63 (63mm x 40mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 710217 | 9711 | Viega | Geopress K | Male Adaptor | Water | DN25 (25mm x %") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 710224 | 9711 | Viega | Geopress K | Male Adaptor | Water | DN32 (32mm x %") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 710231 | 9711 | Viega | Geopress K | Male Adaptor | Wator | DN32 (32mm x 1") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 710248 | 9711 | Viega | Geopress K | Male Adaptor | Water | DN32 (32mm x 1%") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 7.10255 | 9711 | Viega | Geopress K | Male Adaptor | Water | DN32 (32mm x 1%") | PN 16 | Mechanical | Black | Połyamide & Zero Lead Bronze | 24 Jul 2019 |
| 710262 | 9711 | Viega | Geopress K | Male Adaptor | Water | DN40 (40mm x 1") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 710279 | 9711 | Viega | Geopress K | Male Adaptor | Water | DN40 (40mm x 156") | PN 16 | Mechanical | Black | Połyamide & Zero Lead Bronze | 24 Jul 2019 |
| 710286 | 9711 | Viega | Geopress K | Male Adaptor | Water | DN40 (40mm x 1%") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 7.10293 | 9711 | Viega | Geopress K | Male Adaptor | Water | DN50 (50mm x 1") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 710309 | 9711 | Viega | Geopress K | Male Adaptor | Water | DN50 (50mm x 11/4") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 710316 | 9711 | Viega | Geopress K | Male Adaptor | Water | DN50 (50mm x 1%") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| <u>710323</u> | 9711 | Viega | Geopress K | Male Adaptor | Water | DN63 (63mm x 1%") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |

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| 710330 | 9711 | Viega | Geopress K | Male Adaptor | Water | DN63 (63mm x 2") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
|---------------|------------|----------|-----------------|----------------|----------|-------------------------|-------------|---------------------|-------|------------------------------------|------------|
| 710347 | 9712 | Viega | Geopress K | Female Adaptor | Water | DN25 (25mm x 3%") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| <u>710354</u> | 9712 | Viega | Geopress K | Female Adaptor | Water | DN32 (32mm x 1") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 7.10361 | 9712 | Viega | Geopress K | Female Adaptor | Water | DN40 (40mm x 1%") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 7.10378 | 9712 | Viega | Geopress K | Female Adaptor | Water | DN50 (50mm x 114") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 710385 | 9712 | Viega | Geopress K | Female Adaptor | Water | DN50 (50mm x 1%") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 710392 | 9712 | Viega | Geopress K | Female Adaptor | Water | DN63 (63mm x 2*) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 710507 | 97152 | Viega | Geopress K | Red Coupling | Water | DN63 (63mm X 50mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 201 |
| 710699 | 9756 | Viega | Geopress K | End Cap | Water | DN25 (25mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 201 |
| 10705 | 9756 | Viega | Geopress K | End Cap | Water | DN32 (32mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 20 |
| 710712 | 9756 | Viega | Geopress K | End Cap | Water | DN40 (40mm) | PN 16 | Mechanical | Black | Polyamide | 24 Juli 20 |
| 710729 | 9756 | Viega | Geopress K | End Cap | Water | DN50 (50mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 20 |
| 710736 | 9756 | Viega | Geopress K | End Cap | Water | DN63 (63mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 20 |
| 710873 | 9716 | Viega | Geopress K | Elbow 90 | Water | DN25 (25mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 20 |
| 710880 | 9716 | Viega | Geopress K | Elbow 90 | Water | DN32 (32mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 20 |
| | II SOVER L | 10000000 | TE SUGGARERATOR | 195557718077 | KGA GOAL | 120:000480400 | 1007/05/365 | III SCHOLENCE AND A | | 111AST/11/Steek | 19011/2019 |
| 710897 | 9716 | Viega | Geopress K | Elbow 90 | Water | DN40 (40mm) | PN 16 | Mechanical | | Polyamide | 24 Jul 20 |
| 710903 | 9716 | Viega | Geopress K | Elbow 90 | Water | DN50 (50mm) | PN 16 | Mechanical | | Polyamide | 24 Jul 20 |
| 710910 | 9716 | Viega | Geopress K | Elbow 90 | Water | DN63 (63mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 20 |
| 710927 | 9714 | Viega | Geopress K | Male Elbow 90 | Water | DN25 (25mm x %*) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 7.10934 | 9714 | Viega | Geopress K | Male Elbow 90 | Water | DN32 (32mm x %") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 710941 | 9714 | Viega | Geopress K | Male Elbow 90 | Water | DN32 (32mm x 1") | PN 16 | Mechanicai | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 710958 | 9714 | Viega | Geopress K | Male Elbow 90 | Water | DN32 (32mm x 1%") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 710965 | 9714 | Viega | Geopress K | Male Elbow 90 | Water | DN40 (40mm x 1") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 710972 | 9714 | Viega | Geopress K | Male Elbow 90 | Water | DN40 (40mm x 1%*) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 710989 | 9714 | Viega | Geopress K | Male Elbow 90 | Water | DN40 (40mm x 1%*) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 20 |
| 7.10996 | 9714 | Viega | Geopress K | Male Elbow 90 | Water | DN50 (50mm x 1°) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 711009 | 9714 | Viega | Geopress K | Male Elbow 90 | Water | DN50 (50mm x 1%*) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 711016 | 9714 | Viega | Geopress K | Male Elbow 90 | Water | DN50 (50mm x 1%") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |

