



MARINE DIVISION

Certificate number: 34474/A0 BV

File number: ACM 145/2571/01

Product code: 72321

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**SOMAS AB**  
Säffle - SWEDEN

*for the type of product*

**BUTTERFLY VALVES FOR OIL/PRODUCT/CHEMICAL TANKERS**

Type MTV, MTFV & MTFV

**Requirements:**

- BUREAU VERITAS Rules for the Classification of Steel Ships
- IBC Code

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 19 Sep 2018**

**For BUREAU VERITAS,**

At BV GOTHENBURG, on 19 Sep 2013,

Magne MOLLER



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION

#### Butterfly Valves MTV, MTFV & MTVL

##### 1.1 Technical specification

Type	MTV, MTFV & MTVL
Valve Body Design	Wafer (MTV), Flanged (MTVF) & Lugged (MTVL)
Nominal Size (mm)	DN 80 to DN 500
Nominal Pressure (bar)	PN 10 to 25
Operation mode	Hand lever, manual gear, hydraulic or pneumatic actuator
Flange rating	DIN, ASA, ISO, FN, BS, JIS

##### 1.2 Temperature range depending on the seat material

Body Seat	Max. temp.
PTFE (10% carbon)	170 °C
1.4470 (Metal seat type Y)	550 °C
1.4547	400 °C
1.4462	350 °C
PTFE (Fibreglass 15%)	170 °C
HiCo (High Cobalt alloy)	550 °C

The maximum service pressure and temperature are not to exceed those specified by the manufacturer.

##### 1.3 Material specification depending on type

Body and disc	Stainless steel 2343-12 (CF8M)
Seat	PTFE (10% carbon), 1.4470 (Metal seat type Y), 1.4462, 1.4547, PTFE (Fibreglass 15%), HiCo (High Cobalt alloy)

When other choices of materials are used per manufacturer's instructions, the BV agreement is to be obtained

### 2. DOCUMENTS AND DRAWINGS

- Datasheet, Butterfly Valve N° Si-205 EN Edition 2013-04
- Datasheet, Butterfly Valve for marine cargo systems N° Si-206 EN Edition 2013-03
- Service and Operating Instruction, Butterfly Valves N° Mi-205 EN Edition 2013-01

### 3. TEST REPORTS

#### 3.1 Function test, pressure and tightness test performed, report N°:

Report N°	Dated	Report N°	Dated
9136/13	15/01/2013	9997/10	04/02/2010
9119/13	15/01/2013	9110/13	18/01/2013
2055/10	11/03/2010	9108/13	18/01/2013
9826/09	28/10/2009	9111/13	18/01/2013

#### 3.2 Fire test reports N° EDB 000118/3 & 000118/5 dated 12/06/1990

### 4. APPLICATION / LIMITATION

#### 4.1 May be used for the following services on board:

- Cargo oil transfer of oil tankers and chemical tankers
- Shipside valves, bilge and ballast, washing and fire extinguishing, sea water and fresh water cooling, fuel oil and lubricating oil, hydraulic oil, inert gas, compressed air, domestic and sanitary systems

4.2 The butterfly valves belong to class I, class II and class III according to the relevant requirements stated in Pt C, Ch 1, Sec 10 and Pt D, Ch 7, Sec 4 and Ch 8, Sec 5 of the Bureau Veritas Rules. Valves under static pressure on fuel oil tanks and lubricating oil tanks, valves fitted on the ship side and collision bulkhead belong to Class II.

4.3 Corrosion test may be required for stainless steel castings intended for chemicals acc. to Pt D, Ch 8, Sec 5 of the Bureau Veritas Rules applicable to chemical tankers.

4.4 The butterfly valve body, disc and sealing should be suitable for the intended service. In particular the nature of materials, joints included, is to be selected according to the fluid to be conveyed.

4.5 The use of ordinary cast iron and stainless steel is to be restricted as per the Rules.

4.6 The approval does not include any operating gear for remote control of the valves.

4.7 The valve is to be installed according to manufacturer instructions and Bureau Veritas Rules.

4.8 When the butterfly valves are not fitted with flanges their use may be accepted as shipside valves provided that arrangement are made to allow a possible disassembling at sea of the pipes immediately inboard without any risk of flooding.

4.9 Bilge valves will be fitted in association with a non return valves.

## **5. PRODUCTION SURVEY REQUIREMENTS**

5.1 The products are to be supplied by **SOMAS AB** in compliance with the type and the requirements described in this certificate.

5.2 This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 Bureau Veritas Certificates are required for materials of valve housings of class I and class II. Materials of valve housings of class I and class II and other pressure boundary parts of class I and class II are to be with Work's certificates. DN's are given in table 5 (Pt D, Ch 7, Sec 4), table 2 (Pt D, Ch 8, Sec 5), table 38 (Pt C, Ch 1, Sec 10) of the Bureau Veritas Rules.

5.4 Each valve housing for class I and class II is to be hydraulically pressure tested to 1.5 times the design pressure.

### **Place of production**

**Box 107 Norrlandsvägen 26-28  
661 23 Säffle (Sweden)**

## **6. MARKING OF PRODUCT**

The butterfly valve is to be at least marked with:

- Manufacturer's name or logo
- Type designation
- Size
- Pressure class
- Society's brand as relevant

## **7. OTHERS**

This certificate is given on the understanding that the manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the product and of the conditions of this approval.

\*\*\* END OF CERTIFICATE \*\*\*