



Marine &amp; Offshore

Certificate number: 46584/A0 BV

File number: ACM 135/2208/11

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**

Style 107N QuickVic Rigid Coupling

**Requirements:**

BUREAU VERITAS Rules for the Classification of Steel Ships

*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 will expire on: 21 Jun 2022**

**For Bureau Veritas Marine & Offshore,**

At BV PORT EVERGLADES CENTRE, on 21 Jun 2017,

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](http://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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION

**VICTAULIC QuickVic Rigid Coupling, Style 107N for carbon steel and stainless steel pipes.**

#### 1.1 Rating

Nominal Size (Inches)	2"
Max. Working Pressure (psi - bar)	232 - 16
Temperature Range (°C)	-34 / 110

#### 1.2 Material specification

Coupling Housing	Ductile iron : ASTM A536, Grade 65-45-12 Ductile iron : ASTM A395, Grade 65-45-15
Gasket	EPDM Grade E

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

### 2. DOCUMENTS AND DRAWINGS

- Coupling assembly 2" N° C-000-107N-000 Rev.D dated 25/07/2013.
- Coupling housing N° H-020-107-002 Rev. I dated 12/12/2013.
- Gasket N° G-020-177N-002 Rev. D dated 23/08/2013.

*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 test reports dated 29/09/2016 including: repeat assembly test, vacuum test, tightness test, burst test & pull out test (witnessed by a BV Surveyor).
- 3.2 Pressure pulsation test dated 21/11/2016 witnessed by a BV Surveyor.
- 3.3 Vibration test report dated 05/10/2016 witnessed by a BV Surveyor.
- 3.4 Fire resistance test not carried out.

### 4. APPLICATION / LIMITATION

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

- **Flammable fluids (flash point  $\leq 60^{\circ}\text{C}$ )** – vent lines (3)
- **Inert gas** - water seal/scrubber effluent
- **Flammable fluids (flash point  $> 60^{\circ}\text{C}$ )** - fuel oil (2+3), lubricating oil (2+3), hydraulic oil (2+3), thermal oil lines (2+3)
- **Sea water** – bilge/ballast/cooling water (1), tank cleaning/non-essential lines, water/non-water filled fire extinguishing systems (3), fire main (3)
- **Fresh water** - cooling water (1), condensate return (1), non-essential lines
- **Deck drains (internal)** (5), sanitary drains
- **Sounding and venting** - water tanks/dry spaces, oil tanks (flash point  $> 60^{\circ}\text{C}$ ) (2+3)
- **Miscellaneous** - service air (non-essential), brine, steam (4)

(1) - *Not to be used inside machinery spaces of category A.*

(2) - *Not inside machinery spaces of category A or accommodation spaces. May be accepted in other machinery space provided the joints are located in easily visible and accessible positions.*

(3) - *May be used only in cases where such mechanical joints are installed on open exposed decks, as defined in SOLAS II-2/Reg. 9.2.3.3.2.2 (10) and not used for fuel oil lines.*

(4) - *May be used for pipes on deck with a design pressure of 10 bar or less.*

(5) - *Only above bulkhead deck of passenger ships and freeboard deck of cargo ships.*

4.2 Not to be used for:

- **Flammable fluids (flash point  $\leq 60^{\circ}\text{C}$ )** - cargo oil, crude oil washing
- **Inert gas** - main lines, distributions lines
- **Flammable fluids (flash point  $> 60^{\circ}\text{C}$ )** - cargo oil
- **Scuppers and discharge (overboard)**
- **Sounding and venting** - oil tanks (flash point  $> 60^{\circ}\text{C}$ )
- **Miscellaneous** - starting/control air, CO2 system

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

4.4 Assembly instructions given by the manufacturer are to be complied with the manufacturer's recommendation.

4.5 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.

## **5. PRODUCTION SURVEY REQUIREMENTS**

5.1 The product 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:

- **Victaulic Alburdis Facility : 8023 Quarry Road, Alburdis, PA 10811, USA**
- **Victaulic Polska Sp.z.o.o. : A66-530 Drezdenko, Poland, Woj. Lubuskie, Ul Niepodleglosci 8**
- **Dalian Bingshan Metals Technology Company, Ltd : No 9 Northeast 7th Street, Dalian Economy & Technology Development Zone, Dalian 116600, China**

## **6. MARKING OF PRODUCT**

Each coupling shall be clearly marked with at least:

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

## **7. OTHERS**

It is **Victaulic Company's** 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.

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