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| 711023 | 9714 | Viega | Geopress K | Male Elbow 90 | Water | DN63 (63mm x 155") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
|------------------|------------------|----------------|--------------------------|--|----------------|-------------------------|-------|--------------------------|--------|------------------------------------|---|
| 711030 | 9714 | Viega | Geopress K | Male Elbow 90 | Water | DN63 (63mm x 2") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 711047 | 97142 | Viega | Geopress K | Female Elbow 90 | Water | DN32 (32mm x 1°) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 711054 | 97142 | Viega | Geopress K | Female Elbow 90 | Water | DN40 (40mm x 1*) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 711061 | 97142 | Viega | Geopress K | Female Elbow 90 | Water | DN40 (40mm x 1%*) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 711078 | 97142 | Viega | Geopress K | Female Elbow 90 | Water | DN50 (50mm x 1%") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 711065 | 97142 | Viega | Geopress K | Female Elbow 90 | Water | DN63 (63mm x 2") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 711092 | 9726 | Viega | Geopress K | Elbow 45 | Water | DN32 (32mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 711108 | 9726 | Viega | Geopress K | Elbow 45 | Water | DN40 (40mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2011 |
| 711115 | 9726 | Viega | Geopress K | Elbow 45 | Water | DN50 (50mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 711122 | 9726 | Viega | Geopress K | Elbow 45 | Water | DN63 (63mm) | PN 16 | Mechanical | Black, | Polyamide | 24 Jul 2019 |
| 711139 | 97262 | Viega | Geopress K | Male Elbow 45 | Water | DN32 (32mm x 1*) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 711146 | 97262 | Viega | Geopress K | Male Elbow 45 | Water | DN40 (40mm x 1%*) | PN 16 | Mechanical | Black | Potyamide & Zero Lead Bronze | 24 Jul 2019 |
| 711153 | 97262 | Viega | Geopress K | Male Elbow 45 | Water | DN50 (50mm x 1%") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 711160 | 97262 | Viega | Geopress K | Male Elbow 45 | Water | DN63 (63mm x 2") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2011 |
| 711269 | 9718 | Viega | Geopress K | Tee Equal | Water | DN25 (25mm) | PN 16 | Mechanical | Black. | Polyamide | 24 Jul 201 |
| 711276 | 9718 | Viega | Geopress K | Tee Equal | Water | DN32 (32mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 201 |
| 711283 | 9718 | Viega | Geopress K | Tee Equal | Water | DN40 (40mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 201 |
| 711290 | 9718 | Viega | Geopress K | Tee Equal | Water | DN50 (50mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 201 |
| 711306 | 9718 | Viega | Geopress K | Tee Equal | Water | DN63 (63mm) | PN 16 | Mechanical | Black | Potyamide | 24 Jul 201 |
| 711313 | 07171 | Viega | Geopress K | Male Tee | Water | DN32 (32mm x %") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2011 |
| 711320 | 97171 | Viega | Geopress K | Male Tee | Water | DN40 (40mm x 1%") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2011 |
| 711337 | 97171 | Viega | Geopress K | Male Tee | Water | DN50 (50mm x %") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 711344 | 97171 | Viega | Geopress K | Malo Teo | Water | DN50 (50mm x 1½*) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| | 97171 | Viega | Geopress K | Male Tee | Water | DN63 (63mm x 11/**) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 201 |
| 711351 | | | | 1.2.0 | www.www. | DN40 (40mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 201 |
| 711351 767495 | 9794TW | Viega | Geopress K | Valve Adaptor 90 Elbow | Water | Sine training | | | | | |
| | 9794TW 9794TW | Viega Viega | Geopress K Geopress K | | Water Water | DN50 (50mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 201 |
| 767495 | | | | Elbow Valve Adaptor 90 | 1011 | | | Mechanical Mechanical | | Polyamide Polyamide | |
| 767495 767501 | 9794TW | Viega Viega | Geopress K | Elbow Valve Adaptor 90 Elbow Valve Adaptor 90 | Water | DN50 (50mm) | PN 16 | | Black | | 24 Jul 2011 24 Jul 2011 24 Jul 2011 |

