



Certificate No. 02-003884/025723

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 GEARS

Types

05/400, 05/550, 05/700, 05/850, 07/1050, 07/1600, 07/2100

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: **2027-02-26**

Place and date: Split, 2023-01-23

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.

Steering gear type	Pump type	Max. working pressure [bar]	Pump displacement [cm ³ /rev]	Cylinder type	Cylinder displacement [cm ³]	Max. working torque [Nm]
05/400	HP 05	65	23,55	HC 400	82,938	466,98
05/550				HC 550	107,819	610,67
05/700	HP 05 OB	55	36,79	HC 700	150,32	716,19
05/850				HC 850	195,42	936,55
07/1050	HP 07	60	59,82	HC 1050	237,504	1234,37
07/1600				HC 1600	308,756	1614,21
07/2100				2x HC 1050	2x 237,504	2100

APPLICATION / LIMITATIONS:

Test pressure defined as 1,5 x design pressure. Design pressure is 1,25 x maximum working pressure.

TYPE APPROVAL DOCUMENTATION:

Drawings and calculations approved by CRS with letter 3/TS/IA/021095 dated (2001-12-21)

Report of performed type testing (dated): (2003-01-23)

MARKING OF PRODUCT:

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

CONDITIONS FOR CERTIFICATION:

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