

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	Winteb B.V.
Address	Parallelweg 1, Winschoten, 9672 AW, Netherlands
Type	Air Vent Valve
Description	Types: WIN2000, Type BWM and Type LMV (to be fitted in combination with Type HIAS) Type HIAS (High Inlet Air Speed) Type HIAS (High Inlet Air Speed) Heated WIKO5000 Type 1-A and Type 1-A Heated
Trade Name	WIN2000, WIKO5000
Application	Automatic closing appliance for air and overflow pipes for marine, offshore and industrial piping systems
Specified Standard	LR Rules and Regulations for Classification of Ships, July 2021 LR Rules and Regulations for Classification of Special Service Craft, July 2021 LR Rules and Regulations for Classification of Mobile Offshore Units, July 2021 LR Rules and Regulations for Fixed Offshore Installations, July 2021 IACS Unified Requirements P3 (1991, Rev. 4, Jan 2016) LR Type Approval System Procedure TA14 Version 04 (September 2020)

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Ratings

See Appendix

Other Conditions

1. The tank vent check valve – pressure drop/flow characteristic curves of the manufacturer are to be taken into consideration.
2. The vent check valves are not to be used on cargo oil tanks.
3. Powder coated aluminum vent heads may be accepted on tankers classed by the Society, as ballast tank air pipe closing applications within the range of the cargo tanks, provided they comply with the remaining requirements of the Rules and are installed to the Surveyor's satisfaction.
4. The WIN2000 BWM-type vent check valve is acceptable only on ships, which comply with the 'International Convention for the Control and Management of Ships' Ballast Water and sediments'.
5. Opening and closing of the WIN2000 BWM-type tank vent check valve for ballast water exchange operations to be in accordance with the manufacturer's operating manual.
6. Vent check valves, "WIN2000 HIAS Heated" and "WIKO500 Type 1-A Heated", can be delivered with heating arrangements and may be accepted on ships, classed by the Society, provided the valves and their electrical heating system and heating control system comply with the remaining requirements of the Rules, as applicable.
7. Tank vent check valves with electrical heating arrangements, fitted in hazardous zones, are to be of an intrinsically safe design in compliance with the Rules.
8. The electrical heating system and heating control system are not part of this Type Approval.
9. The LMV valve is to be inspected after each flushing with liquid mud or other substances as per the manufacturer's operating manual.
10. All other details remain as the previous Certificate No. 01/30074(E6) to which this extension should be attached.

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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: 01/30074.E6

The Design Appraisal Document PRJ11100333669 and its supplementary Type Approval Terms and Conditions form part of this Certificate.