Certificate No: LR25115810TA
Issue Date: 17/11/2024
Expiry Date: 16/11/2029

# Type Approval Certificate

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

| | |
|---|---|
| **Manufacturer** | **HKS GmbH** |
| **Address** | ,Schonenfahrerstr. 1, Rostock, 18057, Germany |
| **Type** | Flexible Pipe Couplings And Hoses |
| **Description** | Single layer, corrugated PTFE hose with wire braid reinforcement and outside fire sleeve of glass-fibre tubing, impregnated and overlaid with special oil-resistant silicon rubber. End fittings are sleeve pressed, neck welded loose flanges. |
| **Trade Name** | SO__/16/B-DN__/B-DN__-800 |
| **Application** | Fuel oil system at internal combustion engines on ships classed or intended for Classification with Lloyd's Register. |
| **Specified Standard** | Lloyd's Register Rules and Regulations for the Classification of Ships, 2024<br>ISO 6802, 6803 and 15540 |
| **Ratings** | Sizes: DN 32, 50 and 65<br>Working pressure: 8 bar<br>Design temperature: -40°C up to +180°C |

Downloaded Copy

**Torsten Schroeder**

Engineering - Piping/ Decarbonisation -
Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Certificate No: LR25115810TA
Issue Date: 17/11/2024
Expiry Date: 16/11/2029

# Type Approval Certificate

**Other Conditions**

Flexible hose assemblies are not to be installed where they may be subjected to torsional deformation.
For flexible hose assemblies conveying flammable fluids in close proximity to hot surfaces, electrical installation or other sources of ignition, the risk of ignition due to failure of the hose assembly and subsequent release of fluids is to be migrated as far as practicable by the use of screens or other suitable protection.
The installation of flexible hose assemblies is to be in accordance with the manufacturer's instructions and use limitations with particular attention to the following: orientation, end connection support, avoid of hose contact that could cause rubbing and abrasion, minimum bend radii.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

**Previous Version:** LR2001915TA

The Design Appraisal Document TSO/25-033885, (previous ENS 24635-09, Issue No. 2) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Downloaded Copy

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.