

VARIFOLD

FOLDING PROPELLERS



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VARIFOLD

FOLDING PROPELLERS



Perfect Propulsion

The remarkable VARIFOLD propeller range has grown from a single two blade model to include three and four blade versions in a very short space of time. VARIFOLD is the propeller of choice for many highly respected yacht manufacturers and their customers. For years, owners of yachts equipped with folding propellers have suffered from a multitude of problems to which there seemed no solution.

High noise, vibration and cavitation levels, poor astern performance and unreliable blade opening degraded the enjoyment of ownership. Today, with a three model range covering all sizes of yacht, owners can enjoy the benefits that VARIFOLD brings.

This site will tell you more about the unique design features which find VARIFOLDS being fitted to Swans, Baltic Yachts, Wally's and Moody's to name but a few.

To get the whole story, do contact us and we will be very happy to discuss the right model and size for your yacht.

VARIFOLD Design

VARIFOLDS are designed to solve problems which have affected folding propellers since they were first introduced. Working with SPW, and other companies in the Bruntons group, who design and manufacture propellers for vessels as diverse as nuclear submarines and luxury motor yachts, the designers have achieved their objectives.

The resulting range of propellers share design features which are little short of revolutionary. VARIFOLD marries virtually all the benefits of a fixed propeller when motoring, to those of a low drag folding propeller when sailing.

VARIFOLD's very low noise and vibration characteristics are achieved by state of the art blade design and proper helical pitch distribution, including pitch reduction towards the blade tip. This radically reduces cavitation and, in combination with the skewed blades, greatly reduces noisy pressure pulses against the hull.

No other manufacturer offers this full package on such a wide range of folding propellers. Putting the technicalities to one side it's very simple - VARIFOLDS work!





Varifold 2-Blade:
up to **50 hp**



Varifold 3-Blade:
up to **350 hp**



Varifold 4-Blade:
up to **750 hp**

2-Blade

- » Diameter 305 mm to 432 mm or 12" to 17"
- » For engines rated to 50 hp
- » Available for shafts & saildrives
- » Blades fold completely together for minimum drag
- » Modern blade design with substantial blade area for smooth running and minimum noise & vibration
- » Rubber bump stops minimise blade , opening impact

3-Blade

- » Diameter 432 mm to 813 mm or 16" to 32"
- » For engines rated to 350 hp
- » Available for shafts & saildrives
- » Latest blade design incorporates high skew and cambered blades for smooth operation
- » Pitch reduction at the tip to reduce pressure pulses on the hull

4-Blade

- » Diameters up to 1,016 mm or 40"
- » For engines rated to 750 hp
- » Designed for high power sailboats, to minimise noise & vibration
- » Incorporates the latest low noise blade design
- » High blade area minimises cavitation and thrust breakdown at full power giving improved efficiency and speed

Varifold sailing

VARIFOLD, in all its versions – two, three and four blade, is an exceptional low drag racing propeller. Unlike some folding propellers, on most installations VARIFOLDS do not rotate when sailing, even at higher speeds.

Varifold astern

Varifolds open when you go astern! This is again a feature of the design which relies on hydrodynamics as well as inertia to assure reliability. Thrust is greater than other folders by virtue of the design.

Varifold ahead

Most folding propellers suffer from varying degrees of noise and vibration and the problem becomes worse the more power the propeller has to deliver. If your yacht has an engine from 20hp to 750hp, there is a VARIFOLD for you which will provide high thrust with smooth and quiet running.



»... We installed a VARIFOLD 4 blades with smaller radius, folding, with a new blade design and built in high strength NIBRAL Alloy material. Which is much stronger and especially for ice regions certificated. No more noises, vibrations, soft running, Makoré passed from 6,5 knt to 7,3 at cruising speed, and becomes much more powerfull at acceleration. ... «

Fabrice und Isabelle, onboard Makoré II



» Perfect! «

PG Johansson of Baltic Yachts on the **4-Blade VARIFOLD** fitted to a Baltic 147 (45 m, 75 to).



