Marine & Offshore

Certificate number: 75475/A0 BV
File number: .
Product code: 2205I

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

Butterfly valves type SPV, VSS HT and MTV HT

Requirements:
Bureau Veritas Rules for the Classification of Steel Ships

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: 05 Dec 2028

For Bureau Veritas Marine & Offshore,
At BV COPENHAGEN, on 05 Dec 2023,
Hans-erik ERICSSON

This certificate was created electronically and is valid without signature

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

Butterfly valves type SPV, VSS HT and MTV HT

1.1 Ratings

Model	SPV	VSS HT	MTV HT
Size range	DN 80 to DN 1200	DN 400 to DN 1200	DN 80 to DN 350
Class range	PN 10	PN 25	PN25
Design Pressure (bar)	5	5	5
Max. Operating Pressure (bar)	10	25	25
Design Temperature (°C)	550°C	550°C	550°C
Temperature range (°C)	200°C to 500°C	200°C to 500°C	200°C to 500°C
End connections	Wafer	Wafer	Wafer

1.2 Materials

Part	Material
Body	A487-CA6NM / CF8M/1.4408
Cover	A487-CA6NM/1.4408/CF8M
Seat	1.4000/1.4835
Disc	A487-CA6NM/CF8M/1.4408/1.4436

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

2. DOCUMENTS AND DRAWINGS

- Drawing N° D-4944 Rev. U1 dated 03/03/2021 : SPV DN 80
- Drawing N° D-4848 Rev. U1 dated 29/09/2020 : SPV DN 100
- Drawing N° D-4834 Rev. U1 dated 20/11/2020 : SPV DN 125
- Drawing N° D-4945 Rev. U1 dated 03/03/2021 : SPV DN 150
- Drawing N° D-4946 Rev. U1 dated 03/03/2021 : SPV DN 200
- Drawing N° D-4947 Rev. U1 dated 03/03/2021 : SPV DN 250
- Drawing N° D-4948 Rev. U1 dated 03/03/2021 : SPV DN 300
- Drawing N° D-4845 Rev. U1 dated 28/20/2020 : SPV DN 350
- Drawing N° D-4950 Rev. U1 dated 03/03/2021 : SPV DN 400
- Drawing N° D-4968 Rev. U1 dated 12/03/2021 : SPV DN 450
- Drawing N° D-4789 Rev. U1 dated 04/12/2020 : SPV DN 500
- Drawing N° D-4951 Rev. U1 dated 03/03/2021 : SPV DN 600
- Drawing N° D-4952 Rev. U1 dated 03/03/2021 : SPV DN 700
- Drawing N° D-4953 Rev. U1 dated 03/03/2021 : SPV DN 800
- Drawing N° D-4954 Rev. U1 dated 03/03/2021 : SPV DN 900
- Drawing N° D-4866 Rev. U1 dated 26/10/2020 : SPV DN 1000
- Drawing N° D-4881 Rev. U1 dated 05/01/2021 : SPV DN 1200
- Drawing N° D-4210 Rev. U1 dated 27/11/2017 : VSS HT DN 400
- Drawing N° D-4225 Rev. U1 dated 13/12/2017 : VSS HT DN 450
- Drawing N° D-4189 Rev. U1 dated 12/10/2017 : VSS HT DN 500
- Drawing N° D-4072 Rev. U1 dated 12/05/2017 : VSS HT DN 600
- Drawing N° D-4060 Rev. U1 dated 08/05/2017 : VSS HT DN 700
- Drawing N° D-4167 Rev. U1 dated 20/09/2020 : VSS HT DN 800
- Drawing N° D-4064 Rev. U1 dated 08/05/2017 : VSS HT DN 900
- Drawing N° D-4149 Rev. U1 dated 19/10/2017 : VSS HT DN 1000
- Drawing N° D-4139 Rev. U1 dated 05/09/2017 : VSS HT DN 1200

- Drawing N° D-4178 Rev. U1 dared 22/09/2017 : MTV HT DN 80
- Drawing N° D-4183 Rev. U1 dared 26/09/2017 : MTV HT DN 100
- Drawing N° D-4173 Rev. U1 dared 22/09/2017 : MTV HT DN 125
- Drawing N° D-4208 Rev. U1 dared 24/11/2017 : MTV HT DN 150
- Drawing N° D-4182 Rev. U1 dared 25/09/2017 : MTV HT DN 200
- Drawing N° D-4186 Rev. U1 dared 27/09/2017 : MTV HT DN 250
- Drawing N° D-4172 Rev. U1 dared 27/09/2017 : MTV HT DN 300
- Drawing N° D-4207 Rev. U1 dared 23/11/2017 : MTV HT DN 350
- Technical specification :

SPV	
DN	**Date**
80	20/09/2020
100	08/05/2020
125	20/09/2021
150	20/09/2021
200	20/09/2021
250	20/09/2021
300	20/09/2021
350	01/06/2022
400	20/09/2021

DN	**Date**
450	20/04/2021
500	20/09/2021
600	12/01/2021
700	20/09/2021
800	20/09/2021
900	20/09/2021
1000	20/09/2021
1200	20/09/2021

VSS HT	
DN	**Date**
400	16/03/2023
450	10/11/2023
500	20/02/2020
600	20/02/2020
700	20/02/2020
800	20/02/2020
900	20/02/2020
1000	20/02/2020
1200	20/02/2020

MTV HT	
DN	**Date**
80	01/06/2020
100	08/05/2020
125	08/05/2020
150	08/05/2020
200	08/05/2020
250	08/05/2020
300	30/01/2020
350	30/01/2020

- Manual of installation, use and maintenance for SPV model N° Mi-217/I/EN dated 12/2022 and N° Mi-217/M/EN dated 12/2021
- Manual of installation, use and maintenance for MTVHT and VSS HT N° Mi-207/M/EN dated 12/2021
- Datahseet for SPV N° Si-217 EN dated 04/2023
- Datasheet for MTV HT and VSS HT N° Si-207 EN dated 01/2021

No departure from the above documents shall be made without the prior consent of the Society. The manufacturer must inform the Society of any modification or changes to these documents and drawings.

3. TEST REPORTS

Not required.

Fire resistance test not performed.

4. APPLICATION / LIMITATION

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

- Shipside valves - Sea water and fresh water - Bilge and ballast transfer - Compressed air - Cargo oil for tankers - Inert gas systems - Fuel-oil and lubricating oil transfer - Exhaust gas - Domestic and sanitary systems - washing and fire extinguishing - Hydraulic oil - Deck foam systems - Non-essential systems

4.2 - The valves belong to Class I, Class II and Class III according to the relevant requirements stated in Part C, Ch 1, Sec 10. Valves fitted on the ship side and collision bulkhead, and valves fitted on fuel oil and lub oil tanks under static pressure belong to Class II.

4.3 - The valve body, disc and seat 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 and the temperature.

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

4.5 - Bilge valves will be fitted in association with a non-return valve.

4.6 - The valves are to be installed according to the manufacturer's instructions and Society's Rule requirements.

4.7 - The use of stainless steel and grey cast iron is to be restricted as per the BUREAU VERITAS Rules.

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

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 BV 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≥50) or class II (DN≥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
Norrlandsvägen 26
661 23 Säffle
SWEDEN

6. MARKING OF PRODUCT

Each valve shall be permanently marked with at least:

- Manufacturer's name or logo
- Type designation
- Maximum working Pressure
- 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.

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