



Confirmation of Product Type Approval

Company Name: TRAFAG SPOL S.R.O.

Address: VILEMOVSKA 2129 34701 Czech Republic

Product: Pressure Switch

Model(s): Pressure Switch 9B4 - PICOSTAT PST4B

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	22-2328128-PDA	21-DEC-2022	20-DEC-2027
Manufacturing Assessment (MA)	18-PS3586159	16-NOV-2018	15-NOV-2023
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Pressure control, alarm and monitoring functions for marine applications.

Description

Bellow type pressure switch. Housing made of AlSi10Mg (or LM6). Bronze bellows: NG10, NG15, NG22.

Ratings

Model 9B4.--74: Pressure Range: -0.6 to 3.4 bar; Pmax: 12 bar;

Model 9B4.--76: Pressure Range: 0 to 4 bar; Pmax: 12 bar;

Model 9B4.--77: Pressure Range: 0 to 6 bar; Pmax: 12 bar;

Model 9B4.--78: Pressure Range: 1 to 10 bar; Pmax: 24 bar;

Model 9B4.--79: Pressure Range: 1 to 16 bar; Pmax: 24 bar;

Model 9B4.--80: Pressure Range: 2 to 25 bar; Pmax: 40 bar;

Model 9B4.--81: Pressure Range: 4 to 40 bar; Pmax: 50 bar.

Maximum Ambient Operating Temperature: -25° C to 85° C.

Maximum Medium Temperature: -25° C to 125° C.

Maximum Electric Contact Load:

- Microswitch 42: 250 V AC / 6 (1) A, 220 V DC / 0.25 (0.1) A, 110 V DC / 0.5 (0.2) A, 60 V DC / 1 (0.5)

A, 24 V DC / 3 (2) A, 12 V DC / 6 (6) A;

- Microswitch 84: max 30 V / 0.1 (0.1) A; min 5 V / 5 mA.

Enclosure Protection Degree: IP 65, IEC 60529.

Service Restrictions

Unit Certification is not required for this product. 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.

Comments

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes, Drawings and Documentation

Drawing No. H72367q, Technical Datasheet, Revision q

Drawing No. C14613j, 94B Family (INOX), Dimension Drawing, Revision: j

Drawing No. C20784r, 94B Family (BRONZE belows), Dimension Drawing, Revision: r

Drawing No. C31215b, Crouzet switch 83181029, Dimension Drawing, Revision: b

Drawing No. C11491f, Crouzet switch 83186044, Dimension Drawing, Revision: f

Drawing No. V-11140, Test Report, Trafag, 20/06/2012

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 20/Dec/2027 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.

ABS Rules

2022 Marine Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/1.11.1, 4-8-3/1.17, 4-9-9/13.1

International Standards

NA

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in dark ink, appearing to read "James W. Wilson".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 30-Jan-2023 5:46

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

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 prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.