



Marine & Offshore  
Division

Certificate number: 21884/B0 BV

File number: AP 3996

Product code: 3843H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**TRAFAG AG**  
Bubikon - SWITZERLAND

*for the type of product*

**PRESSURE SWITCH**

Picostat PST4 9B4  
Bellow-Type Pressure Switch

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships.

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 20 Aug 2019**

**For BUREAU VERITAS,**

At BV HAMBURG, on 20 Aug 2014,

Dirk Hoepfner



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

The **Picostat PST4 9B4** is a Bellow-Type Pressure Switch.

#### **1.1 - Main characteristics:**

Pressure Range (bar):	0 - 4.0 to 2.0 - 25.0
Output:	Floating change-over contact
Operating Temperature:	-25°C to 85°C
Electrical Connection:	Male Electrical Plug (DIN 43650A),EN175301-803-A
Pressure Connection:	G1/4" female
Sensor / Body Materials:	AlMgSi1 anodized. Bronze bellows NG10, NG15, NG22. Type 33: Silver contacts Type 35: Gold plated contacts (suitable for intrinsically safe control circuits)
Ingress Protection Index:	IP 65

#### **1.2 - Ratings for electric contact:**

Features of the electrical connection	AC	DC
Silver contacts	240V 6 (2) A	220V 0.2 (0.1)A 110V 0.4(0.25)A 48V 2 (1)A 24V 6 (3)A 12V 6 (6)A
	Gold plated contacts	
	Max. 30V 0.3A Min. 4V 1mA	

### 2. DOCUMENTS AND DRAWINGS:

Data sheet: - H72362d dated 01/2013;

Drawings: - C13074 Rev. h dated 13.09.11; C13073 Rev. h dated 13.09.11; C13047 Rev. h dated 01.09.10;

- C11491 Rev. d dated 22.11.10; C14199 Rev. b dated 06.11.08; E00891 Rev. a dated 06.11.08;

- D23005 Rev. c dated 25.02.09.

### 3. TEST REPORTS:

**TRAFAG AG:** - V-09042 dated April 24, 2009; V-08125 dated Oct. 24, 2008.

**ENL Testing Laboratory:** - 20081211.A02.01 dated 2008.10.14.

### 4. APPLICATION/LIMITATION:

4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships.

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - Bureau Veritas Environmental Category, **EC Code: 33/43.**

4.4 - Bureau Veritas Rules Part C, Ch 1, Sec 10 apply for pressurized parts made of aluminium or aluminium alloys if they are used in piping systems for flammable liquids or fire-extinguishing systems.

### 5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above mentioned products are to be supplied by **TRAFAG AG** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

5.3 - **TRAFAG AG** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

**TRAFAG s.p.o.l.**  
**Villemovska 2129**  
**34701 Tachov**  
**CZECH REPUBLIC**

5.4 - Equipment is to be supplied with manual(s) for installation, use and maintenance.