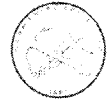


Type Approval Certificate



Germanischer Lloyd

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 & Co. KG, Technische Gummiwaren
Am Knick 5
22113 Oststeinbek, GERMANY

Product Description REIFLEXA® RUBBER COMPENSATORS WITH FIRE SLEEVE

Type 1 A / 1 S

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 Regulations for the Performance of Type Tests, Part 6-Test Requirements for Mechanical Components and Equipment, Edition 1998.

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 2012-08-16

Page 1 of 2

Type Approval Symbol



File No. II.D.06

Hamburg, 2007-08-17

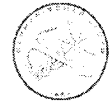
Germanischer Lloyd

Karl-Ernst Beese

Hagen Markus

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

Type Approval Certificate



Germanischer Lloyd

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

RANGE OF APPLICATION

The REIFLEXA® Rubber Compensators of Type 1A / 1S provided with fire sleeve of type F3000 are approved for the use in fuel and lubricating oil, sea water, ballast, bilge, fresh cooling water and sanitary piping systems arranged inside and outside of machinery spaces.

For application in piping systems located outside of machinery spaces the fire sleeve may be omitted.

LIMITATIONS

Rubber compensators are not approved at the ship's side and in permanently pressurized starting airlines of diesel engines.

Valid until 2012-08-16

Page 2 of 2

Type Approval Symbol



File No. II.D.06

Hamburg, 2007-08-17

Germanischer Lloyd

Karl-Ernst Beese
Karl-Ernst Beese

Hagen Markus
Hagen Markus

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