



Marine & Offshore

Certificate number: 23199/C0 BV

File number: ACM 135/2681/11 - 18

Product code: 2130H

*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*

**Parker Hannifin Manufacturing Germany GmbH & Co. KG**  
Bielefeld - GERMANY

*for the type of product*

**MECHANICAL JOINTS - COMPRESSION COUPLINGS - SCREW TYPE**  
ERMETO ORIGINAL WELD FITTINGS

**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: 18 Mar 2026**

**For Bureau Veritas Marine & Offshore,**

At BV HAMBURG, on 18 Mar 2021,

Udo Storm



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:

#### **Ermeto original weld fittings, types:**

**AS** weld connector

**WAS** weld elbow

**ASK** weld fitting for tubes

**ESV** weld bulkhead fitting

**SKA** weld nipple

**SKA-ORB** weld nipple (orbital)

**SKAR** reducing weld nipple

**SKA-RB** tube bend weld nipple

#### 1.1 Identification:

<b>File number</b>	<b>Type</b>
ACM 135/2681/11	AS
ACM 135/2681/12	WAS
ACM 135/2681/13	ASK
ACM 135/2681/14	SKA
ACM 135/2681/15	SKA-ORB
ACM 135/2681/16	SKAR
ACM 135/2681/17	SKA-RB
ACM 135/2681/18	ESV

#### 1.2 Technical data:

According to the manufacturer's catalogue 4100-10/UK.

#### 1.3 Material:

<b>Fitting</b>	<b>Standard sealing</b>
Steel	NBR
Stainless Steel	FKM

Temperature range for Seals: NBR (-35 °C to +100 °C) / FKM (-25 °C to +200 °C).

### 2. DOCUMENTS AND DRAWINGS:

According to following documents:

<b>Designation</b>	<b>Dokument no.</b>
Manufacturer's catalogue	4100-10/UK

### 3. TEST REPORTS:

According to the following type tests:

- Vibration tests witnessed by an IACS member, performed at Parker Hannifin's premises in Bielefeld / GERMANY from 05/04/2007 to 29/08/2007 and from 21/11/2007 to 23.03.2007. Test reports No. 6846, 6848, 6853, 6854, 6858, 6863, 6875, 6876 and 6903.

- Fire endurance test witnessed by an IACS member, performed at WTD-71 in Kiel / GERMANY.

- Leakage test, burst test, tightness test and repeated assembly test witnessed by BUREAU VERITAS, performed at Parker Hannifin's premises in Bielefeld / GERMANY.

### 4. APPLICATION / LIMITATION:

4.1 The weld fittings intended to be used for Marine and Offshore piping systems in combination with the EO tube fittings.

4.2 The fittings are to be at any time accessible.

- 4.3 For the bulkhead fittings, the requirements given in BUREAU VERITAS Rules have to be complied with.
- 4.4 When soft seals are used for bulkhead unions, it must be ensured that water, oil or fire cannot penetrate through the watertight bulkheads or decks.
- 4.5 In all cases, the associated pipes are to be suitably adjusted, aligned and anchored.
- 4.6 The manufacturer's assembly instructions are to be complied with.  
Tube preparation and final installation must be conducted by personal which is trained and currently certified by Parker Hannifin.  
All assemblies must be made with machines that are approved by Parker Hannifin.
- 4.7 The nature of materials, joints included, should be suitable for the intended service.

#### **5. PRODUCTION SURVEY REQUIREMENTS:**

- 5.1 The weld fittings are to be supplied by **Parker Hannifin Manufacturing Germany GmbH & Co. KG** 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 **Parker Hannifin Manufacturing Germany GmbH & Co. KG** 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, **Parker Hannifin Manufacturing Germany GmbH & Co. KG** has declared to BUREAU VERITAS the following production site:  
**Parker Hannifin Manufacturing Germany GmbH & Co. KG, Bielefeld / GERMANY**
- 5.5 Water pressure test should be carried out through watertight bulkhead for bulkhead unions.

#### **6. MARKING OF PRODUCT:**

Each weld fitting is to be clearly identified to avoid any wrong utilization as manufacturer's instructions:

- Manufacturer's name or logo
- Model
- Size
- Nominal diameter
- Nominal pressure

#### **7. OTHERS:**

- 7.1 It is **Parker Hannifin Manufacturing Germany GmbH & Co. KG'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 No. 23199/B1 BV issued on 14 Apr 2016 by the Society.

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