



This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	Leafield Marine Limited				
Address	9 Atworth Business Park Bath Road Atworth SN12 8SB United Kingdom (UK)				
Product Type	A10B Pressure Relief Valve, Press A10B Non-return/Transfer Valve B10 Pressure Relief Valve, Pressu B10 Non-return/Transfer Valve, 1	, Pressure I re range 1 t	Range 0.25 to 4 psi o 4 psi		
Product Description	<b>Pressure Relief Valve covering th</b> Type: "B10PG-XXX" and non-plu Type: "A10BPG-XXX" and non-p <b>Non Return/Transfer Valve cove</b> Type:" B10PG-XXX", non-plug ty	g Type "B1 lug Type " <i>F</i> ring the pr	0ST-XXX" A10BST-XXX" essure range 0.25 t	:o 4 ps	
Specified Standards	IMO Resolution MSC.81 (70), Par ISO 15738:2002, ISO 9650-1:2005,				
The attached Design Appraisal Document forms part of this certificate. This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.					
Date of issue 18 Ma	arch 2019	Expiry da	te 17 March 2024		
Certificate No. SAS	S190060	Signed	horized and the Record		

Sheet No 1 of 3

Name

L. Thomas Surveyor to Lloyd's Register EMEA A Member of the Lloyd's Register Group

Note:

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid certificate.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



# Lloyd's Register EMEA (Southampton)

Marine & Offshore UK&I Lloyd's Register Global Technology Centre, Southampton Boldrewood Innovation Campus, Burgess Road, Southampton, SO16 7QF Telephone +44 330 414 1000 / E-mail tass@lr.org Page 2 of 3 Document number

SAS S190060

Issue number 1

## DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications	
16 July 2019	UKITSO/LSA/TA/LT/WP35180973	

### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S190060

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

This Certificate is a renewal of Certificate No SAS S140023

#### **EXAMINED DOCUMENTATION**

<u>Title:</u>	Reference:	<u>Rev.:</u>	Date:
B10 Valve Section Chart	0802003	3b	03/04/17
Instruction Sheet for the B10 Pressure Relief Valve	0901003	1c	18/07/18
A10B Valve Standard Type Selection Chart	1110002	1	24/11/11
A10B valve Low Profile Type Selection Chart	1110003	1	24/11/11
A10B Valve Plug Type Selection Chart	1110005	1	24/11/11
Instruction Sheet for Pressure Relief Valve A10B Standard	1208001	1	2012
Instruction Sheet for Pressure Relief Valve A10B Low Profile	1208002	2	2014

Test procedure for statutory approval of Pressure Relief Valve and Non-Return/Transfer Valve Assemblies, Type B10 Series, Report No M-07-TP-1B10 Rev. 02 dated November 2008.

Test procedure for statutory approval of Leafield Marine Ltd Type A10B-Series Pressure Relief Valves, Report No M-07-TP-1A10B Rev. 02 dated January 2012.

### TEST REPORTS

<u>Report No.:</u>	Date:
M-07-TR-1B10, Rev. 01	Dec./08
M-07-TR-1A10B, Rev. 0	1 02.02.2012
his certificate, this produc nended standards apply	t type is to be
a quality control system v	vhich shall be
	M-07-TR-1B10, Rev. 01 M-07-TR-1A10B, Rev. 01 his certificate, this produc hended standards apply



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- 3. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2 and each item, batch, or lot be delivered with an LR Certificate of SOLAS Production Testing issued by the attending LR Surveyors following their witness of the tests. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration
- 4. Should a change of Place of Production from that stated below be required i.e. where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained

<u>NOTE</u>: Valves suitable for inflatable liferafts for small crafts used for leisure activities are tested to ensure compliance with BS ISO 9650-1:2005, 9650-2:2005.

### PLACE OF PRODUCTION

Leafield Marine Limited. 9 Atworth Business Park Bath Road Atworth SN12 8SB United Kingdom (UK)

homas

Lijo Thomas Senior Specialist Fire & Safety, Statutory Discipline Team UK&I Technical Support Office, Marine & Offshore Lloyd's Register EMEA

## Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).