

WSAA PRODUCT APPRAISAL CERTIFICATE

AVK Australia Holding Pty Ltd Ductile Iron Fittings

This appraisal is for a range of DI polymeric coated ductile iron pipeline fittings in sizes from DN 80 to DN 750 with pressure classes PN 16 and PN 35, manufactured in accordance with AS/NZS 2280:2020 *Ductile iron pipes and fittings*.

AVK supplies Viadux Pty Ltd with their range of SUREFLOW® branded ductile iron fittings.

A listing of Quality Certificates and details of products are included in the attached Schedules A and B.

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|-----------------------------------|---|
| Product Category | Ductile iron fittings |
| PA Number: | PA 1016 Issue 8 |
| Applicant: | AVK Australia Holding Pty Ltd |
| Brand | SUREFLOW |
| Standards | AS/NZ 2280:2020 <i>Ductile iron pipes and fittings</i> |
| WSAA Product Specification | WSA PS 201 <i>Ductile Iron Fittings (CIOD) for Pressure and Non-Pressure Applications – Drinking Water and Non-Drinking Water Supply and Sewerage</i> |
| Other Specifications | |
| Issue date | 31 July 2023 |
| Expiry date | 9 June 2027 |
| Recommendations | It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise the range of Sureflow ductile iron fittings in sizes from DN 80 to DN 750 for use in water supply and sewerage pressure pipelines, provided they are manufactured and installed in accordance with applicable WSAA Codes and the manufacturer's requirements, where specified. |
| Disclaimer | The disclaimer on Page 2 explains a number of very important limits on your ability to rely on the information in this Product Appraisal Certificate and the assessment criteria used to underlay it. Please read it carefully and take it into account when considering the content in this Certificate. |

1. Disclaimer

This Product Appraisal Certificate (Certificate) is issued by WSAA on the understanding that:

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

To maintain the recommendations of this Certificate any such changes shall be detailed and notified to the Product Appraisal Manager for consideration and review of the Certificate including the product appraisal criteria underlying it 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. Certificates will be reviewed and reissued at regular intervals not exceeding five (5) years.

WSAA reserves the right to withdraw this Certificate at any time in its sole and absolute discretion for any reason.

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

Any enquiries regarding this Certificate should be directed to the Product Appraisal Manager Phone: 03 8605 7601 email carl.radford@wsaa.asn.au.

1.1. Issue of Certificate

This Certificate has been published and/or prepared by WSAA and nominated Project Manager and peer group of technical specialists (the Publishers).

The Certificate and the underlying product appraisal criteria have been prepared for use within Australia only by technical specialists that have expertise in the function of products such as those appraised in the Certificate (the Recipients).

By accepting this Certificate, the Recipient acknowledges and represents to the Publisher(s) and each person involved in the preparation of the Certificate and product appraisal criteria underlying it that the Recipient has understood and accepted the terms of this Disclaimer.

1.2. Limits on Reliance on Information and Recommendations

1.2.1. Disclaimer of liability

Neither the Publisher(s) nor any person involved in the preparation of the Certificate and product appraisal criteria underlying it accept(s) any liability for any loss or damage suffered by any person however caused (including negligence or the omission by any person to do anything) relating in any way to the Certificate or the product appraisal criteria underlying it. This includes (without limitation) any liability for any recommendation or information in the Certificate or any errors or omissions.

1.2.2. Intellectual Property and other rights

WSAA does not undertake any assessment of whether the importation, manufacture, sale or use of the Product the subject of this Certificate infringes the intellectual property rights or proprietary rights of any person. Recipients of the Certificate should undertake their own assessment of whether (as relevant) the importation, manufacture, sale or use of the relevant Products infringe the intellectual property rights or other proprietary rights of any person. If the Product infringes intellectual property rights or other proprietary rights there is potential for the supply of the Products to be interrupted.

From time to time WSAA and the other Publishers may receive notice of allegations that the importation, manufacture, sale or use of the Product infringes intellectual property rights or other proprietary rights. WSAA's policy is to not refer to such allegations in its Certificate or take any other steps to put Recipients on notice of such allegations. If, however, WSAA becomes aware that the allegations have been admitted or proved in Court, then WSAA may, at its discretion, take such steps as it considers appropriate. As such, Recipients acknowledge, agree and accept that WSAA may have information in its possession about intellectual property rights infringement allegations or other infringement allegations in relation to the Product which are not referred to or disclosed in this Certificate and which are not otherwise communicated to Recipients.

1.2.3. Need for independent assessment

The information and any recommendation contained (expressly or by implication) in this Certificate are provided in good faith (and subject to the limitations noted in this Certificate). However, you should treat the information as indicative only. You should not rely on that information or any such recommendation except to the extent that you reach an agreement to the contrary with the Publisher(s).

This Certificate does not contain all information that a person might require for the purposes of assessing any product discussed or appraised within it. The product appraisal criteria used in preparing this Certificate may not address all relevant aspects of the Product.

Recipients should seek independent evidence of any matter which is material to their decisions in connection with an assessment of the Product and consult their own advisers for any technical information required. Any decision to use the Product should take into 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 Certificate, especially given that any recommendation will not take into account a Recipient's particular needs or circumstances.

WSAA has not evaluated the extent of the product liability and professional indemnity insurance that the provider of the product maintains. Recipients should ensure that they evaluate the allocation of liability for product defects and any professional advice obtained in relation to the product or its specification including the requirements for product liability and professional indemnity insurance.

