

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)

FlexIT 1T, FlexIT 2T, FlexIT SK117, 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) 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

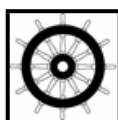
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-07-18**.

Issued at **Høvik** on **2019-07-19**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Job Id: **344.1-009296-1**
Certificate No: **MEDB00005AW**

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	
inch	DN	Dash	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
5/16	8	-5			K&J			
3/8	10	-6						
½	12	-8						
5/8	16	-10						
¾	19	-12						
1	25	-16	J	B+SN03T	J		-	B+SN03T
1 ¼	31	-20			-		-	
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			K&J	
3/8	10	-6				
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	-	-			H & X series	I+S006I	H & X series	I+S006I
1 ¼	31	-20	-	-			H & X series		X series & HLZ	
1 ½	38	-24	-	-			-		-	
2	51	-32	-	-	-	-	-	I+S008I	-	-
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)

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Couplings Manufacturer: INTERTRACO ITALIA SPA, Suzzara MN, Italy

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

Maximum working pressure

Hose size			1T	2T	SK117	SK216	SC216	FlexIT SHP	FlexIT H4	FlexIT 5000	FlexIT 6000
inch	DN	Dash									
¼	6	-4	225	400	290	450	400	-	-	-	-
5/16	8	-5	215	350	250	420	350	-	-	-	-
3/8	10	-6	180	330	230	385	350	450	-	-	-
½	12	-8	160	275	210	345	280	420	-	-	-
5/8	16	-10	130	250	130	290	250	350	450	-	-
¾	19	-12	105	215	105	280	250	350	420	350	420
1	25	-16	88	165	88	230	165	320	380	350	420
1 ¼	31	-20	63	125	100	175	-	-	350	350	420
1 ½	38	-24	50	90	-	-	-	-	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

For traceability to this certificate, each hose is marked with:

- Hose manufacturer's name or trademark;
- Date of manufacture (month/year);
- Designation type reference;
- Nominal diameter;
- Pressure rating;
- Temperature rating.