

AVK Australia Holding Pty Ltd

PRODUCT APPRAISAL REPORT PA 1117 Issue 3

Wang Vari-Tap Ductile Iron Tapping Bands

AS/NZS 4793:2020 – Mechanical tapping bands for waterworks purposes

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Peer Reviewers

Name/Title	Organisation	Date
Product Appraisal Technical Advisory Group	WSAA	28 November 2011
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Carl Radford, Product Appraisal Manager	WSAA	10 August 2018
Peter Pittard, WSAA Consultant	WSAA	26 January 2024
Carl Radford, Product Appraisal Manager	WSAA	29 January 2024

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.

Wang Vari-Tap tapping bands are distributed exclusively by Viadux Pty Ltd and Reece Limited.

This Appraisal is for Wang Vari-Tap PN16 ductile iron tapping bands in sizes DN 100 and DN 150 with 3/4" or 1" BSP tapped outlets manufactured in conformance with AS/NZS 4793:2020 Mechanical tapping bands for waterworks purposes.

This Issue 3 is a replacement for the previous version of the appraisal which had reached its 5-year expiry date.

The body consists of two segments manufactured from ductile iron and coated with a thermal bonded polymeric coating.

The Wang Vari-Tap tapping bands may be assembled with one of two configurations to suit either rigid pipes (Type R) or flexible pipes (Type F).

The Type F configuration is designed for application on Series 2 flexible pipes typically PVC-U, PVC-M and PVC-O.

The Type R configuration is designed for application on rigid pipes only, typically ductile iron (DI), grey cast iron (CI), asbestos cement (AC), ABS (≥ PN9) or GRP (≥ SN10,000).

The segments each incorporate a tongue and groove such that when assembled the Type F tapping band provides a full circle design around a flexible pipe. When the top is rotated 180 degrees to suit a Type R configuration, the tongues butt, creating an increased circumference to accommodate a wider range of pipe outside diameters. Type R configured tapping bands are not full circle and are therefore not suitable for flexible plastic pipes.

A watertight connection is achieved by a nitrile rubber seal with a combination lip / compression design. Assembly is completed using two Grade 316 stainless steel fasteners.

AVK holds an ISO 9001:2015 Quality Management System Licence.

The Wang Vari-Tap tapping bands have ISO Type 5 StandardsMark Product Certification to AS/NZS 4793:2020 *Mechanical tapping bands for waterworks purposes*.

This Appraisal has determined that DN 100 and DN 150 Wang Vari-Tap tapping bands, as detailed in this report, meet the requirements of WSA PS 310 *Tapping Bands-Mechanical for Pressure Applications – Water Supply* and are considered as 'fit for purpose'

1.1 Recommendation

It is recommended that WSAA members and associates, subject to any specific requirements of the member, accept or authorise Wang Vari-Tap DN 100 and DN 150 tapping bands, as detailed in this report, for tapping into water reticulation pipelines, provided any relevant conditions relating to the design, installation, acceptance testing and commissioning are in accordance with WSAA Codes and the manufacturer's 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.

AVK Wang, located in Wangaratta Victoria, manufactures stainless steel repair, tapped and flanged clamps, tapping bands, couplings and other maintenance and repair products

2.2 The Supplier

Wang Vari-Tap tapping bands are distributed exclusively through Viadux and Reece.

Viadux Pty Ltd, a member of the Reece Group, is a supplier of water, wastewater and industrial pipeline solutions. It provides products and services for applications throughout the water, irrigation, mining, building, oil and gas, power and process industries.

Reece Limited is a major public company and Australia's most successful supplier of plumbing and bathroom products with over 450 stores across Australia, more than 4,000 staff and thousands of products.

3 THE PRODUCT

This Appraisal is for Wang Vari-Tap PN16 ductile iron tapping bands in sizes DN 100 and DN 150 with 3/4" or 1" BSP tapped outlets manufactured in conformance with AS/NZS 4793:2020 Mechanical tapping bands for waterworks purposes.

Tapping bands provide a means for the connection of property services to water reticulation pipelines.

The body consists of two segments manufactured from ductile iron and coated with a thermal bonded polymeric coating.

