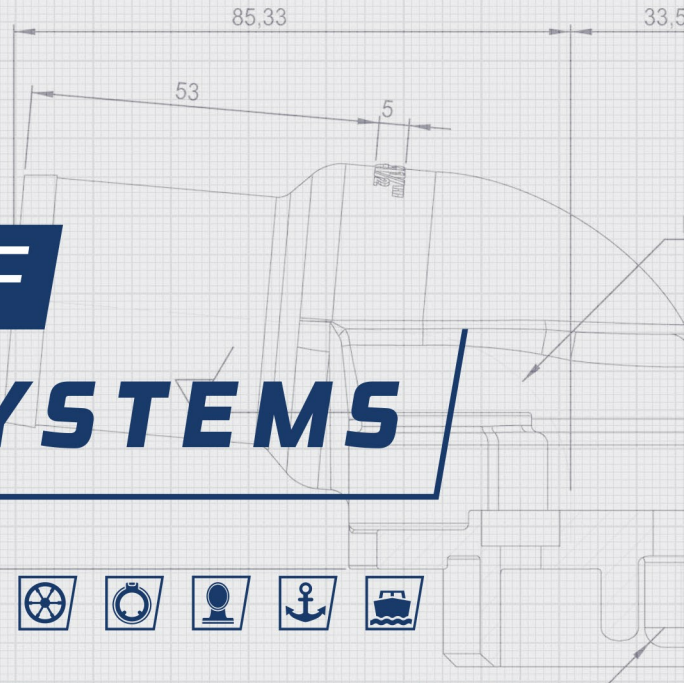
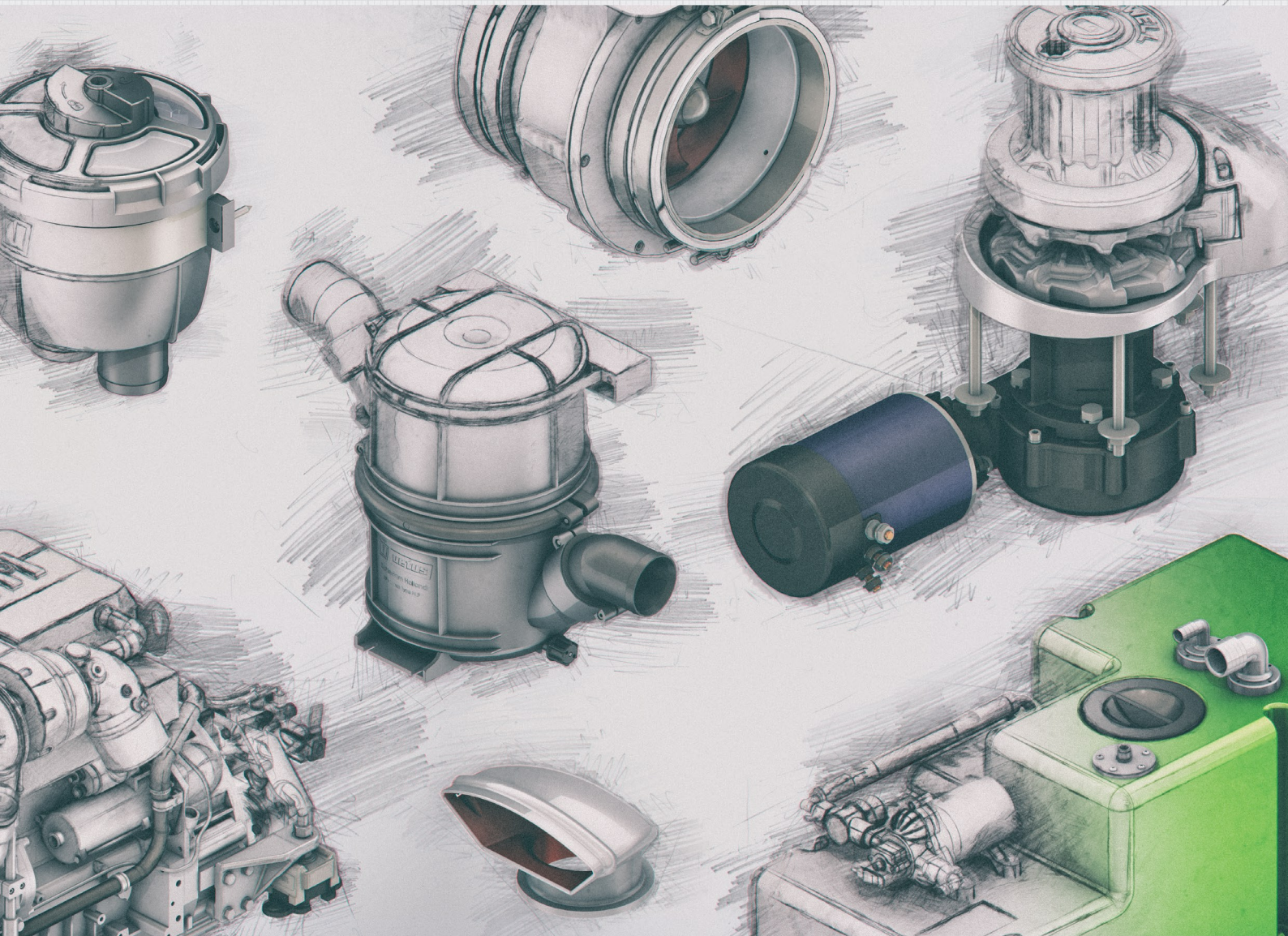




