

TOP OF THE PROPS

What is the perfect propeller? That depends on what type of boater you are.

At Volvo Penta, we develop each of our propellers for a specific drive. For a standard drive, we've designed propellers for broad usage, and if you have one of our dedicated high-speed drives, our stainless steel propellers give you absolute top performance.

What is common to all of our Duoprop propellers is the systematic sizing. You don't need to think about diameter, pitch, cupping etc. The only thing you need to know to get the "top of the props" is what drive and engine you have, plus your boat's top speed.



ALWAYS CARRY **A SPARE!**

You probably don't go driving your car without a spare tire. So why go boating without an extra set of props? The perfect investment for worry-free and uninterrupted boating fun! The complete propeller guide is available at your dealer and on www.volvopenta.com

DEALER BOX

**VOLVO
PENTA**

www.volvopenta.com

English 7748206

PERFECTLY MATCHED

THE SECRETS BEHIND OUR **TOP-PERFORMING DUOPROP**



**VOLVO
PENTA**

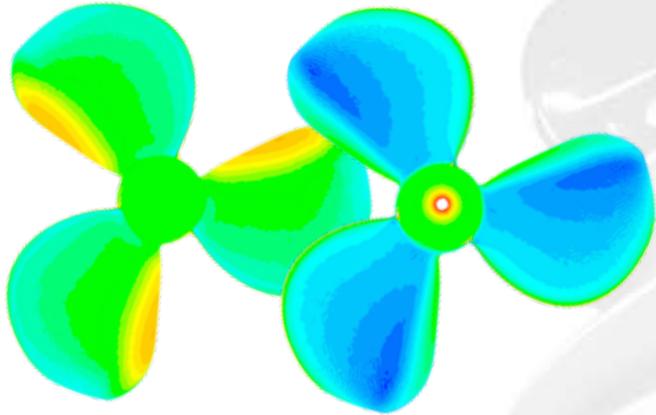
Your propellers decide what you get from your drive system. Their performance decides whether the power produced by your engine and drive is turned into boat performance – or not.

ONLY VOLVO PENTA KNOWS **THE ENTIRE PACKAGE.**

Volvo Penta Duoprop is the perfect match to engine characteristics and drive hydrodynamics.

That gives you the best overall efficiency, which benefits you – and to the environment – as you reduce fuel consumption.

It also gives your engine and drive a long service life, as they work with the load they've been designed for.



Developing a new set is not a matter of chance: Well over one year of computer calculations to ensure that the props are equally efficient at any speed and under any load. Cavitation tunnel test. Real-life close-up studies of prototypes. Boat testing. To determine that the feel is perfect. How they sound. What performance they give.

THE EXPERTS

Volvo Penta invented Duoprop in 1982 and we're continuously developing the entire package: engine, drive and propellers. Our in-house experts are the best in the industry. They work only with propellers. Full time. Nothing else.

As one of our experts puts it:

“ The only competition we really have is our previous propeller models. ”

DUOPROP ANATOMY

Super-strength material. The different materials used are all super-strength and crafted for propeller duty. This gives a certain built-in flexibility. The material handles the forces without bending or breaking.

THE FRONT PROPELLER

The efficiency. A combination of curving, blade surface and cavitation design. Only when all these factors are perfect do you get maximum efficiency.

The bushings. Much more than a piece of rubber! Each propeller has its bushing specifically adapted to handle turning and pulling forces. The bushing gets its final shape and performance when the correct fastening torque is applied. Essential for smooth shifting and long drive-train lifetime.

The match. Each prop must take exactly the correct load to give full Duoprop efficiency. The flow contraction means the rear propeller must have a smaller diameter to work inside the flow.

The balance. Each propeller is perfectly in balance, in weight, size and cavitation. Essential for secure grip in curves and driving safety.

THE REAR PROPELLER

The perfect curve. Comes from thousands of computer calculations in a uniquely developed program.

THE ULTIMATE CHECKLIST

Everybody talks about acceleration and top speed. But that's only part of what your propellers should deliver:

- ✓ **HIGH EFFICIENCY AT ALL SPEEDS:** Gives you fast acceleration and high top speed. Plus, **low overall fuel consumption** to benefit you and the environment.
- ✓ **HANDLING:** With Duoprop, most of your boat's performance and **grip in turns** comes from the props. They are like the tires on your car.
- ✓ **MANOEUVRING:** Direct response when turning and safe in **reverse**.
- ✓ **MINIMAL VIBRATIONS:** For onboard comfort – and crucial for **drive-train lifetime**.
- ✓ **LOW NOISE:** A quiet prop is an **efficient** prop.
- ✓ **LOAD BALANCE:** Perfect **weight balance** and perfect **load distribution** over each blade. The prop is smooth, quiet and efficient.
- ✓ **EASY-TO-CHOOSE:** The size should be designed for **one specific target speed**.

Volvo Penta Duoprop is the perfect match.