

WSAA PRODUCT APPRAISAL CERTIFICATE

Clover Pipelines Pty Ltd Gunmetal Mechanical Tapping Bands

This Appraisal is for a range of Clover branded PN16 gunmetal mechanical tapping bands for use with DIOD pipes including Series 2 PVC-O, PVC-M, PVC-U, AC and GRP pipes.

The tapping saddles included in the Scope of this Appraisal are Type F in sizes DN 100 to DN 300 with tapping sizes of ¾", 1" or 2" BSP and incorporate a full circle design with a positive stop.

Gunmetal tapping bands are not suitable for use with DI pipes unless appropriate insulation is provided to counteract potential bi-metallic corrosion.

The tapping bands included in this appraisal are not compatible with Series 1 PVC pipes or polyethylene pipes.

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

Product Category	Tapping Bands
PA Number:	PA 2043
Supplier	Clover Pipelines Pty Ltd
Brand	Clover
Standards	AS 4793:2020 <i>Mechanical tapping bands for waterworks purpose</i>
WSAA Product Specification	WSA PS 310 <i>Tapping Bands – Mechanical for Pressure Applications – Water Supply</i>
Other Specifications	-
Issue date	Wednesday 16 th June 2021
Expiry date	Monday 15th June 2026
Recommendations	It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise the Clover gunmetal tapping bands for use with DIOD 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.
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 underlie it. Please read it carefully and take 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.

SCHEDULE A - QUALITY AND PRODUCT CERTIFICATIONS

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

**SCHEDULE A1
CLOVER PIPELINES PTY LTD - MANAGEMENT SYSTEMS**

27 Rex Road Campbellfield	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	AMI-QM-78026
Certifying Agency	ApprovalMark International
Current Date of Certification	12 May 2014
Expiry Date of Certification	26 August 2019
Quality Systems Standard	26 August 2022

**SCHEDULE A2
NINGBO YONGXIANG COPPER PIPELINE CO LTD- MANAGEMENT SYSTEMS**

Hehuaqiao Industrial Zone Yunlong Town Ningbo Zhejiang China	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	00121Q31772R1M/3300
Certifying Agency	China Quality Certification Centre
First Date of Certification	13 March 2018
Current Date of Certification	February 20 2021
Expiry Date of Certification	March 12 2024

**SCHEDULE A3
YONGXIANG COPPER PRODUCTS (AUST) PTY LTD – PRODUCT CERTIFICATION**

Product Standard/Spec.	AS 4793:2020
Certificate No.	3003
Issuing Certification Body	Australian Certification Services Pty Ltd
First Date of Certification	15 July 2011
Current Date of Certification	27 May 2021
Expiry Date of Certification	14 July 2026



CLOVER GUNMETAL TAPPING BANDS

DN	Tapping Size BSP	Pipe OD	Pipes
			PVC-M, PVC-O, PVC-U, AC, GRP
100	3/4", 1", 2"	122	✓
150	3/4", 1", 2"	177	✓
200	3/4", 1", 2"	232	✓
225	3/4", 1", 2"	259	✓
250	3/4", 1", 2"	286	✓
300	3/4", 1", 2"	345	✓



TAPPING BAND: GUNMETAL

PVC SERIES 1&2, POLYETHYLENE, GRP,
AC & GAL STEEL PIPELINE SYSTEMS

Clover gunmetal tapping bands are manufactured to AS4793 and AS/NZS4129 for use in pressurised water applications. Tapping bands allow for the connection of water service pipes to a pipeline.



FEATURES

- Options available to suit a wide range of pipe materials including PVC, Polyethylene, GRP and AC.
- Highest Quality Materials – Australian Standards Certified.
- Available with 20mm BSP to 50mm BSP Threaded Connections.
- Full circle design dezincification resistant (DZR) Gunmetal Body.
- 316 Stainless Steel Fasteners with Anti-Seize coating for anti-gawling protection.
- Extensive inventory available for immediate delivery. Full range of associated ferrules, ball valves and accessories available.

APPLICATIONS

Suitable for above and below ground water and wastewater applications. Clover Gunmetal tapping bands are designated for use on flexible pipelines (Type F).

TECHNICAL DATA

Size Range:	Series 2 OPVC, MPVC, UPVC, GRP & AC Pipelines: DN100 to DN450 Series 1 OPVC, MPVC, UPVC & Steel Pipelines: DN50 to DN375 Polyethylene Pipelines: DN63 to DN400
Allowable Operating Pressure:	1600kPa
Maximum Temperature:	40°
Product Standards:	AS/NZS4793 – Mechanical Tapping Bands for waterworks purposes. AS/NZS4129 – Fittings for polyethylene (PE) pipes for pressure applications. AS/NZS 4020 – Testing of products for use in contact with drinking water. WSA PS-310 – Tapping Bands: Mechanical for pressure applications – Water supply. WSA PS-327 – Tapping Bands: Mechanical for Use with Polyethylene (PE) Mains for Pressure Applications – Water Supply.
Product Licence:	3003 (Australian Certification Services)

SUPPLIER CONTACTS

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