

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007GS

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV 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 and compensators

with type designation(s)
KP 100 according to DIN EN 857 2SC

Issued to
HANSA-FLEX AG
Bremen, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation (EU) 2021/1158,
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

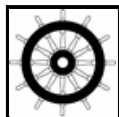
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-08-31**.

Issued at **Hamburg** on **2021-09-01**

DNV local station:
Hamburg – CMC North/East

Approval Engineer:
Christian Kaemmer



Notified Body
No.: **0098**

for **DNV SE**

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Christine Mydlak-Roeder
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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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.



Product description

Type	Description
KP 100 acc. to EN 857 2SC	Inner layer of oil resistant synthetic rubber with one high-tensile steel wire braided insert and cover of oil resistant synthetic rubber.

Hose end fittings, maximum allowable working pressure (M.A.W.P.) and sizes are as following:

Hose type	Hose size			M.A.W.P. [bar]	Hose end fitting
	DN	Dash	Inch		
KP 106	6	-4	1/4"	225	PHN 100: Swage ferrule for unskived braided hose PHD 100: Swage ferrule for skived braided hose PN: Nipple PN – series Carbon steel
KP 108	8	-5	5/16"	215	
KP 110	10	-6	3/8"	180	
KP 113	12	-8	1/2"	160	
KP 116	16	-10	5/8"	130	
KP 120	19	-12	3/4"	105	
KP 125	25	-16	1"	88	

Application

Piping systems conveying oil, fuel oil, water, water-oil emulsion.

Type Examination documentation

Tests carried out

Fire resistance test according to ISO 15540 and ISO 15541

Marking of product

For traceability to this certificate each hose assembly is to be marked on the hose and or on the hose end fitting at least with:

Scope	Example
Manufacturer's name or trademark	HANSA-FLEX
Type designation	KP 110
M.A.W.P.	180bar
Hose size	DN10
Mark of Conformity according to Article 10 of the Council Directive (MED) ¹	HF-GVZ, 180bar, 02/21  0098 /21

Note 1 may only be affixed to the type approved equipment, in case the associated production surveillance module (D, E or F) is valid.