

Type Approval Certificate

This is to certify that the undernoted product has been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.

This certificate is issued to:

PRODUCER	RYCO Hydraulics
PLACE OF PRODUCTION	RYCO Hydraulics Pty. Ltd. 19 Whitehall Street, Footscray, Victoria 3011 Australia RYCO Hydraulics Sdn. Bhd. Plot 207, Kuala Ketil Industrial Estate, 09300 Kuala Ketil, Kedah Darulaman, Malaysia RYCO Hydraulics (Dalian) Ltd. 38 Ying Ri Road, Ying Cheng Zi Industrial Zone, Gan Jing Zi District, Dalian 116036 China
DESCRIPTION	Flexible Hoses of Non-Metallic Material with Permanently Fitted Couplings Designations: TEFLON RTH1
TYPE	TEFLON Hose
APPLICATION	For use on ships and offshore installations classed with Lloyd's Register, as short lengths in systems of hydraulic oil
DESIGN CODE STANDARD	Part 5, Chapter 12 of Lloyd's Register's Rules and Regulations for the Classification of Ships (July, 2013) Part 5, Chapter 10 of Lloyd's Register's Rules and Regulations for the Classification of Mobile Offshore Units (September 1996 plus Notices Nos. 1, 2, 3, 4, 5 & 6 as applicable) Fire Resistant Testing according to ISO 15540/15541
RATINGS	Sizes: DN 6 to DN 25 Maximum Working Pressure: 55 to 170 bar (see below) Service Temperature: -60°C to +100°C (see below) Coupling Material: Carbon Steel AISI/SAE 12L14 (Standard), Stainless Steel (Option) Electroplated Fe/Zn12c acc. to AS1789
Certificate No.	13/10073
Issue Date	01 October 2013
Expiry Date	30 September 2018
Sheet	1 of 2



N. Nagamune
Yokohama Technical Support Office
Lloyd's Register Group Limited

Lloyd's Register Group Limited, registered office:
71 Fenchurch Street, London EC3M 4BS

OTHER CONDITIONS

The hoses may be used for the following working conditions

TEFLON RTH1	DN (mm)	Max. Pressure (bar)
RTH14	6	170
RTH16	10	165
RTH18	12	120
RTH110	16	105
RTH112	19	85
RTH116	25	55
Temperature Range: -60°C to +100°C		

(NOTE) Maximum working pressure is dependant on working temperature. Details are to be in accordance with the producer's instruction.

Where synthetic rubber hoses are used for oil fuel supply to burners, the hoses are to have external wire braid protection in addition to the integral wire braid.

Carbon steel couplings are to be normalised for temperatures below -10°C.

In all cases the hoses are to be installed in accordance with the manufacturer's instructions and tested to the satisfaction of the attending surveyor.

"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 of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 13/10073 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No. 13/10073
 Issue Date 01 October 2013
 Expiry Date 30 September 2018
 Sheet 2 of 2

N. Nagamune
 Yokohama Technical Support Office
 Lloyd's Register Group Limited

Lloyd's Register Group Limited, registered office:
 71 Fenchurch Street, London EC3M 4BS

"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 '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."