



Lloyd's  
Register

## Type Approval Certificate Extension

*This is to certify* that Certificate No. 00/00122(E3) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

|                             |   |  |
|-----------------------------|---|--|
| <b>PRODUCER</b>             | Manuli Hydraulics Manufacturing Sp. z o.o.<br>ul. Przedsiębiorców 5<br>97-500 Radomsko<br>Poland                          |  |
| <b>PLACES OF PRODUCTION</b> | Manuli Hydraulics Manufacturing Sp. z o.o.<br>ul. Przedsiębiorców 5<br>97-500 Radomsko<br>Poland                          | Manuli Hydraulics (Suzhou) Co., Ltd.<br>85 Xinglin Street<br>Suzhou Industrial Park<br>215027 Jiangsu Province<br>People's Republic of China |
|                             | Manuli Hydraulics Manufacturing<br>Bel<br>Lokomotivnaya street 2<br>211390 Orsha<br>Vitebsk Region<br>Republic of Belarus |  |
| <b>DESCRIPTION</b>          | Fire safe flexible hose of non-metallic material with permanently fitted couplings  |  |
| <b>TYPE</b>                 | HARVESTER/17  |  |
| <b>APPLICATION</b>          | Flexible hose for medium pressure hydraulic systems using biological and mineral oils, glycols and aqueous emulsion oils  |  |
| <b>SPECIFIED STANDARDS</b>  | Lloyd's Register Rules and Regulations for the Classification of Ships;<br>SAE 100 R17; ISO 11237 R17                     |  |
| <b>Certificate No.</b>      | 00/00122(E4)  |  |
| <b>Issue Date</b>           | 27 November 2015  |  |
| <b>Expiry Date</b>          | 9 October 2020  |  |
| <b>Sheet</b>                | 1 of 2  |  |

MTES Southampton Office

Lloyd's Register EMEA

LR031.1.2013.12



*P. Stanney*

P.A. Stanney  
Marine Technology & Engineering Services, Southampton  
Lloyd's Register EMEA

Lloyd's Register EMEA

Southampton Boldrewood Innovation Campus, Burgess Road, Southampton, SO16 7QF

Lloyd's Register EMEA  
Is a subsidiary of Lloyd's Register Group

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 the '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.



Manuli Hydraulics Hose Data Sheet

**RATINGS**

Nominal diameter (DN): 6, 8, 10, 12 mm  
Max. working pressure (bar): 210

**OTHER CONDITIONS**

For use on ships Classed, or intended to be Classed by Lloyd's Register, the hoses must also:

1. have their locations shown on plans, which must be submitted for approval.
2. be installed 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 EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The attached Design Appraisal Document No. 00/00122(E4) and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

All other details remain as the previous Certificate No. 00/00122(E3) to which this extension should be attached.

**Certificate No.** 00/00122(E4)  
**Issue Date** 27 November 2015  
**Expiry Date** 9 October 2020  
**Sheet** 2 of 2

MTES Southampton Office

Lloyd's Register EMEA

LR031.1.2013.12



*P. Stanney*

P.A. Stanney  
Marine Technology & Engineering Services, Southampton  
Lloyd's Register EMEA

Lloyd's Register EMEA  
Southampton Boldrewood Innovation Campus, Burgess Road, Southampton, SO16 7QF

Lloyd's Register EMEA  
Is a subsidiary of Lloyd's Register Group