



Certificate No. 02-003223/025251

TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

STEERING GEAR, type HKS 09 PRO

MANUFACTURER:



SCAM MARINE d.o.o.

Mavri b.b. 51216 Viškovo
Croatia

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

CRS: Rules for the classification of ships, Part 9. - Machines.

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: **2025-05-17**

Place and date: Split, 2021-04-26

Seal

Marinko Popović, dipl.ing.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

DETAILED PRODUCT DESCRIPTION:

Hand-controlled hydraulic steering gears HKS 09 PRO

Pump type	Pump displacement [cm³/rev]	Cylinder type	Cylinder displacement [cm³]	Max. working torque [Nm]
HP 09/80	78	HC 4500	636	4520
HP 09/100	98	HC 6000	866	6150
		HC 8000	1131	8030
HP 09/160	163	HC 12000	1767	12550
		HC 14000	2003	14220

APPLICATION / LIMITATIONS:

Maximum working pressure (bar) 100
Maximum design pressure (bar) 125

TYPE APPROVAL DOCUMENTATION:

Drawings and calculations approved by CRS with letter 109/TS/IA/024053 dated (2017-01-20)

MARKING OF PRODUCT:

- **manufacturer's mark**
- **year of manufacture**
- **CRS mark**

CONDITIONS FOR CERTIFICATION:

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