



Marine &amp; Offshore

Certificate number: 34474/C0 BV

File number: ACM 145/2571/01

Product code: 7232I

*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 Instrument AB**

Säffle - SWEDEN

*for the type of product*

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

Type MTV/MTVF/MTVL & MTVCL/MTVCL

### Requirements:

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

*This certificate is issued to attest that Bureau Veritas Marine & Offshore 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: 16 Aug 2029**

**For Bureau Veritas Marine & Offshore,**

At BV GOTHENBURG, on 16 Aug 2024,

Hans-erik ERICSSON

***This certificate was created electronically and is valid without signature***



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 Marine & Offshore. 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 & Offshore 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 Marine & Offshore 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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION

#### Butterfly Valves MTV/MTVF/MTVL & MTVC/MTVCL

##### 1.1 Technical specification

Type	MTV, MTVF & MTVL	MTVC & MTVCL
Valve Body Design	Wafer (MTV), Flanged (MTVF) & Lugged (MTVL)	Wafer (MTVC) & Lugged (MTVCL)
Nominal Size (mm)	DN 80 to DN 500	DN 80 to DN 350
Nominal Pressure (bar)	PN 10 to 25	PN 10 to 25
Operation mode	Hand lever, manual gear, hydraulic or pneumatic actuator	Hand lever, manual gear or hydraulic actuator
Flange rating	DIN, ASA, ISO, FN, BS, JIS	/
Temperature range	0°C to 350°C	0°C to 150°C

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

Body Seat	Max. temp.
PTFE (10% carbon)	150 °C
1.4470 (Metal seat type Y)	550 °C
1.4547	400 °C
1.4462	350 °C
1.4462 (metal seat type C)	150 °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 2023-01
- Datasheet, Butterfly Valve for marine cargo systems N° Si-206 EN Edition 2018-07
- Service and Operating Instruction, Butterfly Valves MTV model N° Mi-205 EN Edition 2021-09
- Service and Operating Instruction, Butterfly Valves MTVC model N° Mi-206 EN Edition 2023-04

### 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 - 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.

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

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

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

4.7 - 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.

4.8 - 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 Instrument 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 - BV product certificate is required.

5.4 - BV Certificate is required for materials of valve housings of class I (DN  $\geq 50$ ) or class II (DN  $\geq 100$ ). Materials of valve housings of class I (DN  $< 50$ ) or class II (DN  $< 100$ ) and for other parts are to be with Work's certificates.

5.5 - Each valve housing for class I and class II is to be hydraulically pressure tested to 1.5 times the design pressure. Valves intended to be fitted on the shipside below the load waterline are to be tested by hydraulic pressure not less than 0,5 MPa

5.6 - For information, **SOMAS Instrument AB** has declared to Bureau Veritas the following production site:

**SOMAS Instrument AB: 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**

It is **SOMAS Instrument AB**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*This certificate supersedes the Type Approval Certificate No. 34474/B0 BV issued by the Society.*

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