



Lloyd's  
Register

## Type Approval Certificate Extension

This is to certify that Certificate No. 11/ 00039(E2) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	ZEC SpA
<b>PLACE OF PRODUCTION</b>	Via Lungolorno 11 43052 Colorno (PR) Italy
<b>DESCRIPTION</b>	Thermoplastic hose consisting of an inner core of thermoplastic polymer, polyester fibre reinforcement and a polyurethane outer cover, with end fittings.
<b>TYPE</b>	OL7 series
<b>APPLICATION</b>	As short joining lengths of flexible hose to accommodate relative movements between permanent pipes in CO <sub>2</sub> fire fighting systems; As short joining lengths of flexible hose to accommodate relative movements between permanent pipes in hydraulic oil systems, in locations where a source of ignition is not present.
<b>SPECIFIED STANDARDS</b>	Lloyd's Register's Rules and Regulations for the Classification of Ships; SAE J517:2010

<b>Certificate No.</b>	11/ 00039(E3)
<b>Issue Date</b>	18 October 2016
<b>Expiry Date</b>	7 August 2021
<b>Sheet</b>	1 of 2



M.H.M.Rila  
Southampton Technical Support Office  
Marine & Offshore Lloyd's Register

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register, 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 Group'. The Lloyd's Register Group 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 Group 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.

This is a copy of an electronic document. In the event of any conflict or ambiguity between the copy and the electronic document, which is retained and published by Lloyd's Register, the original electronic and certified version shall always prevail.



Lloyd's  
Register

**RATINGS**

**CO<sub>2</sub> systems:**

Hose type:	Internal diameter (inch):	Max. working pressure (bar):
OL7271**/ OL7201**	3/ 16	210
OL7371**/ OL7301**	1/ 4	200
OL7471**/ OL7401**	5/ 16	190
OL7571**/ OL7501**	3/ 8	175
OL7671**/ OL7601**	1/ 2	140
OL7771**/ OL7701**	5/ 8	105

**Hydraulic oil systems:**

Hose type:	Internal diameter (inch):	Max. working pressure (bar):
OL7270**/ OL7200**	3/ 16	210
OL7370**/ OL7300**	1/ 4	200
OL7470**/ OL7400**	5/ 16	190
OL7570**/ OL7500**	3/ 8	175
OL7670**/ OL7601**	1/ 2	140
OL7770**/ OL7701**	5/ 8	105
OL7870**/ OL7801**	3/ 4	90
OL7970**/ OL7901**	1	70

Note: The last two digits of the hose type denote the colour of the outer cover.

**OTHER CONDITIONS**

Use of the hydraulic hoses in marine applications is limited to those locations where a fire safe hose is not required.

*"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. 11/00039(E3) and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

<b>Certificate No.</b>	11/ 00039(E3)
<b>Issue Date</b>	18 October 2016
<b>Expiry Date</b>	7 August 2021
<b>Sheet</b>	2 of 2



M.H.M.Rila  
Southampton Technical Support Office  
Marine & Offshore Lloyd's Register

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register, 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 Group'. The Lloyd's Register Group 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 Group 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.

**This is a copy of an electronic document. In the event of any conflict or ambiguity between the copy and the electronic document, which is retained and published by Lloyd's Register, the original electronic and certified version shall always prevail.**