The Wang Vari-Tap tapping bands may be assembled with one of two configurations to suit either rigid pipes (Type R) or flexible pipes (Type F).

The Type F configuration is designed for application on Series 2 flexible pipes typically PVC-U. PVC-M and PVC-O. The tapping bands are not compatible with Series 1 PVC pipes.

The Type R configuration is designed for application on rigid pipes only, typically ductile iron (DI), grey cast iron (CI), asbestos cement (AC), ABS (≥ PN9) or GRP (≥ SN10,000).

The segments each incorporate a tongue and groove such that when assembled the Type F tapping band provides a full circle design around a flexible pipe. When the top is rotated 180 degrees to suit a Type R configuration, the tongues butt, creating an increased circumference to accommodate a wider range of pipe outside diameters. Type R configured tapping bands are not full circle and are therefore not suitable for flexible plastic pipes.

To assist in correct installation of the tapping band an F or R will be visible on the face of the bottom segment to indicate the configuration of the assembly.

A watertight connection is achieved by a nitrile rubber seal with a combination lip / compression seal. Assembly is completed using two Grade 316 stainless steel fasteners. The nuts are coated with molybdenum-disulphide to prevent galling during installation.

Wang Vari-Tap tapping bands are not supplied with anti-tuberculation inserts.

4 SCOPE OF THE APPRAISAL

The scope of this appraisal applies to Wang Vari-Tap ductile iron tapping bands in sizes DN 100 and DN 150 with $20/\frac{3}{4}$ " or 25/1" female threaded BSP off takes.

See Table 1 for pipes suitable for Wang Vari-Tap tapping bands with Type F configuration and Table 2 for pipes suitable for Wang Vari-Tap tapping bands with Type R configuration.

TABLE 1 - PIPES SUITABLE FOR TYPE F CONFIGURATION

Nominal Size	Outlet Size, dn	Pipe OD	Part Number:	AS/NZS 4441 PVC-O Series 2	AS/NZS 4765 PVC-M Series 2	AS/NZS 1477 PVC-U Series 2
DN 100	20 (3/4")	122	KTFD-122T020	✓	✓	✓
DN 100	25 (1")		KTFD-122T025	✓	✓	✓
DN 150	20 (3/4")	177	KTFD-177T020	✓	✓	✓
	25 (1")		KTFD-177T025	✓	✓	✓

TABLE 2 - PIPES SUITABLE FOR TYPE R CONFIGURATION

	DN	100	DN	150
Outlet Size, BSP	20 (3/4") 25 (1")		20 (3/4")	25 (1")
Pipe OD Range, mm	113 – 122	113 – 122	168 – 177	168 – 177
Part Number	KTFD-122T020	KTFD-122T025	KTFD-177T020	KTFD-177T025
AS 1579 (MSCL)	✓	✓	✓	✓
AS 1074 (GWI)	✓	✓	✓	✓
AS/NZS 2280 (DI)	✓	✓	✓	✓
ISO 2531 (DI)	✓	✓	✓	✓
AS 1724 (CICL - B)	✓	✓	✓	✓
AS 2544 (CICL - C)	✓	✓	✓	✓
AS 1711 (AC)	✓	✓	✓	✓
AS 4058 (RC)	✓	✓	✓	✓
AS 3518 (ABS) ≥ PN9	√	✓	✓	✓
AS 3571 (GRP) ≥ SN10,000	✓	✓	✓	✓

5 APPRAISAL CRITERIA

5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts mechanical tapping bands manufactured in compliance with AS/NZS 4793:2020 – *Mechanical tapping bands for waterworks purposes* 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

Wang Vari-Tap tapping bands have been appraised for compliance with AS/NZS 4793:2020 – *Mechanical tapping bands for waterworks purposes.*

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 also relevant to this application:

WSA PS- 310 Tapping Bands – Mechanical for Pressure Applications – Water Supply.

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
- AS 4793:2020 StandardsMark Product Certification Licence No. SMK00278 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.

Copies of Quality Assurance certificates have also been supplied for the major component suppliers.

