MED B

Quality system certification

Fire testing according to ISO 15540 / ISO 15541

intertraco

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00005AW
Revision No:
1

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 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)
FlexIT 1T, FlexIT 2T, FlexIT SK117, FlexIT SC117, FlexIT SK216, FlexIT SC216, FlexIT SHP, FlexIT H4, FlexIT 5000, FlexIT 6000

issued to
Intertraco (Italia) S.p.A.
Suzzara MN, **Italy**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2024/1975,**
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 **2029-10-27**.

Issued at **Høvik** on **2024-10-28**

DNV local unit:
Italy/Malta CMC

Approval Engineer:
Per Ola Nymoen

Notified Body
No.: **0575**

for **DNV AS**

Mydlak-Röder, Christine
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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees (“DNV”) 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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Product description

Nine types of hose assemblies with synthetic rubber inner tube, reinforced by steel wires spirals or braids and synthetic rubber cover.

Coupling designations:

Hose size			1T		2T		SK117		SC117	
inch	DN	Dash	One Piece	Two Pieces	One Piece	Two Pieces	One Piece	Two Pieces	One Piece	Two Pieces
¼	6	-4	K	B+SN03T B+SCX0T	K	B+SN03T B+S0420	K	B+SCX0T	K	B+SCX0T
5/16	8	-5								
3/8	10	-6	K&J		K&J					
½	12	-8								
5/8	16	-10								
¾	19	-12								
1	25	-16								
1 ¼	31	-20	J	B+SN03T	J		-	B+SN03T		B+SN03T
1 ½	38	-24					-	-		
2	51	-32					-	-	-	-

Hose size			SK216		SC216	
inch	DN	Dash	One Piece	Two Pieces	One Piece	Two Pieces
¼	6	-4	K	B+SN03T B+SCX0T	K	B+SN03T B+SCX0T
5/16	8	-5				
3/8	10	-6	K&J		K&J	
½	12	-8				
5/8	16	-10				
¾	19	-12				
1	25	-16				
1 ¼	31	-20	J	B+SN03T	-	-
1 ½	38	-24	-	-	-	-
2	51	-32	-	-	-	-
2 ½	63	-40	-	-	J	B+SN03T
3	76	-48	-	-		

Hose size			FlexIT SHP		FlexIT H4		FlexIT 5000		FlexIT 6000	
inch	DN	Dash	One piece	Two pieces	One piece	Two pieces	One piece	Two pieces	One piece	Two pieces
3/8	10	-6	J series	B+S312T & B+S0420T	-	-	-	-	-	-
½	12	-8			-	-	-	-	-	-
5/8	16	-10			-	B+S0420	-	-	-	-
¾	19	-12			J & X series	B+S0420 & I+S004I	J series	I+S004I	J & X series	I+S004I
1	25	-16								
1 ¼	31	-20	-	-			J & X series	I+S004I	H & X series	I+S006I
1 ½	38	-24	-	-						
2	51	-32	-	-			H & X series & HLZ	I+S006I	X series & HLZ	
2 ½	63	-40	-	-	-	-	-		-	-
3	76	-48	-	-	-	-	-	I+S008I	-	-

Coupling Material: 11SMnPb30 EN 10277-3, 11SMnPb37 EN 10277-3, 36SMnPb14 EN 10277-3, C45 EN 10277-2, S355J2 EN 10277-2, X2CrNiMo 17-12-2 EN 10088-3 (AISI 316)

Couplings Manufacturer: INTERTRACO ITALIA SPA, Suzzara MN, Italy

Application/Limitation

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Hose assemblies covered by this certificate are tested according to:

1) EN ISO 15540:2016 - Fire resistance of hose assemblies- Test methods
2) EN ISO 15541:2016 - Fire resistance of hose assemblies - Requirements for the test bench

The hose assemblies covered by this certificate are approved to be used in oil or fuel oil systems.