1.3. No Updating

Neither the Publisher(s) nor any person involved in the preparation of this Certificate or the product appraisal criteria underlying it [has] [have] any obligation to notify you of any change in the information contained in this Certificate or of any new information concerning the Publisher(s) or the Product or any other matter.

1.4. 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 Certificate, or the accuracy, completeness or reasonableness of any recommendation in this Certificate.

QUALITY AND PRODUCT CERTIFICATIONS

Copies of the following Quality and Product Certification Certificates are available from WSAA.

**TABLE A1
AVK AUSTRALIA HOLDING PTY LTD – MANAGEMENT SYSTEMS**

| 559A Grand Junction Road, Wingfield, SA | |
|---|------------------|
| Quality Systems Standard | ISO 9001:2015 |
| Certification Licence No. | QEC13894 |
| Certifying Agency | SAI-Global |
| First Date of Certification | 30 April 2001 |
| Current Date of Certification | 10 February 2021 |
| Expiry Date of Certification | 14 February 2024 |

**TABLE A2
AVK VALVES (ANHUI) CO LTD – MANAGEMENT SYSTEMS**

| Wujiang Industrial Park Hexian Ma'anshan City Anhui China | |
|---|----------------|
| Quality Systems Standard | ISO 9001:2015 |
| Certification Licence No. | FM 84039 |
| Certifying Agency | BSI |
| First Date of Certification | 9 July 2004 |
| Current Date of Certification | 8 October 2021 |
| Expiry Date of Certification | 7 October 2024 |

**TABLE A3
VIADUX PTY LTD – MANAGEMENT SYSTEMS**

| Campbellfield VIC, Wetherill Park NSW, Molendinar QLD | |
|---|------------------|
| Quality Systems Standard | ISO 9001:2015 |
| Certification Licence No. | 228-Q-5 |
| Certifying Agency | GCC |
| First Date of Certification | 4 September 2017 |
| Current Date of Certification | 11 April 2022 |
| Expiry Date of Certification | 3 September 2023 |

TABLE A4
AVK AUSTRALIA HOLDING PTY LTD – PRODUCT CERTIFICATION

| 559A Grand Junction Road, Wingfield, SA. | |
|--|-------------------|
| Product Standard/Spec. | AS/NZS 2280:2020 |
| Certificate No. | SMKP20172 |
| Issuing Certification Body | SAI-Global |
| First Date of Certification | 19 September 2003 |
| Current Date of Certification | 18 July 2023 |
| Expiry Date of Certification | 9 January 2025 |

PRODUCT LITERATURE

A comprehensive range of literature is available from the Viadux website at: <https://www.viadux.com.au/product-range-guide>

The introduction pages for TYTON JOINT and flanged fittings are included below.

VIADUX
WATER NETWORK SOLUTIONS

TYTON JOINT®
DUCTILE IRON FITTINGS

DN 80 - DN 750. MANUFACTURED TO AS/NZS 2280



The TYTON® socket profile provides the flexibility of using TYTON gaskets for ductile iron OD compatible pipes, PLASTYT gaskets for series 1 PVC pipes or TYTON-LOK® gaskets for restrained joints. Joints can be deflected and permits axial movement to compensate for thermal expansion and contraction.

DESCRIPTION

SUREFLOW® TYTON JOINT fittings are manufactured to AS/NZS 2280
Flange dimensions comply with AS 4087
DN 80 - DN 750

GENERAL APPLICATION

SUREFLOW TYTON JOINT pipeline fittings are used in the construction of new pipelines
Note: Some fittings have been superseded by the AUSLITE range.

TECHNICAL DATA

Size Range
DN 80 - DN 750

Allowable Operating Pressure
1600 or 3500kPa

Maximum Temperature
70°C

Certification
ISO 9001 AS/NZS 2280 Certified Product
AS/NZS 4020 Testing of products for use in contact with drinking water.

FERRIOUS SYSTEMS / TYTON DI FITTINGS

1.52 |



TYTON JOINT® DUCTILE IRON FITTINGS

DN 80 - DN 750. MANUFACTURED TO AS/NZS 2280



The TYTON® socket profile provides the flexibility of using TYTON gaskets for ductile iron OD compatible pipes, PLASTYT gaskets for series 1 PVC pipes or TYTON-LOK® gaskets for restrained joints. Joints can be deflected and permits axial movement to compensate for thermal expansion and contraction.

DESCRIPTION

SUREFLOW® TYTON JOINT fittings are manufactured to AS/NZS 2280
Flange dimensions comply with AS 4087
DN 80 - DN 750

GENERAL APPLICATION

SUREFLOW TYTON JOINT pipeline fittings are used in the construction of new pipelines

Note. Some fittings have been superseded by the AUSLITE range.

TECHNICAL DATA

Size Range

DN 80 - DN 750

Allowable Operating Pressure

1600 or 3500kPa

Maximum Temperature

70°C

Certification

ISO 9001 AS/NZS 2280 Certified Product

AS/NZS 4020 Testing of products for use in contact with drinking water.



SUPPLIER CONTACTS

AVK AUSTRALIA HOLDING PTY LTD

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Email: enquiries@avkau.com.au

Website: www.avkcivil.com.au/en-au

VIADUX PTY LTD

Website store locator: <https://www.viadux.com.au/about-us/locations>