6.2 Compliance with Performance Requirements

6.2.1 Type Testing

Type test reports submitted for the original appraisal were completed by Tyco Water Technologies, a NATA accredited laboratory. AVK Wang advises that there has been no change to the design of the tapping bands since that time.

The tests were conducted for both Type F and Type R configurations for DN 100 x 25/1" and DN 150 x 25/1" tapping bands.

The tests undertaken were: assembly test, leak tightness test during application of a bending moment on the connecting pipe, joint infiltration test, hydrostatic leak tightness test, resistance to rotation, longitudinal sliding and depressurization and bi-metallic couple.

6.2.2 Materials

6.2.2.1 Body

The castings are manufactured by Fanchang Jinke Electromechanical Technology Co Ltd.

AS/NZS 4793 specifies that ductile iron body castings shall comply with Grade 500-7 or 400-15. AVK has provided a material test certificate to demonstrate compliance with Grade 400-15

6.2.2.2 Bolts, nuts, and washers

The fasteners used on the Wang Vari-Tap are standard M16 x 65 Grade 316 stainless steel hex head bolts, nuts and washers. The nuts are coated with molybdenum-disulphide to assist in preventing galling during installation.

The bolt heads are seated in a recess on the bottom half of the body and retained in position by an O-ring to allow installation using a single tool from above the pipeline.

6.2.2.3 Elastomeric seal

The compression / hydrostatic lip seal used in the Wang Vari-Tap tapping bands is moulded from Nitrile rubber by Thong Nhat Rubber Company Ruthimex and supplied by Gulf Rubber under cover of an ISO Type 5 StandardsMark Product Certification. A copy of the licence and schedule is held on file by WSAA.

6.2.2.4 Polymeric Coatings

AS/NZS 4793 requires that DI tapping bands are coated with a polymeric coating complying with AS/NZS 4158 Thermal bonded polymeric coatings on valves and fittings for water industry purposes.

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 by AVK.

SAI-Global includes auditing of the coating operations during associated StandardsMark product certification surveillance audits.

A type test report undertaken by Akzo Nobel has been submitted to demonstrate conformance with the process verification tests nominated in AS/NZS 4158.

A copy of the application procedures and typical batch release test records have also been submitted.

6.2.2.5 Effect on water

The fusion bonded epoxy coating and nitrile rubber seal are the materials in contact with water.

A Certificate of Conformity dated 19th September 2022 issued by SAI-Global for Akzo Nobel Resicoat R4 is held on file by WSAA to demonstrate conformance with AS/NZS 4020:2018.

A test report undertaken by Australian Water Quality Centre (NATA Accreditation No 1115) dated 19th December 2019 for the 4881S Nitrile material is held on file by WSAA to demonstrate compliance with AS/NZS 4020:2018.

6.2.3 Design

6.2.3.1 Outlet threads

The Wang Vari-Tap tapping bands are tapped to 20/3/4" or 25/1" BSP Type Rp parallel threads conforming to ISO 7.1:2008 *Pipe threads where pressure-tight joints are made on the threads - Dimensions, tolerances and designation.* The threads are gauged with a calibrated go/no-go gauge to ensure compliance to specifications.

7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

Each Wang Vari-Tap is supplied with a double-sided installation guide attached to the tapping band. The installation guide contains written and pictorial steps for product configuration and installation, with a pipe compatibility table on the reverse side.

See Appendix A for a copy of the installation guide.

8 PRODUCT MARKING

The Wang Vari-Tap tapping bands have the following marking moulded on the body castings.

· Manufacturer: WANG

Nominal Size: DN 100 or DN 150

Configuration Type: F or R

· Manufacturers Batch Code: Moulded on both halves

The Wang Vari-Tap tapping bands also have a custom label with the following information:

Product Item Number: e.g., KTFD-122T025

• Pressure Rating: AOP - 1600kPa

• Pipe OD Range: e.g., Range (113 – 122)

Installation Tension: Torque 80Nm

• Thread Type: (RP) Series 2

Standard: AS/NZS 4793Licence No.: SMK00278

• Date of assembly: e.g., 11/05/2018

See Figure 1 for an example of marking.



