DNV·GL

Certificate No:
MEDB0000707

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

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

with type designation(s)
INTERPUMP HIPAC 2SC

Issued to
I.M.M. Hydraulics S.p.A.
Atessa, CH, Italy

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2020/1170,**
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 **2025-09-06**.
Issued at **Høvik** on **2020-09-07**

DNV GL local station:
Italy/Malta CMC

Approval Engineer:
Sinisa Sedlan

Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body

NORWEGIAN ACCREDITATION PROD 019

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 AS 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

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Job Id: **344.1-010935-1**
Certificate No: **MEDB0000707**

Product description

Flexible hose assemblies with the following construction:
Tube: Oil resistant synthetic rubber
Outer cover: Anti abrasive synthetic rubber, oil and ozone resistant.
Reinforcement: Two high tensile steel wire braids.

Couplings: Two pieces:
Ferrule Code 2SC:001C and related carbon steel inserts as per IMM Catalogue - Carbon Steel (11SMnPb37/C4C)
Ferrule Code 2SC:X001C and related stainless steel inserts as per IMM Catalogue - AISI 316L
One piece:
G Series - Carbon Steel (11SMnPb37/C4C)

Hoses and Couplings are manufactured by: I.M.M. Hydraulics S.p.A.

Application/Limitation

Hose assemblies covered by this certificate are tested according to:
1) NS-EN ISO 15540: Fire resistance of hose assemblies- Test methods
2) NS-EN ISO 15541: Fire resistance of hose assemblies - Requirements for the test bench

Size			INTERPUMP HIPAC 2SC - product code THE002K		
			Part Number	Maximum working pressure	
Inch	DN	DASH		psi	bar
1/4"	6	4	THE002K-04	6235	430
5/16"	8	5	THE002K-05	5800	400
3/8"	10	6	THE002K-06	5075	350
1/2"	12	8	THE002K-08	4495	310
5/8"	16	10	THE002K-10	4060	280
3/4"	19	12	THE002K-12	3480	240
1"	25	16	THE002K-16	3045	210
1 1/4"	31	20	THE002K-20	2320	160
1 1/2"	38	24	THE002K-24	2175	150
2"	51	32	THE002K-32	1450	100
2 1/2"	64	40	THE002K-40	1160	80
3"	76	48	THE002K-48	943	65

Hose assemblies covered by this certificate are suitable for:
- Petroleum based fluids (Mineral oils) and Biological Oils (-40°C to +120°C)
- Water Based Fluids and compressed air (-40°C to +70°C)
- Water (0°C to +70°C)

Type Examination documentation

Tests carried out

Fire testing according to ISO 15540 and ISO 15541

Marking of product

As a minimum, the final products (hoses with couplings) are to be marked with:

- Manufacturers name or trademark
- Manufacturer's address
- Specification or hose name
- Hose size (inside diameter in inches)
- Data code (quarterly and daily production code)