



WSAA PRODUCT APPRAISAL CERTIFICATE

Steel Mains Pty Ltd Compact Dismantling Joints

This Appraisal is for a range of compact dismantling joints in sizes from DN 100 to DN 1200 with either PN16 or PN35 pressure classifications. The dismantling joints are manufactured from minimum Class 250 mild carbon steel and coated with a polymeric FBE coating. Other components are Grade 316 stainless steel fasteners and an EPDM seal. The dismantling joints are compatible with both steel and ductile iron AS/NZ 4087 PN 16 or PN 35 flanges.

Other flanges, sizes and pressure classifications can be accommodated when required.

The dismantling joint is sandwiched between adjoining flanges which provides full thrust restraint.

The unique Steel Mains compact dismantling joint features significantly reduced length requirements compared to traditional dismantling joints and offers reduced mass, simple installation / removal and angular misalignment tolerance.

Dismantling joints are commonly utilised in flanged pipelines to facilitate the removal of a valve for maintenance or replacement purposes.

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

| | |
|-----------------------------------|--|
| Product Category | Dismantling Joints |
| PA Number: | PA 2056 |
| Supplier | Steel Mains Pty Ltd |
| Brand | Steel Mains |
| Standards | - |
| WSAA Product Specification | WSA PS 284 <i>Dismantling Joints</i> |
| Issue date | 19 February 2021 |
| Expiry date | 18 February 2026 |
| Recommendations | It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise Steel Mains compact dismantling joints, as detailed in the Appraisal report, for use in water supply and sewerage pipeline systems provided they are installed in accordance with WSAA codes and 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.

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

APPENDIX A - QUALITY AND PRODUCT CERTIFICATIONS

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

TABLE A1

STEEL MAINS PTY LTD – MANAGEMENT SYSTEMS

| | |
|------------------------------------|------------------|
| 125-127 Patullos Lane Somerton Vic | |
| Quality Systems Standard | ISO 9001:2015 |
| Certification Licence No. | QEC1034 |
| Certifying Agency | SAI-Global |
| First Date of Certification | 16 January 1989 |
| Current Date of Certification | 30 December 2020 |
| Expiry Date of Certification | 24 January 2024 |

APPENDIX B PRODUCT LITERATURE



COMPACT DISMANTLING JOINT

DN 100 TO DN 1200 RESTRAINED



NEW PATENTED* COMPACT DISMANTLING JOINT



COMPACT DISMANTLING JOINT INSTALLED

FEATURES

Steel Mains' new and improved unique patented* Compact Dismantling Joint features the following benefits over existing designs:

- Reduced mass for easy handling
- 100% restrained - External flange bolts "sandwich" the Compact Dismantling Joint
- Significantly reduced length requirements
- Easy installation and removal for servicing pipeline components
- Angular misalignment tolerance
- Integrated effective sealing system activated by compression
- Suitable for high pressure applications

DESCRIPTION

Steel Mains' Compact Dismantling Joint design is highly advanced with upgraded features. The length of the joint is now shorter compared to previous designs, enabled by the Integrated Seal Design and reduced thickness of the Sealing Flanges. The joint can now be safely installed in tight and constricted locations or where space is at a premium.

The complete assembly is sandwiched in compression between the Pipe Flange and the Pipeline Component making it one of the easiest dismantling joints to install and remove, saving time and money.



COMPACT DISMANTLING JOINT

DN 100 TO DN 1200 RESTRAINED

SPECIFICATIONS

| MATERIALS & STANDARDS | |
|--------------------------|--|
| Flange Drilling | AS 4087, AS 4331 or to customer specification * |
| Steel | Grade 250 Steel (min) to AS1594 |
| Compression Bolts | 316 Stainless steel grade A4 property class 70 to ISO 3506-1 |
| Nuts | AS 1112.1 Class A4-70 |
| Coating | AS/NZ 4158 |
| Sealing | EPDM Rubber to AS 1646 |



TECHNICAL DATA

Size Range 100 to 1200mm⁺

Rated Pressures PN16 and PN35

Temperature Range -40° to 70° C

Standards AS 1579 – Arc-welded steel pipes and fittings for water and waste water

Certifications Certified to AS/NZS 4020 – Suitable for contact with drinking water

* For bespoke sizes and pressures please contact your local Steel Mains Regional Sales Office

APPENDIX C SUPPLIER CONTACTS

STEEL MAINS PTY LTD

Head Office

125-127 Patullos Lane
Somerton VIC 3062

Phone: 03 9217 3110

Email: customerservice@steelmains.com

Web: <https://www.steelmains.com/>

Regional Sales

Queensland / Northern Territory

Phone: 0428 818 436

Email: greg.kennedy@steelmains.com

New South Wales

Phone: 0439 268 488

Email: tafazzul.shamsi@steelmains.com

Victoria / Tasmania / New Zealand / Asia Pacific

Phone: 0400 847 587

Email: joe.elzein@steelmains.com

South Australia / Western Australia

Phone: 0459 896 932

Email: amir.vahdani@steelmains.com