



Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No.13/10071(E1) for the undernoted product(s) has/have been extended and renumbered in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER RYCO Hydraulics.

PLACE OF PRODUCTION RYCO Hydraulics Pty. Ltd.
99 Calarco Drive, Derrimut, Victoria, 3026 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: Driller D2B

TYPE Driller Hose

APPLICATION For use on ships and offshore installations classed with Lloyd's Register, as short lengths in systems of hydraulic oil and air.

STANDARD Part 5, Chapter 12 of Lloyd's Register's Rules and Regulations for the Classification of Ships (July, 2013)

Certificate No. Part 5, Chapter 10 of Lloyd's Register's Rules and Regulations for the
13/10071 (E2)

Issue Date 27 December 2018

Expiry Date 26 December 2023

Sheet 1 of 3



Chng Teck Wee
South Asia Technical Support Office
Lloyd's Register Singapore Pte. Ltd.

*Lloyd's Register Asia
2 Science Park Drive, #02-05/06 Ascent, Singapore 118222*

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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 38 to DN 51

Maximum Working Pressure: 90 to 140 bar (see below)

Service Temperature: -40°C to +135°C (see below)

Coupling Material: Carbon Steel AISI
Stainless Steel (Option)

Electroplated Fe/Zn12c acc. to AS1789

OTHER CONDITIONS

The hoses may be used for the following working conditions

DRILLER D2B	DN (mm)	Max. Pressure (bar)
D220B	31	140
D224B	38	100
D232B	51	90
Temperature Range:		
Air	-40°C to +121°C	
Oil	-40°C to +135°C	

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.

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Sheet 2 of 3



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

The Design Appraisal Document No. 13/10071(E2) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as in the previous **Certificate No. 13/10071(E1)** to which this extension should be attached.

Certificate No.	13/10071 (E2)
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Sheet	3 of 3



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