

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.

99 058 - 96 HH

Company

KNAPHEIDE GmbH Hydraulic Hoses

Gothaer Straße 4-6

Product Description

FLAME RESISTANT HYDRAULIC HOSES

99880 Waltershausen, GERMANY

Type

2 SN / 2 ST corresponding to DIN EN 853: 1996

Environmental Category

None

Technical Data /

Range of Application

TECHNICAL DATA

Inner tube:

Oil resistant synthetic rubber

Reinforvement:

Double wire braids Synthetic rubber **DN 5 to DN 31**

Cover: Size range:

acc. to DIN EN 853: 1996

Pressure range:

-40 [°C] to 100 [°C] depending on used media

Temperature range: Ferrules:

EURO-2 SN / EURO-2 ST, skive types

Nipples:

EURO-2 SN / EURO-2 ST

RANGE OF APPLICATION

The above mentioned hoses may be used acc. to their suitability in: fuel oil-, lubricating oil-, hydraulic oil-, bilge-, ballast-, freshwater cooling-, sea water cooling-, compressed air- and secondary piping systems.

Test Standard

VI-7-8: Test Requirements for Components and Systems of Mechanical Engineering

and Offshore Technology. Edition 2008.

Documents

- Test Reports

- Technical Data Sheets, Catalogue, Quality Assurance Manual - Auditreport no. 20120426Knapheide, 20120815Knapheide

- GL Approval-Ref.-No.: 12-010001

Remarks

Approved production places refer to page 2.

Manufacturer of hose assemblies shall be approved by GL.

Valid until

2016-05-01

Type Approval Symbol

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File No. II.D.01

Hamburg, 2012-08-23

Germanischer Lloyd

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



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APPROVED PRODUCTION PLACES:

HOSE:

Knapheide GmbH Hydraulic Hoses

Gothaer Straße 4-6 D-99880 Waltershausen

Fittings:

Knapheide GmbH Präzisions-Drehtechnik

Borsigstraße 10 D-24568 Kaltenkirchen

The selection of the hoses for the corresponding application and the proper assembly are to be in accordance with the instructions of the manufacturer.

LIMITATION

The use of non-metallic hose assemblies is not permitted in permanently pressurized starting air lines of diesel engines.

Each batch of hose assemblies is to be subjected to a pressure test in the presence of a GL Surveyor.

Valid until

2016-05-01

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Germanischer Lloyd

Michael Kämpf

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