



AVK Australia Holding Pty Ltd

PRODUCT APPRAISAL REPORT 2204

AVK Ductile Iron Pipeline Fittings

AS/NZS 2280:2020 Ductile iron fittings

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Peer Reviewers

Name/Title	Organisation	Date
Product Appraisal Technical Advisory Group	WSAA	30 August 2022
WSAA Expert Panel	WSAA	30 August 2022
Peter Pittard, WSAA Consultant	WSAA	16 August 2022
Carl Radford, Product Appraisal Manager	WSAA	8 September 2022

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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1 EXECUTIVE SUMMARY

AVK Australia Holding Pty Ltd is part of the AVK Global Group, an international manufacturer of valves and fittings for the water, gas, sewerage and fire protection industries.

The ductile iron fittings are manufactured at AVK Currumbin in Queensland and AVK Anhui in China.

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

The DI fittings range includes AVK branded DI fittings with wall thicknesses complying with AS/NZS 2280:2020 Appendix H.

Socketted fittings incorporate the T- type joint.

AVK Australia and AVK Anhui both hold ISO 9001:2015 Quality Management System Licences.

The ductile iron fittings range has ISO Type 5 StandardsMark product certification to AS/NZS 2280:2020.

The fittings included in this report are deemed to meet the requirements of WSA PS 201 *Ductile Iron Fittings (CIOD) for Pressure and Non-Pressure Applications – Drinking Water, Non-Drinking Water Supply and Sewerage* and are considered as 'fit-for-purpose'.

1.1 Recommendations

It is recommended that WSAA members and associates accept or authorise the AVK range of DI fittings as detailed in this report for use in water supply and sewerage pressure pipelines, provided they are manufactured and installed in accordance with applicable standards, WSAA codes and manufacturers' requirements.

2 THE APPLICANT

The Applicant is AVK Australia Holding Pty Ltd.

2.1 The Manufacturer

AVK Australia Holding Australia Pty Ltd is privately owned and part of the AVK Group which is comprised of more than 100 companies operating in more than 35 countries. AVK is a leading international manufacturer of valves and pipeline accessories.

AVK Australia incorporates AVK Valves, AVK Wang, AVK Currumbin, AVK Flow Control and AVK Complete Tapping Service. The company utilises its local manufacturing footprint as well as the AVK Global production supply chain to service pipeline infrastructure, water treatment, sewage processing, fire protection, irrigation, dams, reservoirs, mining operations and gas distribution.

AVK has been manufacturing in Australia for over 20 years and specialises in a range of valves, hydrant, couplings, repair clamps, tapping saddles, pipe fittings and other fittings and specialty products.

The ductile iron fittings are either manufactured at AVK Currumbin in Queensland or supplied by AVK Anhui in China. AVK Anhui sources castings from quality accredited foundries and undertakes testing and coating at their premises.

3 THE PRODUCT

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

The DI fittings range includes AVK branded DI fittings with wall thicknesses complying with AS/NZS 2280:2020 Appendix H.

The DI fittings are fully coated and lined with a thermal-bonded polymeric coating in accordance with AS/NZS 4158.

Socketed fittings incorporate the T-type elastomeric seal joint design.

Flanges may be traditional circular shaped or lightweight alternative shaped flanges in conformance with AS/NZS 4087 Figure B5 (PN16) or B6 (PN35).

4 SCOPE OF THE APPRAISAL

The appraisal applies to the AVK range of PN16 and PN35 ductile iron polymeric coated fittings in sizes from DN 80 to DN 750 and included in the ISO Type 5 StandardsMark Product Certification Schedule.

5 APPRAISAL CRITERIA

5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts ductile iron fittings manufactured in compliance with AS/NZS 2280:2020 *Ductile iron pipes and fittings* 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

The AVK range of ductile iron fittings has been appraised for compliance to AS/NZS 2280:2020 *Ductile iron pipes and fittings*.

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 Specification is relevant to this application:

- WSA PS 201 - Ductile Iron Fittings (CIOD) for Pressure and Non-Pressure Applications – Drinking Water, Non-Drinking Water Supply and Sewerage.

