



Marine & Offshore

Certificate number: 03115/G0 BV

File number: ACM 135/2208/003

Product code: 2105H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Victaulic Company

Easton - UNITED STATES OF AMERICA

for the type of product

SLIP JOINTS / MECHANICAL JOINTS

VICTAULIC Couplings Style 99

Requirements:

- BUREAU VERITAS Rules for the Classification of Steel Ships
- BUREAU VERITAS Rules for the Classification of Offshore Units

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate is a renewal of certificate N° 03115/F2 BV expiring on 16/09/2018

This certificate will expire on: 16 Sep 2023

For Bureau Veritas Marine & Offshore,

At BV PORT EVERGLADES CENTRE, on 25 Aug 2018,

Flavio Rosas



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

VICTAULIC Couplings Style 99

1.1 Design (slip-on joints, grip type)

- The Victaulic Plain End Couplings uses grips in the couplings which bite into the pipe ends and join them
- The Victaulic Plain End Couplings are designed for use on standard weight steel pipe (Schedule 40)

1.2 Ratings

Style 99 Roust-A-Bout ®

Nominal Size - Inches (mm)	1-1/2 (40), 2 (50), 2-1/2 (65), 76.1 mm, 3 (80), 3-1/2 (90), 4 (100), 139.7 mm, 5 (125), 165.1 mm, 6 (150), 8 (200), 10 (250), 12 (300)
Max. Working Pressure - psi (bar)	232 (16)
Max. Working Temperature (°C)	-34/110 (EPDM) and -29/82 (Nitrile)

1.3 Material specification

Housing	Ductile iron to ASTM A-536
Bolts / Nuts	Carbon steel to ASTM A-183, zinc plated to ASTM B-633
Grips	Stainless steel, type 416, hardened
Gasket	EPDM or Nitrile

- Optional: Hot-dip galvanized or specially coated

When other choices of materials are used per manufacturer's recommendations, the BV agreement is to be obtained.

2. DOCUMENTS AND DRAWINGS

- Drawing N° D-C-010-099-002 Rev. H dated 14/07/2017
- Technical Data : Style 99 Roust-A-Bout Coupling 14.02 Rev.K updated 01/2014

No departure from the above documents shall be made without the prior consent of the Society. The manufacturer must inform the Society of any modification or changes to these documents and drawings.

3. TEST REPORTS

3.1 Type tests carried out under supervision of a Society's surveyor.

3.2 Fire endurance test of Style 99 Max. pressure rating 150 psi, all gasket material tested is grade EPDM according to ROI N° 1192/BVN/06 dated 09/10/2006.

4. APPLICATION / LIMITATION

4.1 May be used on board for the following services of Class II, & III:

- Fire lines / Sprinkler systems acc. to 3.2 above.

4.2 The gasket material must be compatible with the fluid to be conveyed, and the maximum working temperature according to the manufacturer's recommendation.

4.3 Assembly instructions given by the manufacturer are to be complied with the manufacturer's recommendations.

4.4 In all cases, the associated pipes are to be suitably supported and anchored. The joints are to be at any time accessible, excepting inside tanks where permitted by the Bureau Veritas rules.

4.5 The couplings are to be acceptable by the National Authorities of the country in which the ships is registered.

5. PRODUCTION SURVEY REQUIREMENTS

5.1 The products are to be supplied by **Victaulic Company** in compliance with the type described in this certificate.

5.2 This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 **Victaulic Company** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

For information, **Victaulic Company** has declared to Bureau Veritas the following production sites:

Design & Casting: Victaulic Easton Facility: 4901 Kesslersville Road, Easton PA 18040 USA

Casting: Victaulic Alburdis Facility: 8023 Quarry Road, Alburdis, PA 18011 USA

Assembly: Cast Pac Inc: 200 Cascade Drive # E, Allentown PA 18109 USA

6. MARKING OF PRODUCT

Each coupling shall be marked with at least:

- Manufacturer's name or logo
- Type designation
- Size

7. OTHERS

It is **Victaulic Company** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

This certificate supersedes the Type Approval Certificate N° 03115/F2 BV issued by the Society.

***** END OF CERTIFICATE *****