**Certificate number:** 39347/C0 BV
**File number:** AP 4544
**Product code:** 3931H

*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*

## Valmet Flow Control Oy

Vantaa - FINLAND

*for the type of product*

## VALVE SOLENOIDS

Neles VG9300H/I series intelligent safety solenoid

**Requirements:**
Bureau Veritas Rules for the Classification of Steel Ships

EC Code : 41SB

*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: 06 Mar 2031**

**For Bureau Veritas Marine & Offshore,**
At BV TURKU (ABO), on 06 Mar 2026,
Miika KOKKO

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

# THE SCHEDULE OF APPROVAL

## 1. PRODUCT DESCRIPTION:

**Neles ValvGuard VG9300H** series intelligent safety solenoid with limit switch "I".

**Neles ValvGuard VG9300H** is a 4-20 mA loop-powered microcontroller-based intelligent safety solenoid and partial stroke test device with HART communication. The device satety position is 6.0 mA or below. The device stays alive even at 3.7 mA input signal and communicates via HART.

### 1.1 - Technical specifications:

| Designation | Characteristics |
|---|---|
| Action | : Double or single acting |
| Standard temperature range | : -25°C to +55°C |
| Material | : Full stainless steel enclosure |
| Pneumatic ports | : 1/4 NPT |
| Supply pressure | : 3–7.5 bar / 44–109 psi |
| Supply power | : Loop powered, 4–20 mA |
| Voltage | : max 30 V DC |
| Ex approvals | : Ex ia IIC T4...T6 Ga<br>: Ex ib IIC T4...T6 Gb<br>: Ex nA IIC T4...T6 Gc<br>: Ex d IIC T6...T4 Gb<br>: Ex tb IIIC T80°C...T105°C Db |

## 2. DOCUMENTS AND DRAWINGS:

- Installation, Maintenance and Operating Instructions VG9000H, Ref .: 7 VG9H 70 en Rev. 2.5.
- VG9000H Test Report - Version 1.3, dated October 19, 2009.
- VG9000H Safety requirements, dated Oct 19, 2009
- VG9000H Functional safety description of firmware Version.1.0, dated Sep. 04, 2009
- Drawing LAY02250D_IS_LAYOUT_CREEPAGE_SHART, Version D, dated 28.10.2009.
- Drawing Enclosure Assembly No.F30764 - Revision D, dated 20.02.2013
- Drawing Enclosure No.F30809 rev A, dated 08.11.2013

**Espotel:**

- VG9000 Ex Intrinsic Safety Description - Version I, dated 2022-12-05.
- Drawing SCH02250F_SHART, version G, dated 02.03.2021
- Drawings VG9000H / Shart Board Power, Hart Interface, Interface, Position Transmitter Option, mA Safety Control & LCP Interface - version F, dated 21.09.2011
- Drawings VG9000 No.TOP LAYER 1/4 with I.S. creepage markings - version F, dated 19.05.2008
- Drawings VG9000 No.Power Plane Layer 2/4 with I.S. creepage markings - version F, dated 19.05.2008
- Drawings VG9000 No.Ground Plane Layer 3/4 with I.S. creepage markings - version F, dated 19.05.2008
- Drawings VG9000 No.Bottom Layer 4/4 with I.S. creepage markings - version F, dated 19.05.2008
- Drawing No. SCH02260 rev I dated 21.09.2011

**EUROFINS Expert services Oy :**

- Certificate EESF 20 ATEX 025X issue 2 dated 10.10.2023
- Certificate EESF 20 ATEX 026X issue 3 dated 10.10.2023
- Eurofins Expert Services Certificate of Conformity No. IECEx EESF 20.0016X issue No.3, dated 10.10.2023
- Eurofins Expert Services Certificate of Conformity No. IECEx EESF 20.0017X issue No.2, dated 10.10.2023

**SIRA:**

- SIRA certification Service Certificate of Conformity No. IECEx SIR 11.0001X issue No.16, dated 2024-03-22
- Certificate Sira 11ATEX1006X issue No.17, dated 2022.04.14

**3. TEST REPORTS:**

**Nemko:**

- EMC test report No.135608, dated 16.02.2011.

**VTT:**

- Environmental test report No.VTT-S-03231-14, dated August 05, 2014.
- Needle flame test report IEC 60695-11-5 No.VTT-S-3121-14, dated 19 June 2014.
- Tightness test for IP66 N°VTT-S_00572-09, dated February 9, 2009.
- Vibration test report No.VTT-S-05450-14, dated November 24, 2014.

**SGS:**

- EMC Test report No.277025-1, dated July 09, 2014
- EMC Test report No 300446-1 dated 2020 October 02

**SIRA:**

- Assessment report No.R80197523A, dated 22 March 2024

**4. APPLICATION / LIMITATION:**

4.1 - Bureau Veritas Rules for the Classification of Steel Ships.
4.2 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 9.
4.3 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
4.4 - BUREAU VERITAS Environmental Category : **EC41SB**. Installation allowed in the bridge and deck zone.
4.5 - The electrical safety type equipment may be used in areas considered as dangerous due to presence of flammable or explosive gases or vapours corresponding to the groups and to the temperature class depending of ambient temperature as defined in IEC Classification.
4.6 - The machinery protection based on data processing techniques is to be duplicated by another and different system.
4.7 - In accordance with IACS UR E22 and as applicable to programmable devices for computer based systems of Category II or III, for each ship application:
- Ship specific documentation is to be submitted including software documentation and categorization of the computer based system.
- Inspection and testing before installation onboard is to be performed under the surveillance of the Society.

4.8 - Ex certification is not covered by this certificate, Applications in hazardous areas are to be approved in each case according to the Rules and Conditions for Safe Use specified in a valid Ex-Certificate issued by a Notified or Recognised Certification Body.

**5. PRODUCTION SURVEY REQUIREMENTS:**

5.1 - The VG9300H are to be supplied by **Valmet Flow Control Oy** in compliance with the type described in this certificate.
5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.
5.3 - **Valmet Flow Control Oy** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.
5.4 - For information, **Valmet Flow Control Oy** has declared to Bureau Veritas the following production site :

**Valmet Flow Control Oy**
**Vanha Porvoontie 229**
**01380 Vantaa**
**FINLAND**

**6. MARKING OF PRODUCT:**

- Maker's name or trade mark,
- Equipment type number or model identification under which it was type-tested,
- Serial number.
- Ex marking, as relevant

**7. OTHERS:**

7.1 - It is **Valmet Flow Control Oy'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.
7.2 - This certificate supersedes the Type Approval Certificate No. 39347/B0 BV issued by the Society.

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