A copy of the Product Specification is available at the following link:

<https://www.wsaa.asn.au/shop/product/60961>

6 COMPLIANCE WITH APPRAISAL CRITERIA

6.1 Compliance with Quality Assurance Requirements

AVK has submitted the following quality certificates:

- ISO 9001:2015 Certificate of Registration No. QEC 13894 issued to AVK Australia Holding Pty Ltd by SAI-Global
- ISO 9001:2015 Certificate of Registration FM 84039 issued to AVK Valves (Anhui) Co Ltd by BSI.
- AS/NZS 2280:2020 ISO Type 5 StandardsMark Product Certification Licence No. SMK 20172 issued to AVK Australia Holding Pty Ltd by SAI-Global.

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

6.2 Compliance with Performance Requirements

6.2.1 Material requirements

6.2.1.1 Ductile iron

AS/NZS 2280 requires DI fittings to conform to minimum tensile strength of 400 MPa and minimum elongation of 10%. AVK has submitted test reports from both AVK Currumbin and AVK Anhui casting suppliers to demonstrate compliance with this requirement.

6.2.1.2 Wall thickness

The minimum wall thicknesses of PN16 and PN35 fittings exceed the minimum requirements specified in AS/NZS 2280:2020 Appendix H.

6.2.2 Elastomeric joint

AVK fittings sockets are T-type and designed for joining to spigots of AS/NZS 2280 ductile iron pipes and Series 2 spigots of AS/NZS 1477 PVC-U, AS/NZS 4441 PVC-O, AS/NZS 4765 PVC-M and AS 3518 ABS pressure pipes.

The AVK fittings sockets are also suitable for use with Series 1 PVC pipes using adaptor seals manufactured in EPDM elastomer complying with AS 1646.

AVK has submitted Type Test Reports No's T64616 and T64617 prepared by the Pentair NATA Accredited Laboratory (No. 747) for PA 1016 to demonstrate compliance of the elastomeric seal joints with the requirements of AS/NZS 2280.

AVK fittings socket depth of engagement is in excess of AS/NZS 2280 minimum requirements. The depth of engagement past the rubber seal allows for any contraction of plastic pipe and the potential lack of pipe end squareness.

AVK fittings socket depths of engagement compared to the minimum requirements of AS/NZS 2280 is shown in Table 1.

TABLE 1 DEPTH OF ENTRY BEYOND THE ELASTOMERIC SEAL

DN	AVK Depth of Entry	AS/NZS 2280 Minimum Depth of Entry
100	72	42
150	79	50
200	92	58
225	94	62
250	99	66
300	109	71
375	107	83
450	107	60* / 95
500	112	60* / 102
600	122	60* / 118

750	82	80* / 131
* Suitable for ductile iron fittings for use with ductile iron pipes only		

Guidelines for the use of non-metallic pipes with ductile iron sockets are given in WSA TN2. The maximum recommended seal joint deflection is given in Table 2 and exceeds the minimum requirements of AS/NZS 2280.

TABLE 2 JOINT DEFLECTIONS

DN	Maximum deflection
100 – 300	5°
375	4°
450-750	3°

6.2.3 Elastomeric seals

The elastomeric seals for AVK fittings are supplied by their distributors.

6.2.4 Thermal bonded polymeric coatings

AS/NZS 2280 requires that thermal bonded polymeric coatings on fittings comply with AS/NZS 4158.

The coating is Akzo Nobel Resicoat R4 Fusion Bonded Epoxy which has ISO Type 5 Product Certification. A copy of the licence is held on file by WSAA.

The coatings are applied at either the AVK Currumbin or AVK Anhui facilities.

Copies of application procedures and a sample of factory test results have been supplied for both sites.

Copies of reports have been submitted for both AVK Currumbin and AVK Anhui to demonstrate compliance with the process verification tests in AS/NZS 4158.

Application procedures are also audited by SAI-Global in conjunction with AS/NZS 2280 StandardsMark certification procedures.

6.2.5 Flanges

AVK fittings flanges comply with AS/NZS 4087 Figure B5 (PN16) or Figure B6 (PN 35). Flanges may be traditional circular shaped or lightweight alternative shaped flanges in conformance with AS/NZS 4087.

6.2.6 Contact with drinking water

AS/NZS 2280 requires compliance with AS/NZS 4020.

A test report undertaken by NSF International on 22nd February 2018 for Akzo Nobel Resicoat R4 is held on file by WSAA to demonstrate conformance with AS/NZS 4020:2005.

7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

Ductile iron fittings are considered a mature product in the industry and installation procedures are well established.

