DNV·GL

Certificate No:
TAP000008G

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Air Reservoir

with type designation(s)
FI_23069, FI_23055, FI_23070, FI_23074, FI_23077

Issued to
Neuenhauser Kompressorenbau GmbH
Neuenhaus, Germany

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

Application :

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

Temperature range:	**0-50°C**
Design pressure:	**33 and 42 bar (see certificate)**
Sizes:	**30 to 2500 litres**

This Certificate is valid until **2020-06-30**.

Issued at **Høvik** on **2016-03-15**

for **DNV GL**

DNV GL local station: **Essen**

Approval Engineer: **Tom Berg-Nielsen**

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

Carbon steel pressure vessels DNV GL Class I. Joint efficiency factor 0.85. (seamless pipe)

Type	Diameter mm	Size range [litres]	Design Pressure [bar]	Material in shell	Material certificate type
Fl_23055	480	180-500	42	P265GH according to EN 10028-2	VL
Fl_23069	324	30-125	42	P235GH according to EN 10216-2	VL
Fl_23070	650	500-1000	33	P265GH according to EN 10028-2	VL
Fl_23074	800	1250-2000	33	P265GH according to EN 10028-2	VL
Fl_23077	900	1250-2500	33	P265GH according to EN 10028-2	VL

Application/Limitation

May be used for compressed air.

Heat treatment of cold formed heads and removal of backing strips is required. Heat treatment on cold formed parts require an appropriate manufacturer approval of the process.

The air receiver shall be protected by safety valves.

Extent of NDE shall be in accordance with DNV GL Ship Rules Pt. 4, Ch.7 Sec. 7 4.1.2 for joint efficiency factor 0.85.

Each vessel is to be hydraulically pressure tested to 1,5 times the design pressure in prescence of a DNV GL Surveyor.

The air receivers are to be certified by a DNV GL Surveyor and to be delivered with a Product Certificate when intended for DNV GL classed objects.

Type Approval documentation
Marking of product

For traceability to this type approval the products are at least to be marked with:
- Manufacturer's name or trade mark
- Type designation
- Volume

Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform a survey before the expiry date of this certificate, to verify that the conditions for the Type Approval are complied with.