



# NIPPON KAIJI KYOKAI

## TYPE APPROVAL CERTIFICATE

Certificate No. TA19279M

**This is to certify** that the undernoted product(s)/manufacturing process has/have been approved /type tested in accordance with the requirements 12.3.2, Chapt.12, Part D of “Rules for the Survey and Construction of Steel Ships” and Chapt.2, Part 6 “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use”.

This certificate is issued to

Manufacturer :	<b>REIFLEXA P. Reischl GmbH, Hamburg, GERMANY</b>
Product description :	<b>Rubber Expansion Joint</b>
Type designation(s) :	<b>1A, 1B</b>
Approval No. :	<b>09FV103B</b>
Valid until :	<b>31 March 2024</b>

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 15 May 2019.

**T. Shimada**  
General Manager  
Machinery Department

• **Particulars and conditions :**

Type	1A	1B
Nominal Diameter (A)	25-600	25-250
Design Pressure (MPa)	1.6, 1.0	1.6
Color Label*	Red, Yellow, White, Green, HP(double red), HO(double yellow)	Red, Yellow, White, Green, HP(double red)

Color Label	Kind of Fluid	Design Temperature (°C)
Yellow	FW, SW, FO, LO	90
HO	FW, SW, FO, LO	110
Red	FW, SW	90
HP	FW, SW	130
Green	Cargo Chemical	90
White	DW, FW	70

• **Type approval tests carried out:**

Fire test according to ISO15540, Burst Test, and Pressure Proof Test

• **Production Test :**

Expansion joints used for pipes belonging to Group I and 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.

- The End -