



VALDAI-45R

RIVER PASSENGER HYDROFOIL PROJECT 23180

BASIC FUNCTIONS

High-speed passenger transportation (up to 45 persons) using aviation-type seats during daylight hours on navigable rivers, freshwater basins and lakes in areas with a temperate climate.

CLASSIFICATION

Russian River Register ✕ R 1.2 / 0.7 Hydrofoil craft passenger A

OPERATION REGION AND CONDITIONS

Navigable rivers of "R" level.
Climatic category - General "OM" (excluding winter operation).
Operational temperature: +5° ... +30°C.
Sea water temperature: +5° ... +25°C.
Air humidity: up to 80%.

SEAKEEPING

Foilborne, $h_{w1\%}$ - 0.7 m (Beaufort force two at a speed of 45-50 km/h).
Hullborne draft, $h_{w1\%}$ - 1.2 m (Beaufort force three) - safety cruising.

MAIN ENGINES

Type: D2842LE410 («MAN», Germany)
Total power max: 809 kW
Total power at cruising speed: 510 kW



TECHNICAL SPECIFICATIONS

Length overall, m	21.3
Beam overall, m	5.2
Depth at foilborne, m	6.3
Hullborne draft, m	1.1
Full displacement, t	21.4
Passengers	45
Crew	2
Service speed at smooth water, km/h	65
Maximum range at full-load displacement and fuel reserve, km	400
Cruising endurance, hours	8