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| 767549 | 97941TW | Viega | Geopress K | Valve Adaptor 45 Elbow | Water | DN50 (50mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
|--------|---------|-------|------------|-------------------------------|-------|-------------------------|-------|------------|-------|------------------------------------|-------------|
| 768149 | 9793TW | Viega | Geopress K | Valve Adaptor | Water | DN32 (32mm) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 768157 | 9793TW | Viega | Geopress K | Valve Adaptor | Water | DN40 (40mm) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 768164 | 9793TW | Viega | Geopress K | Valve Adaptor | Water | DN50 (50mm) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 768171 | 9793TW | Viega | Geopress K | Valve Adaptor | Water | DN63 (63mm) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 768188 | 9794TW | Viega | Geopress K | Valve Adaptor 90 Elbow | Water | DN32 (32mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 768256 | 97941TW | Viega | Geopress K | Valve Adaptor 45 Elbow | Water | DN63 (63mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 768263 | 97201TW | Viega | Geopress K | Male Elbow 90 R- Thread | Water | DN32 (32mm x 155°) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 768270 | 97201TW | Viega | Geopress K | Male Elbow 90 R- Thread | Water | DN40 (40mm x 1%") | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 768287 | 97201TW | Viega | Geopress K | Male Elbow 90 R- Thread | Water | DN50 (50mm x 1%*) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2015 |
| 768294 | 97201TW | Viega | Geopress K | Male Elbow 90 R- Thread | Water | DN63 (63mm x 155°) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2015 |
| 768300 | 9721TW | Viega | Geopress K | Male adaptor with G thread | Water | DN32 (32mm x 1%*) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 768317 | 9721TW | Viega | Geopress K | Male adaptor with G thread | Water | DN40 (40mm x 1%*) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2011 |
| 768324 | 9721TW | Viega | Geopress K | Male adaptor with G thread | Water | DN50 (50mm x 1%*) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2019 |
| 768331 | 9721TW | Viega | Geopress K | Male adaptor with G thread | Water | DN63 (63mm x 1½°) | PN 16 | Mechanical | Black | Polyamide & Zero Lead Bronze | 24 Jul 2015 |
| 772437 | 9690TW | Viega | Geopress K | Tapping Valve | Water | DN63 (63mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 772444 | 9690TW | Viega | Geopress K | Tapping Valve | Water | DN90 (90mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 772451 | 9690TW | Viega | Geopress K | Tapping Valve | Water | DN110 (110mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 772468 | 9690TW | Viega | Geopress K | Tapping Valve | Water | DN125 (125mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 772475 | WT0696 | Viega | Geopress K | Tapping Valve | Water | DN140 (140mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 772482 | 9690TW | Viega | Geopress K | Tapping Valve | Water | DN160 (160mm) | PN 16 | Mechanical | Bisck | Polyamide | 24 Jul 201 |
| 772499 | WT0696 | Viega | Geopress K | Tapping Valve | Water | DN180 (180mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |
| 772505 | 9690TW | Viega | Geopress K | Tapping Valve | Water | DN200 (200mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 201 |
| 772512 | 9690TW | Viega | Geopress K | Tapping Valve | Water | DN225 (225mm) | PN 16 | Mechanical | Black | Polyamide | 24 Jul 2019 |