WWW.VETUS.COM



CREATORS OF BOAT SYSTEMS



PROPELLERS

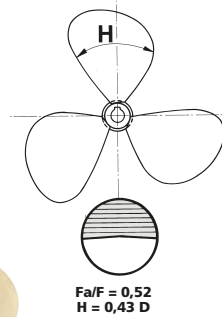
The most essential component of your boat

VETUS makes good use of an especially developed computer programme, which ensures the determination of exactly the right propeller for your boat. The most important elements of propeller design and manufacture are balance, dimensions, material and the blade area.

1. If you bear in mind that a propeller is often rotating at 2.000 r.p.m. (more than 30 revolutions per second), you will understand that it is an absolute must that a good propeller is well-balanced.
2. In order to achieve the best performance and to minimize vibration, it is extremely important to ensure that the pitch of each blade is identical and that the distance between the blades does not vary. (This requires great manufacturing precision.)
3. VETUS propellers are made of manganese bronze, an extremely resilient, yet flexible material.
4. The choice of a good propeller with all above combined qualities, is of the utmost importance.
5. A propeller specialist must always determine the diameter and pitch and the required (fixed) Fa/F ratio. This means the total area of the propeller circle (F) in comparison to the surface area (stretched and developed) of all blades (Fa). The choice of the Fa/F ratio is dependent on the shape of the underwater section and the speed of the boat in question.

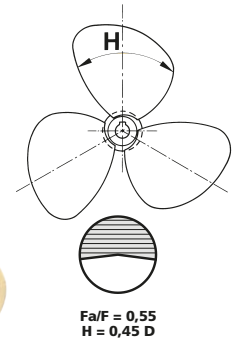
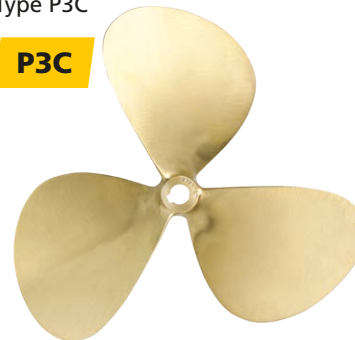
3-Bladed propeller
Type P3B

P3B



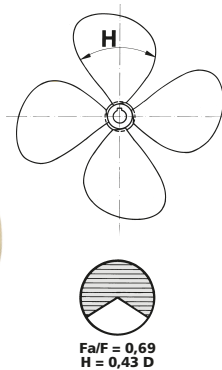
3-Bladed propeller
Type P3C

P3C



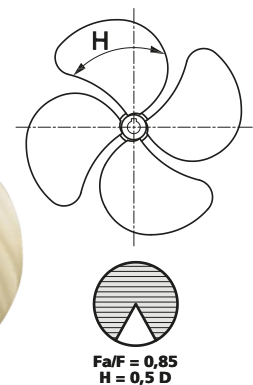
4-Bladed propeller
Type P4E

P4E



4-Bladed propeller
Type P4G

P4G

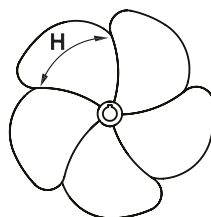


PROPELLERS

Propellers of different types and dimensions are available to special order, with a delivery time of 10 to 12 weeks

