Certificate No: LR26313875TA
Issue Date: 18/04/2026
Expiry Date: 17/04/2031

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	**Markert Marsoflex GmbH**
Address	Gadelander Strasse 135, Neumuenster, 24539, Germany
Type	Flexible Pipe Couplings And Hoses
Description	Flame resistant PTFE hose assemblies with fire proof sleeves. Hose: Helically convoluted PTFE inner tube, one stainless steel wire braid reinforcement, covering with a fire sleeve Sleeve: Woven fibreglass fibre coated with a covering of iron oxide red silicone rubber
Trade Name	marsoflex MDO
Application	For fuel-, lubrication- and hydraulic oil, fresh- and seawater piping systems in marine and offshore fields, classed or intended for Classification with Lloyd's Register.
Specified Standard	Lloyd's Register Rules and Regulation for the Classification of Ships, 2025
Ratings	Maximum Working Pressure, dynamical [bar]: PN16 for Sizes: DN16, DN20, DN25, DN32, DN38, DN50 PN30 optional for Size: DN25 Temperature range: -50°C to +150°C

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Torsten Schroeder

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Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Other Conditions These hose assemblies are not to be used for applications where they are frequently flexed in service.

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: LR22428569TA, previous 06/20010(E2)

The Design Appraisal Document TSO/26-054053, previous HMD 17241-06, Issue No. 3 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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