



WSAA PRODUCT APPRAISAL CERTIFICATE

Stockbrands Co Pty Ltd

4N Mechanical Tapping Bands for DIOD and PE Pipes

This appraisal is for a range of Stockbrands 4N mechanical tapping bands manufactured in compliance with AS 4793:2020 *Mechanical tapping bands for waterworks purposes* for use with DIOD and PE pipes.

This Issue 4 is a replacement for the previous version of the appraisal which had reached its 5-year expiry date. It also incorporates tapping bands for PE pipe, previously covered by PA 1019, as AS 4793:2020 and WSA PS 310 now incorporates those products within their scopes.

The PN16 tapping bands are moulded from Noryl resin, a glass reinforced polymer. The tapping bands are designed for pipe compatibilities as follows:

- (a) DIOD and Series 2 pipes including PVC-O, PVC-M, PVC-U, DI, CI and GRP. These tapping bands are designated as Type F and Type R (for both flexible and rigid pipes) and are coloured blue.
- (b) Polyethylene (PE) pipes. These tapping bands are designated Type F (for flexible pipes) and are coloured black.
- (c) Tapped outlet sizes are ¾" (dn20), 1" (dn25), 1¼" (dn32), 1½" (dn40) or 2" (dn50).

Purple coloured tapping bands are also available for non-drinking water pipelines.

| | |
|-----------------------------------|---|
| Product Category | Tapping Bands |
| PA Number | 1018 Issue 4 |
| Supplier | Stockbrands Co Pty Ltd |
| Brand | 4N |
| WSAA Product Specification | WSA PS 310 |
| Issue date | 31 August 2021 |
| Expiry date | 30 August 2026 |
| Recommendations | It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise the range of Stockbrands 4N tapping bands for use with standard reticulation pipelines, as detailed in this report, 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 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.

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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 CERTIFICATIONS

A copy of the following Quality Certificates is available from WSAA.

TABLE A1 STOCKBRANDS CO PTY LTD – MANAGEMENT SYSTEMS

| 53 Edward Street Osborne Park WA | |
|----------------------------------|------------------|
| Quality Systems Standard | ISO 9001:2015 |
| Certification Licence No. | W618031-QA |
| Certifying Agency | ECAAS Pty Ltd |
| First Date of Certification | 29 December 1995 |
| Current Date of Certification | 12 December 2021 |
| Expiry Date of Certification | 12 February 2024 |

TABLE A2 ACE PLASTICS PTY LTD – MANAGEMENT SYSTEMS

| 53 Edward Street Osborne Park WA | |
|----------------------------------|------------------|
| Quality Systems Standard | ISO 9001:2015 |
| Certification Licence No. | W618031-QB |
| Certifying Agency | ECAAS Pty Ltd |
| First Date of Certification | 29 December 1995 |
| Current Date of Certification | 11 February 2021 |
| Expiry Date of Certification | 12 February 2024 |

TABLE A3 STOCKBRANDS CO PTY LTD – PRODUCT CERTIFICATION

| 53 Edward Street Osborne Park WA | |
|----------------------------------|-----------------------------------|
| Product Standard/Spec. | AS 4793:2020 |
| Certificate No. | 3004 |
| Issuing Certification Body | Australian Certification Services |
| First Date of Certification | 15 July 2011 |
| Current Date of Certification | 20 August 2021 |
| Expiry Date of Certification | 14 July 2026 |



PRODUCT LITERATURE



WATER TAPPING BANDS

4N Tapping Bands are suitable for a multitude of pipes with numerous benefits. They are precision moulded in a high grade, engineered plastic with Grade 316 stainless steel bolts and nuts coated in a specially formulated anti galling compound.

FEATURES

- Manufactured from high quality, glass reinforced Noryl resin
- Grade 316 Stainless Steel nuts and bolts
- Nuts are coated with anti galling compound
- The E-Lip seal requires low bolt torque to be effective, therefore reduces point loading on the pipe
- Colour coded to match pipe types for easy field identification
- Easy to install
- 4N Tapping Bands are available to suit pipes from 40 to 315mm and are available with a 20, 25, 32, 40 and 50mm BSP threaded off-take
- 4N Tapping Bands have Water Service Association of Australia (WSAA) appraisal and carry the Watermark certification.



