

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Separator Discharge Controller**with type designation(s)
EPC 60 Pure Dry

Issued to

Alfa Laval Tumba AB
Tumba, Stockholms Län, Sweden

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Products approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Location classes:**

Temperature	A
Humidity	B
Vibration	A
EMC	A
Enclosure	B / IP44

Issued at **Høvik** on **2018-02-13**This Certificate is valid until **2020-02-12**.DNV GL local station: **Stockholm**for **DNV GL**Approval Engineer: **Geir Bjørn Alnes**

Odd Magne Nesvåg
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.



Product description

The EPC60 PureDry is a control system for waste oil recovery system.

The control cabinet monitors the following functions:

- electric power functions, such as a transformer for power supplies
- motor starters.
- pump unit speed control.
- power supply for all pneumatic control devices.

Software version: 599142 v1 / 1.08.00 2016-05-26

Application/Limitation

The following documentation of the actual application is to be submitted for approval in each case:

- Reference to this Type Approval Certificate
- System block diagram
- Power supply arrangement (may be part of the System block diagram)

The Type Approval covers hardware and software listed under Product description.

When the type approved software is revised (affecting all future deliveries) DNV GL is to be informed by forwarding updated software version documentation. If the changes are judged to affect functionality for which rule requirements apply a new functional type test may be required and the certificate may have to be renewed to identify the new software version.

As long as the units are covered by the Type Approval, a product certificate according to DNV GL rules Pt.4 Ch.9 Sec.1 [1.4] will not be required. Correct configuration and set up for each delivery to be tested during commissioning after installation.

Place of manufacture

PC Project, Via Bergamo 83
23 807 Merate (LC)
Italy

Type Approval documentation

Tests carried out

Applicable tests according to DNV Standard for Certification No. 2.4, April 2006.

Marking of product

The products to be marked with:

- model type designation
- 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

A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE