

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.

Manufacturer	Leaffield Marine Limited
Address	Unit 2, Atworth Business Park, Bath Road, Atworth, Wiltshire, SN12 8SB, United Kingdom (UK)
Type	A3 PRESSURE RELIEF VALVE & A3 TOPPING-UP VALVE
Description	Pressure Relief Valve covering the pressure relief range 1 to 4 psi – Type: "D89-030-xxx-A3P" Topping Up Valve covering the pressure range 1 to 4 psi – Type: "D89-031-xxx-A3T"
Trade Name	D89-030-xxx-A3P & D89-031-xxx-A3T
Specified Standard	IMO Resolution MSC.81 (70), Part 1 as amended ISO 15738: 2019 and ISO 9650: 2005

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

Senior Surveyor to Lloyd's Register EMEA
A member of the Lloyd's Register group

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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2003242SS

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.

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This is renewal of certificate No : SAS S150059.

EXAMINED DOCUMENTATION

<u>Title</u>	<u>Reference</u>	<u>Rev</u>	<u>Date</u>
Pressure sensitive relief valve	D89-030-series-A3P	D	05/01/00
Sensitive relief topping up valve	D89-031-series-A3T	D	05/01/00
A3 Valve Family	PD-D10184	01J	27/08/13
Instruction sheet	I.S.805	A	18/07/87

Test Procedure for statutory approval of Pressure Relief and Topping-Up Valve; Type A3, Report No: M-07-TP-1A3, Rev 02, November 2008.

TEST REPORTS

<u>Report Title</u>	<u>Report No.</u>	<u>Date</u>
Test Report for statutory approval of A3 pressure sensitive relief and sensitive relief topping up valve assemblies, Type A3	M-07-TR-A3, Rev 01	Jan/09
Salt Spray testing carried out in accordance to ISO 9227:2017 for a period of 168 h at 35 °C ± 2 °C.	18857	17 /Jan/2020

CONDITIONS OF CERTIFICATION

1. The final determination of suitability of the valves shall be made on the basis of testing the end product in which the system is to be used in accordance with IMO Resolution MSC.81 (70). The suitability of any component covered by this certificate is generally dependent upon its relationship to the size, number and arrangement of the other components of the system in the end product.
2. 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.
3. 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.
4. 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.

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5. 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 BS ISO 9650-1:2005, 9650 -2:2005

PLACE OF PRODUCTION

Leafield Marine Ltd
Unit 2, Atworth Business Park
Atworth
Wiltshire
SN12 8SB
United Kingdom



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).