



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE

Certificate No. TA24571M



This is to certify that the undernoted products have been approved in accordance with the requirements 12.1.6, Chapt.12, Part D of the “Rules for the Survey and Construction of Steel Ships” and Chapt.2, Part 6 of the “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use”.

This certificate is issued to

Manufacturer :	ELAFLEX HIBY GmbH & Co. KG
Place of Manufacturer :	Schnackenburgallee 121, 22525 Hamburg, GERMANY
Product description :	Rubber Expansion Joints
Type designations :	ERV-GS / ERV-GS HNBR ERV-G, ERV-R, ERV-ROTEX
Approval No. :	99FV401B
Valid until :	15 December 2029

The details are described in the attached sheets.

Issued at Tokyo on 21 November 2024.

 
S. Oishi
General Manager
Machinery Department

•Particulars and conditions :

The joints are accepted as flame resistant rubber joints and can be used for short joint of the piping systems in engine room.

Type : ERV-GS / ERV-GS HNBR
 Nominal Diameter (DN) : 40, 50, 65, 80, 100, 125, 150, 200, 250, 300, 350 and 400
 Max. Working Pressure : 1.0 MPa
 Max. Operating Temp : ERV-GS : 90°C / ERV-GS HNBR : 100°C
 Kind of fluid : Fuel oil, Lubricating oil, Sea water, Fresh water, Air,
 Hydraulic oil, Waste oil, Mist gas
 Material : Liner ERV-GS: NBR / ERV-GS HNBR: HNBR
 Reinforcement : Steel wire cord, CR rubberized
 Cover : CR
 Flanges : Carbon steel, zinc plated or hot galvanized;
 Stainless steel

Type : ERV-G
 Nominal Diameter (DN) : 25, 32, 40, 50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400,
 450, 500, 600, 700, 800, 900 and 1000
 Max. Working Pressure : 1.6 MPa (DN25 – 400), 1.0MPa (DN450 – 1000)
 Max. Operating Temp : 90°C
 Kind of fluid : Fuel oil, Lubricating oil, Hydraulic oil, Thermal oil
 Material : Liner NBR
 Reinforcement : PA textile cord
 Cover : CR
 Flanges : Swiveling, carbon steel, zinc plated or
 hot galvanized; Stainless steel

Type : ERV-R
 Nominal Diameter (DN) : 25, 32, 40, 50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400,
 450, 500, 600, 700, 800, 900 and 1000
 Max. Working Pressure : 1.6 MPa (DN25 – 400), 1.0MPa (DN450 – 1000)
 Max. Operating Temp : 100°C
 Kind of fluid : Fresh water, Sea water, Waste water, Drinking water
 Material : Liner Butyl (IIR) / EPDM
 Reinforcement : PA textile cord
 Cover : EPDM
 Flanges : Swiveling, carbon steel, zinc plated or
 hot galvanized; Stainless steel

Type : ERV-ROTEX
Nominal Diameter (DN) : 25, 32, 40, 50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900 and 1000
Max. Working Pressure : 1.6 MPa (DN 25 – 400), 1.0 MPa (DN450 – 1000)
Max. Operating Temp : 130°C
Kind of fluid : Fresh water, Sea water, Heating water, Cooling water, Hot air
Material : Liner EPDM
Reinforcement : Polymer textile cord
Cover : EPDM
Flanges : Swiveling, carbon steel, zinc plated or hot galvanized; Stainless steel

• Test

The joints used for piping belonging to Group II defined by the requirements 12.1.3, Chapt.12, Part D of the Rules are to be subjected to hydraulic test in the presence of the Society's surveyor in accordance with the requirements 12.6.1, Chapt.12, Part D of the Rules.

• Notice

Any significant changes in design or construction of the above items may render this certificate invalid.

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