

Type Approval Certificate Extension

This is to certify that Certificate No. 03/00098 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER

RYCO Hydraulics

PLACE OF PRODUCTION

19 Whitehall Street, Footscray,

Victoria 3011 Australia

DESCRIPTION

Flexible Hoses of Non-Metallic Material with Permanently Fitted

Couplings.

Designations: Avenger H12A, Diehard H12D, Slider H12S

TYPE

SAE 100R12

APPLICATION

For use on ships and offshore installations classed with Lloyd's Register, as short lengths in systems of fresh and seawater, water

based hydraulics, pneumatics, fuel and lube oil.

DESIGN CODE STANDARD Part 5, Chapter 12 of Lloyd's Register's Rules and Regulations for the

Classification of Ships (July, 2008)

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 10 to DN 51

Maximum Working Pressure: 210 to 350 bar (see below) Service Temperature: -40°C to +121°C (see below) Coupling Material: Carbon Steel AISI/SAE 12L14,

Electroplated Fe/Zn12c acc. to AS1789

Certificate No.

08/10092 (E1)

Issue Date

1 October 2008

Expiry Date

30 September 2013

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N. Nagamune Yokohama Design Support Office Lloyd's Register

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

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