



Marine & Offshore

Certificate number: 49248/B0 BV

File number: ACM 135/2775/1

Product code: 2140H

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

HAELOK AG

Schlieren - SWITZERLAND

for the type of product

MECHANICAL JOINTS - COMPRESSION COUPLINGS - SWAGE TYPE

SWAGE FITTINGS, types: CC, XC and XX

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: 14 Oct 2027

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 14 Oct 2022,

Adama Diene

This certificate was created electronically and is valid without signature



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.

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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:

Swage fittings, types: CC, XC and XX

1.1 Design:

Metal sealed swage type compression pipe couplings with body and press ring made of carbon steel or stainless steel.

Type CC: (body and press ring of carbon steel)

Type XC: (body of stainless steel and press ring of carbon steel)

Type XX: (body and press ring of stainless steel).

1.2 Range:

Size [DN]	Nominal pressure [bar]	Temperature [°C]
6 to 10	300	-55 to +400
15 to 25	200	-55 to +400
32 to 50	150	-55 to +400

2. DOCUMENTS AND DRAWINGS:

According to manufacturer's product catalogue "GENERAL CATALOGUE 2020", 2020

3. TEST REPORTS:

Type tests performed according to IACS Requirements at IMA, Dresden/GERMANY.

Test report N° K063/13.1 dated 13 Nov 2015 and K063/13.2 dated 20 Nov 2015.

4. APPLICATION / LIMITATION:

4.1 The fittings may be used for piping systems onboard ship:

- Firefighting systems (e.g. watermist systems)
- Domestic fresh water
- Sanitary / drain / scupper
- Sounding / vent
- Inert gas
- Non essential systems.

4.2 Assembly instructions given by the manufacturer are to be complied with.

4.3 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.

4.4 The use of the swage fittings for flammable fluids (flash point > 60 °C) is to be restricted on case by case ship basis.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 The products are to be supplied by the **HAELOK AG** 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 BUREAU VERITAS product certificate.

5.3 **HAELOK AG** 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, **HAELOK AG** has declared to BUREAU VERITAS the following production site: **HAELOK AG, Schlieren / SWITZERLAND**

6. MARKING OF PRODUCT:

The fittings are to be clearly marked with at least:

- Manufacturer's name or logo
- Type designation
- Size
- Nominal pressure
- Batch information

7. OTHERS:

- 7.1 It is **HAELOK AG**'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.
- 7.2 This certificate supersedes the Type Approval Certificate N° 49248/A2 BV issued on 20 Sep 2018 by the Society.

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