



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 governments to issue the relevant certificates, licences, permits etc.

Manufacturer	Leafield Marine Ltd
Address	9 Atworth Business Park Bath Road Atworth SN12 8SB United Kingdom (UK)
Product Type	A8 INFLATE/DEFLATE AND TRANSFER VALVE
Product Description	Inflation Valve – Type: "B89-080-01-A81" Inflation valve – Type: "B89-080-02-A8I" Inflation Valve – Type: "B89-080-03-A81" Inflation Valve – Type: "B89-080-04-A8I" Transfer Valve – Type: "B89-080-06-A8T" Transfer Valve – Type: "B89-080-07-A8T"
Specified Standards	IMO Resolution MSC.81 (70), Part 1 as amended ISO 15738:2002, ISO 9650-1:2005, ISO 9650-2:2005.

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	1 April 2019	Expiry date	31 March 2024		
Certificate No.	SAS S190069	Signed	home way ho man		
Sheet No	1 of 3	Name	L. Thomas		
			Surveyor to Llo	oyd's Register EMEA	
			A Member of the Lloyd's Register Gro		

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)

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### DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications	
18 July 2019	UKITSO/LSA/TA/LT/WP35182169	

### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S190069

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.

### **EXAMINED DOCUMENTATION**

Title	Reference	Rev	Date
Inflation Valve	B89-080-03-A8I	OH	16/07/19
Inflation Valve	B89-080-01-A8I	OG	16/07/19
Inflation Valve	B89-080-02-A8I	OF	16/07/19
Inflation Valve	B89-080-04-A8I	OG	16/07/19
Transfer Valve	B89-080-07-A8T	D	05/09/05
Transfer Valve	B89-080-06-A8T	С	14/08/07
Single Level Bill of Materials, A8 Transfer Valve	B8908006A8T		
Single Level Bill of Materials, A8 Transfer Valve, modified	B8908007A8T		
Single Level Bill of Materials, A8 Inflation Valve, Red Cap	B8908001A8I	OG	17/07/19
Single Level Bill of Materials, A8 Inflation Valve, modified	B8908003A8I	OH	17/07/19
Single Level Bill of Materials, A8 Inflation Valve, c/w Black Cap	B8908002A8I	OF	17/07/19
Single Level Bill of Materials, A8 Inflation Valve, modified c/w Black Cap	B8908004A8I	OG	17/07/19
Сар	B11215/ Series	02 C	16/07/19

Test Procedure for statutory approval of A8 Inflate/Deflate and Transfer valve Assemblies, M-07-TP-1A8 Rev 02, June 2008.

LDSS/PAS/1-25655071, use of acetol co-polymers which conform to the Leafield Marine Acetal co-polymer (POM) Material Specification ST00001, as alternative to the Hostaform C9021 and C9021LS.

### TEST REPORTS

Report Title	<u>Report No.</u>	Date
Test Report for statutory approval of A8 Inflate/Deflate and	M-07-TR-1A8,Rev 01	7/07/08
Transfer Valve Assemblies.		
Test Report for statutory approval of A8 Inflate/Deflate and	M-07-TR-2A8,Rev 01	29/01/09
Transfer Valve Assemblies.		

### **CONDITIONS OF CERTIFICATION**

- 1. If the specified standards are amended during the validity of this certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply
- 2. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure compliance with SOLAS Regulation III/5
- 3. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2, and Paragraph 1.2. 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 state0 or those acting in behalf of that Administration



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## DESIGN APPRAISAL DOCUMENT

Date 18 July 2019 Quote this reference on all future communications UKITSO/LSA/TA/LT/WP35182169

## ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S190069

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.

Note: This Certificate is the renewal of Certificate No SAS S140034.

## PLACE OF PRODUCTION

Leafield Marine Limited 9Atworth Business Park Bath Road Atworth SN12 8SB United Kingdom

reffice Chome

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).