



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

25-0288301-PDA
14-Aug-2025
13-Aug-2030
Hamburg Engineering Department

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

SAMSON AKTIENGESELLSCHAFT

located at

**WEISMUELLERSTRASSE 3, , FRANKFURT AM MAIN, Germany,
60314**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Electropneumatic Positioner**

Model: **TROVIS 3730-3**

Endorsements:

Tier: **2 - PDA Issued**

This Product Design Assessment (PDA) Certificate remains valid until 13/Aug/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Hong-Mei Zhao, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

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Tier: 2 - PDA Issued

Product: Electropneumatic Positioner

Model: TROVIS 3730-3

Endorsements:

Intended Service:

Single-acting or double-acting positioner for attachment to pneumatic control valves.

Description:

The TROVIS 3730-3 Electropneumatic Positioner is mounted on pneumatic control valves and used to assign the valve position to the control signal. The positioner compares the electric control signal of a control system to the travel or opening angle of the control valve and issues a signal pressure for the pneumatic actuator.

Rating:

Positioner TROVIS 3730-3:

- Current Input: 4 to 20 mA DC
- Supply air: 1.4 to 7 bar;
- Temperature Rating: - 25 to +80 °C (all versions);
- Degree of protection: IP 66;
- Certified Safe Equipment (BVS 18 ATEX E 044 X, IECEx BVS 18.0035X):
II 2G Ex ia IIC T4/T6 Gb/II 2D Ex ia IIIC T85 °C Db for TROVIS 3730-3-110/111...;
II 2D Ex tb IIIC T85 °C Db for TROVIS 3730-3-510/511...;
II 3G Ex ec IIC T4/T6 Gc/II 2D Ex tb IIIC T85 °C Db for TROVIS 3730-3-810/811...;
II 3G Ex ec IIC T4/T6 Gc for TROVIS 3730-3-850/851... (BVS 18 ATEX E 045)

Service Restriction:

1. Unit Certification is not required for this product.
2. If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
3. Ex certification is not covered by this certificate. Installation in hazardous areas is to be in accordance with any special conditions for safe use detailed in the applicable Ex certificate issued by a notified body.
4. ATEX certified equipment is not to be installed in hazardous areas on U.S. vessels unless it can be proven to have been tested to the applicable IEC 60079 series standards by an independent laboratory accepted by the U.S Coast Guard. USCG MI Notice 01-12 (February 7, 2012). This restriction applies to the intrinsically safe type.

Comments:

1. The manufacturer has provided a declaration about the control of, or the lack of asbestos in this product.
2. The particular applications of the unit are to be specifically approved in conjunction with the relevant system.
3. Installation in hazardous areas is to be in accordance with any special conditions for safe use detailed in the applicable Ex approval certificate.

Notes/Drawing/Documentation:

Drawing No. DE012444-1, DIN EN ISO 9001, Revision: 0

Drawing No. E190720E1, EMC Testreport, Phoenix Testlab, 02.04.2020, Revision: 0

Drawing No. Product overview, Overview Products for Ship-Certification, Revision: 0

Drawing No. T 8484-3 EN, Data Sheet Trovis 3730-3, Revision: 0

Drawing No. Test-Dokumentation, Pressure Test with 1.5 time of the design pressure, Samson AG, 20.04.2020, Revision: 0

Drawing No. U200824E1, Testreport Enclosure, Phoenix Testlab, 15.06.2020, Revision: 0, Pages: 1

Drawing No. U190720E1, Testreport environmental tests, Phoenix Testlab, 08.04.2020, Revision: 0

Drawing No. e83843en, Mounting and operating Instructions Trovis 3730-3, Revision: 0

Drawing No. ex_TROVIS_3730-3-xx1_iecex_en_rev01, TROVIS 3730-3 IECEX, Revision: 02

Drawing No. ex_TROVIS_3730-3_bvs_18_atex_e044x_en_rev00, TROVIS 3730-3 ATEX, Revision: 01

Drawing No. ex_TROVIS_3730-3_bvs_18_atex_e045_en_rev00, TROVIS 3730-3 ATEX, Revision: 01

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----- Rev.2025 -----

Drawing No. e83843en, Mounting and operating Instructions Trovis 3730-3, Revision: 0, Dated: July-2025

Drawing No. 1000110049_swd_000_03_en, Positioner TROVIS 3730-3 DRS IECEX, Revision: 03, Dated: 25-Jan-2023

Drawing No. 1000110590_swd_000_03_en, Positioner TROVIS 3730-3 DRS ATEX/IECEX, Revision: 04, Dated: 20-May-2025

Drawing No. 1000112005_swd_000_02_en, Device Housing P-O TROVIS 3730-1; -3 DRS, Revision: 02, Dated: 17-Apr-2024

Drawing No. 1000112026_swd_000_02_en, Device Housing P-O TROVIS 3730-1; -3 DRS, Revision: 00, Dated: 15-Nov-2022

Drawing No. 1045-0200_SWD_000_03_en, Positioner TROVIS 3730-3-XXX IECEX (EX-AP), Revision: 03, Dated: 16-Feb-2021

Drawing No. 1045-0199_SWD_000_04_en, Positioner TROVIS 3730-3-XXX ATEX (EX-APP), Revision: 04, Dated: 16-Feb-2021

Drawing No. 1050-1443_Deckel_vst_06_en, Revision: 06, Dated: 04-Apr-2024

Drawing No. BVSPS31712_oe, DEKRA Test for degrees of IP66, Revision:0, Dated: 30.08.2023

Terms of Validity:

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STANDARDS

ABS Rules:

2025 Rules for Conditions of Classification: 1-1-4/7.7, 1-1-A3, 1-1-A4, which cover the following:

2025 Rules for Building and Classing Marine Vessels: 4-8-3/1.7, 4-8-3/1.11, 4-8-3/1.17.1, 4-8-3/13, 4-9-9/7, 4-9-9/13, 4-9-9 Table 1

2025 Rules for Conditions of Classification - Offshore Units and Structures: 1B-1-4/9.7, 1B-1-A2, 1-1-A3, which cover the following:

2025 Rules for Building and Classing Mobile Offshore Units: 4-3-1/3.7, 4-3-1/11, 4-3-1/15, 4-3-1/17, 4-3-3/9.1.1, 4-3-3/9.1.2, 4-3-3/9.3.2

National:

NA

International:

IACS UR E10 Rev.9

Government:

NA

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EUMED:

NA

OTHERS:

NA