



Marine & Offshore

Certificate number: 14369/D0 BV

File number: ACM 135/2635/01

Product code: 2060H

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

ACO Industries k. s.
Pribyslav - CZECH REPUBLIC

for the type of product

PIPES & FITTINGS

ACO PIPE® stainless steel socketed pipework systems

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: 03 Oct 2027

For Bureau Veritas Marine & Offshore,

At BV PRAGUE, on 03 Oct 2022,

Pavel Jr. Stepanek

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.

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

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

ACO PIPE® stainless steel socketed pipework systems

1.1 Description

ACO PIPE® systems are jointed by a spigot and a socket type joint and fitted with sealing elements manufactured from either EPDM or Viton. The rubber seal is suitable for use in vacuum systems.

1.2 Range

Outside pipe Diameter (mm)	40, 50, 75, 110, 160
Wall thickness (mm)	1 (O.D. 50, 75, 110) 1.25 (O.D.160)
Working pressure (bar)	-0.6 to +0.5
Heat resistance of seals (continuous)	EPDM 130 °C, Viton 205 °C
Design temperature	-20°C / 80°C

1.3 Products

Pipe, bend, branch (single/double/reduction), trap, coupling, expansion socket, access unit, plug, connector, pipe/flange penetration and accessories.

1.4 Material

Pipes and fittings	AISI 304 (DIN 1.4301), AISI 316L (DIN.14404)
Seals	EPDM (black), Viton (green)

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

2. DOCUMENTS AND DRAWINGS

- Manufacturer's catalogue ACO Pipe stainless steel pipework systems dated 08/2016
- Manufacturer's brochure N° NM12563 dated 2017
- Material data sheet for EPDM dated 13/09/2022
- Material data sheet for VITON dated 13/09/2022

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

Not applicable.

4. APPLICATION / LIMITATION

4.1 - To use on board for:

- Scupper and sanitary discharge systems above the freeboard deck and below in enclosed spaces and machinery compartments without direct overboard connection. Designed for gravity or vacuum operation.

4.2 - Penetration in watertight and A-Class fire divisions is not covered by this approval. The drawing examination is subject to the Society's approval in each case.

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

4.4 - The pipes are to be properly secured and protected from mechanical damages.

5. PRODUCTION SURVEY REQUIREMENTS

5.1 - The products are to be supplied by **ACO Industries k. s.** 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 - **ACO Industries k. s.** 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 - **ACO Industries k. s.** has declared to Bureau Veritas the following production site:

ACO Industries k. s.: Havlickova 260, 58222 Pribyslav, CZECH REPUBLIC

6. MARKING OF PRODUCT

The product shall be marked with at least:

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

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 products and of the conditions of this approval.

This certificate supersedes the Type Approval Certificate N° 14369/C0 BV issued by the Society.

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