

Certificate of Approval

This document certifies that:

Somas Instrument AB

Norrlandsvägen 26, SE-661 40 Säffle, Sweden

Has been granted a **Certificate of Approval** by MAN Energy Solutions for design, manufacture and supply of:

Tier III Valve

Butterfly Valve, Acid resistant

Valve group 1, 2, and 3 ($80 \leq DN < 900$)

for BTV, CCV, BBV, and SOV

SOMAS valves codes:

MTV HT-A5-XXX-XX1-DN...-PN...

VSS HT-A5-XXX-XX1-DN...-PN...

For MAN B&W engines (two-stroke) in accordance with the Terms and Conditions stated in Appendix A

Issue date: 23/10/2024

Expiration date: 23/10/2029

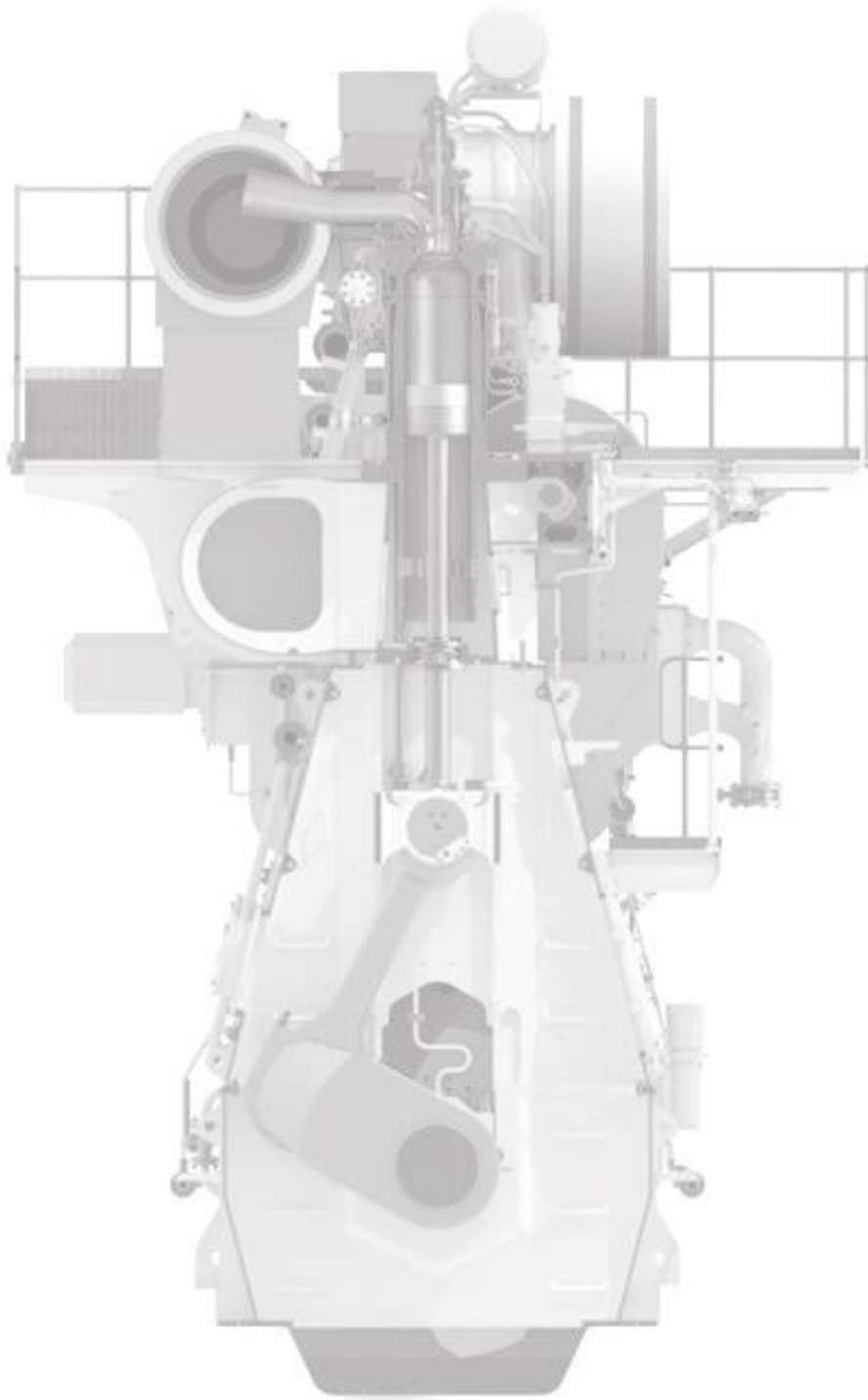
Certificate No.: 0592. 3

Lasse Bøgede Andersen



Thomas Wolters





Appendix A:

