



TYPE APPROVAL CERTIFICATE

Certificate No:
TAA000011M
Revision No:
3

This is to certify:

That the Flow Switch

with type designation(s)
VH500NI, VH500NM, VH500RI, VH500RM

Issued to

SIKA Dr. Siebert & Kühn GmbH & Co. KG
Kaufungen, Hessen, Germany

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Type	EMC ²⁾	Temperature	Humidity	Vibration	Enclosure
VH 500NI		B	B	B	B
VH 500NM		B	B	B	B
VH500RI		B	B	B	B
VH500RM		B	B	B	B

Issued at **Hamburg** on **2022-02-01**

This Certificate is valid until **2026-12-12**.

for **DNV**

DNV local station: **Magdeburg**

Approval Engineer: **Didier Girardin**

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Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2021-03

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Product description

VH500NI, VH500NM, VH500RI, VH500RM

Type	Setpoint ranges (in water) ¹⁾	Connection	PS max.	PT
VH500RI	1400 l/h up to 9350 l/h	G1	10 bar	15 bar
VH500RM	1400 l/h up to 9350 l/h	M33x2		
VH500NI	1050 l/h up to 8500 l/h	G1	6 bar	10 bar
VH500NM	1050 l/h up to 8500 l/h	M33x2		

1) Setpoint adjustable, tolerance +/- 15%

Micro switch - Change over contact

DC switching capacity

24V 5 A (res. load) 4.0 A (inductive load)

60V 1 A (res. load) 0.5 A (inductive load)

AC switching capacity

250V 10 A (res. load) 10 A (inductive load, pf 0.75)

Water / oil flow detector / switch

Pipe Sizes	DN 25	DN 32	DN 40	DN 50
Paddle Segment	25x30	25x30	25x30	25x30
(mm)	---	25x38	25x38	25x38
	---	---	25x46	25x46
	---	---	---	25x58

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Application/Limitation

Type Approval documentation

See Annex

Tests carried out

Applicable tests according to Class Guideline DNV-CG-0339, August 2021.

Marking of product

The products to be marked with:

- model name
- manufacturer name
- serial number

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE



ANNEX
hidden

Job Id:	262.1-033500-2
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