

# Type Approval Certificate Extension

This is to certify that Certificate No. 01/30074 (E3) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER Winteb V.O.F.

PO Box 156

9670 AD Winschoten The Netherlands

PLACE OF Parallelweg 1

PRODUCTION 9672 AW Winschoten

The Netherlands

**DESCRIPTION** Tank vent check valve (with or without screen)

TYPE WIN 2000, Type 1, Type 1 Heated,

Type 1-B, Type 1-B Heated Type BMW and Type LMV

WIKO 5000 Type 1-A, Type 1-A Heated and Type 1

APPLICATION Automatic closing appliance for air and overflow pipes,

for marine, offshore and industrial piping systems.

SPECIFIED STANDARDS LR Rules and Regulations for the Classification of Ships

LR Rules and Regulations for the Classification of Mobile Offshore Units

LR Rules and Regulations for Fixed Offshore Installations

IACS Unified Requirements P3 (1991, Rev. 2, March 2004)

Certificate No. 01/30074 (E4)

Issue Date 20 October 2011

Expiry Date 23 October 2016

Sheet 1 of 2

Rotterdam Design Support Office Lloyd's Register EMEA

Lloyd's Register EMEA P.O. Box 701, 3000 AS Rotterdam

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RATINGS WIN 2000: DN50, 65, 80, 100, 125, 150, 175, 200, 250, 300, 350, 400 and 450 (Type 1)

DN50, 65, 80, 100, 125, 150, 175, 200, 250, 300, 350, 400 and 450 (Type BMW)

DN150, 200 and 250 ( Type LMV ) DN50, 65, 80, 100, 125 ( Type 1-B )

WIKO 5000: DN50, 65, 80, 100, 125, 150, 200, 250, 300, 350 and 400 (Type 1-A)

DN300, 350, 400 (Type 1)

All other details remain as the previous Certificate No. 01/00074 (E3) to which this extension should be attached.

"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 No. RDS/ENG/6247974 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No. 01/30074 (E4)

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Sheet 2 of 2

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Document no: Issue number Page 1 of 3

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# Marine Design Appraisal Document

Lloyd's Register EMEA

Date

Address:

P.O. Box 701, 3000 AS Rotterdam Weena-Zuid 170, 3012 NC Rotterdam 20 October 2011

Contact Nos:

Telephone 010 414 50 88, Fax 010 201 84 51

Please quote the document number on all future communications

Email:

Rot-planapp@lr.org

LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002. Issued to: WINTEB V.O.F.

for: TANK VENT CHECK VALVES - TYPES WIN 2000 & WIKO 5000 TYPE APPROVAL CERTIFICATE No. 01 / 30074 (E4)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

#### **MARKINGS**

marked with:

- Manufacturer's name

- Type designation

- Size

#### **MATERIALS**

Casing:

Seawater resistant aluminium (in accordance with DIN 1725 standard),

Bronze, Stainless Steel

O-ring:

Nitrile Butadiene (NBR)

Screens:

Mesh 18 and 30 stainless steel

Ball:

Polyethylene (PE)

### APPROVAL DOCUMENTATION:-

Manufacturers plans:-

WIN2000-01

Rev. I

WIN2000 General Drw.

DN50-450

200-400-01-A

Rev. 00

WIKO5000 Type 1-A WIKO5000 Type 1

DN50-400 DN300-400

50-150-01-A1

Rev. 00

WIKO5000 Type 1-A

DN50-150

WIN2000HEATED-01 WIKO HEATED-01

Rev. C Rev. 0

WIN2000 Heated General Drw. Heated General Drw. WIKO

WIN2000BWM-02

Rev.C

WIN 2000 BWM General Drw.

Operating Manual for WIN 2000 BWM

LMV150-01

Rev. C Rev. A LMV 150 Assembly

LMV200-01 LMV250-01

Rev. 0

LMV 200 Assembly LMV 250 Assembly

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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# **TEST REPORTS**

Test Report Hochschule Bremen, Type LMV, DN150-200-250, Tests on Tightness Test Report Hochschule Bremen, Type 1, DN300-35-400, Tests on Tightness Test Report WINTEB, WIN 2000, Type BMW	dated 21-23.12.2009
Flow Rate Characteristics WIN2000 Type 1, DN300 ( no screen )	dated 01.12.2009
Flow Rate Characteristics WIN2000 Type 1, DN350 ( no screen )	dated 01.12.2009
Flow Rate Characteristics WIN2000 Type 1, DN400 ( no screen )	dated 01.12.2009
Flow Rate Characteristics WIN2000 Type LMV, DN150 ( no screen )	dated 29.03.2011
SUPPORTING DOCUMENTATION:-	
Test Report No. WINTEB 2005/1,	dated 31.05.2005 dated 31.05.2005

#### **REMARKS**

The tank vent check valve - pressure drop / flow characteristic curves of the manufacturer are to be taken 1. into consideration.

LR Groningen Report of Inspection and Surveillance of Production Facilities, ...............................dated 12.07.2011

- Powder-coated aluminium vent heads may be accepted on tankers classed by the Society, as ballast tank 2. air pipe closing appliances 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.
- The WIN2000 BWM-type tank vent check valve is acceptable only on ships, which comply with the 3. 'International Convention for the Control and Management of Ships' Ballast Water and Sediments'.
- Opening and closing of the WIN2000 BWM-type tank vent check valve for ballast water exchange 4. operations to be in accordance with the manufacturer's operating manual.
- Vent check valves, "WIN2000 Heated" and "WIKO500 Type 1-A Heated", can be delivered with heating 5. 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.
- The electrical heating system and heating control system are not part of this Type Approval 6.

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20 October 2011

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## 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.

M.P. Breel

Senior Surveyor

Machinery Design Appraisal

Rotterdam Design Support Office

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