DNV·GL

Certificate No:
TAP000010C

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Air Reservoir

with type designation(s)
SAR-30

Issued to
MASKINSPECIALISTEN AS
OSLO, Norway

is found to comply with
DNVGL-OS-D101 – Marine and machinery systems and equipment, Edition July 2015
DNV GL rules for classification – Ships Pt.4 Ch.7 Pressure equipment

Application :

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

Temperature range:	**-40°C to +100°C**
Design pressure:	**30 bar**
Sizes:	**Ø500, Ø600, Ø800 mm**

Issued at **Høvik** on **2017-07-03**
This Certificate is valid until **2022-07-02**.
DNV GL local station: **Oslo Maritime and CAP**

for **DNV GL**

Approval Engineer: **Iselinn Vindstad**

Marianne Spæren Marveng
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.

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Product description

Vessel main data:

SAR30 Starting Air Receiver
Design pressure: 30 bar
Hydrostatic test pressure: 45 bar
Design temperature: -40/+100 °C
Medium: Air
Corrosion allowance: 1 mm
Joint efficiency: 0.8
Designed to DNVGL Ship Rules Pt.4 Ch.7, Class I.

Sizes:

Diameter Ø (mm): Ø 500 Ø 600 Ø 800

Materials:

Shell and ends – P355 NL1
Nozzles – A105

Application/Limitation

Manufacturing, workmanship and testing shall be in line with the requirements laid out in DNVGL Ship Rules Pt.4 Ch.7 Sec.7.
Material certificates are required in line with requirements laid out in DNVGL Ship Rules Pt.4 Ch.7 Sec.1 Table 5.
Each vessel is to be certified by a DNVGL Surveyor and is to be delivered with DNVGL product certificate.

Type Approval documentation

Marking of product

Each air receiver shall be permanently and legibly marked on the pressure part or on a nameplate permanently attached to a principal pressure part to show its identity and origin. The marking shall show at least the following particulars:
— manufacturer's name and address
— type designation and serial number
— year of manufacture
— maximum allowable working pressure
— hydrostatic test pressure

Periodical assessment

For retention of the Type Approval, a DNVGL surveyor shall perform a survey every second year and before the expiry date of this certificate to verify that the conditions for the Type Approval are complied with.