



Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No. 00/00121(E6) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Manuli Hydraulics Manufacturing Sp. z o.o. ul. Przedsiębiorców 5 97-500 Radomsko Poland	
PLACES OF PRODUCTION	Manuli Hydraulics Manufacturing Sp. z o.o. ul. Przedsiębiorców 5 97-500 Radomsko Poland	Manuli Rubber Industries SpA Zona Industriale Campolungo 63100 Ascoli Piceno Italy
	Manuli Hydraulics Manufacturing Bel Lokomotivnaya street 2 211390 Orsha Vitebsk Region Republic of Belarus	
DESCRIPTION	Fire safe flexible hose of non-metallic material with permanently fitted couplings	
TYPE	DESCRIPTION Fire safe flexible hose of non-metallic material with permanently fitted couplings	
TYPE	TRACTOR/1SC; TRACTOR/1SN; TRACTOR/2SC; TRACTOR/2SN	
Certificate No.	00/00121(E7)	
Issue Date	27 November 2015	
Expiry Date	9 October 2020	
Sheet	1 of 2	



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

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APPLICATION Flexible hoses for hydraulic systems using biological and mineral oils, glycols and aqueous emulsion oils

SPECIFIED STANDARDS Lloyd's Register's Rules and Regulations for the Classification of Ships;
TRACTOR/1SC: EN 857 1SC; ISO 11237 1SC
TRACTOR/1SN: EN 853 1SN; SAE 100 R1AT; ISO 1436 1SN/R1AT
TRACTOR/2SC: EN 857 2SC; ISO 11237 2SC; SAE 100 R16
TRACTOR/2SN: EN 853 2SN; SAE 100 R2AT; ISO 1436 2SN/R2AT
Manuli Hydraulics, Hose data sheets.

RATINGS Nominal diameter (DN): 5 to 76 mm
Max. working pressure (bar): 415 to 35
See manufacturer's data sheets for individual ratings.


- OTHER CONDITIONS**
1. Not all types and size of hose are approved for manufacture in all manufacturing plants. For details of hoses approved for manufacture in individual plants see Design Appraisal Document 00/00121(E7)
 3. For use on ships Classed, or intended to be Classed by Lloyd's Register, the hoses must also:
 - 3.1 Have their locations shown on plans, which must be submitted for approval.
 - 3.2 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. 00/00121(E7) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 00/00121(E6) to which this extension should be attached.

Certificate No. 00/00121(E7)
Issue Date 27 November 2015
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Sheet 2 of 2



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LR031.1.2013.12

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