

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pneumatic Volume Booster

with type designation(s)
3755

Issued to

**SAMSON AG Mess- und Regeltechnik
Frankfurt am Main, Germany**

is found to comply with
DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems

Application :

Product approved by this certificate is accepted for installation on all vessels classed by DNV GL.

Temperature range: -25 to +80 [°C]

Design pressure: 10 [bar]

Sizes: n/a

Issued at **Hamburg** on **2020-07-02**

for **DNV GL**

This Certificate is valid until **2025-07-01**.

DNV GL local station: **Augsburg**

Approval Engineer: **Ana Cristina Do Carmo Insfran**

**Olaf Drews
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Pneumatic Volume Booster is a component of Control Valve Accessories without and with pressure gauges, which are installed as part of the control valve.

Design pressure: max. 10 [bar]

Design temperature: -25° to +80°[C]

Materials:

Component	Material	Standard
Body	EN AC-43000KF	DIN EN 1706
	1.4404 A479 316L	DIN EN 10272 ASTM A479
Exhaust side	EN AW-5083-H112	DIN EN 755-2
	1.4404 ASTM A479 316L	DIN EN 10272 ASTM A479

Type Approval documentation

TA Application dated on 2019-11-29
Authorization Samson Letter dated on 2019-12-12
TA Assessment Report dated on 2020-04-22
Datasheet EB 8393EN Mounting and operating instructions dated on November 2017
Data sheet T8393 EN Type 3755 Pneumatic Volume Booster dated on April 2020
ISO 9001 Certificate dated on 2019-09-19
Overview products for Ship-Certification dated on 2020-03-04
Test Documentation – Pressure test dated on 2020-04-22
Test Report Number: E190720E1 dated on 2020-02-05
Test Report environmental tests Number U190720E1, dated on 2020-04-08

Application/Limitation

The Pneumatic Volume Booster type 3755 is used together with positioners to increase the positioning speed of pneumatic actuators with an effective area $\geq 1000\text{cm}^2$ or a travel volume $\geq 6\text{l}$.

The Pneumatic Volume Booster for the corresponding applications and the right installation and maintenance the instructions of the manufacturer are to be observed.

Tests carried out

Pressure Test

Marking of product

For traceability to this type approval the Pneumatic Volume Booster type 3755 are to be marked with:

- Manufacturers name/Product Name
- Temperature range: $-25^{\circ}\text{C} \leq$ to $\leq +80^{\circ}\text{C}$
- Supply max.: 10 bar
- Signal Max: 7 bar
- Output max: 7 bar
- Model No.: 3755-xxxx
- Var.-ID.: xxx
- Serial no.: xxx

Periodical assessment

A condition for retention of the type approval certificate in its validity period is that periodical assessments are successfully carried out. The objective of the periodical assessment is to verify that the conditions for the type approval have not been altered. Regulations for the periodical assessment of the type approval certificate are to be found in the DNVGL Class Programme CP-0338.

It is further to be noted that the Society shall be informed of any:

- Modifications to the product which are liable to affect its characteristics and functions, as originally specified and tested;
- Shifting of the production site and additional production site.

If such notifications are not made, the validity of the type approval certificate terminates.

END OF CERTIFICATE