

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	Munster Simms Engineering Limited
Address	Old Belfast Road Bangor C. Down Northern Ireland BT19 1LT United Kingdom (UK)
Product Type	LIFEBOAT MANUAL PUMPS
Product Description	Whale/Henderson MK V Universal
Specified Standards	MS (LSA) Regulations 1999 Nos. 2721 & 2723, also 2000 Nos. 2558 & 2642. Merchant Shipping Notice MSN 1676 (M) Merchant Shipping Notice MSN 1677 (M) SOLAS 74 Chapter III, 1996 amendments, Regulations 4 & 34 together with LSA Code Regulations I/1.2 and IV/4.4.8.25.

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	22 July 2008	Expiry date	21 July 2013
Certificate No.	SAS S080082	Signed	
Sheet No	1 of 3	Name	P. Galbraith 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, 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 Group'. The Lloyd's Register Group 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 Group 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.

DESIGN APPRAISAL DOCUMENT

Date 23 July 2008	Quote this reference on all future communications LDSS/PAS/LSA/LT/PG
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S080082

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Munster Simms Engineering Ltd. Drawings

<u>Plan No.</u>	<u>Title</u>	<u>Date</u>
404GA U/D 01	General Arrangement Mk V Universal Pump Exploded view parts sketches	
404GA D/ A 02	General Arrangement Double acting Mk V Pump	22/07/08

TEST REPORTS

Lloyd's Register Report Number BEL 9600374/1 dated 12 February 1997.

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 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.

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PLACE OF PRODUCTION

Munster Simms Engineering Ltd.
Old Belfast Road
Bangor
C. Down
Northern Ireland BT19 1LT
United Kingdom (UK)

  Lloyd's Register EMEA
London Office

P. Galbraith
Surveyor
Product Approval Services
London Design Support Services
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).