



Marine & Offshore

Certificate number: 04497/G1 BV

File number: ACM 135/2208/004

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, PA - UNITED STATES OF AMERICA

for the type of product

MECHANICAL JOINTS - SLIP-ON JOINTS - MACHINE GROOVED TYPE

VICTAULIC Hole Cut Piping System Style 920/920N Mechanical-T Bolted Branched Outlet

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 will expire on: 02 Jul 2025

For Bureau Veritas Marine & Offshore,

At BV PORT EVERGLADES CENTRE, on 29 Jun 2021,

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 electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=tjpoqgimgr>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

VICTAULIC Hole Cut Piping System Style 920/920N Mechanical-T

1.1 Ratings

Style 920/920N

Nominal Size - Inches (mm)	2 x 1/2 (50 x 15) to 8 x 4 (200 x 100)
Max. Working Pressure - psi (bar)	232 (16)
Min./Max. Working Temp. - (°C)	0/110 (EPDM) and 0/82 (Nitrile)

1.2 Material specification

Housing	Ductile iron
Bolts / Nuts	Carbon steel to ASTM A-183, zinc plated to ASTM B-633
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

- Product Submittal N° 11.02 Rev.O dated 2018
- Drawing N° D-C-020-920-012 Rev.O dated 20/08/2010
- Drawing N° D-C-076-920-044 Rev.U dated 20/08/2010
- Drawing N° D-C-054-920-057 Rev.N dated 04/12/2017
- Drawing N° D-C-020-920-011 Rev.J dated 13/07/2017

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 N° Ex 1820 dated October 15, 1987; N° Ex 2858 dated April 15, 1977 and N° Ex 2858 dated June 24, 1975 issued by Underwriters Laboratories Inc.

3.2 Fire endurance test of Style 920/920N, all gasket materials tested are grade EPDM and Nitrile according to ROI N° 2008 1034 dated 15/01/2008.

4. APPLICATION / LIMITATION

4.1 May be used for the following services on board:

- Fire lines / Sprinkler systems acc. to 3.2 above.
- Sea & Fresh water cooling and non-essential systems
- Ballast water
- Drains

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.

5.4 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

Facilities:

- **Victaulic Polska Facility: STR Niepodleglosci 8, 66-530 Drezdenko, Prov-Gorzow, Poland**
- **Dalian Bingshan Metals Technology Co. Ltd.: N° 9 Northeast 7th Street, Dalian Economy & Development Zone, Dalian, 116600 China**
- **Victaulic Piping Products (Dalian) Co. Ltd.: N° 13 Tieshan East 2nd Road, Dongjiagou Town, Dalian Development Zone, Dalian, 116630 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** 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 No. 04497/G0 BV issued by the Society.

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