

Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **85 324 - 81 HH**

Company **Reiflexa P. Reischl GmbH**
Am Knick 5
22113 Oststeinbek, GERMANY

Product Description **REIFLEXA® RUBBER COMPENSATORS**

Type **1 A / 1 S**
Optional with fire sleeve

Environmental Category **None**

Technical Data /
Range of Application **TECHNICAL DATA**
Size range DN: 25 - 300
Nominal Pressure PN: 16
Max. Service Temperature: 90°C, Double Red 130°C
Materials Inner Liner Outer Cover
Yellow NBR ECO
Red EPDM EPDM
White NBR ECO
Green Hypalon Neoprene
Double Red Special EPDM
Reinforcement: Nylon, Aramide (Double Red only)

Fire sleeve Type F3000

RANGE OF APPLICATION
Ref. to page 2

Test Standard **VI-7-8 Test Requirements for Components and Systems of Mechanical Engineering and Offshore Technology:2008**

Documents **- Fire test report according to ISO 15540 issued by WTD 71 dated 2006-12-13**
- Audit report dated 2007-01-04
- Product catalogue

Remarks **None**

Valid until **2017-08-16**

Page **1 of 2**

Type Approval Symbol



File No. **II.D.07**

Hamburg, 2012-10-04

Germanischer Lloyd

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RANGE of APPLICATION

The REIFLEXA® Rubber Compensators of Type 1A / 1S are type approved for the use according to their suitability in:

Fuel-, lubricating oil-,hydraulic oil-, bilge-, ballast-, fresh water cooling-, sea water cooling-, water filled fire extinguishing-, compressed air systems as well as in ancillary piping systems.

Machinery spaces / Fire extinguishing systems

For the use in fuel oil and lubricating oil systems, seawater cooling systems and bilge and ballast water systems arranged in machinery spaces each compensator is to be provided with a fire sleeve of type F3000.

For the use in fire extinguishing systems a fire sleeve is to be applied in generally.

For further information refer to the Rules I-1-2 Machinery Installations, Section 11 U.

LIMITATION

Compensators made of non-metallic materials are not permitted:

- In permanently pressurized starting air lines of diesel engines
- In cargo lines of tankers
- At the ship's side

FINAL INSPECTION

Prior to installation on board ship each compensator is to be subjected in the manufacturer's works to a pressure test under the supervision of a GL surveyor.

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Page **2 of 2**

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This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".