Maximum working pressure

Hose size			1T	2T	SK117	SC117	SK216	SC216	FlexIT SHP	FlexIT H4	FlexIT 5000	FlexIT 6000
inch	DN	Dash										
¼	6	-4	225	400	290	225	450	400	-	-	-	-
5/16	8	-5	215	350	250	215	420	350	-	-	-	-
3/8	10	-6	180	330	230	210	385	350	450	-	-	-
½	12	-8	160	275	210	210	350	280	420	-	-	-
5/8	16	-10	130	250	140	140	290	250	350	450	-	-
¾	19	-12	105	215	105	105	280	250	350	420	380	420
1	25	-16	88	165	88	88	230	165	320	380	350	420
1 ¼	31	-20	63	125	100	70	175	-	-	350	350	420
1 ½	38	-24	50	90	-	52	-	-	-	300	350	420
2	51	-32	40	80	-	-	-	-	-	250	350	420
2 ½	63	-40	-	-	-	-	-	70	-	-	350	-
3	76	-48	-	-	-	-	-	70	-	-	350	-

Type Examination documentation

Tests carried out

Fire testing according to ISO 15540 and ISO 15541

Marking of product

As a minimum, the final product shall be marked with the following particulars:

- Manufacturer's name or trademark
- Specification or hose name
- Hose size and type designation
- Date of manufacture
- Mark of conformity according to Article 10 of the Council Directive 2014/90/EU

Mark of Conformity may only be affixed to the product when the corresponding certification related to production-control phase module (D, E, or F) is valid.

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EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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MEDB00005AX
Revision No:
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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)
R1K, R2K, 4ST, 4ST+, 6ST, HST

issued to
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Suzzara MN, Italy

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Product description

Six types of hose assemblies with synthetic rubber inner tube, reinforced by steel wires braids (one or two) or spirals (four or six) and synthetic rubber cover

Coupling designations:

Hose size			R1K		R2K		4ST+	
inch	DN	Dash	One piece	Two pieces	One piece	Two pieces	One Piece	Two Pieces
¼	6	-04	K series	B+SCX0T	K series	B+SN03T	-	-
5/16	8	-05	-	-	K series	B+SN03T	-	-
3/8	10	-06	K series	B+SCX0T	K & J series	B+SN03T	J Series	B+S312T B+S0420
½	12	-08	K series	B+SCX0T	K & J series	B+SN03T	J Series	
5/8	16	-10	K series	B+SCX0T	K & J series	B+SN03T	J Series	
¾	19	-12	K series	B+SCX0T	K & J series	B+SN03T	J Series	B+S312T B+S0420/ I+S004I
1	25	-16	K series	B+SCX0T	K & J series	B+SN03T	J Series	
1 ¼	31	-20	-	-	-	-	J Series	B+S0420/ I+S004I

Hose size			4ST		6ST		HST
inch	DN	Dash	One Piece	Two Pieces	One Piece	Two Pieces	Two Pieces
5/8	16	-10	J Series	B+S3212T B+S0420	-	-	-
¾	19	-12	J Series		-	-	S+S004I
1	25	-16	J Series	B+S3212T B+S0420 I+S004I	-	-	S+S004I
1 ¼	31	-20	J Series		H Series	I+S006I	S+S006I
1 ½	38	-24	J Series		H Series	I+S006I	-
2	51	-32	J Series		H & HLZ Series	I+S006I	-
2 ½	63	-40	J Series	-	-	I+S006I	-

Coupling Material: 11SMnPb30 EN 10277-3, 11SMnPb37 EN 10277-3, 36SMnPb14 EN 10277-3, C45 EN 10277-2, S355J2 EN 10277-2, X2CrNiMo 17-12-2 EN 10088-3 (AISI 316)

Couplings Manufacturer: INTERTRACO ITALIA SPA, Suzzara MN, Italy

Application/Limitation

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1) EN ISO 15540:2016 - Fire resistance of hose assemblies- Test methods
2) EN ISO 15541:2016 - Fire resistance of hose assemblies - Requirements for the test bench

The hose assemblies covered by this certificate are approved to be used in oil or fuel oil systems.

Maximum working pressure (in bar):

Hose size			R1K	R2K	4ST	4ST+	6ST	HST
inch	DN	Dash						
¼	6	-04	250	420				
5/16	8	-05	-	380				
3/8	10	-6	210	350	-	450	-	-
½	12	-8	180	350	-	420	-	-
5/8	16	-10	150	250	350	420	-	-
¾	19	-12	140	250	350	420	-	500
1	25	-16	120	210	350	420	-	500
1 ¼	31	-20	-	-	350	420	450	500
1 ½	38	-24	-	-	300	-	420	-
2	51	-32	-	-	250	-	420	-
2 ½	63	-40	-	-	140	-	350	-

Type Examination documentation

Intertraco (Italia) S.p.A. - All rights reserved

Tests carried out

Fire testing according to ISO 15540 and ISO 15541

Marking of product

As a minimum, the final product shall be marked with the following particulars:

- Manufacturer's name or trademark
- Specification or hose name
- Hose size and type designation
- Date of manufacture
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