FIGURE 1 EXAMPLE OF MARKING

9 PACKAGING AND TRANSPORTATION

The Wang Vari-Tap tapping bands are packaged in cardboard cartons designed to prevent damage from handling and transport.

See Figure 2 for an example of packaging.



FIGURE 2 EXAMPLE OF PACKAGING

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

The Wang Vari-Tap has been in use for many years and has a wide range of Approvals. Additional field testing was not considered necessary for this appraisal.

12 DISCUSSION

The table below highlights the recommendations of use for the Wang Vari-Tap tapping bands.

TABLE 3 VARI-TAP USE

Product Detail	Recommendation
Suitable Applications	Pipelines used in water reticulation, waste water and irrigation
Limitations	Maximum service temperature 40°C, not suitable for Series 1 PVC
Advantages	Suitable for both flexible and rigid pipeline applications, corrosion resistant.

13 FUTURE WORKS

There are no outstanding future works items.

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, 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.

14.2 Limits on Reliance on Information and Recommendations

14.2.1 Disclaimer of liability

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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.

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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

VARI-TAP TAPPING SADDLES



STANDARD CLAMP DATA

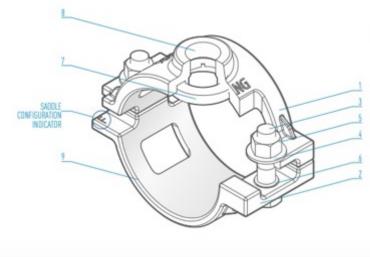
Nom. Size mm	Offtake Size mm	Code Prefix	No.of Studs	Stud Size	No. of Saddle Segments	Saddle Width mm	OD Range*
100	20, 25	KTFD	2	M16	2	90	113 - 122
150	20, 25	KTFD	2	M16	2	90	168 - 177

TYPICAL SPECIFYING SEQUENCE

Еха	mple	KT	F	D	1	122	Т	020
KT	– Tapping Saddle							
F	- Flexible pipe							
0	= DI-FBE coated sa	addle body						
-	- Delineator							
122*	= Saddle 00 in flex	ible confi	guration					
T	= Offtake type (ind	icates ferr	nale threa	ded BSP o	fftake)			
020	- Nominal offtake 020 - DN 20 / 025							











VARI - TAP DI TAPPING SADDLE

CERTIFIED TO AUSTRALIAN AND NEW ZEALAND STANDARD AS/NZS 4793

PIPE COMPATIBILTY FOR SADDLE CONFIGURATIONS

	PIPE MATERIAL	PIPE STANDARD
	PVC-U (Sr.2 only)	AS/NZS 1477
F CONFIGURATION	PVC-M (Sr.2 only)	AS/NZS 4765
FOR RIGID PIPE	PVC-O (Sr.2 only)	AS/NZS 4441
	HDPE (PN 12.5 or higher)	AS/NZS 4130
	MSCL	AS 1579
	GWI	AS 1074
	DICL	
		AS/NZS 2280
		ISO 2531
	CICL - Class B	AS 1724
R CONFIGURATION	CICL - Class C	AS 2544
FOR FLEXIBLE PIPE	AC - Class AB & CD	AS 1711
	ABS (PN 9 or higher)	AS 3518
	GRP (SN 10,000 or higher)	AS 3571

IMPORTANT - PLEASE READ PRIOR TO INSTALLATION

The nitrile rubber gasket in this product is only recommended for use in temperatures ranging from -10°C to 60°C.

Type R configuration should not be used on pipe with a ring stiffness rating of less than SN 10,000

WANG Components, Cnr. Gibson & Sandford Roads Wangaratta , Victoria 3677, Australia Phone (61) 03 5722 7400

F20:52R3

APPENDIX B - QUALITY CERTIFICATIONS

Copies of the following Quality Certificates are available from WSAA.

