



Certificate no.:
TAP00002UN

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Flowmeter

with type designation(s)
S055, SE58 S

issued to
Burkert S.A.S.
Triembach au Val, France

is found to comply with
DNV rules for classification – Ships Pt.4 Ch.6 Piping systems
DNV class guideline DNV-CG-0339 – Environmental test specification for electrical, electronic and programmable equipment and systems

Application:

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Type:	Temperature range:	Max. working press.:	Sizes:
S055	-	-	DN 100, 125, 150, 200, 250, 300, 350, 400
SE58 S	D	-	-

Issued at **Hamburg** on **2024-03-07**

This Certificate is valid until **2029-03-06**.

for **DNV**

DNV local unit: **France CMC**

Approval Engineer: **Jörg Hille**

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

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Product description

Electromagnetic Flow Meter consisting of sensor S055 and electronic control unit SE58 S.

Main features of S055:

The pressurised part consists of a stainless steel pipe with welded carbon steel flanges and a lining made of one of the following materials: polytetrafluoroethylene (PTFE), polyamide 11 (Rilsan), hard rubber made from natural rubber and sulphur (ebonite), polyetheretherketone (PEEK).

Main features of SE58:

	Description	Allowed value	Signification
(1) TYP	Product type	SE58	Electromagnetic flow transmitter
(2) TTYP	Transmitter type	10	SE58 S
(3) KALA	Cable length with connection	002M	2 meters cable
(19) DG	Display size	0	Without display
(23) BOMA	Body material	11 14	Aluminium AISI 304
(24) IO	Input/output	5 6	2 DO + 1 AO 2 DO

Power supply: 10 – 30 V DC (24 V nominal)
Signal output: 4 – 20 mA and/or digital output
Electrical connection: 5 poles cable, PG11 cable gland.
Software version: 1.05.0000.xxxx

Ambient classes:

Temperature D
Humidity B
Vibration A
EMC A
Enclosure D / IP68 (submerged in water 0.75 m / 1 h)

Application/Limitation

The flowmeter type is approved for water and seawater systems. Medium shall be conductive.

The selection and installation of a flowmeter shall be as per the manufacturer's instructions.
Lining material selection is based on service conditions with respect to medium, its pressure, flow velocity and temperature. Satisfactory service life shall be insured by the certificate holder.

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The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, 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 DNVRU SHIP Pt.4 Ch.9 Sec. 1.

Type Approval documentation

Tests carried out

- Electrical part: applicable tests according to Class Guideline DNV-CG-0339, August 2021;
- Burst pressure test.

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment after two years (+/- 90 days)



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and after 3.5 years (+/- 90 days) to verify that the conditions for the Type Approval are complied with. Refer to DNV CP-0338, Sec.4.

The certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>.

END OF CERTIFICATE