5-Bladed propeller
Type P5G

P5G



$$\begin{aligned} Fa/F &= 1,06 \\ H &= 0,5 D \end{aligned}$$

Note

Types P3B, P3C and P4E have standard shaft holes and keyway. Dimensions are according to ISO 4566. Sizes are indicated in the tables. VETUS can also supply matching propeller shafts from stock (see page 70).

Standard taper of shaft holes of VETUS propellers (1:10). Dimensions according to ISO 4566

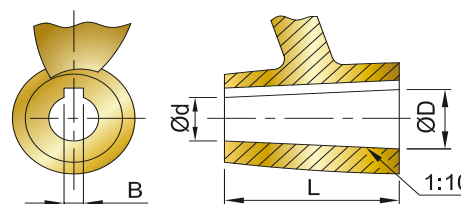
Propeller diameter					Shaft hole		Hub	
3-bladed propeller P3B	3-bladed propeller P3C	4-bladed propeller P4E	4-bladed propeller P4G	5-bladed propeller P5G	Largest diameter D (mm)	Smallest diameter d (mm)	Hub length L (mm)	Keyway width B (mm)
12"-15"	12"-15"	14"-15"			25	19	60	8
16"-18"	16"-18"	16"-17"	on request	on request	30	22	80	8
19"-21"	19"-21"	18"-20"	on request	on request	35	26	90	10
22"-24"	22"-24"	21"-22"	on request	on request	40	30	100	12
25"	25"	23"-24"	on request	on request	45	34	110	14
greater than 25"	greater than 25"	on request	on request	on request	50	38	120	14

How to order?

Please give us the propeller diameter and pitch, as well as the number of blades, the sense of rotation and the dimensions of the hub and the taper as shown below. In case propeller details are not known to you: VETUS makes use of an especially developed programme, which ensures the determination of the exactly right propeller for your boat.

Propeller shaft taper

All stock VETUS propellers have a standard taper of 1:10. This means that the difference between the largest and the smallest diameter of the tapered hole represents 10% of the propeller hub length ($D-d=0.1 \times L$). If required, we can machine the hub to a taper of 1:12, 1:16, etc. It takes a few days extra delivery time plus a small surcharge (see pricelist).

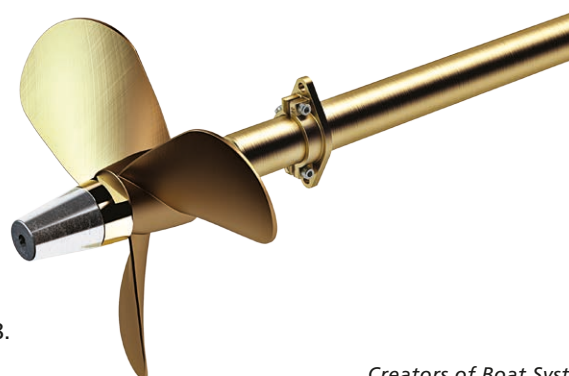


Note:

VETUS offers a wide variety of propeller sizes to special order. Propellers are supplied in manganese bronze. Aluminium bronze propellers can also be supplied to special order.

Zinc anode for shaft nut

Type	Specifications
SN25B	Spare zinc anode for Ø 25 mm shaft nut
SN30B	Spare zinc anode for Ø 30 mm shaft nut
SN35B	Spare zinc anode for Ø 35 mm shaft nut
SN40B	Spare zinc anode for Ø 40 mm shaft nut
SN45B	Spare zinc anode for Ø 45 mm shaft nut
SN50B	Spare zinc anode for Ø 50 mm shaft nut
SN60B	Spare zinc anode for Ø 60 mm shaft nut



For more information or a overview of anodes see page 367 and 378.