TABLE B1 AVK AUSTRALIA HOLDING PTY LTD - MANAGEMENT SYSTEMS

Cnr Sanford I	Cnr Sanford Road and Gibson Street Wangaratta Victoria				
Quality Systems Standard	ISO 9001:2015				
Certification Licence No.	QEC 13894				
Certifying Agency	SAI Global				
First Date of Certification	30 April 2001				
Current Date of Certification	15 June 2021				
Expiry Date of Certification	14 February 2024				

TABLE B2 AVK AUSTRALIA HOLDING PTY LTD -PRODUCT CERTIFICATION

Cnr Sanford Roa	Cnr Sanford Road and Gibson Street Wangaratta Victoria 3677				
Product Standard/Spec. AS/NZS 4793:2020					
Certificate No.	SMK00278				
Issuing Certification Body	SAI Global				
First Date of Certification	28 June 2010				
Current Date of Certification	7 June 2023				
Expiry Date of Certification	13 January 2025				



This is to certify that:

AVK Australia Holding Pty Ltd

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

559A Grand Junction Road Wingfield SA 5013 AUSTRALIA (Refer to Attachment to Certificate of Registration dated 26 June 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: 26 June 2021 Expires: 14 February 2024 Originally Certified: 30 April 2001 Current Certification: 15 June 2021

AVK Wang Pty Ltd

AVK Currumbin Pty Ltd

ABN 29 605 784 343

ABN 24 615 602 250

Frank Camasta Global Head of Technical Services SAI Global Assurance







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 https://register.saiglobal.com/





SAI Global hereby grants:

AVK Australia Holding Pty Ltd

559A Grand Junction Road, Wingfield, SA 5013, Australia Cnr Sanford Road and Gibson Street, Wangaratta, VIC 3677, Australia

StandardsMark Licence

Manufactured to:

AS 4793:2020 - Mechanical tapping bands for waterworks purposes

"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.

Licence No: SMK00278

Issued: 8 June 2023 Expires: 13 January 2025 Originally Certified: 28 June 2010 Current Certification: 7 June 2023

Calin Moldovean President, Business Assurance SAI Global Assurance





* For details of manufacture, refer to the licensee The STANDARDSMARK is a registered certification trademark of SAI Global Pty Limited SAI GLOBAL (A.C.N. 050 644 642) and is issued under licence by SAI Global Certification Services Pty Limited (ACN 108 716 669) ("SAI Global") 650 Lorimer Street, , Port Melboume VIC 3207, GPO Box 5420 Sydney NSW 2001. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. Refer to www.saiglobal.com, for the list of product models.

SCHEDULE TO STANDARDSMARK LICENCE

Model Identification	Model Name	Brand Name	Product Description	OD Pipe Range	Nominal Size	Maximum Operationg Pressure	Tapping Size	Date Endorsed
KT4	N/A	WANG	Stainless Steel Tapping Band	390mm - 410mm	350	1600 kPa	8SP20, 8SP25, 8SP32, 8SP40, 8SP50	6 Jun 2023
KT4	N/A	WANG	Stainless Steel Tapping Band	410mm - 430mm	375	1600 kPa	BSP20, BSP25, BSP32, BSP40, BSP50	6 Jun 2023
KT4	N/A	WANG	Stainless Steel Tapping Band	440mm - 460mm	400	1600 kPa	BSP20, BSP25, BSP32, BSP40, BSP50	6 Jun 2023
KT4	N/A	WANG	Stainless Steel Tapping Band	470mm - 510mm	450	1600 kPa	BSP20, BSP25, BSP32, BSP40, BSP50	6 Jun 2023
KTFD	Vari-Tap	WANG	Coated Ductile Iron Tapping Band	113mm - 122mm	100	1600 kPa	BSP20, BSP25	6 Jun 2023
KTFD	Vari-Tap	WANG	Coated Ductile Iron Tapping Band	168mm - 177mm	150	1600 kPa	BSP20, BSP25	6 Jun 2023

End of Record

Licence No: SMK00278 Issued Date: 8 June 2023

This schedule supersedes all previously issued schedules



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the Schedule for the list of product models.

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APPENDIX C - SUPPLIER CONTACTS

AVK AUSTRALIA HOLDING PTY LTD

559A Grand Junction Road, Wingfield, SA

Tel: (08) 8368 0900

Email: enquiries@avkau.com.au

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

VIADUX PTY LTD

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

REECE CIVIL

Website store locator: https://www.reece.com.au/storefinder



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