

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000AVS
Revision no.:
0

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)
G1, M3K, M5K, EFG3K, EFG5K

issued to

Gates Fluid Power Technologies (Changzhou) Co., Ltd
Changzhou, China

is found to comply with the Implementing Regulation (EU) 2024/1975 for

Item no. **MED/3.15c (Row 1 of 1)**

according to the following requirements:

SOLAS 74 Reg. II-2/4, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.36(63)-(1994 HSC Code) 10, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 10, IMO MSC/Circ.1120, SOLAS 74 Reg. X/3

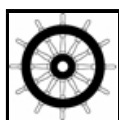
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-06-04**

Expiry date: **2030-06-03**

DNV local unit:
Nanjing NB & CMC

Approval Engineer:
Maheshraja Venkatesan



for **DNV AS**

Notified Body
no.: **0575**

Christine Mydlak-Röder
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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 USD 300 000.



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Product description

5 types of flexible hoses of non-metallic materials with permanently fitted couplings.

Please see Appendix: Product Description

Application/Limitation

Please see Appendix: Application/Limitation

Type Examination documentation

Tests carried out

Fire testing according to ISO 15540/ 15541

Marking of product

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

- 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.

APPENDIX

Product Description

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Hose construction:

Hose designation	EFG3K	EFG5K	M3K	M5K	G1
Tube	NBR				
Reinforcement Wires	four wires	four (six for ≥ 20) wires	1 or 2 braids	2 braids	1 braid
Cover	CR		NBR/PVC	NBR/PVC	NBR/PVC

Material of End fittings (Ferrule & Insert) : ASTM A108 Grade 1215 (20 according to GB/T 699-2015)

End fittings (Ferrule & Insert) designations:

Size		EFG3K	EFG5K	M3K	M5K	G1
Dash	DN					
-4	6	-	-	G	G	G
-5	8	-	-	G	G	G
-6	10	-	GS	G	G	G
-8	12	-	GS	G	G	G
-10	16	-	GS	G	-	G
-12	19	-	GS	G	-	G
-16	25	-	GS	G	-	G
-20	31	GS	GS	-	-	G
-24	38	GSP	-	-	-	GSP
-32	51	GSP	-	-	-	GSP

Hose and end fittings(ferrule & insert) manufacturing location:

Gates Fluid Power Technologies (Changzhou) Co. Limited, 11 Kohler Road,
National Hi-Tech District, 213022 Changzhou, China

Hose assembling location

Gates Fluid Power Technologies (Changzhou) Co. Limited, 11 Kohler Road,
National Hi-Tech District, 213022 Changzhou, China

APPENDIX

Application/Limitation

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Testing standards according to which the hose assemblies covered by this certificate are as follows:

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

Hose assemblies covered by this certificate are suitable for systems conveying oil or fuel oil with the following maximum allowable working pressures (in bar):

Size			EFG3K	EFG5K	M3K	M5K	G1
inch	Dash	DN					
¼	-4	6	-	-	225	350	225
5/16	-5	8	-	-	225	350	215
3/8	-6	10	-	350	225	350	179
½	-8	12	-	350	225	350	160
5/8	-10	16	-	350	225	-	131
¾	-12	19	-	350	225	-	105
1	-16	25	-	350	225	-	90
1¼	-20	31	210	350	-	-	63
1½	-24	38	210	-	-	-	50
2	-32	51	210	-	-	-	41

Scope of approval covers only the fire resistance capability of the hoses while the review of assembling of the approved hoses and end fittings for DNV Class approval are not covered under this certification.