



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAP000023Y
Revision No:
2

This is to certify:
that the Reversing Amplifier

with type designation(s)
3710

issued to
SAMSON REGULATION S.A.S.
VAULX en VELIN, France

is found to comply with
DNV 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.

Issued at **Hamburg** on **2023-11-09**

This Certificate is valid until **2028-07-01**.

for **DNV**

DNV local unit: **France CMC**

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

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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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

Reversing Amplifier type 3710 is a component of Control Valve Accessories without and with two pressure gauges, which are installed as part of the control valve.

Design pressure: max. 6 [bar]

Design temperature: -25° to +80 [°C]

Temperature Diaphragms: FVMQ
 PTFE: -60 to +80 [°C]

Materials:

Component	Material	Standard
Housing	Alu-Variante: Aluminium EN AC 44200KF	DIN EN 1706
	Niro-Variante: Stainless steel 1.4404/ 316L (X2CrNiMo17-12-2)	DIN EN 10272:2008-01 / ASTM A479/A479M-14
Cover	Aluminium 3.2315 (AW 6082-T6)	DIN EN 573-3
	Stainless steel 1.4404/ 316L (X2CrNiMo17-12-2)	DIN EN 10272:2008-01 / ASTM A479/A479M-14
Diaphragm plate	Aluminium 3.2315 (AW 6082-T6)	DIN EN 573-3
Seat and plug	Brass CW 614N-R430	DIN EN 12164
	Stainless steel 1.4305	DIN EN 10088-3
Diaphragm	FVMQ	
	PTFE	

Application/Limitation

The reversing amplifier type 3710 to operate a double-acting pneumatic actuator using a single-acting pneumatic or electropneumatic positioner or limit switch.

For the corresponding applications and the right installation and maintenance the instructions of the manufacturer are to be observed.



Job ID: **262.1-033174-3**
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Type Approval documentation

Tests carried out

Pressure test

Marking of product

For traceability to this type approval the Reversing Amplifier 3710 are to be marked with:

- Manufacturers name
- Temperature range: -25°C/+80°C
- Model No.: xxxx
- Var.-ID.: xxx
- Serial no.: xxxx

Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the Type Approval are complied with. Refer to DNV CP-0338, Sec.4.

- The certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

END OF CERTIFICATE