DNV·GL

Certificate No:
MEDB00004ZY

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

with type designation(s)
HIPAC 2SC MSHA Cover (Code THEM02K)

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) 2018/773,**
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 **2024-02-12**.

Issued at **Høvik** on **2019-02-13**

DNV GL local station:
Milan

Approval Engineer:
Adel Samiei

Notified Body
No.: **0575**

for **DNV GL AS**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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Product description

One type of hose assembly (Code:THEM02K) with oil resistant synthetic rubber tube, reinforced with high tensile steel wire braid, and cover made of Oil, abrasion and weather resistant synthetic rubber, MSHA
Hose manufacturer: IMM Hydraulics, Atessa (CH), Ascoli Satriano (FG), Italy

Hose Size			HIPAC 2SC
DASH	DN	inch	Ferrule
-04 to -32	6 to 51	¼" to 2"	001C / G series
-40 & -48	63 & 76	2 ½" & 3"	001C

Couplings Material: Two pieces (Ferrule 001C, X001C with related standard tail fittings): Carbon Steel (11SMnPb37/C4C) or Stainless Steel (AISI 316L);
One Piece (G Series): Carbon Steel (11SMnPb37/C4C)
Coupling manufacturer: I.M.M. Hydraulics S.p.A.Atessa(CH) , ASCOLI SATRIANO (FG)

Application/Limitation

Hose assemblies covered by this certificate are tested according to:

1) EN ISO 15540: Fire resistance of hose assemblies- Test methods
2) EN ISO 15541: Fire resistance of hose assemblies - Requirements for the test bench

Hose assemblies are suitable for use with petroleum base hydraulic fluids and water base hydraulic fluids.

Maximum working pressure (in bar):

Hose Size			HIPAC 2SC (THEM02K)
DASH	DN	inch	
-04	6	¼"	430
-05	8	5/16"	400
-06	10	3/8"	350
-08	12	½"	310
-10	16	5/8"	280
-12	19	¾"	240
-16	25	1"	210
-20	31	1 ¼"	160
-24	38	1 ½"	150
-32	51	2"	100
-40	63	2 ½"	80
-48	76	3"	65

Type Examination documentation

Tests carried out

Fire tests carried out according to ISO 15540/15541

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;
- Date code (quarterly and daily production code).