



Marine & Offshore

Certificate number: 53814/B0 BV

File number: AP3330

Product code: 3891H

*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*

**IMI International s.r.o.**

Modrice - CZECH REPUBLIC

*for the type of product*

**PRESSURE TRANSMITTERS / TRANSDUCERS**

Pneumatic & Hydraulic Pressure Switches of Type: 18D

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 33

*This certificate is issued to attest that Bureau Veritas Marine & Offshore 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: 11 Aug 2028**

**For Bureau Veritas Marine & Offshore,**

At BV PRAGUE, on 11 Aug 2023,

Pavel Jr. Stepanek

***This certificate was created electronically and is valid without signature***



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 Marine & Offshore. 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 available on the internet site [www.veristar.com](http://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 Marine & Offshore 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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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

The **18D series** are pressure switches for usage in compressed air or fluid systems.

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

Process connection: G1/4  
 Output: 1x change over  
 Max switching capacity: 250V/ 0.1A (AC)  
   30V/ 0.1A (DC)  
 Degree of protection: IP 65

#### **1.2 - Pneumatic Pressure switches:**

Type	Pressure range	Switching pressure difference (Lower range)	Switching pressure difference (Upper range)	Max. over pressure
0880241	0.2 - 2bar	0.20bar	0.35bar	50bar
0880341	0.5 - 8bar	0.35bar	0.85bar	80bar
0880441	1 - 16bar	0.40bar	1.20bar	80bar
0880641	1 - 30bar	1.0bar	5.0bar	80bar

Material: Aluminum  
 Operation: Diaphragm

#### **1.3 - Hydraulic Pressure switches:**

Type	Pressure range	Switching pressure difference (Lower range)	Switching pressure difference (Upper range)	Max. over pressure
0882141	5 ... 70bar	10.5bar	15bar	600bar
0882241	10 ... 160bar	11bar	17bar	600bar
0882341	25 ... 250bar	13bar	21bar	600bar

Material: Aluminum or Steel  
 Operation: Piston type sensor with soft seal

### 2. DOCUMENTS AND DRAWINGS:

- en 5.11.008 dated 6/15; en 5.11.108 dated 6/15;
- 0523229000000 Rev. C dated 11.12.2006; 052365000000000 Rev. C dated 11.12.2006
- 0523264000000000 Rev. C dated 11.12.2006; 0523268000000000 Rev. C dated 11.12.2006
- 0680643000000000 Rev. E dated 02/02/2010

### 3. TEST REPORTS:

IMI NORGREN - HERION:  
 - Test report No. BV/DNV/GL/LR 2000-01 dated 28.03.2000

### 4. APPLICATION / LIMITATION:

- 4.1 - Bureau Veritas Rules 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.**
- 4.4 - BV-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 **IMI International s.r.o.** in accordance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **IMI International s.r.o.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **IMI International s.r.o.** has declared to Bureau Veritas the following production site:

**IMI International s.r.o.**

**Evropská 862**

**66442 Modrice**

**CZECH REPUBLIC**

**6. MARKING OF PRODUCT:**

- Maker's name or trademark
- Equipment type or model identification
- Date of manufacture and/or serial number

**7. OTHERS:**

7.1 - It is the responsibility of **IMI International s.r.o.** to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 53814/A0 BV issued on 30 Aug 2018 by the Society.

**\*\*\* END OF CERTIFICATE \*\*\***