



## Certificate of Type Approval

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.

<b>Manufacturer</b>	<b>Leaffield Marine Limited</b>
<b>Address</b>	9 Atworth Business Park, Bath Road, Atworth, Wiltshire, SN12 8SB United Kingdom (UK)
<b>Type</b>	NON-RETURN/TRANSFER AND PRESSURE VALVE
<b>Description</b>	Pressure Relief Valves, A10B/B10 Non Return/Transfer Valves, A10B/B10
<b>Trade Name</b>	"B10PG-XXX" and non-plug type "B10ST-XXX", "A10BPG-XXX" and non-plug type "A10BST-XXX"
<b>Specified Standard</b>	ISO 15738:2019 ISO 9650-1:2022

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

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.

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

**Lijo Thomas**

Fire & Safety - Senior Surveyor to Lloyd's Register EMEA  
A member of the Lloyd's Register group

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## DESIGN APPRAISAL DOCUMENT

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Certificate No: LR2433025SS  
Issue Date: 18/03/2024  
Expiry Date: 17/03/2029  
Reference: UKITSO/TA/LSA/LT/MB/TSO-23-004835/PRJ11100429413

### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2433025SS

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 and Amendment of Certificate Number SAS S190060

#### APPROVAL DOCUMENTATION

<u>Title</u>	<u>Drawing No</u>	<u>Rev</u>	<u>Date</u>
B10 Valve Section Chart	0802003	03b	03/04/2017
Instruction Sheet for the B10 Pressure Relief Valve	0901003	1c	18/07/2018
A10B Valve Standard Type Selection Chart	1110002	01	24/11/2011
A10B Valve Low Profile Type Selection Chart	1110003	01	24/11/2011
A10B Valve Plug Type Selection Chart	1110005	01	24/11/2011
Instruction Sheet for Pressure Relief Valve A10B Standard	1208001	01	2012
Instruction Sheet for Pressure Relief Valve A10B Low Profile	1208002	02	2014

Test Procedure for the Statutory Approval Testing of Type B10 Series Pressure Relief Valve and Non-Return/Transfer Valve Assemblies, M-07-TP-1B10 Rev. 02, dated November 2008.

Test Procedure for the Statutory Approval Testing of A10B-Series Pressure Relief Valve, Non-Return/Transfer Valve Assemblies, M-07-TP-1A10B Rev. 02, dated 11/01/2012.

Test Procedure for the Statutory Approval Testing of B10 Pressure Relief, Non-return and Transfer valves, M-07-TP-2B10 Rev. 01, dated 19/10/2023.

#### TEST REPORTS

<u>Report Title</u>	<u>Report No.</u>	<u>Date</u>
Report of Statutory Approval Testing Pressure Relief and Non Return/Transfer Valve Assemblies, Type B10 Series	M-07-TR-1B10 Rev 01	08-09/12/2008
Report of Statutory Approval Testing Type A10B-Series Pressure Relief Valves and B10 Diaphragm 18670	M-07-TR-1A10 Rev 01	02/02/2012
Report of Statutory Approval Testing B10 Pressure Relief, Non-Return & Transfer Valves, "B10PG-XXX", non-plug type "B10ST-XXX" & "A10BPG-XXX", non-plug type "A10BST-XXX"	M-07-TR-2B10 Rev 01	26/01/2024

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**CONDITIONS OF CERTIFICATION**

1. Working Pressure Range for Transfer & Non-Return valves – 0.29 to 4psi (nominal).
2. Working Pressure Range for Pressure Relief valves – 1 to 4psi (nominal).
3. 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.
4. 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.
5. Production items are to be manufactured in accordance with a quality control procedure and records kept as required by MSC.81(70) Part 2, Paragraph 1.2. Production tests are to be conducted to ensure compliance with SOLAS Chapter III Regulation 5. 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.
6. 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.

**NOTE:** Valves suitable for inflatable liferafts for small crafts used for leisure activities are tested to ensure compliance with ISO 15738:2019 and ISO 9650-1:2022.



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### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2433025SS

#### **PLACE OF PRODUCTION**

Leaffield Marine Limited  
9 Atworth Business Park  
Bath Road, Atworth  
Wiltshire, SN12 8SB  
United Kingdom (UK)

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)*

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