

Description

TYPE APPROVAL CERTIFICATE No. MAC340220XG

This is to certify that the product identified below is in compliance with the regulations herewith specified.

Rubber expansion joints

Type	ERV
Carlotte Company	ERV-R
	ERV-BR
	ERV-G
	ERV-GS
	ERV-GS HNBR
	ERV-CR
	ERV-ROTEX
	ERV-OR
The state of the s	ERV-GR
	ERV-VITEX
Applicant	ELAFLEX HIBY GmbH & Co. KG
	SCHNACKENBURGALLE 121
	22525 Hamburg
	GERMANY
<i>Manufacturer</i>	ELAFLEX HIBY GmbH & Co. KG
Place of manufacture	SCHNACKENBUDGALLE 121

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22525 Hamburg

GERMANY

Reference standards RINA Rules for the classification of Ships; RINA Rules for the

classification of Naval Ships; RINA Rules for the Classification of Floating Offshore Units at Fixed Locations and Mobile

Offshore Drilling Unit

Issued in HAMBURG on January 7, 2021. This Certificate is valid until January 6, 2026

RINA Services S.p.A. Giuseppe Russo

This certificate consists of this page and 1 enclosure

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TYPE APPROVAL CERTIFICATE No. MAC340220XG Enclosure - Page 1 of 1 **ERV**

Reference Documents:

- Elaflex Catalogue 2009 rev.,2 (2015) filed with HMMC 6285 dated 4-Jan-2016
- Contitech Burst and Impulse Tests no. 1634/ and I1WI0021/1
- WTD71 (Wehrtechnische Dienststelle für Schiffe und Marinewaffen) Fire Test Report no. 51514 .
- Dr.-Ing T.Bäumer Flame ResistanceTest no: IBB472 dated 27-08-2009
- Elaflex Catalogue 2020 rev.6 (2020) filed with HMMC-18432 Burst pressure tests ERV-G600 / STOF600.10 dated 05-02-2020
- Burst pressure tests ERV-GS80 / STF80.10 dated 24-01-2020
- Burst pressure tests ERV-GS150 / STF150.16 dated 24-01-2020
 Burst pressure tests ERV-GS400 / STF400.10 dated 24-01-2020
- Burst pressure tests ERV-R300 / ST-OF300.16 dated 05-04-2019 Burst pressure tests ERV-R500 / ST-OF500.10 dated 05-04-2019
- Burst pressure tests ERV-R900 / ST-OF900.10 dated 05-04-2019

Technical characteristics:

- Moulded single sphere type rubber bellows with swiveling metal flanges.
- Dimensions and materials; DN 25 1000 mm, in various lengths as per Elaflex catalogue.
- Flange Type: ERV; Material: Stainless steel, carbon steel zinc plated or hot galvanized

Fields of application:

As per Elaflex Catalogue

TYPE	APPLICATIONS	FLAME RESISTANT
ERV-R,	Fresh Water and Waste Water	NO (*)
ERV-BR	Water and Waste Water	NO (*)
ERV-G,	Petroleum Based Products	NO (*)
ERV-GS	Petroleum Based Products	YES
ERV-GS HNBR	Petroleum Based Products	YES
ERV-CR,	Water and Waste Water	NO (*)
ERV-ROTEX,	Water and Waste Water	NO (*)
ERV-OR,	LPG and other gases up to 25 bar	NO (*)
ERV-GR,	Chemistry	NO (*)
ERV- VITEX	Chemistry	NO (*)

^(*) Flame protection cover type ELAFLEX "FSH" can be added.

Acceptance conditions:

- The installation is to be made in accordance with the manufacturer's instructions.
- Use of expansion joints is to be in accordance with Part C, Chapter 1 Section 10, Paragraph 2.6, of RINA Rules.
- The acceptance of the above mentioned product on board a ship, or other units classed by RINA, is subject to the satisfactory outcome of testing as per RINA Rules.

This Certificate annuls and replaces the certificate No.MAC197915XG

HAMBURG January 07, 2021

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