Certificate No: LR26212522TA
Issue Date: 27/05/2026
Expiry Date: 26/05/2031

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	**Marioff Corporation Oy**
Address	Plaza Business Park Halo, Äyritie 24, P.O. Box 1002, Vantaa, 01511, Finland
Place of Production	Marioff Corporation Oy Moreenitie 4, Kerava, 04250, Finland
Type	Pipe Couplings
Description	Piping parts for water mist fire fighting systems
Trade Name	HI-FOG piping parts
Application	For water mist fire fighting systems on board of vessels classed or intended for classification with Lloyd's Register.
Specified Standard	Lloyd's Register Rules and Regulations for the Classification of Ships, 2025 Transport Canada Procedure TP14612E "Procedures for approval of life-saving appliances and fire safety systems, equipment and products"

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Torsten Schroeder

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

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Ratings	Coupling	OD [mm]	MAWP [bar]
	T-pieces	12-16	200
		25-38	140
	Distribution block	12-38	140
	Reducer assemblies	12-16	200
		25-38	140
	Extension joints	60.3	140

Other Conditions

For selection and installations of the pipes and fittings the producer's instructions and recommendations are to be adhered to.
For seawater applications only couplings with material grade 1.4460 are to be used.
Softly sealed couplings are limited to exposed open decks installations.
Tapered thread joints are not to exceed OD 33.7 mm for Class I and OD 60.3 mm for Class II and III piping systems.
Parallel thread joints up to 60.3 mm only for Class III.

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: LR21172343TA

The Design Appraisal Document TSO/26-054963, previous HTS/ENS 42683-21 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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