



European notified body
Identification number 0736



DGUV Test
Prüf- und Zertifizierungsstelle
BG Verkehr
Dienststelle Schiffssicherheit

EC-Type Examination (Module B) Certificate

Certificate No. **222.019**

Name and address of the manufacturer: ELAFLEX-Gummi Ehlers GmbH
Schnackenburgallee 121
22525 Hamburg (Germany)

Date of issue: **19.05.2015**

Annex A.1 Item No & Item designation: **A.1/3.15 c – Materials other than steel for pipes conveying oil or fuel oil (flexible pipe assemblies)**

Product designation: Flexible pipe assemblies (compensators)

Product Type: **ELAFLEX-Expansion joint type ERV-GS, nominal diameter 25 mm up to 600 mm**

Intended purpose: Flexible pipe assemblies complying with SOLAS 74/88 Chapter II-2/4, as amended, IMO-Resolution MSC.36(63)-(HSC-Code 1994) 7, 10, IMO-Resolution MSC.97(73)-(HSC-Code 2000) 7, 10, IMO MSC/Circ.1120

Testing based on (Specific standard): EN ISO 15540 (2001), EN ISO 15541 (2001)

Remarks: see overleaf

The type tested was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 96/98/EC as amended by Directive 2013/52/EU subject to any conditions in the schedule (part of this certificate).

This certificate may only be used in connection with module(s) **D, E or F** of this directive.

Expiry date: **18.05.2020**



Signature (Bork)

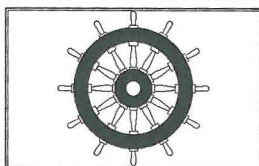


Installed equipment stays approved beyond the validity date until it is revoked!

Note 1: This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.

Note 2: 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.

Note 3: The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.



xxxx/yy

Note 4: "Wheelmark" Format

YY Last two digits of year mark affixed.

XXXX Notified Body number undertaking surveillance module

Technical data / approved drawings and additional conditions and remarks:

1.

This EC-Type Examination Certificate is based on the following documents:

- Test Certificates Flame-Tests No. 51514 (measuring tape No. 50/05, 51/05, 54/05 and 56/05) issued by "Wehrtechnischen Dienststelle für Schiffe und Marinewaffen", 24340 Eckernförde (DE), on 02.11.2005.
- Test Report No. IBB 472 of the "Dr.- Ing. T. Bäumer GmbH", 32052 Herford (DE), dated 27.08.2009.
- Letter of the company ELAFLEX-Gummi Ehlers GmbH (Mr. C. Tonn) dated 02.03.2010.
- Assessment (comparison of materials) of the company ContiTech Luftfedersysteme GmbH (Mr. J. Wicke) dated 16.03.2011.

2.

The terms of the Test Report and Test Certificates are part of this EC-Type Examination Certificate.

3.

As flanges has to be used:

Stainless steel, carbon steel, zinc plated, chromated or hot-galvanized.

4.

Application:

Mediums: Cooling water with oily anticorrosion additives, lubrication oil, seawater, diesel fuel.

Operating pressure range: 10 bar

5.

ELAFLEX-Expansion joint type ERV-GS (nominal diameter 25 mm up to 600 mm) may be manufactured and distributed also with modified interior rubber under following type designation:

- **ELAFLEX-Expansion joint type ERV-GS HNBR (nominal diameter 25 mm up to 600 mm)**

6.

Alterations in design and construction of the flexible pipe assemblies (compensators) have to be approved by the Ship Safety Division.

7.

The equipment shall be marked in accordance with article 11 of the Council Directive 96/98 EC of 20 December 1996 on Marine Equipment as amended.

8.

This EC-Type Examination Certificate replaces the old EC-Type Examination Certificate, issued on 04.05.2010 with a running time up to 31.05.2015.

9.

This EC-Type Examination Certificate may only be published or transmitted unabridged