

TYPE APPROVAL CERTIFICATE No. MAC084922XG/001

This is to certify that the product identified below is in compliance with the regulations herewith specified.

Description	Non metallic flexible hoses
Туре	S50 DN65
	S50 DN 50
	S32 DN 32
Applicant	HKS GMBH
	SCHONENFAHRERSTR 1
	18057 Rostock
	GERMANY
Manufacturer	HKS GMBH
Place of manufacture	SCHONENFAHRERSTR 1
	18057 Rostock
	GERMANY
Reference standards	Part C, Chapter 1, Section 10 of RINA Rules for the
	Classification of Naval Ships

Issued in HAMBURG on July 10, 2022. This Certificate is valid until July 10, 2027

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RINA Services S.p.A. Giuseppe Russo

This certificate consists of this page and 1 enclosure

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Reference documents

- Technical Drawings approved with HMMC-8637 and dispatched with Letter HMMC/2017/00191/CRLVA
- EC Certificate Type Examination (module B) N° 61831-14HH
- Catalogue
- Prototype test reports
- HKS pressure tests : 2017/4552, 2017/4553 , 2017/4554 ,2017/4555
- Fire Test acc. to ISO 15541 , Test Report WTD71 N° 60/08, 61/08.

Design Conditions

Design Pressure : 16 bar Max Temperature : +180°C Medium : Oil, Water, Air,Bio diesel

Materials/Components

As per approved drawings

Fields of application

May be used for the following services on board:

- Bilge and ballast
- Compressed air
- Fresh water and sea water
- Fuel oil
- Lub and hydraulic oil

Additional manufacturer site

HKS-CZ, s.r.o. Mlekojedska 1994/97, 412 01 Litomerice, Czech Republic

Acceptance Conditions

- The installation on board is to be made in accordance with the Manufacturer's instructions and provisions stated in Part C Chapter 1 Section 10 par. 2.6 of RINA Rules for the classification of Naval Ships.

- The hoses are to be fitted with end couplings from the manufacturer.
- Each hose shall be tested as per Part C Chapter 1 Section 10 par. 20.4.6 of RINA Rules.
- Hoses are to be marked with the type designation, manufacturer's name and maximum foreseen working pressure.

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HAMBURG July 10, 2022

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