APPENDIX C - WSA PRODUCT SPECIFICATION

WATER SERVICES ASSOCIATION of Australia

PRODUCT SPECIFICATION

WSA PS - 208 PLASTICS MOULDED FITTINGS FOR PRESSURE APPLICATIONS WITH PE PIPE – WATER SUPPLY AND SEWERAGE

208.1 SCOPE

This specification covers plastics' moulded

- (a) electrofusion fittings;
- (b) mechanical compression joint fittings;
- elongated spigot fittings for butt fusion and for use with electrofusion socketed fittings; and
- (d) short² spigot fittings for butt fusion

in pressure applications with PE pipes in water supply³ and sewerage.

208.2 REQUIREMENTS

- Plastics¹ moulded material of the fitting body⁴ shall comply with AS/NZS 4129:2008/Amdt 1:2013.
- (b) Mechanical joint elastomeric seals shall be EPDM complying with AS 1646:2007 and AS 681.1:2008 (EN 681-1:1996).
- (c) Joint seals, flange gaskets⁵ and jointing lubricant shall comply with AS/NZS 4020:2018.

208.3 QUALITY ASSURANCE

- (a) Plastics moulded fittings shall have product certification (ISO Type 5) to AS/NZS 4129:2008/Amdt 1:2013.
- (b) Elastomeric joint seals shall have product certification (ISO Type 5) to AS 1646:2007 and AS 681.1:2008 (EN 681-1:1996).
- (c) Flange gaskets shall have certificates of compliance to WSA 109:2011.
- (d) All products shall be marked in accordance with the conformity assessment body's requirements.

208.4 AGENCY OR PROJECT SPECIFIC REQUIREMENTS

| Pressure Class ⁶ , PN | |
|---|--|
| Type of fitting e.g. mechanical or electrofusion | |
| Fitting types (configurations) | |
| Flange standard (e.g. AS/NZS 4331.1:1995 or AS/NZS 4087:2011/Amdt 1:2012 or AS ISO 9624:2008) | |
| Alternative elastomeric material for joint seals | |

NOTES:

- Plastics moulded material of the fitting body shall be in accordance with Table 1.1 of AS/NZS 4129:2008/Amdt 1:2013.
- 2 The dimensions of short spigot fittings for butt fusion shall conform to the requirements given in Table 3 (see Figure 2) in EN 12201-3:2001+A1:2012.

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- 3 Includes water supply and recycled water supply.
- 4 All fittings to AS/NZS 4129:2008/Amdt 1:2013 for applications other than fuel gas are required to comply with AS/NZS 4020:2018. Fittings may be used for drinking water, recycled water and sewerage pipework. Individual colour identification for each application is not required.
- 5 Flange gaskets and O-rings should be supplied to WSA PS-312.
- 8 Pressure Class and type of fitting shall be as specified in the Project Specification or on the Design Drawings.

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PRODUCT SPECIFICATION

WSA PS - 327 TAPPING BANDS, MECHANICAL, FOR USE WITH POLYETHYLENE (PE) MAINS FOR PRESSURE APPLICATIONS – WATER SUPPLY

327.1 SCOPE

This specification covers mechanical tapping bands for pressure applications in connecting property services to PE water reticulation mains¹.

327.2 REQUIREMENTS

(a) Tapping bands shall comply with AS/NZS 4129:2008/Amdt 1:2013.

327.3 QUALITY ASSURANCE

- (a) Tapping bands shall have product certification (ISO Type 5) to AS/NZS 4129:2008/Amdt 1:2013.
- (b) All products shall be marked in accordance with the conformity assessment body's requirements.

327.4 AGENCY OR PROJECT SPECIFIC REQUIREMENTS

| Nominal pipe size, DN, and off-take size, mm | |
|--|--|
| Pressure Class, PN | |
| Series RP or Series RC internal outlet thread ² | |
| | |

NOTES:

- 1 Includes drinking water and recycled water supply. Colour differentiation is not required.
- 2 Where a tapered RC external threaded fitting is to be screwed into a plastic bodied tapping band, a tapered RC internal outlet thread is recommended.

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APPENDIX D - SUPPLIER CONTACTS

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