

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: Biotrans BT1
TYPE	Biotrans Hose
APPLICATION	For use on ships and offshore installations classed with Lloyd's Register, as short lengths in systems of water, hydraulic oil, compressed air, fuel and lubricating 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: 50 bar Service Temperature: -40°C to +135°C (see below) Coupling Material: Carbon Steel AISI/SAE 12L14 (Standard), Stainless Steel (Option) Electroplated Fe/Zn12c acc. to AS1789
Certificate No.	13/10070
Issue Date	01 October 2013
Expiry Date	30 September 2018
Sheet	1 of 2


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