



Marine & Offshore

Certificate number: 54412/B0 BV

File number: ACM 101/1432/01

Product code: 1403I

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

SEIM S.r.l.

Cusago - ITALY

for the type of product

SCREW PUMPS

Fuel Oil Double Station SPB

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

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: 13 Jun 2029

For Bureau Veritas Marine & Offshore,

At BV NAPOLI, on 13 Jun 2024,

Alessandro Asbornio

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.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=gvp2f46mro>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

Fuel oil double station SPB

1.1 Technical characteristics

Model	Nominal capacity (l/min)	Max. Pressure (bar)	Output Power (kW)	Speed (rpm)	Medium Viscosity (cSt)
SPB 020	18,4	40	1,4	1000 - 3600	1,2 - 5000
SPB 025	42	40	3,6	1000 - 3600	1,2 - 5000

Temperature range: 0 to 140°C

1.2 Material specification

Part	Material
Body	ASTM A536 65-45-12
Spindle	ASTM A322 Gr. 5120
Seal	FKM

When other choices of materials are used per manufacturer's recommendations, the BV agreement is to be obtained.

2. DOCUMENTS AND DRAWINGS

- Document N° SD-STE-SPB-ENG Rev.0 dated July 2013
- Drawing N° SPVB_VE Rev. 1 dated 21/10/2016: SPB Layout
- Drawing N° SPB DB Rev. 2 dated 21/10/2016: Bill of components
- Instruction and Maintenance Manual N° MUM-SPB-ENG-4-15-0
- FEM Analysis dated 24/01/2019
- Performance chart dated 30/10/2018

No departure from the above documents shall be made without the prior consent of the Society. The manufacturer must inform the Society of any modification or changes to these documents and drawings.

3. TEST REPORTS

- Hydrostatic test reports N° 175/18 dated 24/07/2018, N° 220/17 dated 09/05/2017

4. APPLICATION / LIMITATION

- 4.1 - May be used for heavy fuel, hydraulic oil and lubricating oil.
- 4.2 - The pumps body and internal parts should be of a suitable type for use with cargoes intended to be carried.
- 4.3 - The approval does not include the prime mover of the pump.
- 4.4 - The pump is to be installed according to manufacturer's instructions and Bureau Veritas Rules requirements.
- 4.5 - The use of cast iron is restricted as per Bureau Veritas Rules.

5. PRODUCTION SURVEY REQUIREMENTS

- 5.1 - The products are to be supplied by **SEIM S.r.l.** 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 - BV product certificate is required.
- 5.4 - Each pump is to be hydrostatically pressure tested to 1,5 times the design pressure, performance tested, and delivered with a Bureau Veritas certificate.
- 5.5 - For information, **SEIM S.r.l.** has declared to Bureau Veritas the following production site:

SEIM S.r.l.

Via A.Volta, 17, 20090 Cusago, ITALY

6. MARKING OF PRODUCT

Each pump shall be permanently marked with the following information:

- Manufacturer's name or logo
- Serial number
- Maximum working pressure
- Society's brand as relevant

7. OTHERS

It is **SEIM S.r.l.** 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.

This certificate supersedes the Type Approval Certificate N° 54412/A0 BV issued by the Society.

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