Certificate No: LR26461612TA
Issue Date: 23/09/2026
Expiry Date: 22/09/2031

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	**Haelok AG**
Address	Rütistrasse 26, Schlieren, 8952, Switzerland
Place of Production	HAELOK Services Deutschland GmbH Blasiring 4, Lörrach, 79539, Germany
Type	Compression Fittings
Description	Swage type compression couplings with metallic press connection surfaces used to mechanically join piping, with the body and press ring made of stainless steel or carbon steel galvanized (types CC, XC and XX) Materials: Stainless steel 1.4404 (AISI 316L), 1.4401 (AISI 316), 1.4301 (AISI 304), 1.4571 (AISI 316Ti) Carbon steel 1.0570 (AISI 1024) galvanized.
Trade Name	Haelok, Thermo (12-series), Tech (10-series), Protect (10-series), Energy (10-series), Climate (10-series), Trans (10-series), and Tube (10-series).
Application	For piping systems, where Swage type compression couplings are allowed, as per LR Ship Rules, Part 5, Chapter 12, Section 2, Table 12.2.8 and Table 12.2.9 depending on pipe class, on ships, classed or intended for Classification with Lloyd's Register.

Torsten Schroeder

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

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Specified Standard

Lloyd's Register Rules and Regulations for the Classification of Ships, 2026
LR Type Approval Test Specification Number 2

Ratings

Size Range:	Nominal Pressure [bar]:
DN8 to DN25	200
DN32 to DN50	150

Temperature range:
Stainless steel: -55 °C up to +350°C, Carbon steel: -10°C up to 300°C

Pressure reductions at elevated temperatures are to be considered.

Other Conditions

Installation shall be performed using manufacturing-specific press tools. The installation method ensures consistent formation of the press connection in accordance with the tested configurations.
The manufacturer's installation instructions are to be followed.
For essential class piping systems the pipes are to be selected with thicknesses as required by the Rules.

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: 16/20003

The Design Appraisal Document TSO/26-062219 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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