

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Reversing Amplifier

with type designation(s)
3710

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.

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

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

for **DNV GL**

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

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: **262.1-033174-1**
Certificate No: **TAP000023Y**

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

END OF CERTIFICATE