8 PRODUCT MARKING

AVK product marking is cast on the fittings as follows in conformance with AS/NZS 2280:2020.

- Manufacturers name or mark: AVK
- Nominal size: e.g., DN 100
- Ductile" or "DI":
- Where applicable, the angle of the bend.
- Pressure Classification: PN 16, PN 35
- The number of the standard i.e., AS/NZS 2280.

9 PACKAGING AND TRANSPORTATION

A layer of cardboard is placed on the pallet; the castings are placed on the cardboard then shrink-wrapped with polyethylene wrapping.

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 AVK's warranty is included in their terms and conditions of sale.

11 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD-TESTING REPORT

Ductile iron fittings have been in common usage for many years. It is deemed unnecessary to conduct a field trial as nothing new can be learned.

12 OUTCOMES OF EXPERT PANEL REVIEW

No comments received.

13 FUTURE WORKS

No future works have been identified for this Appraisal.

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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This Report does not contain all information that a person might require for the purposes of assessing any product discussed or appraised within it (Product). The product appraisal criteria used in preparing this Report 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 Report, 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 indemnify 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.

14.3 No Updating

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

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

A comprehensive range of literature is available from the AVK website at: <https://www.avkcivil.com.au/>

DUCTILE IRON FITTINGS FOR WATER

 <p>Series 718 Ductile iron fitting to AS/NZS 2280 SOxSO Bend DN100-750 PN35</p>	 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Flanged dimensions to AS 4087/AS 2129 Flanged Bend DN80-750 PN16/35</p>	 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Flanged dimensions to AS 4087 Duckfoot Bend DN100-600 PN16/35</p>
 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Flanged dimensions to AS 4087/AS 2129 Flanged Bellmouth DN100-600 PN16/35</p>	 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Flanged dimensions to AS 4087 Hydrant Riser DN80-150 PN16/35</p>	 <p>Series 718 Ductile iron fitting to AS/NZS 2280 SO-SOxSO Tee DN100-750 PN35</p>
 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Flanged dimensions to AS 4087 Hydrant Bend DN100-150 PN16/35</p>	 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Flanged dimensions to AS 4087/AS 2129 Washout Bend DN100-150 PN16/35</p>	 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Flanged dimensions to AS 4087 SO-SPxFL Tee Air Valve & Hydrant DN100-750 PN16/35</p>
 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Flanged dimensions to AS 4087/AS 2129 SO-SOxFL Tee DN100-750 PN16/35</p>	 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Flanged dimensions to AS 4087/AS 2129 SP-SPxFL Tee DN80-750 PN16/35</p>	
 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Flanged dimensions to AS 4087/AS 2129 Invert Scour Tee SO-SOxFL DN100-750 PN16/35</p>	 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Flanged dimensions to AS 4087/AS 2129 Flanged Tee DN80-750 PN16/35</p>	 <p>Series 718 Ductile iron Fitting to AS/NZS 2280 Flanged dimensions to AS 4087/AS 2129 Flanged Taper DN100-750 PN16/35</p>
 <p>Series 718 Ductile iron fitting to AS/NZS 2280 SOxSO Taper DN150-750</p>	 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Pre-tapped Connector for house service connections Single & multiple outlets Options: • DN100-300, PN35 for single outlets • DN100-150, PN16 for multiple outlets</p>	 <p>Series 718 Ductile iron fitting to AS/NZS 2280 End Cap DN80-750 PN35</p>
 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Flanged dimensions to AS 4087/AS 2129 FL-SP Connector DN80-750 PN16/35</p>	 <p>Series 718 Ductile iron fitting to AS/NZS 2280 Flanged dimensions to AS 4087/AS 2129 FL-SOC Connector DN80-750 PN16/35</p>	 <p>Series 718 Ductile iron fitting to AS/NZS 2280 SOC-SOC Connector DN100-750 PN35</p>

APPENDIX B - QUALITY CERTIFICATIONS

Copies of the following quality certificates are available from WSAA.

