Alamarin-Jet IO-Joystick Control System

SYSTEM DESCRIPTION
SYSTEM SCHEMAS
COMPONENT SPACE REQUIREMENT
Alamarin Jet IO is a total control system for twin jet boats equipped with Jet-230 or Jet-288 units. The boat can be operated with IO in all situations, whether going straight and fast or slowly manoeuvring in tight spaces and docking. A simple and intuitive solution makes manoeuvring easy. An affordable solution for smaller boats as well. A hi-tech colour display informs the user about system status. The IO is a safe system featuring back ups for every vital function.
Left-side stick has one axis for steering.

Right-side stick has two axes for simultaneous control of reverse buckets and throttle.

Robust backup panel for emergency control without the need for digital control unit.

Main operating panel with integrated electric gear switches and informative system display.

Joysticks can be integrated to seat armrests.
**Drive modes**

**N-mode** for normal forward-reverse drive.

Two arrows illuminated on the panel.

**H-mode** for sideways drive as well at reduced speed.

Four arrows illuminated on the panel.

Push the button on the top of the Right-side stick to change the mode.
System display

Shows the control device positions, drive mode and jet shaft rpm.

Can be used for setting parameters and for system diagnostics.

Adjustable brightness.

Various extra features can be added in accordance with the customer’s requirements.
System schema (four control cylinders)
Hydraulic schema (four control cylinders)

1 Pumps
2 Oil filter
3 Cooler
4 Control valve

a1 Deflector down, port
b1 Deflector up, port
a2 Deflector down, starboard
b2 Deflector up, starboard
a3 Steering starboard, port Steering
b3 Steering port, port Steering
a4 Steering starboard, starboard Steering
b4 Steering port, starboard Steering
Hydraulic schema (three control cylinders)
Components

Engine compartment

Cabin

Joysticks and panels

Main control unit

Hydraulic system

Alamarin jet propulsion units
1: OK2. Control unit 2.
3: JS1 and JS2. Joysticks 2 pcs.
4: OP1. Main control panel.
5: OP2. Backup control panel.
6: OK1. Main control unit.
7: JB2. Connecting panel 2. For connecting #6 and #8. Same as #2.
8: Hydraulic block.
10: Oil reservoir.
11: Steering cylinder.
1: OK2. Control unit 2, casing dimensions. Located under the dashboard.
3: JS1 and JS2. Joysticks 2 pcs, outline dimensions. Located at the seat arm rests.
4: OP1. Main control panel, outline dimensions. Located at the dashboard.
5: OP2. Backup control panel, outline dimensions. Located at the dashboard.
6: OK1. Main control unit, casing dimensions.
8: Hydraulic block, minimum dimension. More space is necessary for wiring, hydraulic hoses, easy access and maintenance.
10: Oil reservoir.
11: Steering cylinder

Middle position dimension.
Steering lever movement ±25°
equals to ~60mm cylinder stroke.