



Marine & Offshore

Certificate number: 33679/C1 BV

File number: ACM 149/2513/1

Product code: 1542I

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

HEROSE GMBH ARMATUREN UND METALLE

Bad Oldesloe - GERMANY

for the type of product

STRAINERS AND FILTERS

STRAINERS

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships

BUREAU VERITAS Rules for the Classification of Offshore Units

BUREAU VERITAS Rules for Gas Fuelled Ships

IGC Code as amended by MSC.441(99)

IGF Code as amended by MSC.422(98)

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: 21 Jul 2028

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 29 Nov 2024,

Heiko Lange

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Strainers

1.1 Design:

Female thread connection according to ISO 228/1, ISO 7-Rc or ANSI B 1.20.1,
But weld or socket weld connection for stainless steel pipes according to DIN EN ISO 1127 or ASTM A312 and
flange connection according to DIN EN 1092-1 or ANSI B 16.5
Stainless steel body and stainless steel or bronze cap with strainer screen mesh size: 0.25 mm.

1.2 Identification and technical data:

Type 08417 – Strainer:

Size range: DN10, DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN150 and DN200
Pressure: PN50 (DN150=PN40, DN200=PN25)
Temperature range: -196 °C up to +120 °C

Type 08432 – Strainers, DIN EN flanges / ANSI flanges:

Size range: DN15, DN25, DN40, DN50, DN65, DN80, DN100 and DN150
Pressure: PN40 / PN50
Temperature range: -196 °C up to +120 °C

Type 08717 – Strainer:

Size range: DN10, DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100 and DN150
Pressure: PN50 (DN150=PN40)
Temperature range: -255 °C up to +120 °C

Type 08732 – Strainer, DIN EN flanges / ANSI flanges:

Size range: DN15, DN20, DN25, DN40, DN50, DN65, DN80, DN100 and DN150
Pressure: PN40
Temperature range: -255 °C up to +120 °C

1.3 Material and components:

Standard	DIN EN	ASTM
Body	1.4308 / 1.4409	A 351 CF8 / A 351 CF3M
Strainer screen	1.4301 / 1.4401 / 1.4404	A 240 Grade 304 / A 276 Grade 316 / 316L
Bonnet gasket	PTFE / Graphite	Graphite
Bolts	1.4301/A2 / 1.4571/A4 / A4-80	A 194 B8 / A 194 B8T / B8M
Cap	1.4301/ 1.4404	A 276 Grade 304 / A 276 Grade 316L

2. DOCUMENTS AND DRAWINGS:

According following documents:

Document no.	Rev.	Designation
08417-DN200-000X-WKSTLISTE	07.03.2018	Strainer
08417-X-0XXX-WKSTLISTE	02.04.2020	Stainless steel Strainer
08432-X-00XX-WKSTLISTE	07.03.2018	Strainer
08717-X-000X-WKSTLISTE	02.04.2020	Strainer
08732-X-ZULASSUNG	20.04.2020	Strainer

3. TEST REPORTS:

- 3.1 Pressure test including burst test according to DIN EN 12266-1 performed on 26/03/2015 and witnessed by an IACS member.
- 3.2 Leakage tests according to BS6364 performed on 26/03/2015 and witnessed by an IACS member.

4. APPLICATION / LIMITATION:

- 4.1 Strainers intended to be used for air gases, vapors, ammonia and cryogenic liquefied gases including LNG; in cargo handling systems of oil tankers and liquefied gas tankers and in piping systems onboard ships and offshore units.
- 4.2 The strainers belong to class I according to BUREAU VERITAS Rules.
- 4.3 The materials should be of a suitable type at the temperature and pressure for use with fluids intended to be carried. 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 strainers are to be installed according to the manufacturer's instructions and BUREAU VERITAS Rules requirements.

5. PRODUCTION SURVEY REQUIREMENTS

- 5.1 The valves are to be supplied by **HEROSE GmbH Armaturen und Metalle** in compliance with the type and the requirements described in this certificate.
- 5.2 This type of product is within the category IBV of BUREAU VERITAS Rule Note NR320.
- 5.3 BUREAU VERITAS product certificate is required.
- 5.4 For information, **HEROSE GmbH Armaturen und Metalle** has declared to BUREAU VERITAS the following production site:
HEROSE GmbH Armaturen und Metalle, Bad Oldesloe / GERMANY
- 5.5 For liquefied gas applications, materials are to comply with the approved drawings and the applicable requirements in BUREAU VERITAS Rules. Charpy impact test is to be as per the Society's Rules on materials, and where relevant, in accordance with requirements of IGC Code.
- 5.6 Each strainer is to be hydraulically pressure tested to 1.5 times the maximum design pressure under witnessing of a Society's Surveyor.

6. MARKING OF PRODUCT:

Each strainer is at least to be marked with:

- Manufacturer's name or logo
- Type designation
- Size
- Design pressure
- Temperature range
- BUREAU VERITAS' marks

7. OTHERS:

- 7.1 It is **HEROSE GmbH Armaturen und Metalle**'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 N° 33679/C0 BV issued on 21 Jul 2023 by the Society.

*** END OF CERTIFICATE ***