

Certificate No:
A-13906
 File No:
895.10
 Job Id:
262.1-007289-3

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pressure Switch

with type designation(s)
Picostat 9B4

Issued to
Trafag AG
Bubikon, Switzerland

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application :

Location classes:

Temperature	D
Humidity	B
Vibration	B
EMC	Not relevant
Enclosure	B*

***IP 65 verified**

This Certificate is valid until **2018-12-31**.

Issued at **Høvik** on **2014-08-29**

DNV GL local station: **Augsburg**

Approval Engineer: **Nils Jarem**



for **DNV GL**
 Digitally Signed By: Sneen, Ståle
 Location: DNV GL Høvik, Norway
 Signing Date: 2014-08-29, on behalf of

Odd Magne Nesvåg
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. If any person suffers loss or damage which is proven to have been caused by any negligent act or omission of the Society, then the Society shall pay compensation to such person for his proven direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question. The maximum compensation shall never exceed USD 2 million. In this provision the "Society" shall mean DNV GL AS as well as all its direct and indirect owners, affiliates, subsidiaries, directors, officers, employees, agents and any other person or entity acting on behalf of DNV GL AS.

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Product description

Type Picostat PST4 pressure switch, including the following options:

	Type	Microswitch	Range	Sensor	Pressure Connection
Ordering No.	9B4	33	76, 77 78, 79 80	750 751 752	04
	9B4	42 84	74, 76, 77 78, 79 80, 81	769 770 771 772	04

Microswitch rating:

Type	Features	Rating: Resistive load (inductive load)	
		AC	DC
33	Silver Contacts	240 V / 6(2) A	220 V / 0.2(0.1) A 110 V / 0.4(0.25) A 48 V / 2(1) A 24 V / 6(3) A 12 V / 6(6) A
42	Silver Contacts	250 V / 6(1) A	220 V / 0.25(0.1) A 110 V / 0.5(0.25) A 60 V / 1(0.5) A 24 V / 3(2) A 12 V / 6(6) A
84	Gold Contacts	Max 30V 0.1 (0.1) A Min 5V 5mA	

Place of manufacture

Trafag spol s.r.o.
 CZ-34701 Tachov

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Type Approval documentation

Data sheets: H72362d, H72367g
 Initial survey report dated 2010-03-26
 ENL Testing Laboratory test report 20081211.A02.01 dated 2008-10-28
 Trafag test report V-08125 dated 2002-10-24
 Gerätestecker C283 assembly drawing no. E00891 rev.A, dated 2008-11-06
 Picostat assembly drawing no. D23005 rev.C, dated 2008-11-06
 Pico 4 NG10 (2...25 bar) assembly drawing no. C13047 rev. h
 Pico 4 NG15 (1...16 bar) assembly drawing no. C13073 rev. h
 Pico 4 NG22 (0...6 bar) assembly drawing no. C13074 rev. h
 Schalter 33 (9B4) assembly drawing no. C11491 rev. d
 Schalter 33 Pico4 assembly drawing no. C11492 rev. j
 9B4 family (bronze bellows), overview drawing no. C20784 Rev. k
 Mikroschalter IP67/IP00; CHerry DC1C-A1AA, Lötanschluss, drawing no. E01301 Rev. b
 Schalter 84, CHERRY DC3C-AGAT, drawing no. E01304 Rev. e
 Typetest Pressure Switch 9B4 (PST4B), V-11140 dated 20.06.2012.
 DNVGL Augsburg periodical assessment report for A-13290, dated 2014-07-30