Certificate No: LR2206121TA
Issue Date: 11/01/2022
Expiry Date: 10/01/2027

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 **ABO valve, s.r.o.**

Address Dalimilova 285/54, 783 35 Olomouc, Czech Republic

Type Butterfly Valves

Description Concentric soft sealed lug or wafer type butterfly valves for installation between EN/ANSI/JIS flanges. Top flange acc. to ISO 5211 allows connection of various kinds of actuators.

Trade Name Series 900

Application

As shut-off or regulating valve in high performance applications for installation on ships and offshore installations classed or intended for Classification with Lloyd's Register allowable systems. They have to be installed to the attending surveyor's satisfaction for:

1. Shipside valves provided the valve is bolted to the shipside connection in such way that the section of pipe immediately inboard of the valve can be removed
2. Sea water, fresh water and water ballast 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. As "in-line" valves in lubricating or oil fuel piping systems in low fire risk compartments of cargo vessels
5. Bilge suctions (in association with a metal non return valve) of cargo vessels in low fire risk compartments only

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6. 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 fitted in conjunction with a metal non-return valve, which is to be on the bilge main side of the butterfly valve.
7. Sanitary, black and grey water
8. Inert gas
9. Air piping (except as stop valves for air receivers) having a working pressure not greater than 7 bar

Specified Standard Lloyd's Register Rules and Regulations for the Classification of Ships, 2021
Design according to EN 593, API 609,
Tightness check acc.: EN 593, EN 12266-1 rate A, ISO 5211 rate A,
API 598, ANSI/FCI 70-2 Class 6;

Ratings Nominal pressure: PN 6 / 10 / 16; ANSI class 150, DN 50 – DN 600
Temperature range: -40 to +150°C (standard), -60 to +180°C (on request)
(depending on pressure, medium and material)
Body material: ductile iron 0.7040 epoxy coated, carbon steel 1.0625, low temperature/carbon steel 1.1156 or stainless steel 1.4408

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: 12-20002(E1)-02, 12/20002(E1)

The Design Appraisal Document ENS 27478-12, Issue No. 3 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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