

Page 1 of 3

Certificate No: LR2375376TA Issue Date: 23/05/2023 Expiry Date: 22/05/2028

## **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 Dennis Nakakita

**Address** ,Pozuelo De, Calle Badajoz nº 2, Urb. La Cabaña, Alarcon-Madrid, 28223, Spain

**Place of Production** Dennis Nakakita S.A.

C/ Mencía s/n. Pol. Industrial Alces, Alcázar de San Juan, 13600, Spain

**Type** Butterfly Valves

**Description** Flanged, Wafer and Lug Type Butterfly Valves

TYPE

L & R Series

Body Material: Stainless Steel, Carbon Steel, Aluminium Bronze, Bronze,

Spheroidal and Grey Cast Iron

Disk Material: Steel, Stainless Steel, Nodular Iron, Bronze and Aluminium

Bronze

Stem Material: Stainless Steel, Bronze

Seat Material: Nitrile Rubber, EPDM, VITON & PTFE

**Trade Name** L & R Series ,Body Material: Stainless Steel , Carbon Steel, Aluminium Bronze,

Bronze, Spheroidal and Grey Cast Iron ,Disk Material: Steel

**Application** Marine, Offshore and Industrial Piping Systems

**Emad Jodeh** 

Senior Mechanical 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.



Page 2 of 3

Certificate No: LR2375376TA Issue Date: 23/05/2023 Expiry Date: 22/05/2028

## **Type Approval Certificate**

**Specified Standard** Lloyd's Register'

Lloyd's Register's Rules and Regulations for the Classification of Ships; Lloyd's Register's Rules and Regulations for the Classification of Mobile

Offshore Units;

Lloyd's Register's Rules and Regulations for the Classification of Fixed Offshore

Installations;

DIN 3230; ISO 5208; API 598

**Ratings** Max. pressure rating (PN): L Series: 10 bar

R Series: 25 bar

Nominal diameter(DN): 40 to 1000

Temperature range depending on the seat material

## **Other Conditions**

Use in marine piping systems and locations where fire endurance test is not required on vessels Classed by LR and subject to the following limitations:

- 1. Seawater and freshwater cooling systems.
- 2. Water ballast and freshwater pumping systems.
- 3. Cargo oil lines on tankers.
- 4. Bilge suctions for holds in bulk carriers (only when fitted in a pipe tunnel and in association with a non- returned valve).
- 5. Ship side valves (open/shut indicators to be fitted & the manufacturer's certificate validated by LR for materials equal to or less than 500 mm nominal diameter will be accepted in lieu of LR's materials certificate).
- 6. As suction valves on double bottom oil fuel tanks (only when located in a closed pipe tunnel or duct keel).
- 7. As pump suction valves from the main bilge line (only where the butterfly valve is located in the immediate vicinity of the pump and fitted in conjunction with a metal non return valve which is to be on the bilge main side of the butterfly valve).

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 3 of 3

Certificate No: LR2375376TA Issue Date: 23/05/2023 Expiry Date: 22/05/2028

## **Type Approval Certificate**

Actuators and drive train are outside the scope of this typa approval certificate. Actuators should be capable and functionally tested at the specified design parameters and retained fluid.

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:** 97/00180(E4)

The Design Appraisal Document LR2375376TA 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.