



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	Karl DUNGS GmbH & Co KG
Address	Karl-Dungs-Platz 1, Urbach, 73660, Germany
Type	Regulating Valves
Description	Pressure Regulator
Trade Name	FRNG
Application	Marine applications
Specified Standard	Lloyd's Register's Rules and Regulations for Classification of Ships, 2024;
Ratings	Sizes: DN 40, 50, 65 and 80 Max. operating pressure.: 500 mbar Input pressure range Zero pressure regulator: 5 to 200 mbar (0.5 to 20 kPa) Proportional pressure regulator: 5 to 200 mbar (0.5 to 20 kPa) Compressed air-controlled pressure regulator: to 500 mbar (50kPa) Output pressure range Zero pressure regulator: -3 to 5 mbar (-0.3 to 0.5 kPa) Proportional pressure regulator: -10 to 200 mbar (-1 to 20 kPa) Compressed air-controlled pressure regulator up to max 350 mbar (35kPa)

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.



Type Approval Certificate

Ambient temperature: -15 to+70°C

Other Conditions The manufacturer's operation and assembly instructions are to be sought.

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.

The Design Appraisal Document TSO/24-024909 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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.



Page: 1 of 1
Certificate No: LR2502404TA
Issue Date: 08 January 2025
Expiry Date: 07 January 2030
Reference: TSO/24-024909

LLOYD'S REGISTER TYPE APPROVAL – DESIGN APPRAISAL DOCUMENT

Issued by: Hamburg Technical Support Office (TSO/24-024909)

Issued to: KARL DUNGS GMBH & CO KG

For: PRESSURE REGULATOR, TYPE: FRNG

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System Procedure TA14 Version 04 (September 2020) and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

-	Application Form to LR Type Approval	18.10.2024
219570	FRNG Data sheet Zero pressure regulator, Proportional pressure regulator, Compressed air-controlled pressure regulator	02/2020
-	FRNG sectional view with parts list	02/2010
223842, rev. 1	Declaration of Conformity with EU-Gas Appliances Regulation (EU) 2016/426 and Instructions FRNG	01/2023
C5A 022629 0028, rev. 1	EU-Type Examination Certificate for Pressure Regulator FRNG PIN CE-0123CT1124	19.03.2020

TEST REPORTS

TSO/24-024909	Production Quality Assessment	18.12.2024
---------------	-------------------------------	------------

Torsten Schröder
Senior Specialist
Engineering Systems
Hamburg Technical Support Office
Lloyd's Register EMEA
T +49 (0)40 349 700 10 259
E torsten.schroeder@lr.org

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.

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.