TABLE B1

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 B2

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 B3

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	30 May 2022
Expiry Date of Certification	18 September 2023



CERTIFICATE OF REGISTRATION

This is to certify that:

AVK Australia Holding Pty Ltd

ABN 11 081 236 777

AVK Valves Pty Ltd

ABN 25 615 247 544

AVK Flow Control Pty Ltd

ABN 80 153 707 398

AVK CTS Pty Ltd

Trading as Complete Tapping Service

ABN 59 621 126 207

AVK Wang Pty Ltd

ABN 29 605 784 343

AVK Currumbin Pty Ltd

ABN 24 615 602 250

559A Grand Junction Road Wingfield SA 5013 AUSTRALIA

(Refer to Attachment to Certificate of Registration dated 12 February 2021 for additional certified sites)

operates a

QUALITY MANAGEMENT SYSTEM

which complies with the requirements of

ISO 9001:2015

for the following scope

The manufacture, marketing and sale of valves and associated products including stainless steel pipe couplings, tapping saddles and flange off take clamps and the provision of under pressure tapping, line stopping and valve insertion services.

Certificate No: QEC13894

Issued: 12 February 2021

Originally Certified: 30 April 2001

Expires: 14 February 2024

Current Certification: 10 February 2021

Frank Camasta
Global Head of Technical Services
SAI Global Assurance



ISO 9001



WWW.JAS-ANZ.ORG/REGISTER

Registered by:

SAI Global Certification Services Pty Ltd (ACN 108 716 669) 680 George Street Sydney NSW 2000 Australia with SAI Global Pty Limited 680 George Street Sydney NSW 2000 Australia ("SAI Global") and subject to the SAI Global Terms and Conditions for Certification. While all due care and skill was exercised in carrying out this assessment, SAI Global accepts responsibility only for proven negligence. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. To verify that this certificate is current please refer to SAI Global On-Line Certification register at <http://register.saiglobal.com/>





Certificate of Registration

质量管理体系 – ISO 9001:2015

兹证明：
埃维柯阀门（安徽）有限公司
91340500730038975J
中国
安徽省
马鞍山市
和县
乌江工业园区
邮编：238251

AVK Valves (Anhui) Co., Ltd.
Wujiang Industrial Park
He County
Ma'anshan
Anhui
238251
China

持有证书：**FM 84039**

并运行符合 ISO 9001:2015 要求的质量管理体系，认证范围如下：

用于供水、污水处理、消防和供气的阀门及其附件的制造。
The manufacture of valves and accessories for water supply, sewage treatment, firefighting and gas supply.

BSI代表：

Chris Cheung, 亚太地区 合规风险主管

首次发证日期：2004-07-09

生效日期：2021-10-08

最新发证日期：2021-09-14

有效期至：2024-10-07



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关于证书范围及 ISO 9001:2015 要求的适用性的进一步说明请咨询BSI。

获证组织必须定期接受监督审核并经审核合格此证书方继续有效。

此证书只在提供完整正本时才有效。

信息查询及联系方式：BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. 电话：+44 345 080 9000

BSI保证英国有限公司，注册地英国，注册号7805321。地址：389 Chiswick High Road, London W4 4AL, UK

英标管理体系认证（北京）有限公司 北京市建国门外大街甲24号东海中心2008室 邮编：100004 电话：+86 10 85073000

BSI集团公司成员。

The Product Schedule for this Certification may be obtained from AVK, WSAA or at the following link:

<https://register.saiglobal.com/client/schedule.aspx?setID=SF01&custID=AS010846&appCertNo=SMKP20172>



STANDARDSMARK LICENCE

SAI Global hereby grants:

AVK Australia Holding Pty Ltd

ABN 11 081 236 777

63 Currumbin Creek Road, Currumbin, QLD 4223, Australia
559A Grand Junction Road, Wingfield, SA 5013, Australia

StandardsMark Licence

Manufactured to:
AS/NZS 2280:2020 - Ductile iron pipes and fittings

"the StandardsMark Licensee" the right to use the STANDARDSMARK as shown below only in respect of the goods described and detailed in the Schedule which are produced by the Licensee or on behalf of the Licensee* and which comply with the appropriate Standard referred to above as from time to time amended. The Licence is granted subject to the rules governing the use of the STANDARDSMARK and the Terms and Conditions for certification and licence. The Licensee covenants to comply with all the Rules and Terms and Conditions.

Certificate No:SMKP20172

Issued: 30 May 2022	Originally Certified: 19 September 2003
Expires: 18 September 2023	Current Certification: 30 May 2022



Calin Moldovean
President, Business Assurance
SAI Global Assurance



Certified Product
Australian Standard



JAS-ANZ
www.jas-anz.org/register

*** For details of manufacture, refer to the licensee**

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