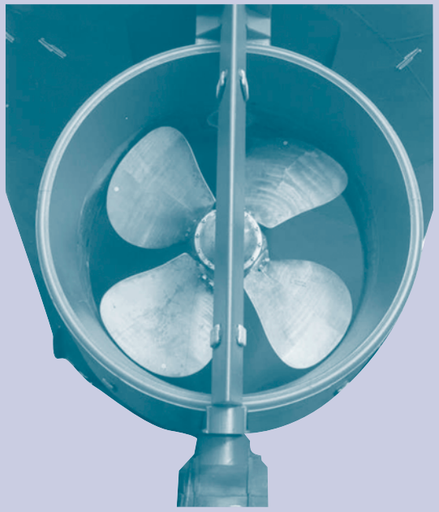
SMART MARITIME SOLUTIONS

MARINE SYSTEMS
VAN DER VELDEN

BENEFITS ►

- Improved propulsion efficiency
- Incorporates the advantages of a fixed nozzle
- Perfect slipstream guidance
- Smaller steering gear unit possible
- Low maintenance costs
- Reduced noise and vibration

BARKE™ Nozzle



MAXIMISE YOUR MANOEUVRABILITY

The BARKE™ nozzle offers an unprecedented manoeuvring performance. The key driver behind this concept is the innovative BARKE™ progressive flap mechanism, which provides optimal propulsion efficiency and perfect slipstream guidance. This solution also guarantees low noise and vibration levels.

The BARKE™ nozzle is an excellent alternative to a rudder, and makes a smaller steering gear unit possible. Without a rudder, the propeller can be installed nearer to the stern of the vessel. This arrangement in turn gives more space to the propeller, improving efficiency levels.

The nozzle also offers a decrease in fuel consumption by acting as a ring around the propeller. This pushes the power in the direction required, ensuring that no force is lost from the water flow around the propeller. The revolution rate of the propeller can therefore be reduced to achieve the same speed.

The progressive flap-motion ensures minimum drag at course keeping and a high maximum lift , thus superior manoeuvring performance. The flap linkage is contained in a fully enclosed grease lubricated housing. This results in minimum wear on the linkage and shelters it from sand, seawater and floating objects.

The lack of a large rudder in the slipstream and the omission of all protruding parts inside the flap mechanism housing reduces turbulence and avoids cavitation. Together with a minimal clearance within the flap mechanism and flap bearings, this results in a noise and vibration free operation.

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