



MARINE DIVISION

Certificate number: 34595/A0 BV

File number: ACM 135/2208/06

Product code: 2170H

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

PIPE COUPLING WITH O-RING SEAL

Vic-Press Compression Type Couplings

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 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: 30 Oct 2018

For BUREAU VERITAS,

At BV PORT EVERGLADES CENTRE, on 30 Oct 2013,

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. 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 Division 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 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

Vic-Press Compression Type Couplings

1.1 Design (compression couplings, press type)

Style	Type	Nominal Size inches (mm)
P507	Standard Coupling (P x P)	1/2" to 2" (15 to 50)
P508	Slip Coupling (P x P)	1/2" to 2" (15 to 50)
P560	End Cap	1/2" to 2" (15 to 50)
P562	90° Street Elbow (P x T)	1/2" to 2" (15 to 50)
P563	45° Street Elbow (P x T)	1/2" to 2" (15 to 50)
P568	90° Elbow (P x P)	1/2" to 2" (15 to 50)
P571	45° Elbow (P x P)	1/2" to 2" (15 to 50)
P572	Tee (P x P x P)	1/2" to 2" (15 to 50)
P573	Tee with Reducing Branch (P x P x P)	3/4" x 3/4" x 1/2" to 2" x 2" x 1/2" (20 x 20 x 15 to 50 x 50 x 15)
P574	Concentric Reducer (P x P)	3/4" x 1/2" to 2" x 1-1/2" (20 x 15 to 50 x 50)
P575	Flange Adapter (P x L)	1/2" to 2" (15 to 50)
P576	Male Threaded Adapter (P x M)	1/2" x 1/2" to 2" x 2" (15 x 15 to 50 x 50)
P577	Transition Nipple (G x T)	3/4" to 2" (20 to 50)
P578	Tee with Threaded Branch (P x P x F)	1/2" x 1/2" x 1/2" to 2" x 2" x 1/2" (15 x 15 x 15 to 50 x 50 x 15)
P579	Female Threaded Adapter (P x F)	1/2" x 1/2" to 2" x 2" (15 x 15 to 50 x 50)
P585	Threaded Union (P x P)	1/2" to 2" (15 to 50)

End Type Code: P=Press, F=Female Pipe Thread, M=Male Pipe Thread, T=Plain End, L=Flanged, G=Grooved

1.2 Technical Ratings

Nominal Size inches (mm)	1/2" to 2" (15 to 50)
Max. Working Pressure psi (bar)	232 (16)
Pipe Thickness	Schedule 10S Type 316 Stainless Steel Pipe

Temperature range depending on seal material selected

Seal	Temperature °F (°C)
HNBR	-20/+210 (-29/+98)
EPDM	-30/+250 (-34/+121)
Fluoroelastomer	+20/+300 (-7/+149)

1.3 Material specification

Parts	Grade
Housing Body	316 Stainless Steel
Flange, ends	316 Stainless Steel
Pipe	Schedule 10S 316/316L Stainless Steel
Seals	HNBR, EPDM, Fluoroelastomer

2. DOCUMENTS AND DRAWINGS

- Vic-Press Brochure 18.11 6839 Rev. G updated 08/2013
- Drawings list Rev. B dated 23/10/2013

The drawings list above of all Pres-Vic couplings, within the type and size range noted in section 1.1 "Product Description-Ratings" are BV Type Approved – unless otherwise noted. 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, witnessed by Class Societies: vacuum test, pull out test, tightness test, burst test and fire resistance test acc. ISO 19921/19922. Test reports dated 16-17/10/2013.
- 3.2 Pressure pulsation with vibration (fatigue) test conducted at Aero Nav Laboratories, Inc (USA). Test reports N° 12-5841-1 to -7 dated 08-19/07/2013.

4. APPLICATION / LIMITATION

4.1 To use as class III tubing/piping systems for marine and offshore applications:

- **Inert gas:** Water seal effluent lines, Scrubber effluent lines, Main lines, Distribution lines
- **Flammable fluids (Flash point > 60°C):** Cargo oil lines, Fuel oil lines, Lubricating oil lines, Hydraulic oil, Thermal oil
- **Fresh Water :** Cooling water system, Condensate return, Potable water, Dry and Wet sprinkler systems, Hot and cold water sanitary system, Non-essential system
- **Sanitary/Drains/Scuppers:** Deck drains (internal), Sanitary drains, Pool drains
- **Sounding/Vent:** Water tanks/Dry spaces, Oil tanks (flash point > 60°C)
- **Miscellaneous:** Starting/Control air, Service air (non-essential), brine, CO2 system

Footnote: If Compression Couplings include any components which readily deteriorate incase of fire, they are to be of approved fire resistant type as required for Slip-on joints.

- 4.2 The seal material is to be compatible with the fluid to be conveyed and the maximum working temperature in accordance with the manufacturer's instructions.
- 4.3 The use of stainless steel is restricted as per the requirements of the Bureau Veritas Rules.
- 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 Society's rules.
- 4.5 Couplings and seals are to be assembled with pipes in accordance with the assembly instructions given by the manufacturer.
- 4.6 The approval does not cover any pipes penetration through watertight bulkheads and fire divisions.

5. PRODUCTION SURVEY REQUIREMENTS

- 5.1 The Vic-Press couplings are to be supplied by **Victaulic Company (USA)** in compliance with the type described in this certificate. This type of product is within the category HBV of Bureau Veritas Rule Note NR320.
- 5.2 **Victaulic Company (USA)** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

Place of Production

Victaulic Company
Leland Facility
2010 Entreprise Drive
Leland, NC 28451
USA

6. MARKING OF PRODUCT

Each product is to be clearly marked with at least:

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

Mark per P-000-P500-001 Rev. J

7. OTHERS

This approval is given on the understanding that the manufacturer will accept full responsibility for informing shipbuilders or

their sub-contractors of the proper methods of fitting and general maintenance of the product and of the conditions of this approval.

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