

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. 13 736 - 99 HH

Company Semperit Technische Produkte GmbH & Co. KG
Triester Bundesstraße 26
2632 Wimpassing, AUSTRIA

Product Description FLAME RESISTANT HYDRAULIC HOSES

Type 4SH corresponding to EN 856 : 1996

Environmental Category • None

Technical Data /
Range of Application TECHNICAL DATA
Inner tube synth. rubber
Reinforcement four spiral layers
Cover synth. rubber
Size range: DN 20 to DN 40
Pressure range: according to EN 856 : 1996
Temperature range: -40°C up to 100°C

RANGE OF APPLICATION

The a.m. hose type may be used acc. to their suitability in:

- Fuel oil, lubricating oil and hydraulic oil systems
- Bilge and ballast systems
- Fresh and seawater cooling systems
- Compressed air system

(continued on page 2)

Test Standard In acc. with Chapter 8, Guidelines for the Performance of Type Tests, Part 6 - Test Requirements for Mechanical Components and Equipment, Edition

Documents • Test Reports
• Data Sheets

Remarks • The use of hose assemblies is not permitted in permanently pressurized starting air lines of diesel engines.

Valid until 2014-02-08

Page 1 of 2

Type Approval Symbol



File No. II.D.01

Hamburg, 2008-10-10

Germanischer Lloyd

Hanspeter Raschle
Hanspeter Raschle

Peter Gierhan
Peter Gierhan

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RANGE OF APPLICATIONS

- Compressed air systems*
- Secondary piping systems

* Pin prick cover is required for air or gas applications above 17 [bar].

PRODUCTION PLACES

HOSES: Revalit Hydraulik Waldböckelheim GmbH
Steinhardtter Straße 32
D-55596 Waldböckelheim

FITTINGS: Semperflex Rivalit GmbH
Steinhardtter Straße 32 A
D-55596 Waldböckelheim

Semperflex Optimit a.s.
Vitkovska ul. 391
CZ-74235 Odry

REMARKS / LIMITATIONS

- The current Rules of Germanischer Lloyd Chapter 2-Machinery installation, Section 11 are to be observed.
- The use of the hoses outside the range of application is subject to special consideration by Germanischer Lloyd in each individual case.
- The combination of high temperatures and high pressure reduce the hose life.
- The use of hose assemblies is not permitted in permanently pressurized starting air lines of diesel engines.
- Type approved hoses may be assembled with fittings by recognized manufacturers* of hose assemblies only.

* See VI - Additional Rules and Guidelines, Part 3 - Machinery Installations, Chapter 9 - Guidelines for the Recognition of Manufacturers of Hose Assemblies and Compensators.

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Page 2 of 2

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i.v. Hanspeter Raschle
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Peter Gierhan

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