Dimensions | Varifold 2-Blade:

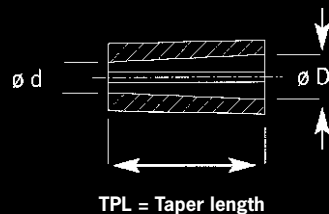
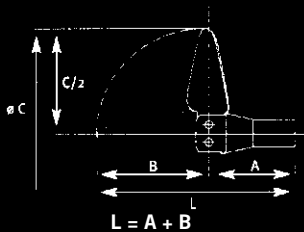
D mm	d mm	Konus	TPL mm	Thread	W mm	A mm
20	15	1:10	50	M14 x 1,5	6	105
22	16,5	1:10	55	M14 x 1,5	6	110
25	19	1:10	60	M16 x 1,5	6	115
30	22	1:10	80	M20 x 1,5	8	135

D inch (mm)	d inch	Konus	TPL inch	W inch (mm)	A inch (mm)
7/8"	0.71"	1:12	2"	3/16"	4.2" (106 mm)
1"	0.81"	1:12	2 1/4"	1/4"	4.4" (112 mm)
1 1/8"	0.92"	1:12	2 1/2"	1/4"	4.7" (119 mm)
1 1/4"	0.99"	1:12	3 1/8"	5/16"	5.3" (135 mm)

D inch	d inch	Konus	TPL inch	Thread	W inch	A inch (mm)
7/8"	0.71"	1:16	2 5/8"	5/8" UNC -11G	1/4"	4.8" (122 mm)
1"	0.81"	1:16	3"	3/4" UNC -10G	1/4"	5.2" (132 mm)
1 1/8"	0.92"	1:16	3 3/8"	3/4" UNC -10G	1/4"	5.5" (141 mm)
1 1/4"	1.02"	1:16	3 3/4"	7/8" UNC -9G	5/16"	6.5" (166 mm)

C inch (mm)	B inch (mm)
12" (305 mm)	5.3" (135 mm)
13" (330 mm)	5.8" (148 mm)
14" (355 mm)	6.3" (160 mm)

C inch (mm)	B inch (mm)
15" (381 mm)	6.8" (173 mm)
16" (406 mm)	7.3" (185 mm)
17" (432 mm)	7.8" (198 mm)



Dimensions | Varifold 3-Blade and 4-Blade

D mm	d mm	Konus	TPL mm	Thread	W mm	A mm
30	22	1:10	80	M20x1.5	8	150
35	26	1:10	90	M24 x 2	10	160
40	30	1:10	100	M24 x 2	12	170
45	34	1:10	110	M30 x 2	14	180

D inch	d inch	Konus	TPL inch	W inch (mm)	A inch (mm)
1.125"	0.92"	1:12	2.5"	1/4"	5.2" (132 mm)
1.25"	0.99"	1:12	3.13"	5/16"	5.8" (148 mm)
1.38"	1.1"	1:12	3.25"	5/16"	5.9" (150 mm)
1.5"	1.21"	1:12	3.5"	3/8"	6.1" (155 mm)
1.63"	1.31"	1:12	3.75"	3/8"	6.4" (162 mm)
1.75"	1.39"	1:12	4.38"		7/16" (177 mm)

D inch	d inch	Konus	TPL inch	Thread	W inch	A inch (mm)
1.125"	0.92"	1:16	3.375"	3/4" UNC	1/4"	6" (152 mm)
1.25"	0.99"	1:16	3.75"	7/8" UNC	5/16"	6.4" (162 mm)
1.38"	1.12"	1:16	4.125"	1" UNC	5/16"	6.8" (172 mm)
1.5"	1.22"	1:16	4.5"	1 1/8" UNC	3/8"	7.1" (180 mm)
1.75"	1.42"	1:16	5.25"	1 1/4" UNC	7/16"	7.8" (198 mm)

C inch (mm)	B inch (mm)
16" (406 mm)	6.7" (170 mm)
17" (432 mm)	7" (180 mm)
18" (457 mm)	7.7" (195 mm)
19" (483 mm)	8" (205 mm)

C inch (mm)	B inch (mm)
20" (508 mm)	8.7" (220 mm)
21" (534 mm)	9" (230 mm)
22" (559 mm)	9.7" (245 mm)
23" (585 mm)	10.2" (260 mm)
24" (610 mm)	10.6" (270 mm)

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