TECHNICAL DATA

| | |
|--------------------|---|
| Size Range: | White PVC Pipe: DN40 - DN300 Blue PVC Pipe/Ductile Iron: DN100 - DN300 PE (Polyethylene) Pipe: DN63 - DN315 |
| Pressure Rating: | 1600kPa |
| Temperature Range: | -40°C to 70°C |
| Product Standards: | AS/NZS 4793:2020 - Mechanical Tapping Bands for waterworks purposes. |

APPLICATIONS

4N Tapping Bands are engineered for use above or below ground for the transfer of potable water, recycled water and in the irrigation and utilities industries.

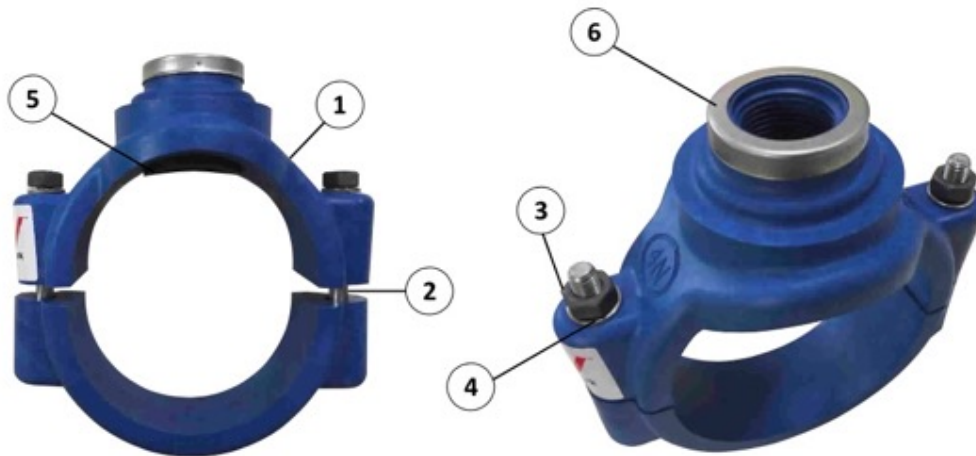
DATA SHEET





WATER TAPPING BANDS

DATA SHEET



Series 2 shown (S2-TB10025)

PARTS and MATERIAL

| No. | Description | Material | Quantity |
|-----|------------------|-------------------------------|----------|
| 1 | Body | High grade engineered plastic | 1 |
| 2 | Bolt | Grade 316 Stainless Steel | 2 |
| 3 | Nut | Grade 316 Stainless Steel | 2 |
| 4 | Washer | Grade 316 Stainless Steel | 2 |
| 5 | E-Lip Seal | EPDM Rubber | 1 |
| 6 | Reinforcing Ring | Grade 316 Stainless Steel | 1 |

DIMENSIONS

| Series 1 and 2 Tapping Bands | | | PE Tapping Bands | | |
|------------------------------|-----------|----------|------------------|-----------|----------|
| Size (mm) | Hex Bolts | Hex Nuts | Size (mm) | Hex Bolts | Hex Nuts |
| 40 | M10 x 40 | M10 | 63 | M10 x 40 | M10 |
| 50 | M10 x 40 | M10 | 90 | M10 x 70 | M10 |
| 80 | M10 x 70 | M10 | 110 | M10 x 100 | M10 |
| 100 | M10 x 100 | M10 | 125 | M10 x 100 | M10 |
| 150 | M10 x 100 | M10 | 160 | M10 x 100 | M10 |
| 155 | M10 x 100 | M10 | 180 | M10 x 100 | M10 |
| 195 | M10 x 100 | M10 | 225 | M10 x 100 | M10 |
| 200 | M10 x 100 | M10 | 250 | M10 x 100 | M10 |
| 225 | M10 x 100 | M10 | 315 | M10 x 100 | M10 |
| 250 | M10 x 100 | M10 | | | |
| 300 | M10 x 100 | M10 | | | |
| 315 | M10 x 100 | M10 | | | |