Certificate No.: 0592. 3

The approval as Vendor is based on the premise that the production and testing facilities, associated procedures and relevant qualifications are found in compliance with:

Quality Control Ident no. 0743172-1.14 "General Procedure for First-Time production Approval of Controlled Components"

Quality Control Ident no. 0743967-8 "Tier III Valve, Butterfly Valve, Acid resistant"

Related documentation and conditions:

Drawing: Valve and torque data, C-11945 Rev. U1, D-3912 Rev. U1

Drawing: Actuator and IP converter data, C-11948 Rev. U1, C-11949 Rev. U1

Report: Service, Maintenance and operating instruction Tier III valves and actuators, Mi-MDT Tlii EN, Edition: 2017-04: Rev 0

Report: Instruction for Emergency operation of Tier III Butterfly Valves, Mi-MDT Tlii-01, Edition: 2017-04: Rev 0

Report: Spare & consumption part list for the valve, RL-70201-00 Edition: 2017-04

Report: Spare & consumption part list for the actuator, RL-35247-01-HNM Edition: 2017-04

Report: First time approval valve group no. 2, Document No.: TR-T100021 Rev. 0 dated 13th April 2017

Report: Work shop report Pegasus Voyager, file name: S90-444 dated 25th June 2019

Product key: SOMAS VSS HT - A... - XAX - X61 - DN... - D... - B... - PN10

A ... = Nominal Pressure 2 = PN10; 5 = PN25

DN... = Valve size

D... = Shaft diameter

B... = Actuator mounting flange

With this conditional approval, MAN ES accepts that:

1. Vendor shall at all times comply with the restrictions stipulated in the MAN SE Code of Conduct for Suppliers and Business Partners, Version 2.0 applicable as of January 1, 2015
2. The Certificate of Approval (the “Approval”) is given on the strict condition that Vendor undertake to indemnify MAN Energy Solutions against any and all claims arising from the Product’s actual or alleged infringement of any third party intellectual property rights.
3. For Product’s designed by the Vendor, the Approval is given on the strict condition that Vendor undertakes to indemnify MAN Energy Solutions against any and all claims arising from the Product’s design.
4. The Approval is given on the basis that the Product conforms with MAN Energy Solutions’ drawings and specifications valid at the time of the Approval. MAN Energy Solutions reserves the right to make changes to its drawings and product specifications notwithstanding that such changes may invalidate the Approval.
5. The Approval shall not relieve Vendor from its responsibility always to manufacture the Product in compliance with good manufacturing practice, free from any defect and in strict compliance with any drawings and specifications received from MAN Energy Solutions or its licensees.
6. Changes made to the Product specification by the Vendor must be informed to and accepted by MAN Energy Solutions in writing. Failure by the Vendor to obtain such written acceptance from MAN Energy Solutions may render this Approval invalid.
7. The Approval is given under the strict condition that MAN Energy Solutions has the right to assess periodically the Vendors continued ability to manufacture the Product in accordance with the requirements of MAN Energy Solutions.
8. The Approval does not imply (whether directly or indirectly) that MAN Energy Solutions in any way guarantee the quality of the Product manufactured and supplied by Vendor.
9. The Approval may be withdrawn by MAN Energy Solutions at any time without notice if Vendor should fail to comply with the conditions of this Certificate of Approval, the MAN Energy Solutions Code of Conduct for Suppliers and Business Partners and Quality Control 0743172-1 “General Procedure for First-Time Production Approval of

Controlled Components” and may otherwise be withdrawn by MAN Energy Solutions at any time by giving six months prior, written notice to the Vendor.

