



Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No. 04/00023(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Halyard (M & I) Ltd
PLACE OF PRODUCTION	6 & 7 Westfield Industrial Estate Horndean Hants, PO8 9JX United Kingdom (UK)
DESCRIPTION	Silicone based marine diesel exhaust hoses, bellows and shapes
TYPE	Product Specifications 145, 149, 278, 279 and 332
APPLICATION	Diesel exhaust gas systems
SPECIFIED STANDARDS	SAE J2006 R1 and R3; Halyard product specification nos. 145, 146, 278, 279 and 332

Certificate No.	04/00023(E2)
Issue Date	26 February 2014
Expiry Date	15 March 2019
Sheet	1 of 2

P. F. Moysey
Marine Technology & Engineering Services, London
Lloyd's Register EMEA

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RATINGS

Product Specifications 145 & 149:

Hose Diameter (mm):		25 to 705
Working pressure (bar):	<152mm:	2
	>152mm:	1
Max continuous operating temp. (°C):		180

Product Specifications 278 & 279:

Hose Diameter (mm):		25 to 705
Working pressure (bar):	<152mm:	2
	>152mm:	1
Max continuous operating temp. (°C):		260

Product Specification 332:

Hose Diameter (mm):		25 to 254
Working pressure (bar):		1
Max continuous operating temp. (°C):		180

OTHER CONDITIONS

Exhaust components are to be selected and installed in accordance with the manufacturer's instructions and recommendations, and Lloyd's Register's Rules and Regulations for the Classification of Special Service Craft.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied 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 No. 04/00023(E2) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 04/00023(E1) to which this extension should be attached.

Certificate No.	04/00023(E2)
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