DNV·GL

Certificate No:
MEDB00002S0

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Materials other than steel for pipes conveying oil or fuel oil: flexible pipe assemblies

with type designation(s)
GOLDENISO /21 XTRAFLEX , GOLDENISO /28 XTRAFLEX, GOLDENISO /35 XTRAFLEX, GOLDENISO /42 XTRAFLEX

Issued to
Manuli Hydraulics (Suzhou) Co., Ltd.
Suzhou Jiangsu, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
item No. MED/3.15c. SOLAS 74 as amended, Regulation II-2/4 & X/3 and 2000 HSC Code 7 & 10 and IMO MSC/Circ.1120

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-12-05**.

Issued at **Hamburg** on **2017-12-06**

DNV GL local station:
Shanghai CMC

Approval Engineer:
Hagen Markus

Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudszus
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

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Product description

The GOLDENISO/21, 28, 35 and 42 XTRAFLEX hose assemblies series consist of :

Hose design

Inner tube of oil-resistant synthetic rubber, multiple spiral wires wrapped in alternating directions and weather, abrasion and heat resistant synthetic rubber cover. For design details refer to appropriate product data sheets.

Hose end fittings

Hose type	Hose end fitting[1]
21 XTRAFLEX	MF+M00920-20
	IP+M01500-24, -32
28 XTRAFLEX	MF+M00910-06, -08, -10 MF+M00920-12, -16, -20
	IP+M01500-24, -32
35 XTRAFLEX	MF+M00910-06, -08, -10 MF+M00920-12
	IP+M01500-16, -20
	IP+M01600-24
	IP+M01800-32
42 XTRAFLEX	MF+M00910-06, -08
	IP+M01500-10, -12, -16
	IP+M01600-20, -24

Note

[1] Made of carbon or stainless steel.

Maximum Allowable Working Pressure (M.A.W.P.) and Sizes

Size range			M.A.W.P. bar			
			Hose type XTRAFLEX			
DN	Dash	inch	21	28	35	42
10	- 6	3/8″	--	280	350	420
12	- 8	½″	--			
16	- 10	5/8″	--			
19	- 12	¾″	--			
25	- 16	1″	--			
31	- 20	11/4″	210			
38	- 24	11/2″	210			
51	- 32	2″	210			

Application/Limitation

Piping systems conveying oil or fuel oil.

Type Examination documentation

Tests carried out

Fire resistance test acc. to EN ISO 15540:2016, EN ISO 15541:2016.

Marking of product

For traceability to this certificate each hose assembly is to be marked at least with:
- Manufacturer's name or trade mark
- Type designation
- M.A.W.P.
- Size
- Mark of Conformity according to Article 10 of the Council Directive (MED)

END OF CERTIFICATE