WATER TAPPING BANDS

DATA SHEET

SERIES 2 PRODUCT RANGE

| Product Code | Product Description | DN | OD |
|-------------------------------|-----------------------|-------|-------------|
| <i>Series 2 Tapping Bands</i> | | | |
| CP-TB4020 | 40X20mm T/Band Copper | 40mm | 38.1mm |
| CP-TB4025 | 40X25mm T/Band Copper | 40mm | 38.1mm |
| CP-TB5020 | 50X20mm T/Band Copper | 50mm | 50.8mm |
| CP-TB5025 | 50X25mm T/Band Copper | 50mm | 50.8mm |
| S2-TB10020 | 100X20mm std T/Band | 100mm | 122 +/- 0.8 |
| S2-TB10025 | 100X25mm std T/Band | 100mm | 122 +/- 0.8 |
| S2-TB10032 | 100X32mm std T/Band | 100mm | 122 +/- 0.8 |
| S2-TB10040 | 100X40mm std T/Band | 100mm | 122 +/- 0.8 |
| S2-TB10050 | 100X50mm std T/Band | 100mm | 122 +/- 0.8 |
| S2-TB15020 | 150X20mm std T/Band | 150mm | 177 +/- 0.8 |
| S2-TB15025 | 150X25mm std T/Band | 150mm | 177 +/- 0.8 |
| S2-TB15032 | 150X32mm std T/Band | 150mm | 177 +/- 0.8 |
| S2-TB15040 | 150X40mm std T/Band | 150mm | 177 +/- 0.8 |
| S2-TB15050 | 150X50mm std T/Band | 150mm | 177 +/- 0.8 |
| S2-TB20020 | 200X20mm std T/Band | 200mm | 232 +/- 0.8 |
| S2-TB20025 | 200X25mm std T/Band | 200mm | 232 +/- 0.8 |
| S2-TB20032 | 200X32mm std T/Band | 200mm | 232 +/- 0.8 |
| S2-TB20040 | 200X40mm std T/Band | 200mm | 232 +/- 0.8 |
| S2-TB20050 | 200X50mm std T/Band | 200mm | 232 +/- 0.8 |
| S2-TB22520 | 225X20mm std T/Band | 225mm | 259 +/- 0.8 |
| S2-TB22525 | 225X25mm std T/Band | 225mm | 259 +/- 0.8 |
| S2-TB22532 | 225X32mm std T/Band | 225mm | 259 +/- 0.8 |
| S2-TB22540 | 225X40mm std T/Band | 225mm | 259 +/- 0.8 |
| S2-TB22550 | 225X50mm std T/Band | 225mm | 259 +/- 0.8 |
| S2-TB25020 | 250X20mm std T/Band | 250mm | 286 +/- 0.8 |
| S2-TB25025 | 250X25mm std T/Band | 250mm | 286 +/- 0.8 |
| S2-TB25032 | 250X32mm std T/Band | 250mm | 286 +/- 0.8 |
| S2-TB25040 | 250X40mm std T/Band | 250mm | 286 +/- 0.8 |
| S2-TB25050 | 250X50mm std T/Band | 250mm | 286 +/- 0.8 |
| S2-TB30020 | 300X20mm std T/Band | 300mm | 345 +/- 0.8 |
| S2-TB30025 | 300X25mm std T/Band | 300mm | 345 +/- 0.8 |
| S2-TB30032 | 300X32mm std T/Band | 300mm | 345 +/- 0.8 |
| S2-TB30040 | 300X40mm std T/Band | 300mm | 345 +/- 0.8 |
| S2-TB30050 | 300X50mm std T/Band | 300mm | 345 +/- 0.8 |

NOTE: Also available in LILAC for recycled water.





