



Certificate No. 03-001821/031494 rev.2

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:

ELECTRONIC VESSEL CONTROL SYSTEM – EVC 2.0

PCU	Powertrain Control Unit	IGW	Information Gateway
HCU	Helm Control Unit	PFM	Power Feed Module
SUS	Steering Unit Servo	SDM	Shutdown Module
HLU	Helm Lever Unit	IRS	Independent Rudder System
AKI	Analog Key Interface	VMM	Vessel Main Module
EKS	Electronic Key System	SU	Steering Unit
AD	Alarm Display 7"		Joystick
SG	Steering Gear Display 7"		EVC Color Display 7"
	Info Display 2,5"		

MANUFACTURER:

AB Volvo Penta
SE 405 08 Göteborg
SWEDEN

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

**Croatian Register of Shipping: Rules for the classification of ships,
Part 9. – Machinery, Part 13. – Automation**

IACS UR E10

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

APPROVAL IS VALID UNTIL: **2025-07-06**

Place and date: **Split, 2024-10-04**

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:

Electronic Vessel Control System EVC 2.0 (EVC2) without electronic steering is a complete vessel control and monitoring system for engine and transmission.

EVC2 system components:

Item	HW Part Number	SW Part Number
PCU		
Powertrain Control Unit (PCU)	24499612	24670133
HCU		
Helm Control Unit (HCU) Stand alone, Twin	24612313	24670132
	23002230	24724894
Control lever with integrated HCU units, Twin, Top Mounted	23070862	
Control lever with integrated HCU units, Single, Top Mounted	23002239	
HLU – Control Levers		
Control lever (HLU) Heavy duty control - twin, IB/IPS/IS	23794477	
Control lever (HLU) Heavy duty control - twin, IB/IPS	23794338	
Joystick		
Joystick deluxe IPS	24010851	
Joystick HD		
Joystick deluxe IPS (Heavy Duty Controls)	24010847	
EKS		
Electronic Key System, Twin (EKS)(IP67)	24268398	
Electronic Key System, Single (EKS)(IP67)	24267886	
Analog Key Interface (AKI)	21656937	
SUS		
Servo Unit Steering (SUS20)	24075784	24170472
Servo Unit Steering (SUS10)	24074622	24170400
Steering Wheel		
Steering Unit (SU), twin	23362099	
VMM		
VMM vessel main module	23308671	24670136
Display		
EVC Color Display 7" (IP67)	24252970	
Alarm Display 7" (AD) (IP67)	24242941	
Steering Gear Display 7" (SG)(IP67)	23874099	
Info display 2,5"	22480957	
Misc		
Generic Button Panel	22480958	
Information Gateway (IGW)	24279592	
Independent rudder angle sensor (IRS)	24119784	
Power Feed Module (PFM)	21379671	
Autopilot Gateway (APG)	24558452	
IRS Display 3,5" XDi96	23834725	
A-CAN interface	23834745	

EVC2 IPS40 system components:

Item	HW Part Number	SW Part Number
PCU		
Powertrain Control Unit (PCU)	23030397	24775965
HCU		
Helm Control Unit (HCU) Stand alone, Twin	23002230	24784719
HLU – Control Levers		
Control lever (HLU) Heavy duty control - twin, IB/IPS	23794338	
SUS		
Servo Unit Steering (SUS20)	24075784	24834612
Servo Unit Steering Secondary (SUS20) (SUS s)	24075784	24808518
VMM		
VMM vessel main module	23308671	24775966
PCM		
Powertrain Control Module (PCM)	23851834	24845898
LCM		
Local Control Module (LCM)	24330009	24814158
GCM		
Gear control Module (GCM)	24344797	24802352
Display		
8" Type Approved Display Pres-Series Hatteland (Display Bridge)	HD 08T30 MMC / 24666165	24756002
8" Type Approved Display Pres-Series Hatteland (Local Control)	HD 08T30 MMC / 24666165	24756002
Misc		
Independent rudder angle sensor (IRS)	24067041	
IRS display 3,5" XDi96 (Deif)	24164109	

APPLICATION / LIMITATIONS:

System is applicable to the following engine range – **D8/D11/D13/D16**

Approved installation type is IPS or inboard in twin, triple or quad engine configuration.

TYPE APPROVAL DOCUMENTATION:

Approved by the Croatian Register of Shipping with letter No.:

- 1386/TSE/NP/031494 dated 2021-07-06
- 193/TSE/NP/031642 dated 2023-01-26
- 2619/TSE/NP/031779 dated 2024-10-04

MARKING OF PRODUCT:

In accordance with IEC60945 – Marking and identification (The Manufacturer and Type Designation of the product, serial number, date of manufacture, safe distance to magnetic compass, supply voltage, software version...).

CONDITIONS FOR CERTIFICATION:

Correct configuration and set up for each delivery to be tested during commissioning, after installation, under the supervision of a Society Surveyor.

All changes in hardware or software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to CRS for evaluation and approval.