Certificate No: LR25193022TA
Issue Date: 07/11/2025
Expiry Date: 06/11/2030

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	**Saval de Valvulas S A**
Address	P.E. Tanos-Viernoles, C/ La Espina, 44, TORRELAVEGA, 39300, Spain
Place of Production	Saval de Valvulas S A P.E. Tanos-Viernoles, C/ La Espina, 44, TORRELAVEGA, 39300, Spain
Type	Butterfly Valves
Description	Soft seated Butterfly valves (Lug type, Wafer type and Double Flanged Type)
Trade Name	Butterfly valve
Application	Marine/ Offshore/ Industrial For installation on ships and offshore installations classed or intended for Classification with Lloyd's Register allowable systems, including: 1. Sea and fresh water systems including shipside valves (use at collision bulkhead is restricted by SOLAS Chapter II-1 B-2 Reg. 12, 6.1 and LR Rules, Part 5,Chapter 13, 3.6.4). 2. Ballast water systems. 3. Cargo Lines as "in-line" valves on oil and chemical tankers and on liquefied gas carriers(depending on pressure, temperature, medium and material). 4. Bilge suctions (in association with a metal non return valve) in low fire risk compartments of cargo vessels only. 5. As pump suction valves from the main bilge line only where the valve is located in the immediate vicinity of the pump. The valve is to be

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fitted in conjunction with a metal non-return valve, which is to be on the bilge main side of the butterfly valve.

6. As “in-line” valves in lubricating or oil fuel piping systems in low fire risk compartments of cargo vessels.
7. As suction valves on double bottom oil fuel tanks (only when located in a closed pipe tunnel or duct keel).
8. Inert gas systems.
9. Domestic and sanitary systems.
10. As "in-line" valves in oil piping systems of hydraulic deck machinery.
11. Air piping systems having a working pressure not greater than 7 bar (Except as stop valves for air receivers).

Specified Standard

Lloyd's Register Rules and Regulations for the Classification of Ships, July 2025
Lloyd's Register Type Approval System Test Specification Number 2, December 2020.
EN 593:2017 - Industrial Valves, Metallic Butterfly valves for general purpose
ISO 10631:2021 - Industrial Valves, Metallic Butterfly valves
ISO 19921:2005 Ships and marine technology — Fire resistance of metallic pipe components with resilient and elastomeric seals — Test methods
ISO 19922:2005 Ships and marine technology — Fire resistance of metallic pipe components with resilient and elastomeric seals — Requirements imposed on the test bench

Ratings

Sizes: ND32/40, ND50, ND65, ND80,ND100, ND125, ND150, ND200, ND250, ND300, ND350, ND400, ND450, ND500
Pressure Rating: PN10, PN16
Fire Resistance: DN32/DN40 to DN400 only (Both sizes included)
Working Temperature: See Elastomers datasheet (SV-21007-24-00-006 Rev. 10)
Body Material: Nodular Cast Iron, Stainless Steel, Cast Carbon Steel, Bronze (See Manufacturer’s valve datasheets)
Seat Material: Elastomers (EPDM,NBR, CSM, ECO, FPM, MVQ, SBR, BR) See

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Manufacturer's Elastomers datasheet

Other Conditions

1. Valves are to be selected and installed in accordance with the manufacturer's recommendations, and LR's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12, Section 6.
2. Valves are not accepted as mountings on pressure vessels acc. Part 5, Chapter 10, 17.2 and Chapter 11, 10.2.1.
3. Valves are only to be used up to +300 °C acc. Part 5,Chapter 12, 8.1.4.

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 LR25193022TA_DAD and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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