WATER TAPPING BANDS

DATA SHEET

PE PRODUCT RANGE

| Product Code | Product Description | DN | ID |
|-------------------------|---------------------|-------|-------|
| <i>PE Tapping Bands</i> | | | |
| TB-PE6320 | 63X20mm std T/Band | 63mm | 63mm |
| TB-PE6325 | 63X25mm std T/Band | 63mm | 63mm |
| TB-PE9020 | 90X20mm std T/Band | 90mm | 90mm |
| TB-PE9025 | 90X25mm std T/Band | 90mm | 90mm |
| TB-PE9032 | 90X32mm std T/Band | 90mm | 90mm |
| TB-PE9040 | 90X40mm std T/Band | 90mm | 90mm |
| TB-PE9050 | 90X50mm std T/Band | 90mm | 90mm |
| TB-PE11020 | 110X20mm std T/Band | 110mm | 110mm |
| TB-PE11025 | 110X25mm std T/Band | 110mm | 110mm |
| TB-PE11032 | 110X32mm std T/Band | 110mm | 110mm |
| TB-PE11040 | 110X40mm std T/Band | 110mm | 110mm |
| TB-PE11050 | 110X50mm std T/Band | 110mm | 110mm |
| TB-PE12520 | 125X20mm std T/Band | 125mm | 125mm |
| TB-PE12525 | 125X25mm std T/Band | 125mm | 125mm |
| TB-PE12532 | 125X32mm std T/Band | 125mm | 125mm |
| TB-PE12540 | 125X40mm std T/Band | 125mm | 125mm |
| TB-PE12550 | 125X50mm std T/Band | 125mm | 125mm |
| TB-PE16020 | 160X20mm std T/Band | 160mm | 160mm |
| TB-PE16025 | 160X25mm std T/Band | 160mm | 160mm |
| TB-PE16032 | 160X32mm std T/Band | 160mm | 160mm |
| TB-PE16040 | 160X40mm std T/Band | 160mm | 160mm |
| TB-PE16050 | 160X50mm std T/Band | 160mm | 160mm |
| TB-PE18020 | 180X20mm std T/Band | 180mm | 180mm |
| TB-PE18025 | 180X25mm std T/Band | 180mm | 180mm |
| TB-PE18032 | 180X32mm std T/Band | 180mm | 180mm |
| TB-PE18040 | 180X40mm std T/Band | 180mm | 180mm |
| TB-PE18050 | 180X50mm std T/Band | 180mm | 180mm |
| TB-PE22520 | 225X20mm std T/Band | 225mm | 225mm |
| TB-PE22525 | 225X25mm std T/Band | 225mm | 225mm |
| TB-PE22532 | 225X32mm std T/Band | 225mm | 225mm |
| TB-PE22540 | 225X40mm std T/Band | 225mm | 225mm |
| TB-PE22550 | 225X50mm std T/Band | 225mm | 225mm |



NOTE: Also available in LILAC for recycled water.



WATER TAPPING BANDS

DATA SHEET

PE PRODUCT RANGE CONT'D

| Product Code | Product Description | DN | ID |
|--------------------------------|---------------------|-------|-------|
| <i>PE Tapping Bands cont'd</i> | | | |
| TB-PE25020 | 250X20mm std T/Band | 250mm | 250mm |
| TB-PE25025 | 250X25mm std T/Band | 250mm | 250mm |
| TB-PE25032 | 250X32mm std T/Band | 250mm | 250mm |
| TB-PE25040 | 250X40mm std T/Band | 250mm | 250mm |
| TB-PE25050 | 250X50mm std T/Band | 250mm | 250mm |
| TB-PE31520 | 315X20mm std T/Band | 315mm | 315mm |
| TB-PE31525 | 315X25mm std T/Band | 315mm | 315mm |
| TB-PE31532 | 315X32mm std T/Band | 315mm | 315mm |
| TB-PE31540 | 315X40mm std T/Band | 315mm | 315mm |
| TB-PE31550 | 315X50mm std T/Band | 315mm | 315mm |

NOTE: Also available in LILAC for recycled water.



DISCLAIMER

Information contained in this data sheet is up to date and correct as at the date of issue. As 4N Products cannot control or anticipate the conditions under which these products may be used, each user should review the information in specific context of the planned use. To the maximum extent permitted by law, 4N Products will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet. No express or implied warranties are given other than those implied mandatory by law.



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